## **TECHNICAL SHEETS FOR COORDINATION**

# VERTICAL RECOMMENDATION FOR USE SHEETS (RfUs) Status in November 2024

Number CNB/M/	Revision (Rev)	Key words	Approved by Vertical Group of NBs <sup>(2)</sup> on:	Approved by Horizontal Committee of NBs <sup>(2)</sup> on:	Endorsed by Machinery Expert
Vertical G	roup 01 –	Woodworking machinery			
01.029	05	Tractor driven machine, P.T.O.	24/04/2009	09/12/1998	03/03/2000
01.087	09	Chain saws for tree service/top, handle machine, battery-powered	11/04/2024	29/05/2024	17/10/2024
01.089	03	Electric and electronic brakes, run-down time, failure of power supply	21/05/2014	18/06/2014	08/01/2015
01.092	02	Single blade edging circular rip sawing machines with power driven saw unit and manual loading and/or unloading	31/03/2021	16/12/2021	23/03/2023
01.093	02	Pruner saws, chain saws, battery-powered	02/05/2023	31/05/2023	12/04/2023
Vertical G 02.001	<b>roup 02 –</b> 02	Meatworking machinery Adjustable guards	17/11/2011	13/12/2011	23/04/2012
Vertical G	roup 03 –	Presses for the cold working of	metals		
03.002	15	Presses – Metal – Field of application	30/09/2009	12/12/1995	04/06/1996
03.004	06	Technical file	30/09/2009	12/12/1995	04/06/1996
03.005	03	Platform, ladders	30/09/2009	17/04/1996	08/06/1998
03.013	08	Acceptability of components of type examined presses	13/10/2010	14/12/2010	23/05/2011
03.022	06	Intrinsic safe pneumatic valve	30/09/2009	18/09/1997	08/06/1998
03.027	09	Secondary protection / Two Hands Control Device / Active Optoelectronic Protective Devices	19/09/2019	14/06/2022	23/03/2023
03.028	06	Failing of springs in the brake	30/09/2009	18/09/1997	08/06/1998
03.029	04	Reaching over, under and around the detection zone	· · ·	12/12/1995	04/06/1996
03.032	07	Fixing the tools, failure of one component	24/05/2022	14/06/2022	23/03/2023
03.035	07	Crushing hazards, ram frame	24/05/2022	14/06/2022	23/03/2023
03.102	06	Overrun detection / Screw presses	30/09/2009	09/06/2005	29/10/2005
03.111	10	Stopping time measurement / die cushion / ejector	29/09/2009	18/12/2023	17/10/2024
03.124	10	Press-brakes / tandem assembly	15/05/2023	18/12/2023	17/10/2024
03.128	11	Overlapping, Monitoring Valves	15/05/2023	31/05/2023	17/10/2024
03.141	07	Bypassing monitored restraint valves	28/09/2023	18/12/2023	17/10/2024
03.154	07	Hydraulic presses, Mechanical restraint device, Production and Maintenance	30/09/2009	24/10/2002	02/03/2004
03.164	06	Press Brakes – Mode selection	29/09/2009	16/06/2003	17/12/2003
03.166	06	Press Brakes, AOPD	29/09/2009	16/06/2003	17/12/2003
03.172	07	Safety valve, separated clutch and brake	28/09/2023	18/12/2023	17/10/2024

Number CNB/M/	Revision (Rev)	Key words	Approved by Vertical Group of NBs <sup>(2)</sup> on:	Approved by Horizontal Committee of NBs <sup>(2)</sup> on:	Machinery Expert
03.176	08	RESTART / RESET / AOPD used for cycle initiation	28/09/2023	29/05/2024	17/10/2024
03.180	07	Press-brakes – Ancillary devices – Powered tools clamping devices	15/04/2024	29/05/2004	17/10/2024
03.182	07	Press-brakes – ESPE using AOPD in the form of laser beams – Additional crushing hazard	15/04/2024	29/05/2024	17/10/2024
03.185	05	Movable screens	30/09/2009	09/06/2005	29/10/2005
03.186	06	Acceptability of a component, configurable or parameterizable PES	28/09/2009	26/11/2009	26/05/2010
03.187	05	Failure of auxiliary powered functions for setting	30/09/2009	09/06/2005	29/10/2005
03.188	06	Front guard switch	28/09/2009	10/08/2008	08/01/2009
03.189	05	Defeat of protective measures on presses	30/09/2009	21/11/2005	20/04/2006
03.192	04	Press brakes – secondary working devices	06/10/2008	09/12/2008	18/06/2009
03.193	06	Servo Press (Power Presses & Press Brakes), Muting, Slow Speed / Directional Monitoring	03/03/2009	10/06/2009	31/01/2018
03.194	05	Servo press (Power Presses & Press Brakes), brake	03/03/2009	10/06/2009	25/12/2009
03.196	04	Servo presses, protective measures	07/10/2008	09/12/2008	18/06/2009
03.200	05	Servo-presses (Power Presses & Press Brakes), Stopping performance monitoring	03/03/2009	10/06/2009	25/12/2009
03.201	05	Servo-presses (Power Presses & Press Brakes), STO, prevention of unintended start	04/03/2009	10/06/2009	25/12/2009
03.202	04	Press brakes – back gauge movement initiation	03/03/2009	10/06/2009	25/12/2009
03.204	03	Presses – Safety distances	28/09/2011	11/12/2012	04/06/2013
03.206	03	Presses – Two hand control device (THCD)	27/09/2012	11/12/2012	04/06/2013
03.207	03	Press-brakes – Powered work- piece supports	27/09/2012	11/12/2012	04/06/2013
03.209	03	Hydraulically actuated clamps	26/09/2013	10/12/2013	31/01/2018
03.210	04	Servo press-brake connection between motor and screw	24/09/2015	02/12/2015	23/09/2016
03.211	02	Press-brakes – Powered work- piece supports	26/09/2014	24/06/2015	23/09/2016
03.214	04	Press brake / Control panel / Wireless	12/09/2019	14/06/2022	23/03/2023
03.216	04	Presses with a servo drive system (mechanical servo presses); brakes	24/05/2022	14/06/2022	23/03/2023
03.217	02	Reset function	12/09/2019	14/06/2022	23/03/2023
Vertical G	roup 04 -	Injection or compression mould	ling machines		
04.009	12	Moulding machinery / automatic loading and unloading	03/05/2023	31/05/2023	12/04/2024
04.014	08	Machine with fence and robot; crossing the mould area into the fence area behind the machine	04/05/2023	31/05/2023	12/04/2024
04.029	08	Injection or Compression	04/05/2023	31/05/2023	12/04/2024

Number CNB/M/ (1)	Revision (Rev)	Key words	Approved by Vertical Group of NBs <sup>(2)</sup> on:	Approved by Horizontal Committee of NBs <sup>(2)</sup> on:	Endorsed by Machinery Expert Group/MWG on:
		Moulding Machine Response time			
04.040	09	Automatic sequence control, guard closing, latch retracting, mould closing	04/05/2023	31/05/2023	12/04/2024
04.053	07	24 VDC hydraulic valves, protective bonding circuit connection on the voltage supply plug of a 24 VDC solenoid valve	09/06/2021	16/12/2021	23/03/2023
04.076	06	Plastics and rubber hydraulic IMM – horizontal mould closing movement – motor control unit	09/06/2021	16/12/2021	23/03/2023
04.083	07	Injection machines with tie bar distances >1200 mm; person standing behind the mould at the rear side of the machine or entering the mould area from the operator's side	03/05/2022	14/06/2022	23/03/2023
04.085	10	Mould opening for machines with horizontal closing movement and electrical axis		29/05/2024	17/10/2024
04.086	07	Electrical axis; guards locking, detection standstill	03/05/2022	14/06/2022	23/03/2023
04.087	06	Plug and socket combinations for subunits on injection moulding machines	03/05/2022	14/06/2022	23/03/2023
Vertical Gr	oup 05 -	Machines for underground wor	k		
05.001	05	Internal combustion engine, emission of dust, gas, exhaust	03/11/2009	07/12/2000	04/01/2005
05.002	05	Internal combustion engine, emission of dust, gas, exhaust, methane in intake air	03/11/2009	07/12/2000	04/01/2005
05.007	04	Internal combustion engine, emission of dust, gas, exhaust, limits	03/11/2009	07/12/2000	04/01/2005
05.201	03	Hydraulic powered roof support	03/11/2009	13/12/1995	04/06/1996
05.202	02	Hydraulic powered roof support, components with safety function, safety components	03/11/2009	13/12/1995	04/06/1996
05.208	03	Hydraulic powered roof support, placing on the market, putting into service	03/11/2009	12/12/1995	04/06/1996
05.220	05	Hydraulic powered roof support, support unit, technical file, EC- type examination	03/11/2009	07/12/2000	04/01/2005
05.221	04	Hydraulic powered roof support, single props	03/11/2009	07/12/2000	04/01/2005
05.222	04	Hydraulic powered roof support, pressure supply, EC-type examination	03/11/2009	07/12/2000	04/01/2005
05.601	05	Locomotive, EC-type examination, running test	03/11/2009	07/12/2000	04/01/2005
05.603	05	Locomotive, EC type examination certificate, putting into operation, control	03/11/2009	07/12/2000	04/01/2005
		Locomotive, definition	03/11/2009	07/12/2000	04/01/2005

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Vertical G	roup 06 –	Refuse collection vehicles			
06.005	05	Calculations	15/04/2010	11/03/1997	08/06/1998
06.012	06	Automatic lifting device- operation mode	15/04/2010	10/06/2008	08/01/2009
		Refuse collection vehicle			
06.016	09	(RCV) - energy separation main switch	22/06/2022	18/12/2023	12/04/2024
06.023	08	Refuse Collection Vehicles (RCV) – Hose burst protection valves	15/04/2015	24/06/2015	23/09/2016
06.025	03	Electrical equipment	15/04/2010	10/06/2008	08/01/2009
06.026	07	Automatic gear box	15/04/2010	10/06/2008	08/01/2009
06.027	07	RCV – fixing points of the bodywork on the chassis	15/04/2010	15/06/2010	30/12/2010
06.034	10	Refuse collection vehicle (RCV) - rear footboard	15/04/2015	24/06/2015	23/09/2016
06.043	03	Safety distances / Shape of the guard	26/06/2019	07/02/2020	20/05/2020
06.047	02	Danger zone / Visibility / testing	02/06/2021	16/12/2021	23/03/2023
06.048	04	Foldable handgrips, footboard	17/04/2024	29/05/2024	17/10/2024
06.050	03	Rolling backward / detection / footboard not in unusable position	17/04/2024	29/05/2024	17/10/2024
Vertical G	roup 08 –	Vehicle servicing lifts			
08.001	04	Polyamide Nuts	12/04/2010	13/12/1995	04/06/1996
08.002	04	EC type test	12/04/2010	09/12/1998	03/03/2000
08.003	05	Instruction handbook, check	12/04/2010	09/12/1998	03/03/2000
08.008	03	Auxiliary lifting systems	12/04/2010	17/04/1996	08/06/1998
08.015	03	Rails foot protectors, protection against pinching points	12/04/2010	11/12/2003	01/07/2004
08.016	03	Chassis supporting vehicle lift for road vehicles, load distribution	12/04/2010	11/12/2003	01/07/2004
08.018	05	Load distribution on two post lifts with load-bearing arms	25/04/2013	26/06/2013	22/11/2013
08.023	03	Maximum inclination of pickup plates and pads	08/06/2021	16/12/2021	23/03/2023
08.024	04	Welding examination	21/12/2021	14/06/2022	23/03/2023
08.025	03	Structural Calculations	31/05/2022	14/06/2022	23/03/2023
Vertical G	roup 09 –	Lifting Persons Device (LPD) Lifting Persons Device (LPD),			
09.206	04	Suspended Access Equipment, modular construction, certification	13/04/2010	11/12/2003	14/03/2007
09.207	10	Type-examination	13/04/2010	26/11/2009	26/05/2010
09.209	04	EC type-examination, work platform, loader crane	13/04/2010	11/12/2003	01/07/2004
09.305	06	Mobile Elevated Workplatform (MWEP), levelling system	13/04/2010	11/06/1998	09/04/2001
09.306	05	Mobile Elevated Workplatform (MWEP), levelling system	13/04/2010	11/06/1998	09/04/2001
09.307	04	Lifting Persons Device, safety gear	13/04/2010	24/05/2000	09/04/2001
09.309	04	Mobile Elevated Work Platform, MEWP, access, movable guard,	13/04/2010	24/05/2000	09/04/2001

abnormal use

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09.310	05	Man rider winches, one rope suspension	13/04/2010	24/05/2000	09/04/2001
09.318	07	Crushing hazards, ram frame	12/06/2015	29/06/2016	23/03/2023
09.401	08	MEWP, control devices, emergency stop, override	13/04/2010	11/12/2003	01/07/2004
09.501	05	Radiation, EC type- examination, EMC directive	13/04/2010	24/05/2000	09/04/2001
09.502	02	Lifting platforms, lifts, gripping device/safety gear, tripping device / overspeed governor, safety device, lifting persons	01/06/2015	29/06/2016	23/03/2023
Vertical G	roup 11 -	Safety components			
11.017	05	EC type-examination, pre- standards	25/10/2010	11/06/1998	09/04/2001
11.027	08	Two-hand control devices, synchronous actuation	25/10/2010	14/12/2010	23/05/2011
11.031	09	ESPE Type 2 with PLC as means of periodic test	25/10/2010	14/12/2010	23/05/2011
11.032	05	Arrangement of visual indicators	25/10/2010	03/03/2004	24/12/2004
11.033	09		22/05/2019	16/12/2021	23/03/2023
11.035	08	Indication of a muted ESPE, colour of the mute indicator(s) of an ESPE	25/10/2010	14/12/2010	23/05/2011
11.036	07	Laser scanner, industrial truck	25/10/2010	14/12/2010	23/05/2011
11.042	04	THCD, non-mechanical actuating devices	25/10/2010	21/11/2005	20/04/2006
11.047	03	Using parts with wear-out in safety components	11/05/2010	15/06/2010	30/12/2010
11.049	03	Logic units to ensure safety functions / Environmental conditions	25/10/2010	14/12/2010	23/05/2011
11.050	05	Failure, electromechanical outputs	06/06/2013	26/06/2013	22/11/2013
11.052	02	Safety components, safety functions	18/10/2011	13/12/2011	23/04/2012
11.053	03	Manual reset function	10/05/2012	28/06/2012	17/01/2013
11.055	04	Cogeneration plants, combined heat and power plants (CHP), grid monitoring	02/06/2014	17/06/2014	08/01/2015
11.056	03	Two-hand control devices, synchronous actuation, operating conditions	07/06/2013	26/06/2013	22/11/2013
11.058	03	Safety component, warning device	07/06/2013	26/06/2013	22/11/2013
11.059	03	Diagnostic functions, EN 61508:2010	03/06/2014	17/06/2014	08/01/2015
11.060	06	External DC power supply of safety component, PELV, abnormal voltage	22/05/2019	16/12/2021	23/03/2023
11.061	06	RFID-based protective devices	02/06/2015	29/06/2016	31/01/2018
11.062	04	Pressure-sensitive protective device, sensor, control unit, OSSDs, definition	09/06/2015	02/12/2015	23/09/2016
11.063	02	EC type-examination, laboratory	02/06/2016	31/05/2023	12/04/2024
11.065	03	AOPD, type	01/06/2017	07/06/2017	31/01/2018
11.066	04	Logic units to ensure safety functions, remote controls,	02/06/2017	29/05/2024	17/10/2024

Number CNB/M/ (1)	Revision (Rev)	Key words	Approved by Vertical Group of NBs <sup>(2)</sup> on:	Approved by Horizontal Committee of NBs <sup>(2)</sup> on:	Machinery Expert
		illumination of emergency stop device			
11.067	03	Testing, witness testing, remote testing of safety components and logic unit	22/01/2021	16/12/2021	23/03/2023
11.068	02	AOPDDR, IP protection class	22/01/2021	16/12/2021	23/03/2023
11.069	02	Transformers Lack of Clarity for EMC	14/09/2021	16/12/2021	23/03/2023
11.071	02	Immunity Testing for Safety Components and integral Safety Functions	04/05/2023	31/05/2023	12/04/2024
11.072	02	Loss of detection capability	15/05/2024	29/05/2024	17/10/2024
	•	ROPS and FOPS		23/03/2021	17/10/2021
12.007	05	DLV	21/11/2013	10/12/2013	15/04/2014
12.009	05	Minor modification	21/11/2013	10/12/2013	15/04/2014
12.010	05	FOPS, Standing operator	21/11/2013	10/12/2013	15/04/2014
12.012	07	ROPS	21/11/2013	10/12/2013	15/04/2014
12.015	05	ROPS, FOPS, repair, substitution	21/11/2013	10/12/2013	31/01/2018
12.016	02	FOPS, tiltable cab	21/11/2013	10/12/2013	15/04/2014
	•	Full quality assurance		, ,	
13.000	03	Equivalence to Annex IX	21/08/2008	09/12/2008	18/06/2009
13.001	04	Final inspection, quality management, intermediate inspections	17/09/2007	10/06/2008	08/01/2009
13.002	07	quality system, compliance with standards, accreditation	26/08/2010	14/12/2010	23/05/2011
13.003	04	Application, quotation, selection of Notified Body	17/09/2007	10/06/2008	08/01/2009
13.004	04	Manufacturer, sub-contractors, conformity, supplier, subsidiaries	17/09/2007	10/06/2008	08/01/2009
13.005	04	Representative model, categories of machinery, risks	17/09/2007	10/06/2008	08/01/2009
13.006	02	EC declaration of conformity, technical file	17/09/2007	04/12/2007	04/06/2008
13.007	03	Technical file, assessment on site, quality system	17/09/2007	04/12/2007	04/06/2008
13.008	02	Complete technical file, documentation, complex machinery, audit	17/09/2007	04/12/2007	04/06/2008
13.009	04	Quality system documentation, quality management manual, certificates, audit reports, language	17/09/2007	10/06/2008	08/01/2009
13.010	04	Technical design specification, sample, manufacturing facilities, inspections, audit plan	17/09/2007	10/06/2008	08/01/2009
13.011	04	Harmonized standards, responsibility, design review	17/09/2007	10/06/2008	08/01/2009
13.012	05	Design inspection, design verification, independence, level of confidence	23/10/2012	10/06/2008	08/01/2009
13.013	03	Product complexity, validation, competence	17/09/2007	04/12/2007	04/06/2008
13.014	04	Competency qualification of personnel, product specific requirements	17/09/2007	10/06/2008	08/01/2009

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13.015	04	Machinery design, quality, compliance	17/09/2007	10/06/2008	08/01/2009
13.016	05	Existing certification, conformance, certified quality system	23/10/2012	10/06/2008	08/01/2009
13.017	02	Auditors, experts, competence	17/09/2007	04/12/2007	04/06/2008
13.018	02	EHSR, technical file, review	17/09/2007	04/12/2007	04/06/2008
13.019	04	Product changes, changes of quality system, significant changes, contract	17/09/2007	10/06/2008	08/01/2009
13.020	04	Notification, report, certificate	17/09/2007	10/06/2008	08/01/2009
13.021	04	Audit frequency and duration, surveillance audits	17/09/2007	10/06/2008	08/01/2009
13.022	02	Unannounced visits, contracts	17/09/2007	04/12/2007	04/06/2008
13.023	04	Obligation to preserve	12/05/2009	10/06/2009	25/12/2009
13.024	04	Obligation to preserve, quality assurance system documentation	17/09/2007	10/06/2008	08/01/2009
13.025	04	Last date of manufacture	17/09/2007	10/06/2008	08/01/2009
13.026	02	audit frequency and duration, assessment	17/09/2007	04/12/2007	04/06/2008
13.028	03	technical file, sample, manufacturing facilities, inspections, audit plan	17/09/2007	10/06/2008	08/01/2009
13.029	03	Subcontract	21/08/2008	09/12/2008	18/06/2009
13.030	03	Reassessment	21/08/2008	09/12/2008	18/06/2009
13.031	04	Annex X	12/05/2009	10/06/2009	25/12/2009
13.033	04	Quality system, audit plan	23/10/2012	09/12/2008	18/06/2009
13.034	04	Certificate	12/05/2009	10/06/2009	25/12/2009
13.035	04	Annex X	12/05/2009	10/06/2009	25/12/2009
13.037	03	Surveillance, quality system, technical file	12/05/2009	10/06/2009	25/12/2009
Vertical G	roup 14 –	Portable cartridge-operated fi	xing and other	impact machi	nery
14.001	03	Bolt setting devices, Cattle stunners, other hand held cartridge operated fixing and impact machinery	11/12/2013	18/06/2014	08/01/2015

(1): CNB/M/xx.xxx RERev yy = Coordination of Notified Bodies/Machinery/Numbering of the RfUs
 R: Recommendation for Use E: English version Rev: Revision yy: index of the Revision

(2): NBs = Notified Bodies

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Stern CO-ORDINATION STATE OF THE STATE OF T	Machinery Directive 2006/42	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE			
Date of first stage: 24/05/20	000	To be approved by:	Approved on:		
Origin: VG1 Woodworking machinery		<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	24/04/2009 09/12/1998		
		To be endorsed: Machinery Working Group	Endorsed on: 03/03/2000		
Question related to: Direction	ve 2006/42/EC	EN/prEN:	Other:		
Annex: I	ESR (1): 1.2.3; 1.2.4	Clause:			
		CEN TC concerned : TC 142			
Key words: tractor driven m	achine, P.T.O.				
Question: Could the start a woodworking machine?	nd stop controls for the machine actuator (e.g. t	ractor) be regarded as the start and s	top controls of the		
Solution: No. At least a stop control device shall be fitted at the operators position, unless an harmonised standard in line with article 5.2 does not require this control					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

(1) Essential safety requirement

Page 1/1 of CNB/M/01.087 Rev 09 CNB/M/01.087 **CO-ORDINATION OF NOTIFIED BODIES** Revision: 09 Machinery Directive 2006/42/EC + amendments Language: EN RECOMMENDATION FOR USE Date: 20.11.2024 Number of pages: 1 To be approved by: Approved on: ☑ Vertical Group ..... 11.04.2024 Origin: VG1 - Woodworking machinery 29.05.2024 ☑ Horizontal Committee ..... Endorsed on: To be endorsed by: Machinery Expert Group ..... 17.10.2024 Other: -Question related to: Directive 2006/42/EC Article: -EN/prEN: 11681-2 EN 62841-1, EN 62841-4-1 Annex: IV EHSR (1): Normative clause: -Other clause: -CEN TC concerned: -, CENELEC TC 116 Key words: Chain saws for tree service/top handle machine, battery-powered There is no harmonized C-type standard available for those machines. Type testing on the basis of EN 62841-1 and EN 62841-4-1 would not satisfy the safety requirements for battery-powered chain saws for tree service. EN ISO 11681-2 is restricted to gasoline engines. Question: What standard(s) can alternatively be used for type testing of battery-powered chain saws for tree service? Solution: Note: This RfU does only cover battery powered chain saws because of the (additional) hazards from power supply cables during tree service. Battery-powered chain saws for tree service with a maximum weight \*) of 4.3 kg including the battery recommended to be used with these machines can be type tested according to the relevant paragraphs of: EN 62841-1 in conjunction with EN 62841-4-1 for the electrical requirements and EN ISO 11681-2 for non-electrical requirements. \*) empty oil tank and without guide bar and saw chain as defined in EN ISO 11681-2 (1) Essential health and safety requirement

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MACHINERY NO TIFIED BO	CO-ORDINATION OF Machinery Directive 20 RECOMMENDA	06/42/EC as amended	CNB/M/01.089 Revision 03 Language : EN			
Number of pages : 1	Date : 21/05/2014	To be approved by :	Approved on :			
Origin : VG1 Woodworkir	g machinery	<ul> <li>x Vertical Group</li> <li>x Horizontal Committee</li> <li>To be endorsed by:</li> <li>x Machinery Working Group</li> </ul>	21/05/2014 18/06/2014 Endorsed on : 08/01/2015			
Question related to: 200	6/42/EC Article :		Other : -			
Annex : IV	ESR (1): 1.2.6	Normative clause : - CEN TC concerned : TC 142, CENEL	Other clause : - EC TC 116			
Key words : Electric and electronic b	orakes, run-down time, failure of power s	upply				
whatever manner of the p More and more machines without power supply. Wh time may be much higher molding machines non-br Note: <i>The same situation</i> Question: a) Is the situation as desc UPS or energy recuperati	Clause 1.2.6 of the machinery directive 2006/42/EC states: The interruption, the re-establishment after an interruption or the fluctuation in whatever manner of the power supply to the machinery must not lead to dangerous situations. More and more machines for wood working have electric or electronic brakes for the tool drive motor. Most of these brakes do not work without power supply. When there is a failure in the power supply during normal operation, the tool spindle is non-braked and the run-down time may be much higher than the acceptable run-down time outlined in the specific machine standard (mostly 10 s). E. g. on single spindle molding machines non-braked run-down times of several minutes may be possible with large and heavy tools. Note: <i>The same situation occurs, if the stop is performed in stop category 0 due to a failure in the logic of an electronic brake.</i> Question: a) Is the situation as described above acceptable or is a fall-back solution for power supply failures, e. g. mechanical brake or braking by UPS or energy recuperation necessary to achieve the required run-down time?					
<ul> <li>Solution :</li> <li>Note: No further regulation is necessary, if tool access is prevented by fixed or moveable interlocked guards with guard locking (as far as locking needs power supply to be opened). On the other hand there are many Annex IV woodworking machines having only adjustable guards in some sections of the non-cutting part and no guarding at all for the cutting part of the tool. Only for these machines with unguarded access to the tool and which usually require a braked run-down time of not more than 10 seconds, the following applies.</li> <li>The risk assessment by CEN/TC 142/WG 1 and CENELEC/TC 116 lead to the conclusions that         <ul> <li>the probability of an accident due to uncontrolled run-down of tools after a failure in the energy supply of the machine is extremely low (low probability of uncontrolled run-down and low probability of deliberate access to tools at the same time)</li> </ul> </li> </ul>						
- the resulting risk is very The situation is <u>acceptabl</u>	<ul> <li>the possible damage is high</li> <li>the resulting risk is very low and thus acceptable.</li> </ul> The situation is <u>acceptable</u> since power supply failure is a seldom and specific situation that can be managed by the operator. He/she is aware of the dangerous situation and will handle any further manipulation on the machine with care.					
In order to reduce the risk	, one or more warning labels in close proxi ower supply failure should be required.		l brake(s) may not operate			
	ke device logic is even more seldom. The s her regulation for this situation is not reaso		ory 0 (without braking) in this			
(1) Essential safety regula	tiono					

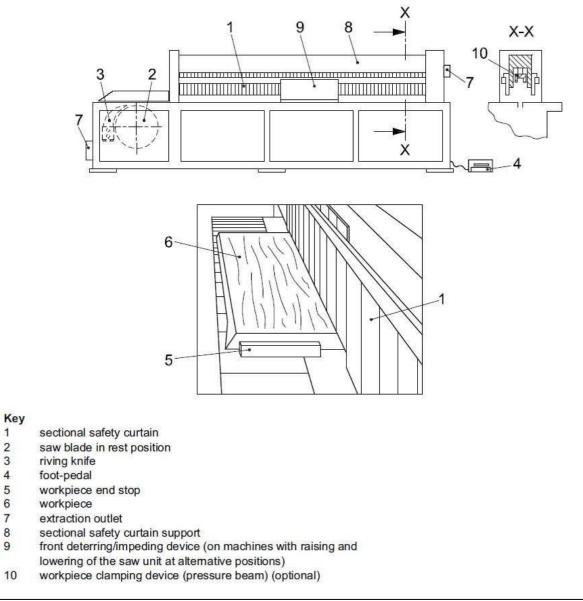
		Page	1/2 of CNB/M/01.092 Rev 02			
MACHINERY	CO-ORDINATION OF NOT Machinery Directive 2006/42/E RECOMMENDATION	EC + amendments	CNB/M/01.092 Revision 02 Language: EN			
NO TIFIED BOOT	RECOMMENDATION					
Number of pages: 2	Date: 03.07.2023	To be approved by:	Approved on:			
Origin: VG1 Woodworking	Machinery	<ul> <li>☑ Vertical Group 1</li> <li>☑ Horizontal Committee</li> </ul>	31.03.2021 16.12.2021			
		To be endorsed by: ☑ Machinery Expert Group	Endorsed on: 23.03.2023			
Question related to: Directi	ve 2006/42/EC Article: 1.3.8	EN/prEN: EN 1870-8:2012	Other: -			
Annex: IV	EHSR (1): -	Normative clause: 5.3.8	Other clauses: -			
		CEN TC concerned: CEN/TC 142	(ISO/TC 39)			
Key words: Single blade ed	Iging circular rip sawing machines with power driv	en saw unit and manual loading an	d/or unloading			
<ul> <li>b) it shall only operate whe</li> <li>c) it shall operate a maximu</li> <li>Where the machine is equi</li> </ul>	<ul> <li>a) it shall be positioned between the sectional safety curtains;</li> <li>b) it shall only operate when the sectional safety curtain is in its lowest position;</li> <li>c) it shall operate a maximum of 1 s after the sectional safety curtain has reached its lowest position.</li> <li>Where the machine is equipped with a work piece clamping device, a trip bar shall be provided on the operator's side of the pressure beam if operator access is not prevented.</li> <li>Dimensions in millimetres</li> </ul>					
Key 1 trip ber						
	2 pressure beam 3 sectional safety curtain					
	Figure 1 - Trip bar di	mension				
differences (workpieces ca	cording to EN 1870-8 are for cutting solid wood. n be concave, convex, twisted). This can cause this reason, this protective device is sometimes uns	nis trip bar to respond before the sa				
Question:						
Are there alternative ways	Are there alternative ways to safeguard the clamping devices on these machines?					

### Solution:

An alternative way of safeguarding the clamping device works as follows:

- 1. The pressure beam shall be positioned between the sectional safety curtains.
- 2. The pressure beam shall touch the workpiece or the table not less than 2 s after the safety curtain's lower edge.
- 3. The pressure beam shall reach the clamping pressure before the sawing cycle is started.
- 4. The machine movement shall be controlled by a 3-position-switch (e.g. position switch acc. IEC 60947-5-8, foot pedal / \*foot beam acc. IEC 60947-5-1) with the following characteristics:
  - Upper position: Stops the sawing cycle and releases clamping (all units return to the rest position).
  - Middle position: Starts and controls the sawing cycle.
  - Lower position: Stops the sawing cycle and releases clamping (all units return to the rest position).
  - The force to trigger a foot pedal / foot beam to the lowest position shall be between 100N and 200N.
  - The safety functions to start and stop the sawing cycle and to return the units in a save position shall achieve PLr = c.
  - The clamping pressure monitoring shall achieve PLr = b.

\*foot beams shall meet the requirements for foot pedals, they shall only differ in width.



#### (1) Essential safety requirement

OTIFIED BODIES 12/EC + amendments DN FOR USE	CNB/M/01.093 Revision: 02 Language: EN			
	Language: EN			
DN FOR USE				
To be approved by:	Approved on:			
	02.05.2023			
	31.05.2023 Endorsed on:			
-	12.04.2024			
	Other: -			
EN/prEN: -	Other			
Normative clause: -	Other clause: -			
CEN TC concerned: CLC/TC 116 (	IEC/TC116/WG10)			
	- A			
machines are deemed to be <b>portable chainsaws for woodworking</b> as per item 8 in Annex IV of EU directive 2006/42/EC. However, none of the currently available (harmonized) C-type EN standards (EN 62841-4-1:2020 or EN ISO 11681-2:2011/A1:2017 or EN ISO 11681-2:2022) cover the particular EHSR of that kind of product. The risk assessment of any given pruner saw may result in varying results with respect to the requirements applied to achieve a presumption of conformity. Question: As long as no harmonized C-type EN standard is available for this kind of machinery, how can evaluation during EC Type-examination procedure be coordinated such that a potential divergence of evaluation results between Notified Bodies can be reduced?				
ed pruner saws is provided below.				
	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Expert Group</li> <li>EN/prEN: -</li> <li>Normative clause: -</li> <li>CEN TC concerned: CLC/TC 116 (</li> </ul> ve been available in the EU market with coording to ISO 6531:2017, these is per item 8 in Annex IV of EU directive type EN standards (EN 62841-4-1:202 rticular EHSR of that kind of product. T with respect to the requirements applie of machinery, how can evaluation during the standard of the requirements of the requirements applie			

## Specification for the technical evaluation "Hand-held battery-operated pruner saws - Safety"

## Foreword:

This document has been prepared by an Ad-Hoc Working group of VG1 Notified bodies.

### Scope:

This test specification gives safety requirements and measures for their verification for the design and construction for hand-held battery-operated pruner saws with the following features:

- max. mass of 5,0 kg with the heaviest battery as described in the instruction manual installed but without a guide bar or saw chain fitted and with the lubrication tank, if any, empty;

- max. cutting length (EN 62841-4-1, 3.105): 200 mm;

- max. guide bar nose radius: 25 mm

- max. speed of the saw chain 8 m/s;

- intended to cut branches of trees or bushes by means of a saw-chain according to ISO 6531:2017, 3.3.1.;

- intended to be used with both hands on the machine and

- by persons having read and understood the safety requirements provided in the instruction handbook.

The requirements of this document specify a recognized level of risk mitigation with respect to the design of pruner saws and the instructions to be supplied.

This test specification also covers requirements for pruner saws that can be fitted with an extension pole. There is no limitation to the mass of extension poles as such.

This test specification is not applicable for electrically operated chain saws according to EN 62841-4-1 and electrically operated pole-mounted powered pruners according to EN ISO 11680-1.

Examples:



#### **Referenced standards:**

EN 62841-1:2015 + AC:2015 + A11:2022 EN 62841-4-1:2020 EN ISO 12100: 2010 ISO 17080:2005 EN ISO 11681-2:2011 + A1:2017 ISO 11680-1:2021 ISO 9518:2018 NOTE: Where these standards are referenced below, the issue date is not repeated.

Clause	Requirement + Test	Page 3/18 of CNB Result - Remark	Verdict
1	General safety requirements:		
	Pruner saws shall comply with the requirements of EN 62841-1 as far as reasonably applicable. In addition, they shall comply with the requirements of this document, which are an adaptation from EN 62841-4-1. The definitions, general test conditions and cross-references (if cited) of these standards apply.		
	The following shall be considered regarding EN 62841-1:		
	Clause 23.3: Protective devices shall be non-self- resetting.		
	In addition to the listed safety requirements of this test specification, a risk analysis according to EN ISO 12100 shall be presented. The risk assessment shall be reviewed for completeness and conclusiveness.		
	Pruner saws shall be designed according to the principles of EN ISO 12100 for relevant but not significant hazards, which are not dealt with by this document. It includes evaluation of such risks for all relevant components.		
2	Marking		_
	The designation of products according to this test specification are not allowed to be: "Mini chain saw" or equal.		
	Pruner saws shall be marked according to EN 62841-1.		
	In addition, the following shall be marked (Ref. EN 62841-4-1, 8.2:		
	<ul> <li>Always use pruner saw two-handed (text or symbol)</li> <li>specified nominal guide bar size or size range (SI-Unit)</li> </ul>		
	Pruner saws shall be marked with safety informatio the official languages of the country in which the ma with the appropriate symbol:		_
	<ul> <li>"Wear eye protection" or a relevant safety sign of ISO 7010 or the safety sign specified in Annex AA;</li> </ul>		
	<ul> <li>- "Wear ear protection", a relevant safety sign of ISO 7010 or the safety sign specified in Annex AA. This marking may be omitted if the measured sound pressure level at the operator's ear in accordance with Annex I does not exceed 85 dB(A).</li> </ul>		
	A combination of ISO safety signs, such as eye, ear, dust and head protection, is allowed. In addition, a combination of safety signs as specified in Annex AA is allowed.		
	<ul> <li>"Do not expose to rain" or the safety sign specified in Annex AA, unless the pruner saw has a degree of protection of at least IPX4.</li> </ul>		
	<ul> <li>"Beware of pruner saw kickback and avoid contact with bar tip", or A.1.3 of ISO 17080.</li> </ul>		

Clause	Requirement + Test	Result - Remark	Verdict
	– "Always use pruner saw two-handed" or A.3.1 of ISO 17080.		
	Addition:		_
	Pruner saws marked with the following:		
	- specified nominal guide bar size or size range;		
	<ul> <li>identification of the direction of rotation of the saw chain by a legible and durable mark on the body of the machine. This may be located under the drive sprocket cover.</li> </ul>		
3	Instructions		—
3.1	Safety instructions for pruner saws in addition to EN	N 62841-1 and EN 62841-4-1	—
	<ul> <li>The instruction manual and safety instructions shall cover supplementary to the clause 8.14 of EN 62841-1 the subsense of the following:</li> <li>Wear work gloves</li> <li>Wear head protection if there is a risk that falling branches could cause injuries</li> <li>Wear robust working pants</li> <li>Explanation of the correct working position of the two hands</li> <li>Explanation regarding reactive forces like pulling in, pushing back and kicking up when cutting with the guide bar tip.</li> </ul>		
	<ul> <li>Further instructions of EN 62841-4-1 and EN ISO 11681-2, if applicable or necessary.</li> <li>Type of guide bar and saw chain</li> </ul>		
3.2	Safety instructions for pruner saws of EN 62841-4-	1; 8.14.1.101, as applicable	
3.2.1	General pruner saw safety warnings:	1	
	a) Keep all parts of the body away from the saw chain when the pruner saw is operating. Before you start the pruner saw, make sure the saw chain is not contacting anything. A moment of inattention while operating pruner saws may cause entanglement of your clothing or body with the saw chain.		
	b) Always hold the pruner saw with one hand on the control handle and the other hand on the auxiliary handle		
	c) Hold the pruner saw by insulated gripping surfaces only, because the saw chain may contact hidden wiring. Saw chains contacting a "live" wire may make exposed metal parts of the pruner saw "live" and could give the operator an electric shock.		
	d) Wear eye protection. Further protective equipment for hearing, head, hands, legs and feet is recommended. Adequate protective equipment will reduce personal injury from flying debris or accidental contact with the saw chain.		
	e) Do not operate a pruner saw in a tree, on a ladder, from a rooftop, or any unstable support. Operation of a pruner saw in this manner could result in serious personal injury.		

Clause	Requirement + Test	Result - Remark	Verdict
	f) Always keep proper footing and operate the pruner saw only when standing on fixed, secure and level surface. Slippery or unstable surfaces may cause a loss of balance or control of the pruner saw.		
	g) When cutting a branch that is under tension, be alert for spring back. When the tension in the wood fibres is released, the spring loaded branch may strike the operator and/or throw the pruner saw out of control.		
	h) Use extreme caution when cutting brush and saplings. The slender material may catch the saw chain and be whipped toward you or pull you off balance.		
	i) Carry the pruner saw with the pruner saw switched off and away from your body. When transporting or storing the pruner saw, always fit the guide bar cover. Proper handling of the pruner saw will reduce the likelihood of accidental contact with the moving saw chain.		
	<ul> <li>j) Follow instructions for lubricating, chain tensioning and changing the bar and chain.</li> <li>Improperly tensioned or lubricated chain may either break or increase the chance for kickback.</li> </ul>		
	<ul> <li>k) Cut wood only. Do not use pruner saw for purposes not intended. For example: do not use pruner saw for cutting metal, plastic, masonry or non-wood building materials. Use of the pruner saw for operations different than intended could result in a hazardous situation.</li> </ul>		
	I) This pruner saw is not intended for tree felling. Use of the pruner saw for operations different than intended could result in serious injury to the operator or bystanders.		
	<ul> <li>m) Follow all instructions when clearing jammed material, storing or servicing the pruner saw. Make sure the switch is off and the battery pack is removed.</li> <li>NOTE 1 The above warning is used for machines with separable batteries or detachable batteries.</li> </ul>		
	<ul> <li>n) Follow all instructions when clearing jammed material, storing or servicing the pruner saw. Make sure the switch is off and the lock-off is in the locked position.</li> <li>NOTE 2 The above warning is used for machines with integral batteries.</li> </ul>		
3.2.2	Causes and operator prevention of kickback:		
	Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut.		
	Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar up and back towards the operator.		
	Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator.		

Clause	Requirement + Test	Result - Remark	Verdict
	Either of these reactions may cause you to lose control of the saw which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a pruner saw user, you should take several steps to keep your cutting jobs free from accident or injury.		
	Kickback is the result of pruner saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:		
	a) Maintain a firm grip, with thumbs and fingers encircling the pruner saw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the pruner saw.		
	b1) Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the pruner saw in unexpected situations.		
	The above warning shall be omitted for pruner saws designed for the attachment of an extension pole.		
	b2) Do not overreach and do not cut above shoulder height unless the extension pole is mounted. This helps prevent unintended tip contact and enables better control of the pruner saw in unexpected situations.		
	The above warning shall be omitted for pruner saws not designed for the attachment of an extension pole.		
	c) Only use replacement guide bars and saw chains specified by the manufacturer. Incorrect replacement guide bars and saw chains may cause chain breakage and/or kickback.		
	d) Follow the manufacturer's sharpening and maintenance instructions for the saw chain. Decreasing the depth gauge height can lead to increased kickback.		
3.3	Further instructions for pruner saws in addition to 8.	.14.2 of EN 62841-1	—
3.3.1	Instructions for putting into use in addition to 8.14.2	a) of EN 62841-1:	
	101) Explanation of pruner saw safety devices;		
	102) Instructions for properly installing and adjusting the guide bar and saw chain;		
	103) Instruction for selection and use of protective equipment for eyes, ears, head, hands, legs and feet, as applicable.		
	Addition of 8.14.2 b) of EN 62841-1:		
	105) Instructions to explain the proper techniques for basic working with the pruner saw		
	106) If applicable, instruction on the use of a manual lubrication control;		

Clause	Requirement + Test	Result - Remark	CNB/M/01.093 Re Verdict
	107) If applicable, instruction not to operate the pruner saw without lubrication and to replenish it in due time before the container is empty;		
	108) Instruction to use only recommended lubricants;		
	109) Information on the maximum speed of the saw chain.		
3.3.2	Operating instructions in addition to K.8.14.2 b) of EN 62841-1:		
	Instructions for the use and adjustment of any means of support for separable battery packs and instructions for release or removal.		
	Items 101) and 102) of K.8.14.2 b) in EN 62841- 4-1 are not applicable.		
3.3.3	Maintenance and servicing instructions in addition	to 8.14.2 c) of EN 62841-1:	_
	Information on recommended guide bar and saw chain combination(s) that can be used and that maintains compliance with this standard;		
	Instructions on sharpening and maintenance of the saw chain and/or a recommendation to have sharpening and maintenance of the saw chain performed by authorised service centres.		
3.3.4	Modification of K.8.14.3 of EN 62841-1 (adapted fro	om EN 62841-4-1)::	_
	If information about the mass or weight of the pruner saw is provided, it shall be the mass of the machine without the saw chain, guide bar, guide bar cover, oil, battery and optional accessories. If information about the mass or weight of the battery(ies) is provided, it shall cover the range of specified batteries.		
4	Run-down time	ł	_
	(Adapted from EN 62841-4-1, 19.112):		
	The following requirements for run-down time shall be fulfilled. Note: A manual chain brake is not required.		
	The run-down time of the saw chain shall not exceed 2 s for the first 6 cycles of operation and shall not exceed 3 s for the final 6 cycles of the test sequence.		
	For the measurement, the saw chain tension shall be adjusted as for normal use. The machine shall be run in before starting the test by performing 10 "on"/"off" cycles with the power switch. One cycle consists of 30 s running and 30 s rest. After the run-in, the saw chain tension shall be adjusted according to the manufacturer's recommendations. If no recommendations are provided, the saw chain tension shall generally be adjusted so that, when a 1 kg mass is hanging from the centre of the cutting length along the lower portion of the chain, the gap between the saw chain side link and the guide bar is a maximum of 0,017 mm per millimetre of guide bar length.		

			Page 8/18 of CNI	3/M/01.093 Rev
Clause	Requirement + Test		Result - Remark	Verdict
	The test is made under no-load. The test sequence shall consist of a total of 2 500 for machines that rely on the operation of braking mechanism in order to comply w requirement.	0 cycles of a		
	For machines that do not rely on the operative a braking mechanism in order to comply requirement, but comply with the require to friction of the saw chain alone or whice active electronic braking where no wear mechanical components is to be expected cycle number is reduced to 100.	with the ment due h have of		
	The stop time is measured from the mor release of the power switch actuator unt chain is stopped.			
5	Protection against access to the saw	chain		_
	It shall not be possible to reach the saw with fingers projecting from a handle, wh holding the machine as instructed. If the between a handle and the saw chain is I 120 mm a barrier is required to prevent s line access to the saw chain.	nen distance ess than		
	Such barriers may be fixed or movable.			
	Dependent on the design, they shall con the requirements in 5.1 to 5.3 below.	nply with		
5.1	A moveable barrier, if any, shall have adequate mechanical strength in three directions according to ISO 7915, Fig. 1) and shall not break during the test.		$Z_2$ $Z_1$ $Z_1$ $Z_1$	
	Movable barriers are tested in the rest position. Compliance is checked by the following	Y <sub>1</sub>		
	tests with the guide bar removed.	Z <sub>2</sub> X <sub>2</sub> Figure 1 – Direct	X <sub>p</sub> X <sub>p</sub> Z <sub>1</sub> Y <sub>p</sub> V <sub>p</sub>	
	The tool is rigidly supported and a 50 N force (X) is applied at the front end of the for 30 s pulling and 30 s pushing.			
	The tool is rigidly supported and a 50 N downward force (Y) is applied to the bar middle of the cutting length.	rier in the		
	Note: Cutting length according to EN 628 Figure 102.	841-4-1,		
	The tool is rigidly supported and a 20 N force (Z) is applied at the barrier in the n the cutting length for 30 s.			
	Note: Cutting length according to EN 628 Figure 102.	841-4-1,		

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Clause	Requirement + Test	Result - Remark	Verdict
5.2	Movable barriers shall be cycled 50.000 times over their maximum range of movement. Afterwards their function shall not be impaired and they still shall travel to their intended rest position without manual intervention.	ADI3SO02.2 STIFLE STIFLE	
5.3	Fixed barriers (e.g. in analogy to front hand guards for hedge trimmer (EN 62841-4-2) shall withstand the mechanical strength requirements according to EN 62841-1, clause 20.		
6	Guide bar cover		
	(Adapted from EN 62841-4-1, 19.108)		
	A protective cover shall be provided with the machine to cover the guide bar in order to prevent injuries during transportation and storage.		
	The guide bar cover shall not be displaced by more than 50 mm when the guide bar is in a vertical downward position.		
	When the guide bar is adjusted to its maximum length and the guide bar cover is fully engaged on the guide bar, no more than 50 mm of the saw chain on the top or bottom of the guide bar shall remain exposed.		
7	Drive sprocket cover		
7.1	(Adapted from EN 62841-4-1, 19.9)		
	If, in accordance with the instruction manual, the user is instructed to remove a drive sprocket cover, such as for maintenance, to change the saw chain or guide bar, then the fastenings shall remain attached to the drive sprocket cover or to the machinery, unless the drive sprocket cover fastenings are the only means for retaining the guide bar. If a fastening is not removed for removing the drive sprocket cover, it is considered as still attached.		

Clause	Requirement + Test	Page 10/18 of CNE Result - Remark	Verdict
7.2	(Adapted from EN 62841-4-1, 19.104)		
	The drive sprocket and saw chain shall be covered within the area of the body of the pruner saw. This cover shall not be removable without the aid of a tool unless the drive sprocket cover fastenings are the only means for retaining the guide bar.		
	There may be openings at the front, the front upper section and the bottom section to allow the ejection of wood chips and to allow passage of the guide bar and saw chain.		
	Compliance is checked by inspection and by the following test:		
	With the drive sprocket cover, guide bar and saw chain fitted, it shall not be possible to touch the drive sprocket and saw chain with the straight test probe (test probe of Figure 105 of EN 62841-4-1) introduced with a force in axial direction not exceeding 5 N from the top, the rear and the sides of the drive sprocket cover within the area of the body of the pruner saw.		
	The sprocket cover shall not be removable without the aid of a tool, unless the drive sprocket cover fastenings are the only means for retaining the guide bar.		_
8	Handles		_
8.1	<b>Pruner saws</b> shall be fitted with at least two handles to provide safe control.		
	• The control handle, which accommodates the power switch; and		
	• an auxiliary handle to get the other hand in a safe position and to support precise guidance of the machine when cutting.		
	No other parts of the machinery except the handles shall be designed / shaped in such a way to considered as gripping areas.		
	The min. length of the control handle shall be 100mm		
	The control handle of pruner saws shall be of durable construction and capable of withstanding stress sustained under normal working conditions.		
	Compliance is checked by the handle strength test of ISO 7915, the test forces for chain saws for tree service shall apply, corrected by factor F.		
	F = actual cutting length in mm / 300 mm.		
8.2	(Adapted from EN 62841-4-1, 19.101, 102, 103) The handle surfaces are designed and shaped that firm grip may be applied.		
	Perimeter of the cross-section of the control handle - minimum 65 mm (ISO 7914, dimension H);		
	- maximum 170 mm.		

Clause	Requirement + Test	Result - Remark	Verdict
	Finger clearance at the released power switch (ISO 7914, dimension E) - minimum 30 mm		
	Clearance below the released power switch (ISO 7914, dimension $F_2$ ):		
	- minimum 25 mm		
	Finger clearance in the grip area (ISO 7914, dimension A): - minimum 35 mm		
	Behind the released power switch, there shall be a minimum of $3 \times 25$ mm gripping area (ISO 7914:2012, dimension G <sub>2</sub> )		
9	Hand protection		
	The hand at the control handle shall be protected from injury, in case the chain derails.		
	Protection may be achieved in the following ways:		
	<ul> <li>The derailed chain is not long enough to reach any finger at the control handle; or</li> </ul>		
	• guarding is provided as a shield to protect the fingers from injury. Such guarding shall project at least 30 mm over the gripping surface on the guide bar side of the control handle and be sufficiently long according to the reach of the derailed chain; or		
	<ul> <li>any other construction prevents the operator's hand from contacting the saw chain.</li> </ul>		
10	KICKBACK:		

Clause	Requirement + Test	Result - Remark	Verdict
	Pruner saws shall not present a risk of injury due to kickback, when cutting wood with the tip of the guide bar. Compliance can be achieved by either fulfilling option1) or 2) below:		
	<ol> <li>A bar tip guard shall protect the periphery of the saw chain at the tip of the guide bar. The bar tip guard shall be         <ul> <li>a) part of the machine, not removable during user maintenance, and designed to prevent contact of any part of the saw chain; or</li> <li>b) part of a special chain bar which is not interchangeable with standard chain bar constructions.</li> <li>Tip guards mounted on the guide bar are not accepted for this purpose, considering the foreseeable replacement by another guide bar without a tip guard. Such tip guard would need to be removed prior to the kickback test.</li> </ul> </li> <li>Unless contact with the upper quadrant of the guide bar tip is prevented by constructive protective measures, the applied risk reduction measures shall be verified by the following test(s):</li> </ol>		
	Three experienced pruner saw experts (e.g., who completed vocational training) shall test the pruner saw with test specimens according to ISO 9518 clause 4.3.6, cutting with the bar tip perpendicular to the grain.		
	They shall agree on whether the risk of injury can be considered as sufficiently minimized or not. When assessing a pruner saw, there will always be a reactive force upwards when cutting with the tip. However, the crucial considerations are as to		
	<ul> <li>whether the force is of a magnitude that it cannot easily be controlled; and</li> </ul>		
	- whether it could occur suddenly, such that the user is likely to be caught off guard and lose control of the machine.		
	Note: At this point, no established method is available to quantify kickback for pruner saws. As soon as such a method has been identified, this requirement will be updated.		_
11	Saw chain tension		
	(Adapted from EN 62841-4-1, 19.109) Pruner saws with a nominal cutting length of 150 mm and above shall be provided with means of tensioning the saw chain.		
12	Saw chain lubrication		
	Pruner saws shall be provided with a means for lubricating the saw chain. It is not required that a lubricant reservoir is an integral part of the machine.		
13	Requirements for the power switch		

Clause	Requirement + Test	Result - Remark	Verdict
13.1	(Adapted from EN 62841-4-1, 21.18.101) The power switch shall be a momentary power switch without a lock-on device, which can be switched on and off by the user without the need to release any of the handle(s) or grasping surface(s).		
	When the lock-off function is in the unlocked state, the pruner saw shall operate within 1 s after actuation of the power switch.		
13.2	(Adapted from EN 62841-4-1, 21.18.102) The machine shall be provided with a power switch having a lock-off device such that at least two separate and dissimilar actions are required before drive to the saw chain is possible. It shall not be possible to achieve these actions with a single grasping motion or a straight-line motion within any grasping surface.		
	The lock-off device shall be actuated before the power switch can enable drive to the saw chain.		
	It shall not be necessary to sustain the actuation of the lock-off device until the power switch is activated, provided:		_
	<ul> <li>the power switch or an operator presence sensor (if any) is activated within 5 s of the release of the lock-off device; and</li> </ul>		
	<ul> <li>there is a visual or audible indication as soon as the lock-off actuator is released and continues at least until the power switch is activated; or</li> </ul>		
	<ul> <li>– an operator presence sensor (if any) is activated prior to the release of the actuator of the lock-off device.</li> </ul>		
	The machine shall return to the original locked state within 1 s when the power switch is released (i.e. at least two separate and dissimilar actions are required before drive to the saw chain is possible), unless:		_
	<ul> <li>– an operator presence sensor is provided; and</li> </ul>		
	<ul> <li>the hand is not released from the operator presence sensor.</li> </ul>		
	Additionally, for a lock-off device located within any grasping surface identified in accordance with the instructions, in order to determine if it is possible to actuate the power switch and the lock- off device with a single grasping motion or a straight-line motion, compliance is checked by the following test:		
	The lock-off device, if located within any grasping surface, shall not be actuated by a 25 mm diameter x 75 mm long rod with a force not exceeding 20 N on the lock-off device in any direction.		
	The rod shall be applied such that its cylindrical surface bridges the surface of the lock-off device and any surface adjacent to the lock-off device.		

Clause	Requirement + Test	Page 14/18 of CNE Result - Remark	Verdict
	It shall not be possible to operate the power switch under these conditions.		
13.3	Pruner saws shall be designed to allow operation of the power switch either by the right or the left hand		
13.4	(Adapted from EN 62841-4-1, 21.102) The operator presence sensor, if any, shall be incorporated in the control handle.		
	It is not required that the operator presence sensor is capable of distinguishing between an operator's hand and other objects.		
	The function of the operator presence sensor may be achieved by any combination of		
	mechanical, electrical or electronic means.		
14	Mechanical strength		
14.1	(Adapted from EN 62841-1, K.20.1) Following the test, the pruner saw and battery pack shall not catch fire or explode and shall comply with the requirements for mechanical safety and electrical safety.		
	The open circuit voltage of the battery shall not be less than 90 % of the voltage measured prior to the test.		
	The battery shall demonstrate normal discharging and recharging after the test.		
	The cell vent shall not be impaired in a way that the cell protection is in jeopardy.		
	(Adapted from EN 62841-4-1, 20.1) Damage to the guide bar and saw chain is ignored.		
	A tank cap, if any, that comes off as a result of the test, but can be put back in place and did not get damaged is not considered a failure.		
	For integral lubrication systems, there shall be no leakage of lubrication through cracks in lubrication tanks and tank caps while the pruner saw is being held in each of the six orthogonal directions for 30 s. Seepage through ventilation systems is not considered a failure.		
14.2	(Adapted from EN 62841-4-1, K.20.3.1) The pruner saw, fully assembled in accordance with the instruction manual and with the lubrication tank empty, if any, with any detachable battery pack attached is dropped three times in total on a concrete surface from a height of 1 m.		
	For these three drops, the sample is tested in the three most unfavourable positions the lowest point of the tool being 1 m above the concrete surface. Secondary impacts shall be avoided.		

Clause	Poquiroment L Test	Page 15/18 of CN	
Clause	Requirement + Test	Result - Remark	Verdict
	If attachments, other than alternative guide bars and saw chains, are provided as specified and mounted in accordance with the instruction manual, the test is repeated with each attachment or combination of attachments mounted to a separate machine sample.		
	For battery machines with detachable battery packs, the test is repeated three more times without the battery pack attached to the machine. New samples may be used for each series of three drops.		
	In addition for detachable battery packs or separable battery packs, the test is repeated three more times on the battery packs separately.		
	If attachments, other than alternative guide bars and saw chains, are provided as specified and mounted in accordance with the instruction manual, the test is repeated with each attachment or combination of attachments mounted to a separate machine sample with a detachable battery pack or separable battery pack installed.		
	After the test, the lubrication tank, if any, is filled to the maximum level in accordance with the instruction manual.		
15	Electronic circuits providing safety critical functions (SCF) (Adapted from EN 62841-4-1, 18.8)		-
	Electronic circuits providing SCF shall be reliable and not susceptible to loss of the SCF due to electromagnetic environmental stresses.		
	The requirements of EN 62841-1 clause 18.8 apply together with the Performance Levels (PL) as specified at the end of this document.		
16	Additional requirements for tools with extension	n pole	_
16.1	Pruner saws, intended to be supported via an extension pole and thus being convertible into a pole-mounted powered pruner, shall comply with the following requirements as adapted from EN ISO 11680-1.		
16.2	Handles		_
	The machine shall have a handle for each hand. The shape and surface of the handle shall be designed such as to provide the necessary sureness of grip with and without gloves.		
	The gripping length shall be at least 100 mm.		
	The gripping length of a bail or closed handle shall comprise any length that is straight or curved at a radius greater than 100 mm together with any blend radius, but not more than 10 mm, at one or both ends of the gripping surface.		
	The design and dimensions shall be verified by in spection and measurement.		
16.3	Distance to cutting attachment		

01-		Page 16/18 of CNE	
Clause	Requirement + Test	Result - Remark	Verdict
	The distance, L, from the rear of the power switch to the nearest unguarded point of the cutting attachment shall be at least 1 250 mm, if applicable measured as a chain measurement (L1 + L2), with the cutting attachment adjusted to its position nearest to the operator (see Figure 4).		
	If the location of the power switch throttle trigger is adjustable, any adjustment below the distance of 1 250 mm shall be prevented by design.		
	This minimum distance from the rear of the power switch throttle trigger to the nearest unguarded point of the cutting attachment shall apply to all cutting attachments recommended by the manufacturer.		
	A fixed obstacle (e.g. the gear case or a collar on the shaft tube) shall be provided close to the cutting attachment to indicate to the operator that his hand is getting close to the cutting attachment. The distance from the rear of the fixed obstacle to the nearest unguarded point of the cutting attachment (L3) shall be at least 120 mm, measured as a chain measurement.		
16.4	Mechanical strength		
16.4.1	The mechanical connection between the pruner saw and the extension pole shall be reliable to withstand loads as experienced in normal use.		
	The pruner saw is suspended at the guide bar in such a way that the pole hangs down vertically. A mass of 20 kg is attached to the rear handle of the pole without jerks for 1 minute.		
	The pruner saw shall not separate from the extension pole; there shall be no damage to the saw or the pole impairing further use.		
16.4.2	The means for connecting the pruner saw to the extension pole shall be such that incorrect fitting and securing is obviated by design as far as reasonably possible. Correct securement shall be clearly recognizable.		
16.4.3	The clamping of the pruner saw to the extension pole shall be protected against inadvertent release.		
	The clamping release shall not project over the contour of the surrounding surface to prevent inadvertent release of the clamping means. One way of checking whether the release projects is the use of a straight edge across the release mechanism.		
	Clamping achieved by means of a hand-operated screw is acceptable at least five revolutions are needed to release the clamping.		
16.4.4	The controls at the extension pole shall comply with the requirements in section 13 above.		
	-		

01-		Page 17/18 of CNB	
Clause	Requirement + Test	Result - Remark	Verdict
	(Adapted from EN 62841-4-5:2021 + A11:2021, clause 21.101):		
	A removable extension shaft, if any, shall be provided with a power switch that overrides or duplicates the function of a power switch which may be located on the machine without an extension shaft.		
16.4.5	The pruner saw in conjunction with the extension pole shall be sufficiently robust to withstand rough handling as in normal use.		
	A single sample, fully assembled, is subjected to one impact in an orientation where it might be weak. The extension pole shall be fully extended, the tank empty and the heaviest battery attached, as applicable.		
	For the impact, the machine shall be suspended from a position $(150 \pm 2)$ mm in front of the middle of the rear handle and at a height of $(775 \pm 2)$ mm above a concrete surface. It shall point upwards at an angle of $(45 \pm 2)^{\circ}$ and be able to swing freely around the point of suspension.		
	After the impact, the lubrication tank, if any, is filled to the maximum level in accordance with the instruction manual. There shall be no leakage of lubrication through cracks in lubrication tanks and tank caps while the pruner saw is being held in each of the six orthogonal directions for 30 s. Seepage through the ventilation systems is not considered a failure.		
	The pruner saw and battery pack shall not catch fire or explode and shall comply with the requirements for mechanical safety and electrical safety. The machine and the extension pole shall not separate.		
	The open circuit voltage of the battery shall not be less than 90 % of the voltage measured prior to the test.		
	The battery shall demonstrate normal discharging and recharging after the test.		
	The cell vent shall not be impaired in a way that the cell protection is in jeopardy.		
	Damage to the guide bar and the saw chain is ignored.		
17	Noise & Vibration		
	Noise according to EN 62841-4-1, clause I.2 (Test & Measuring at max. no-load speed only)		
	Vibration acc to EN 62841-4-1, clause I.3		
18	Moisture resistance		
	Pruner saws with an IP moisture protection marking higher than IPX0 shall be tested according to the requirements for chain saws as specified in EN 62841-4-1:2020, clause K.14.		

TABLE: Performance levels of Safety Critical Functions						
Type and purpose of SCF	Min. PL determined based on: <sup>1,2</sup>	Min. PL	Actual PL			
Power switch – prevent unwanted switch-on	EN 62841-4-1	Shall be evaluated using the fault conditions of 18.6.1 in EN 62841-1 without the loss of this SCF				
Power switch – provide desired switch-off	EN 62841-4-1	Shall be evaluated using the fault conditions of 18.6.1_ in EN 62841-1 without the loss of this SCF				
Provide desired direction of rotation	EN 62841-4-1	а				
Overspeed prevention for pruner saws if such overspeed would cause a chain speed greater than 8 m/s	EN 62841-4-1	a				
Prevent exceeding the maximum run-down time	EN 62841-4-1	а				
Operator presence sensor as in 13.2	EN 62841-4-1	а				
Lock-off function as required by 13.2	EN 62841-4-1	b				
Prevent self-resetting as required in 23.3 of EN 62841-4-1	EN 62841-4-1	а				

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	CNB/M/02.001 Revision 02 Language: E				
Date of first stage: 17/11/20	11	To be approved by:	Approved on:			
Origin: VG2 Meatworking m	achinery	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	17/11/2011 13/12/2011			
		To be endorsed by: Machinery Working Group	Endorsed on: 23/04/2012			
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN: EN 12268:2003+A1:2010	Other:			
Annex: I	ESR (1): 1.4.1, 1.4.2.3 Clause					
		CEN TC concerned: TC 152				
Key words: adjustable guard	ds					
A last slice device of a height	wice, § 5.2.4 of EN 12268 states the following: ht ≥ 150 mm shall be provided. The last slice dev	vice may be provided with spices or	the side facing to the saw			
blade. The last slice device	for satisfactory construction built of a safety last	slice device?				
Solution: No, there is not enough info	rmation.					
<ul> <li>A last slice device</li> <li>The last slice dev</li> <li>The last slice dev</li> <li>The last slice dev</li> </ul>	<ul> <li>The following interpretation is acceptable:</li> <li>A last slice device shall be delivered with the machine.</li> <li>The last slice device shall have a height ≥ 150 mm and a length of ≥ 200 mm.</li> <li>The last slice device may be tiltable and removable.</li> <li>The last slice device may have spices on the side facing to the saw blade. Contact with the saw blade shall be prevented.</li> </ul>					
	n how to handle meat or bones, longer or higher ctions for use (complement of § 7.2. c of EN 122		g the last slice device,			

(1) Essential safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY	CO-ORDINATION OF Machinery Directive 200 RECOMMENDA	CNB/M/03.002 Revision: 15 Language: E				
Date of first stage: 24/09/19 Origin: VG3 Presses for col Question related to: Dir. 200 Annex: IV-9 Key words: Presses - Metal Question: Which categories	d working metals 06/42/EC Article: EHSR (1):	To be approved by:         Image: Vertical Group         Image: Horizontal Committee         To be endorsed by:         Image: Machinery Working Group.         EN/prEN:         Normative clause:         CEN TC concerned:         V A, point 9, of the "machines"?	Approved on: 30/09/2009 12/12/1995 Endorsed on: 04/06/1996 Other: Other clause:			
Recommended Solution:       4) exclusion from annex IV A for the machines who's p         1) By cold working it is understood that there is a possibility of the operator placing (loading) and/or removing (unloading) workpieces between the tools with his hands.       4) exclusion from annex IV A for the machines who's p         2) By metal, it is understood to be a material, either in sheet, rolled conditions, or forged form. Powders, not necessarily metallic, irons, and concrete meshes are excluded from this definition.       - attaching a fastener, e. g. riveting, stapling or stitching etc. (erection, dismantling machines), esaembling to get assembling presses, leading or folding (bending machines, bending process either by folding, stamping, or cutting, etc.         Only presses who's movable working parts are driven by an alternative movement having the two following constructional characteristics are referred to:       - a travel of greater than 6 mm,         - a closing speed superior to 30 mm/sec. (see CNB/M/3/042)       - atravel of greater than 6 mm,       - a closing speed superior to 30 mm/sec. (see CNB/M/3/042)         Regarding mechanical presses, the instantaneous speed reached by the movable working parts at the mid-point of their travel during (bow forging presses), - isostatic forming (isostatic presse						
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC						

(1) Essential health and safety requirement

MACHINERY OF NOTIFIED 800	CO-ORDINATION OF NO Machinery Directive 2006/42 RECOMMENDATION	CNB/M/03.004 Revision: 06 Language: E			
Date of first stage: 13/12/19	95	To be approved by:	Approved on:		
Origin: VG3 Presses for colo	d working metals	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by :</li> </ul>	30/09/2009 12/12/1995 Endorsed on :		
		Machinery Working Group	04/06/1996		
Question related to: Dir. 200	6/42/EC Article:	EN/prEN:	Other:		
Annex: VI point 2	EHSR (1):	Normative clause:	Other clause:		
		CEN TC concerned:			
Key words: Technical file					
Question: What shall be the contents of	of a press technical file?				
Solution:					
The content of the technical	file is defined by annex VI point 2 of the directive	e. It may particularly understand :			
1 <sup>st</sup> dash (related to the anne	ex VI point 2 about the technical file)				
- Location diagram of the ele	e related to the protective means (general drawi ectrical components on the press (in the cabinet draulic and pneumatic components	•	ne dangerous parts),		
2 <sup>nd</sup> dash					
<ul> <li>Functional schemes of the control circuits (hydraulic, electric, pneumatic, mechanic),</li> <li>Description of the time sequences, e.g. functional characteristics of the valves</li> <li>Diagrams for cams, selector switches,</li> <li>A components list with data sheets and instructions for use of certified safety components.</li> <li>Drawings of the guards (dimensions, material, cams, attachments),</li> <li>Drawings of the power flow related to the safety (flywheel, slide, piston, ejectors, handling devices),</li> <li>Positioning of the controls (selector switches, emergency stops, pedal),</li> <li>Positioning of the guards and the protective devices to check the possibilities of accesses,</li> <li>Calculations or references about experiences with well tried components, (see separate technical sheet n° )</li> <li>Declaration of conformity for safety components.</li> <li>Notes, results, tests (for example stopping time)</li> <li>Declaration of conformity with the EMC directive from the 1<sup>st</sup>/01/96 (see CNB/M/006/R and CNB/M/3/021/R)</li> <li>Declaration of conformity with the low voltage directive from the 1<sup>st</sup>/01/97 (see CNB/M/3/067/R)</li> <li>Declaration of conformity with others related directives concerning hazardous aspects</li> </ul>					

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

#### 3<sup>rd</sup> dash

As parts of the risk assessment, the designer shall verify whether the list of hazards in table 1 of Pr EN692, 693, ... is exhaustive and applicable to the press under consideration.

If additional hazard is identified the risk assessment has to be carried out and the measures taken to eliminate or reduce this risk shall to be described

<u>4<sup>st</sup> dash</u>

Recommendation for the handbook:

- Where the protective means are described, the associated safety instructions shall be also given and highlighted.

It shall be, at least, one clause containing safety instructions, with reference to the description of the protective devices. - The instruction handbook may give additional information.

<u>5<sup>st</sup> dash</u>

See technical sheet CNB/M/00.240/R/E (03.003).

# Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC

Page 1/1 of CNB/M/03.005/R/E Rev 03

Date of first stage: 10/06/199		CNB/M/03.005 Revision 03 Language: E Approved on: 30/09/2009 17/04/1996			
Question related to: Dir. 200	6/42/EC Article:	To be endorsed by : Machinery Working Group. EN/prEN:	Endorsed on : 08/06/1998 Other:		
Annex:	EHSR (1): 1.6.2	Normative clause: CEN TC concerned:	Other clause:		
Do those requirements force in maintenance operations? In which conditions this E.S.	ufacturer of a press, to provide means of acc the manufacturer to provide every type of p R. may be considered non applicable?		,		
Solution: Adjustments, inspections, lui repair, no platform is require	brication on raised workstation (top of the pr d.	ress) shall require a platform and a pe	rmanent access. For only		
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

(1) Essential health and safety requirement

Page	1/1	of C	NR/N	1/03	013	R/F	Rev	08
ugo	1/1	010		11/00	.010		1.0.1	00

MACHINERY NOTIFIED 80	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/03.013 Revision 08 Language: E				
Date of first stage: 13/10/19	97	To be approved by:	Approved on:			
Origin: VG3 Presses for col	d working metals	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	13/10/2010 14/12/2010			
		To be endorsed by: Machinery Working Group	Endorsed on: 23/05/2011			
Question related to: Directiv	ve 2006/42/EC Article: 5	EN/prEN:	Other:			
Annex: IX	ESR (1):	Clause:	Other clause:			
		CEN TC concerned:				
Key words: Acceptability of	components of type examined presses					
If a: - two hand control device - active opto-electronic protective device - cyclic moving interlocking guard - rotary cam gear - control system - overrun detection - etc is examined within a EC Type-Examination of a press, should the results be respected and accepted by other notified bodies testing other presses (also of other press manufacturers) in relation to the above mentioned components ?						
Solution: Normally not.	ate certificates for single components, the followi	ng shall he taken in consideration :				
1 - Certificates of notified bo	odies for safety components, established in Anne d Test and Certification bodies for (safety) compo	x IV, shall be accepted by notified b				
<ul> <li>Notes :</li> <li>The notified body examining a press should have all the necessary technical data for installation and operation of the component.</li> <li>This RfU is valid only for the safety components assessed under machinery Directive.</li> </ul>						

(1) Essential safety requirement

Page 1/1 of CNB/M/03.022/R/E/Rev 0				
MACHINERY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendment		CNB/M/03.022 Revision 06 Language: E	
NOTIFIED BOOK		RECOMMENDATION	I FOR USE	
Date of first stage: 13/10/	1997		To be approved by:	Approved on:
Origin: VG3 Presses for c	old working met	als	☑ Vertical Group	30/09/2009
			Horizontal Committee	18/09/1997
			To be endorsed by :	Endorsed on :
	000/40/50	A. (*. ).	Machinery Working Group	08/06/1998
Question related to: Dir. 2	006/42/EC	Article:	EN/prEN: 692:2005+A1:2009	Other:
Annex:		EHSR (1): 1.2.7., 1.2.1.	Normative clause: 5.4.2.3	Other clause:
			CEN TC concerned: TC 143	
Key words: Intrinsic safe	oneumatic valve			
If an intrinsic safe pneum disconnecting the energy	Question: If an intrinsic safe pneumatic valve fails, the press cannot be started or it stops immediately and no further start is possible. After disconnecting the energy supply or if there is air leakage in the valve, the valve may restore themselves and further cycle initiation can be possible after reconnection of the supply. Is that acceptable?			
Solution:				
Yes, because no hazard i	s arriving and th	e fault becomes obvious (self rev	realing) during the next failing of the v	alve.
Adaptation p DIRECTIVE 200	rocedure: )6/42/EC	FORMAL ADA	PTATION IN CONF	ORMITY WITH
(1) Essential health and s	afety requirement	nt		' 

Page 1/1 of CNB/M/03.027 Rev 09

MACO-OROMAN MACHINERY OS NOTTFIED NON	Machinery Directive 2006/42/EC + amendments		CNB/M/03.027 Revision: 09 Language: EN	
Number of pages: 1 Origin: VG3 Presses for co	Date: 03.07.2023 Id working metals	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:         ☑       Machinery Expert Group	Approved on: 19.09.2019 14.06.2022 Endorsed on: 23.03.2023	
Question related to: Directi Annex: I	ve 2006/42/EC Article: - EHSR (1): 1.2.2	EN/prEN: EN ISO 16092-1:2018 Normative clause: 5.3.2.14 CEN TC concerned: CEN/TC143 +	Other: - Other clause: - ISO/TC39 SC10	
Key words: Secondary prot	tection / Two Hands Control Device / Active Op			
Question: If a large press is safeguarded by light curtains and the tools area has to be entered by operators, which can be a sufficient protection? Normally, the table height is less than 750 mm, sometimes zero. Considering the recommended solution, may a single push button with reset function be an acceptable level of protection?				
Solution:         Yes, if there is a good visibility of the dangerous area form the resetting point.         Otherwise the following measures have to be adopted:         1. The light curtain can act here only as a secondary protection measure to protect third persons.         2. Each operator has to use a two hand control device (THCD) type IIIC to initiate the stroke.         3. Each two hand control device requires a synchronous operation, the THCD's one with another require only simultaneous operation.         After an interruption of the light curtain, during the dangerous movement, the reset function has to be actuated before further movement can be initiated as described above.				

MACHINERY <sup>O</sup> <sup>R</sup> <sup>N</sup> <sup>CO-ORO</sup> <sup>IN</sup> <sup>R</sup> <sup>III</sup> <sup>O</sup> <sup>R</sup> <sup>N</sup> <sup>O</sup> <sub>TIFIED</sub> <sup>B</sup> <sup>O</sup> <sup>S<sup>2</sup></sup>	CO-ORDINATION OF NOTIFIED BODIES MACHINERY DIRECTIVE 2006/42/EC + amendment RECOMMENDATION FOR USE			CNB/M/03.028 Revision 06 Language : E	
Date of first stage: 31/10/	1997		To be approved by:	Approved on:	
Origin: VG3 Presses for c	old working me	tals	☑ Vertical Group	30/09/2009	
			☑ Horizontal Committee	18/09/1997	
			To be endorsed by : ☑ Machinery Working Group.	Endorsed on : 08/06/1998	
Question related to: Dir. 2	006/42/EC	Article:	EN/prEN: EN 692:2005+A1:2009	Other:	
Annex: I		EHSR (1) : 1.3.7	Normative clause: 5.2.1.2.f)	Other clause:	
			CEN TC concerned: TC 143 WG1		
Key words: Failing of spri	ngs in the brak	9			
Question:					
Solution:		only 50% of the springs operating b			
of the brake. If this or a similar case oc initiation of a further strok The test shall be conducted	If there is a spring assembly in a circular formation, 50% of only one side (180° of the core diameter) shall guarantee correct engagement of the brake. If this or a similar case occurs on a press, there will be an overrun of the crankshaft and the overrun detection device shall inhibit the initiation of a further stroke. The test shall be conducted in a way compatible for other spring arrangements. References: see CNB/M/03.073				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

<sup>(1)</sup> Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

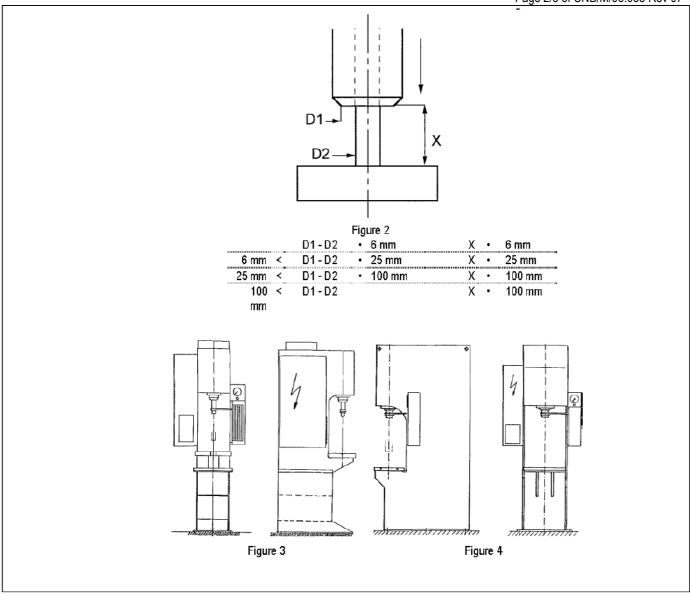
		Page 1/	1 of CNB/M/03.029/R/E/Rev 04
MACHINERY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendment		CNB/M/03.029 Revision 04 Language: E
NOTIFIED BODY	RECOMMENDATION	FOR USE	
Date of first stage: 13/10/	1997	To be approved by:	Approved on:
Origin: VG3 Presses for c	old working metals	☑ Vertical Group	30/09/2009
		Horizontal Committee	12/12/1995
		To be endorsed by : ☑ Machinery Working Group.	Endorsed on : 04/06/1996
Question related to: Dir. 2	006/42/EC Article:	EN/prEN: 692:2005+A1:2009, 693:2001+A1:2009	Other:
Annex: I	EHSR (1): 1.3.8	Normative clause: 5.3.13 (692 Annex C)	Other clause:
		CEN TC concerned: TC 143	
Key words: Reaching ove	r, under and around the detection zone	I	
Which tables of EN 138 Curtain?	57 can be used to examine safety distances for re	eaching over, under and around the	detection zone of a light
Solution:			
Reaching under and arou	nd the light curtain, tables 3, 4 and 6 shall be follc	wed.	
Reaching over, table 1 may be used because there is no support for the arms by a physical guard; the light curtain will be interrupted using these correlating values.			
Adaptation p DIRECTIVE 200		PTATION IN CON	Formity with

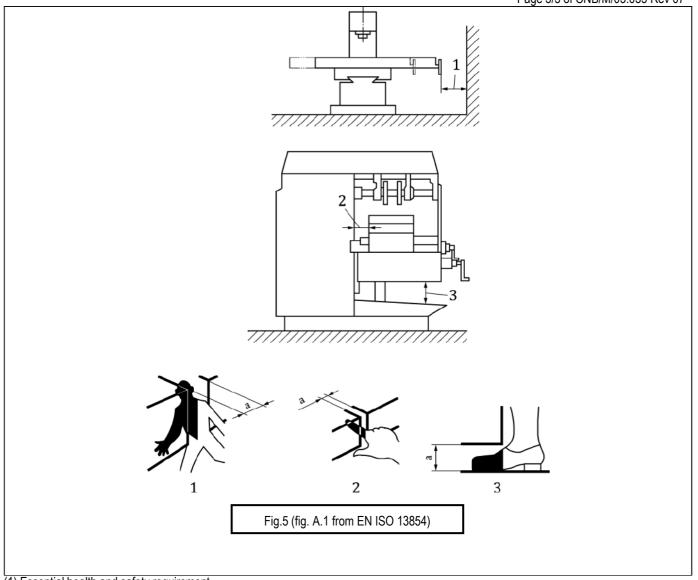
Page 1/1 of CNB/M/03.032 Rev 07

CNB/M/03.032 Revision: 07 Language: EN				
Language: EN				
Approved on:				
24.05.2022				
14.06.2022 Endorsed on:				
23.03.2023				
Other: -				
Other clause: -				
D TC 39/SC 10				
Sometimes, single components are used to fix the tool (rod, latch, screw). Which requirements a single component has to fulfil? (see illustration)				
Solution: One screw with a nut for blocking up will be sufficient if well-tried principles according to EN ISO 13849-2:2012 are considered (over- dimension, etc).				

Page 1/3 of CNB/M/03.035 Rev 07

Number of pages: 3 Origin: VG3 Presses for o	CO-ORDINATION OF N Machinery Directive 2006/42 RECOMMENDATIC Date: 03.07.2023 cold working metals	2/EC + amendments	CNB/M/03.035 Revision: 07 Language: EN Approved on: 24.05.2022 14.06.2022		
		To be endorsed by: ☑ Machinery Expert Group	Endorsed on: 23.03.2023		
Question related to: Direct	ctive 2006/42/EC Article: -	EN/prEN: EN ISO 16092-3:2018	Other: -		
Annex: I	EHSR (1): 1.3.8	Normative clause: 5.6 CEN TC concerned: TC 143 and IS	Other clause: - SO TC 39/SC 10		
Key words: crushing haz	ards, ram frame.				
Which method is approp	Small hydraulic presses often create a crushing hazard between the frame (bottom of the cylinder) and the ram. Which method is appropriate to avoid the hazard?				
Solution: See attached figures 1 to 5 and table 1 of standard EN ISO 13854:2020. If the head can be inserted, the distance shall be equal or more than 300 mm.					





(1) Essential health and safety requirement

CNB/M/03.102

Revision 06

Language: E

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CO-ORDINATION OF NOTIFIED BODIES MACHINERY DIRECTIVE 2006/42/EC + Amendment

# **RECOMMENDATION FOR USE**

Date of first stage: 14/04/1997			To be approved by:	Approved on:	
Origin: VG3 Presses for cold	l working met	tals	☑	Vertical Group	30/09/2009
			Ø	Horizontal Committee	09/06/2005
				To be endorsed by:	Endorsed on:
			Ø	Machinery Working Group.	29/10/2005
Question related to: Dir. 2006	6/42/EC	Article:	EN/	prEN: EN 692:2005+A1:2009	Other:
Annex: I		EHSR (1): 1.3.8.2, 1.4.1, 1.4.3	Nor	mative clause: 5.4.2	Other clause:
		1.4.5	CEI	N TC concerned: TC 143	
Key words: Overrun detection	on / Screw pre	esses			

Question:

Clause 5.4.2 requires for all mechanical presses with safeguarding methods listed up in 5.4.1.3 of EN 692 a overrun detection; the description is mainly for excentric presses.

How can this requirement be achieved dealing with screw presses?

Solution:

It is impossible to fulfill those principal requirements for overrun monitoring - as written in 5.4.2 of EN 692:1996 - on screw presses. Intervals for periodic inspections of the overrun behavior shall be described in the manual.

Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC

(1) Essential health and safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/03.111 Rev 10

MACHINERY 9 <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments RECOMMENDATION FOR USE		CNB/M/03.111 Revision: 10 Language: EN	
Number of pages: 1 Origin: VG3 Presses for co	Date: 20.11.2024 cold working metals	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       To be endorsed by:         ☑       Machinery Expert Group	Approved on: 29.09.2009 18.12.2023 Endorsed on: 17.10.2024	
Question related to: Direct		EN/prEN: EN 692:2005+A1:2009 EN 693:2001+A1:2009	Other: -	
Annex: I	EHSR (1): 1.3.8.2, 1.4.1, 1.4.3	Normative clause: - CEN TC concerned: TC143	Other clause: -	
Key words: Stopping time	e measurement / die cushion / ejector			
Question: Will a stopping time measurement be required for die cushions or ejectors?				
Solution: No, not in general, but the risk assessment shall take into consideration if the measurement is needed or not. At the present time, the current standards do not require stopping time measurements for die cushions or ejectors.				

(1) Essential health and safety requirement

Page 1/1 of CNB/M/03.124 Rev 10

MACTEINER Y 9. HOTIFIED NOON	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments RECOMMENDATION FOR USE		CNB/M/03.124 Revision: 10 Language: EN
Number of pages: 1 Origin: VG3 Presses for cold w	Date: 20.11.2024 orking metals	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee Committe	Approved on: 15.05.2023 18.12.2023 Endorsed on: 17.10.2024
Question related to: Directive 2 Annex: I	006/42/EC Article: - EHSR (1): 1.4.1	EN/prEN: EN 12622:2009+A1:2013 Normative clause: 5.1.2.2 CEN TC concerned: TC 143	Other: - Other clause: -
Key words: press-brakes / tand Question: Which requirements have to be	lem assembly e achieved in the design if a tandem assen	nbly of press brakes is used singly?	
<ul> <li>which apply to single machines</li> <li>a) The two machine control sys</li> <li>b) Between both press brakes,</li> <li>c) The extension of the guard to requirement for single press bracks</li> <li>d) This operational mode has to a state of the state of the</li></ul>	vo press brakes is used singly, the singly u according to EN 12622, especially: tems have to function separately. a guard and its position have to be activat owards the operator measured from the be akes as illustrated in the harmonized stand to be selected e.g. by a separated selector be selected e.g. by a separated selector	ed (interlocking guard). ending line shall be at least 230 mm i lard EN 12622, Annex E. switch or by separated positions of th	n accordance to the ne existing mod e selector.

Page 1/1 of CNB/M/03.128 Rev 11

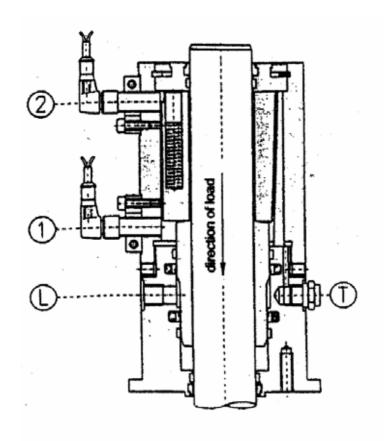
		T dge	1/10/CIND/10/03.120 Rev 11	
OPEAN CO-OROINE	CO-ORDINATION OF NO	TIFIED BODIES	CNB/M/03.128	
	Machinery Directive 2006/42/EC + amendments		Revision: 11	
			Language: EN	
"OTIFIED "	RECOMMENDATIO	N FOR USE		
Number of pages: 1 Origin: VG3 Presses for co	Date: 20.11.2024 old working metals	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee Committe	Approved on: 15.05.2023 31.05.2023 Endorsed on: 17.10.2024	
Question related to: Direct	ive 2006/42/EC Article: -	EN/prEN: EN ISO 16092-3:2018	Other: EN 12622:2009+A1:2013	
Annex: I	EHSR (1): 1.2.1	Normative clause: -	Other clause: -	
		CEN TC concerned: TC 143		
Key words: Overlapping, M	Ionitoring Valves			
Question:				
	oing of a (safety related) directional valve can b	e considered as proper?		
Solution:				
1.) The positive overlapping of a directional valve (e.g. restraint valve) shall ensure that the closing speed cannot exceed 1 mm/s as long as the directional valve is in resting position. The positive overlapping of a proportional valve should be bigger or equal than 0,35 mm. The positive overlapping of other directional valves should be equal or bigger than 0,5 mm. Manufacturing tolerances of the parts of the directional valve have to be taken into account.				
Note: Good experience ha valve equal or more than 0	ive been made with a positive overlapping of a 0,5 mm	proportional valve equal or more than	n 0,35 mm and of a directional	
(1) Essential health and saf	etv requirement			

Page 1/1 of CNB/M/03.141 Rev 07

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CO-ORDINATION OF N	CO-ORDINATION OF NOTIFIED BODIES			
Machinery Directive 2006/42/EC + amendments		Revision: 07		
9 4 K	RECOMMENDATION FOR USE			
AOTIFIED SO RECOMMENDATIO				
Number of pages: 1 Date: 20.11.2024	To be approved by:	Approved on:		
Origin: VG3 Presses for cold working metals	☑ Vertical Group	28.09.2023 18.12.2023		
	☑ Horizontal Committee To be endorsed by:	Endorsed on:		
	✓ Machinery Expert Group	17.10.2024		
Question related to: Directive 2006/42/EC Article: -	EN/prEN: EN ISO 16092-3: 2018 (1) EN 12622:2009+A1:2013 (2)	Other: -		
Annex: I EHSR (1): 1.2.1	Normative clause: 5.4 (1), 5.2 (2)	Other clause: -		
	CEN TC concerned: TC 143			
Key words: Bypassing monitored restraint valves				
Question:				
Under which conditions automatic bypassing a restraint valve is allowed	0			
	1			
Solution:				
<ol> <li>The volume flow in the bypass shall be restricted to the value of 5 mr</li> <li>The check valve in the bypass can fail without any detection (see figure)</li> </ol>		g. by a bleed (orifice plate)		
3) If the second restraint valve fails also, the speed (leakage speed) of	-	nore than 5 m m/s (check		
valve failed already without detection)				
Note 1: The max. weight of slide/ram/beam with tools has to be taken in				
Note 2: bypassing (connecting another component in parallel) shall not	be considered as override (forcing the	device)		
(1) Essential health and safety requirement				

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.154 Revision 07 Language: E		
Date of first stage: 25/03/20	02		To be approved by:	Approved on:	
Origin: VG3 Presses for col	d working metals	S	Vertical Group	30/09/2009	
			Horizontal Committee	24/10/2002	
			To be endorsed by: ☑ Machinery Working Group.	Endorsed on: 02/03/2004	
Question related to: Dir. 200	06/42/EC A	rticle:	EN/prEN: EN 693:2001+A1:2009	Other:	
Annex: I		HSR (1): 1.2.1, 1.6.1, .6.4	Normative clause: 5.2.1, 5.2.2	Other clause:	
			CEN TC concerned: TC 143		
Key words: Hydraulic press	es, Mechanical r	restraint device, Production and	Maintenance		
Question: Under which conditions is it	possible to use	the device shown on page 2 as	a mechanical restraint device?		
Solution: The restraint device shown on page 2 cannot be used as mechanical restraint devices in the sense of 5.2.1.1, 1 <sub>st</sub> indent, because they act by friction alone. It can be used in combination with a hydraulic restraint device in the sense of clause 5.2.1.1, 3 <sub>st</sub> indent, if the function of both restraint devices are monitored (see 5.2.1.4) in such a way that if the hydraulic restraint device fails the possibility to introduce pressure in the upper part is always avoided. The restraint device shown on page 2 can be used alone also as a restraint device in the sense of cl. 5.2.2 of EN 693.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

(1) Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use



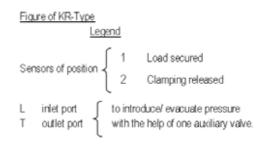


Figure 2

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.164 Revision 06 Language: E		
Date of first stage: 23/09/2	2002	To be approved by:	Approved on:		
Origin: VG3 Presses for c	old working metals	☑ Vertical Group	29/09/2009		
		Horizontal Committee	16/06/2003		
		To be endorsed by: ☑ Machinery Working Group.	Endorsed on: 17/12/2003		
Question related to: Dir. 2	006/42/EC Article:	EN/prEN: EN 12622:2001	Other: prEN 12622:2009		
Annex: I	EHSR (1): 1.2.5	Normative clause: 5.4.3	Other clause: 5.2.5.11		
		CEN TC concerned: TC 143			
Key words: Press Brakes	- Mode selection				
In some cases, press brakes are arranged and programmed to carry out in one cycle successively several operations on the same product. In such cases, the machine can for example have two control stations, that are activated by the program at the right moment and used by the same operator. Under which conditions can we accept such kind of "mode selection" carried out solely by the (normal) programmable control? A variant of the described situation is e.g. the case where at certain moments a single operator is working with the machine, while at other moments there are two operators. Here also there are technical solutions defining through software the active station(s). Solution: A normal programmable system by itself is not able to do the selection of the number of operators. The selection of the numbers of operators shall be necessarily hardwired or monitored by a safety PLC. Two cases could be considered:					
Yes, when an AOPD (in the press brake shall work with The activation of a work shall by pressing a push buttor	<ul> <li>A) In case of one operator using different work stations:</li> <li>Yes, when an AOPD (in the form of light curtain or multi-beam laser system) is active only during the approach; when it is muted, the press brake shall work with hold-to-run control in conjunction with slow speed.</li> <li>The activation of a work station shall be indicated by visual means (e.g. lamp). This visual signal shall be periodically monitored (e.g. by pressing a push button).</li> <li>In the case of a fault in the control system, it shall not be possible to have several work stations active simultaneously.</li> </ul>				
B) In case of several operators using each a different working station: No, in general it is not permitted to work in this way (see clauses. 5.3.19 and 5.4.3.3 of EN 12622:2001); however, when an AOPD (in the form of light curtain) is active during the whole stroke and without interruption of the detection field, it is permissible to work with only one starting device.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

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MACHINERY <sup>0</sup> , <sup>1</sup> O <sub>7/FIED</sub> <sup>6</sup> O <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.166 Revision 06 Language: E		
Date of first stage: 25/03/20	03		To be approved by:	Approved on:	
Origin: VG3 Presses for col	d working metals		<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	29/09/2009 16/06/2003	
			To be endorsed by: ☑ Machinery Working Group.	Endorsed on: 17/12/2003	
Question related to: Dir. 200	06/42/EC Artic	cle:	EN/prEN: prEN 12622:2009	Other:	
Annex: I	EHS	SR (1): 1.3.7, 1.4.1, 1.4.3	Normative clause: 5.1.1.5	Other clause:	
			CEN TC concerned: TC 143		
Key words: Press Brakes, A	NOPD				
Key words: Press Brakes, AOPD         Question:         Can an ESPE using AOPD in the form of a mono-beam or multi-beam laser for which the protection zone is close to the die, fixed to the table of a downstroking press brake, be used as an alternative to the safeguarding measures described in 5.3.2 of EN 12622:2001?         Solution:         No, the laser devices (mono-beam or multi-beam) fixed to prisms in a horizontal position and with a protected zone limited to some millimeters adjacent to the bending plane are considered no longer state of the art as it is difficult to fulfill the essential requirements of the Machinery Directive.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

<sup>(1)</sup> Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

		Pag	e 1/1 of CNB/M/03.172 Rev 07		
MACHINER Y	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments		CNB/M/03.172 Revision: 07		
A NOTIFIED TOST	RECOMMENDATI	ON FOR USE	Language: EN		
Number of pages: 1 Origin: VG3 Presses for cold	Date: 20.11.2024 I working metals	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee Committe	Approved on: 28.09.2023 18.12.2023 Endorsed on: 20.11.2024		
Question related to: Directive	e 2006/42/EC Article: -	EN/prEN: EN ISO 16092-2 :2020	Other: -		
Annex: I	EHSR (1): 1.2.1	Normative clause: 5.2.9 CEN TC concerned: TC 143	Other clause: 5.2.8.3		
Key words: Safety valve, sep	parated clutch and brake				
Question: In a mechanical press with pneumatic/hydraulic clutch and brake separated, is it necessary to use two separate safety valves, one for the control of the clutch and another for the control of the brake or is it possible to use only one safety valve for the control of both?					
2. To stop a movement, it is short time is required for syn This can be achieved either The manufacturer of the pres		o engage the brake. In order to prevent ere two valves are used.			
The manufacturer of the press shall provide means (e.g. bleeds) to avoid overlapping between clutch and brake and, relating to residual pressure, shall take care of the positioning of the valves. This must be achieved according to the technical documentation of the clutch, the brake and the valves. The technical file must contain a clear description of that means, if necessary, with a calculation.					

Page 1/1 of CNB/M/03.176 Rev 08

Number of pages: 1 Origin: VG3 – Presses for co	CO-ORDINATION OF NO Machinery Directive 2006/42/I RECOMMENDATION Date: 20.11.2024 Id working metals	TIFIED BODIES EC + amendments	CNB/M/03.176 Revision: 08 Language: EN Approved on: 28.09.2023 29.05.2024	
Question related to: Directive	2006/42/EC Article:	To be endorsed by: Machinery Expert Group EN/prEN: EN ISO 16092-1: 2018	Endorsed on: 17.10.2024 Other: -	
Annex: I	EHSR (1): 1.2.3	Normative clause: 5.32.11.f - (4), (5)	Other clause: -	
•	ET / AOPD used for cycle initiation	CEN TC concerned: TC 143, ISO T	C 39	
Question: If a press is safeguarded by light curtain used for cycle initiation and the pre-set time has passed, may the reset and restart of the press be initiated via a standard PLC?				
first stroke after the reset ope	ssed, the reset of the press can be initiated t eration can be restarted by a single or double lated in position giving a good view of the ha	break (interruption) in the detection		

Page 1/1 of CNB/M/03.180 Rev 07 CNB/M/03.180 **CO-ORDINATION OF NOTIFIED BODIES** Revision: 07 Machinery Directive 2006/42/EC + amendments Language: EN RECOMMENDATION FOR USE Date: 20.11.2024 Number of pages: 1 To be approved by: Approved on: ☑ Vertical Group ..... 15.04.2024 Origin: VG3 - Presses for cold working metals 29.05.2024 ☑ Horizontal Committee ..... Endorsed on: To be endorsed by: Machinery Expert Group ..... 17.10.2024 Other: Question related to: Directive 2006/42/EC Article: EN/prEN: EN 12622+A1:2013 Normative clause: 5.4.3 Annex: I EHSR (1): Other clause: CEN TC concerned: TC 143 Key words: Press-brakes - Ancillary devices - Powered tools clamping devices Question: 1. In some cases press brakes are fitted with pneumatic or hydraulic tools clamping devices. Which requirements shall be adopted to prevent fingers being trapped during the locking movement? Solution: If there is a risk of being trapped during locking (stroke >4mm), all these requirements shall be followed The locking command shall be given from a position with a clear view of the tools area 1. 2. Locking speed 10mm/s The locking command control system shall be hold-to-run device PL(c) [EN ISO 13849-1] or higher 3. 4. To prevent the fingers being trapped during tool setting the manufacturer of the press-brakes shall give clear instructions in the machines manual about the residual risk concerning clamping devices. (1) Essential health and safety requirement

		Page	e 1/1 of CNB/M/03.182 Rev 07		
MACHINER Y	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments		CNB/M/03.182 Revision: 07 Language: EN		
- UPIED +	RECOMMENDATIO				
Number of pages: 1 Origin: VG3 – Presses for	Date: 20.11.2024	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee	Approved on: 15.04.2024 29.05.2024 Endorsed on: 17.10.2024		
Question related to: Direc	tive 2006/42/EC Article:	EN/prEN: EN 12622+A1:2013	Other:		
Annex: I	EHSR (1): 1.3.7, 1.3.8	Normative clause: 5.1.1.5. m) - n) CEN TC concerned: TC 143	Other clause:		
Key words: Press-brakes	- ESPE using AOPD in the form of laser beams	- Additional crushing hazard			
Question:					
How is it possible to avoid	crushing between the safety device moving wit	h the beam and any other part of the	press-brakes?		
<ul> <li>Solution:</li> <li>Doing the risk assessment about additional crushing hazards generated with these devices the normal consideration is to trap the hand. The following solutions solely or in combination may be helpful to ensure a sufficient level of safety.</li> <li>1. The AOPD moving with the beam has to be mounted in such a way, that it can be easily deflected by any part of the human body introduced beneath the moving part of the AOPD.</li> <li>2. The distance between the edge of the safety device and the closest fixed parts of the press shall not be less than 100 mm (hands Safety EN ISO 13854).</li> <li>3. The use of sensitive edges</li> </ul>					
2. The distance between the edge of the safety device and the closest fixed parts of the press shall not be less than 100 mm (hands Safety EN ISO 13854).					

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.185 Revision 05 Language: E		
Date of first stage: 09/06/20	04		To be approved by:	Approved on:	
Origin: VG3 Presses for col	d working me	tals	☑ Vertical Group	30/09/2009	
			☑ Horizontal Committee	09/06/2005	
			To be endorsed by: ☑ Machinery Working Group.	Endorsed on: 29/10/2005	
Question related to: Dir. 200	06/42/EC	Article:	EN/prEN: EN 693:2001, EN 692:2005+A1:2009	Other:	
Annex: I		EHSR (1): 1.4.2; 1.4.2.2	Normative clause: 5.3	Other clause:	
			CEN TC concerned: TC 143/WG1		
Key words: Movable screen	IS				
<ul> <li>Rey words: Movable screens</li> <li>Question:</li> <li>Q: 1. Which safeguarding is necessary for pneumatically or electrically vertically driven guards on a press when the guard is manoeuvred with ordinary two hand control or when a single hold-to-run pushbutton is used?</li> <li>Q: 2. When is it acceptable to use an impulse button as the control device for movable guard?</li> <li>Q: 3. When must fall arresters (anti-drop safeguards) as described in EN 12604 be used?</li> <li>Solution:</li> <li>The manufacturer has to do a risk assessment according to EN 954-1:1996 to define the preferable category for the control system of the movement of the door. During this assessment the manufacturer will have to judge if the kinetic energy of the movement of the guard is big enough to cause serious injury.</li> <li>A:1. When a two hand control or a hold to run pushbutton is used for the guard and the operator has a good view of the area around the door and of the tool area no other safety measures have to be taken. The force (pressure) must be lower than 150 N (50 N/cm2) or additional safeguarding measures have to be implemented in the trapping zone generated by the guards.</li> <li>A: Always if the operator has a good view of the area around the door and of the tool area and it is not possible to enter the danger zone during the closing movement of the guard and if one of the following conditions is fulfilled:         <ul> <li>the requirements of 5.2.5.2 of EN 953:2009 are fulfilled (e.g. a sensitive edge that reverses the door in case of obstruction is installed)</li> <li>or</li> <li>there is no danger presented by the guard.</li> </ul> </li> <li>A: 3. If one single mechanical fault leads to an unintended gravity fall causing a force exceeding 150 N additional safe guarding measures shall be taken into consideration (e.g. fall arresters, double independent drive systems, over dimensioning of critical parts or other solutions as described in EN 12604).</li> </ul>					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

NOTIFIED BODY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		Language: E	
Date of first stage: 09/06/2004	4	To be approved by:	Approved on:	
Origin: VG3 Presses for cold	working metals	☑ Vertical Group	28/09/2009	
		Horizontal Committee	26/11/2009	
		To be endorsed by: ☑ Machinery Working Group.	Endorsed on: 26/05/2010	
Question related to: Dir. 2006	S/42/EC Article:	EN/prEN: EN692:2005+A1:2009(1), EN 693:2001+A1:2009(2), EN 12622:2001(3),	Other:	
Annex: IV-9	EHSR (1):	Normative clause: 5.4.4 (1), 5.4.3 (2), 5.4.2 (3),	Other clause:	
		CEN TC concerned: TC 143		
Key words: Acceptability of a	component, configurable or parameterizable F	PES		
Question: Should a manufacturer of a press, that relies on the below described PES to manage the safety control functions of the machine have carried out an EC type examination or produce the machine using a full quality assurance system approved by a notified body according to annex X of the Machinery Directive 2006/42/EC or not ? Description: According to above mentioned clauses the safety related functions of presses shall not rely solely on a PES. Recently several safety programmable electronic systems (SPES) have appeared on the market referred as configurable safety relay, or parameterizable safety unit, etc. These systems differ from the freely-programmable safety control systems in the following features: The function blocks are already programmed and certified. Programming an application consist of doing the following steps, in a graphical user-interface: a) Choosing the input functions (icon boxes), unfolding input function windows for setting their specific parameters and assigning connection terminals to the input functions b) Doing the same for the output functions c) Calling the linking functions (AND, OR, etc.) and d) Wiring all blocks; The user does not need to develop a complex programme properly, but these systems are also considered to be PES. Some systems are dedicated to an application and the main part of the logic is already programmed, so the manufacturers of the machines only have to properly parameterize (tailor) the system to its own application.				
Solution: Yes, Manufacturers of annex IV machinery are obligated to follow EC type examination procedure or manufacture using a full quality assurance system as described above as long as these types of safety systems are excluded from above mentioned harmonised standards.				

MACHINERY O, NOTIFIED BOIL	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.187 Revision 05 Language: E		
Date of first stage: 09/06/2004 To be approved by:			Approved on:		
Origin: VG3 Presses for col	d working metals	☑ Vertical Group	30/09/2009		
		Horizontal Committee	09/06/2005		
		To be endorsed by: ☑ Machinery Working Group.	Endorsed on: 29/10/2005		
Question related to: Dir. 20	06/42/EC Article:	EN/prEN: EN 692:2005+A1:2009	Other:		
Annex: I	EHSR (1): 1.2; 1.3.2	Normative clauses: 5.2.6, 5.2.6.4	Other clause:		
		CEN TC concerned: TC 143			
Key words: failure of auxilia	ry powered functions for setting	I			
Automatic systems to facilitate the tool setting of presses, such as powered drives for slide and stroke adjustment and for their locking (e.g. clamping devices of the eccentric and the screw) are available on the market. It is intended that they are manually initiated via a deliberate/intended action. EN 692 clause 5.2.6 specifies requirements for interlocks between control circuits of drives and clutches and also to ensure the locking of adjustments during production (5.2.6.4). Therefore: a) Which categories shall control circuits for powered slide adjustment (e.g. control of position of the eccentric and other associated bars) conform to in the case of manual loaded and/or unloaded mechanical presses? b) Which categories shall control circuits for the stroke adjustment (e.g. control of the correct clamping of the screw) conform to • in the case of manual loaded and/or unloaded mechanical presses? Answer: Firstly, these functions shall only be available in setting mode: a) The control circuits for locking powered slide adjustment in the correct position for production mode shall at least conform to Category 1. Additionally the position of the clamping devices shall be monitored. This function must be automatically tested at least at each of tool setting. b) The control circuits for locking the powered stroke adjustment in the correct position for production mode shall at least conform to Category 1.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>N</sup> OTIFIED 800	CO-ORDINATION OF NOT Machinery Directive 2006/42 RECOMMENDATION	CNB/M/03.188 Revision 06 Language: E			
Date of first stage: 07/06/20	04	To be approved by:	Approved on:		
Origin: VG3 Presses for col	d working metals	☑ Vertical Group	28/09/2009		
		Horizontal Committee	10/08/2008		
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 08/01/2009		
Question related to: Dir. 200	06/42/EC Article:	EN/prEN: EN 692: 2005,	Other: EN 13736:2003		
Annex: I	EHSR (1): 1.4.2.2	EN 693 :2001 Normative clause:	Other clause:		
		CEN TC concerned: TC 143			
Key words: Front guard swi	tch				
Is only one non mechanical actuated switching unit consisting of one active and one inactive part (e.g. a magnetic switch) acceptable for interlocking a cyclic front guard of a press?  Solution : Yes, if: The switching unit and the safety logic fulfil category 4 of EN 954-1 (redundant and monitored) and A cyclic test (at least once per stroke) is done in any operational mode to verify that the moving part of the switching unit is not attached					
to the other part permanently. A negative test result shall lead to a prevention of further stroke initiation. The cyclic test can be done e.g. by a standard PLC. If a cyclic test can not be done (e.g. when the press can be operated also in automatic mode) the switching unit shall be mounted so that the actuating part of the unit can not be removed for the purpose of disabling the safety system (see EN 1088:1995/prA1:2005). The parts of the switching unit must then be a "unique" pair. "Unique" means that it is unlikely to find another matching part that can be used to defeat the protective system.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

(1) Essential health and safety requirement

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OFEAN CO-ORDINATI	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment		CNB/M/03.189 Revision 05	
MACHINERY			Language: E	
9x				
NOTIFIED BOY	RECOMMEN	DATION FOR USE		
Date of first stage: 31/08/20	05	To be approved by:	Approved on:	
Origin: VG3 Presses for col	d working metals	☑ Vertical Group	30/09/2009	
		Horizontal Committee	21/11/2005	
		To be endorsed by:	Endorsed on:	
		Machinery Working Group.	20/04/2006	
Question related to: Dir. 200	06/42/EC Article:	EN/prEN: EN 1088:1995 +A2:2008	Other:	
Annex: I	EHSR (1): 1.4.1	Normative clause:	Other clause:	
		CEN TC concerned:		
Key words: Defeat of protec	tive measures on presses			
Question:         Which methods may be used to prevent unauthorized loosening or tampering of screws/settings when the risk of manipulation is high and the manipulation will not be detected by the control system for:         • Interlock switches and their keys         • Non-mechanical interlock switches (e.g. magnetic, proximity switches)         • Press table extensions used to prevent standing behind the light curtain considering that these extensions sometimes are damaged and therefore it must be possible to change/repair them         Adjustable hydraulic valves/safety valves         Solution:         Answer :         Possible methods are those ones where the destruction of the fastener is necessary for disassembling, e.g.:         • One way screws         • Screws with destroyed head e.g. drilled out or epoxy filled allen/torx/Phillips/pozidrive screw         • Spot welded screws         • Spot welding on the part itself         • Riveting				
Sealing with lead or sir	nilar methods is only acceptable to preve	ent from unauthorized manipulation of valves		
The use of "safety screws" which can be loosened with a special tool without destroying them is not considered to be sufficient for fixing a single interlocking switch.				
See EN 1088:1995/prA1:2004 (ISO/TC 199 WG 7 N0006)				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

(1) Essential Health and Safety Requirement

MACHINERY o, NOTIFIED BOILS	CO-ORDINATION OF Machinery Directive 200 RECOMMENDA	CNB/M/03.192 Revision 04 Language: EN	
Date of first stage: 21/03/20	06	To be approved by:	Approved on:
Origin: VG3 Presses for col	d working metals	☑ Vertical Group	06/10/2008
		Horizontal Committee	09/12/2008
		To be endorsed by: ☑ Machinery Working Group.	Endorsed on: 18/06/2009
Question related to: Dir. 20	06/42/EC Article:	EN/prEN: EN 12622:2001	Other: pr EN 12622:2007
Annex: 1	EHSR (1):	Normative clause:	Other clause :
		CEN TC concerned: TC 143	
Key words: Press brakes –	secondary working devices	·	
the down stroke movement	ipped with secondary devices (e.g. bend ar to perform the operation. This equipment is ices of this secondary working part be?	s usually pneumatic with at least two sing	
	5 pushing	6 opening	7 end cycle

## Solution:

This type of too I has two danger zones. The first danger zone (a) is between the main tool and secondary tool and the second danger zone (b) is underneath the secondary tool.

- (a) The closing movement of the main tool should be protected with suitable safeguards.
- The relationship of the movements between the main and the secondary tool need to be protected to prevent crushing between the main and the secondary tool in normal operation and due to unintended opening of the secondary tool
- (b) If the gap within the secondary tool is less or equal to 6mm the closing movement is not considered to be dangerous.
   If the gap within the secondary tool is greater then 6mm a crus hing hazard exists therefore the closing movement should be protected with suitable safeguards.

Suitable safeguards to address (a) and (b) above could be:

- Light curtains of type 4 according to EN 61496- 1 which stop the closing move ment of the bea m and any mo vement of the secondary tool as soon they are interrupted in combination with monitoring and inbuilt redundancy of the drive of the secondary tool (see also EN 13736 pneumatic presses).

#### or

A hold-to-run control device in conjunction with a maximum speed of 10mm/s (safe or monitored by a system of cat. 3 acc EN 954-1 or PL<sub>D</sub> acc. to EN 13849-1) of the secondary tool for the initiation of the closing and opening movement of the secondary tool when used in combination with interlocking which prohibits any upward movement of the secondary tool as long as the main tool is in down stroke mode.

#### or

- A hold-to-run control device in conjunction with a maximum speed of 10mm/s (safe or monitored by a system of cat. 3 acc. to EN 954-1 or PL D acc. to EN 13 849-1) of the secondary tool for the initiat ion of the closing movement of the se condary tool when used in combination with
  - synchronisation (of cat. 3 acc. to EN 954-1 or PL<sub>D</sub> acc. to EN 13849-1) between the upward movement of the main and the secondary tool in a manner that ensures that the speed of the main tool is always higher than the speed of the secondary tool so that the gap between the tools is always increasing during this movement

### or

 a system of category 3 according to EN 954-1 or PLD according to EN 13849-1 preventing the opening of the secondary tool as long as the beam has not reached a min imum distance from the secondary tool of 1 00 mm plus the stroke of the secondary tool.

# Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC

(1) Essential health and safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC as amended		CNB/M/03.193 Revision : 06 Language : EN	
NOTIFIED BODY	RECOMMENDATI			
Number of pages : 1 Origin : VG3 Presses for the	Date : 20.03.2006	To be approved by :         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by :          □       Machinery Working Group	Approved on : 03.03.2009 10.06.2009 Endorsed on : 31.01.2018	
Question related to : Dir. 200	06/42/EC Article : -	EN/prEN : no applicable standard	Other : EN 692:2005, EN 693:2001, EN 12622:2001	
Annex : I	EHSR (1) : 1.2.1	Normative clause : - CEN TC concerned : -	Other clause : -	
Key words: Servo Press (Pov	wer Presses & Press Brakes), Muting, Slov	v Speed / Directional Monitoring		
Question:				
How is it possible to mute the safeguarding devices of a servo press where the stopping time is relevant?				
Recommended solution:				
a) Mute during opening move	ement			
The muting of the safeguarding device during opening movement shall be in accordance with EN ISO 13849-1:2008 category 4 PL e. The direction monitoring shall be in accordance with EN ISO 13849-1:2008 PL d. In case of failure, the maximum movement of the beam in the closing direction shall be limited to a reasonable value (good experiences have been made with a value not exceeding 6 mm).				
b) Mute during slow speed in	n conjunction with hold to run control			
Slow closing speed less than or equal to 10 mm/s that allows the muting of the safeguarding device shall be: - limited by fixed means (e.g. use of a clutch ), or - monitored according to EN ISO 13849-1:2008 PL d. The over-speed detection shall have an adequately short response time. In case of over-speed detection a STO shall be applied and the braking mechanism shall be activated. The release of the hold to run control (e.g. foot pedal) shall lead to a Safe Stop 1.				
Note : According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.				

Sent for information to: ☑ members of the VG

□ other(s) VG □ HC (2) □ other (5)

Essential Health and Safety Requirement
 Horizontal Committee

(3) N° of CEN/TC (Secretary & Chairman)(4) Machinery Working Group

(5) To be specified

□ SC (4)

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.194 Revision 05 Language: E	
Date of first stage: 03/03/20	08	To be approved by:	Approved on:	
Origin: VG3 Presses for cold working of metals		☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       ☑         ☑       Machinery Working Group	03/03/2009 10/06/2009 Endorsed on: 25/12/2009	
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN: EN 692:2005, EN	Other:	
Annex: I	ESR (1): 1.2.6	693:2001, EN 12622:2001 Clause:	Other clause:	
		CEN TC concerned:		
Key words: Servo press (Po	ower Presses & Press Brakes), brake			
Question: What kind of brake system could be used on a mechanical press without a clutch, driven by a servo-drive system?				
Solution:				
If the servo controller provides a safe torque off function (STO) according to ISO 13849-1:2006 category 4 PL e, a stop category 1 acc. to EN 60204-1:2007 and a stopping performance monitoring according to ISO 13849-1:2006 PL d the following solutions may be acceptable:				
External mechanical brakes shall be used. They shall be mechanically and positively linked to the ram. If no mechanical and positive link is realised equivalent measures shall be taken. Circuits driving the brake systems shall be designed and monitored according to the needs of the safety control system.				
a) If the stopping time is relevant (depending on the safeguarding system e.g. non physical barrier) fail safe brake systems (e.g. a single brake as specified in EN 692 or equivalent) shall be used and a test of the brake performance has to be done to show the sufficient friction of the brake. If this test is done in a stand still position, it must be shown that also the stopping time under worst case conditions will be guaranteed. The interpretation of the test result must be done by the safety control system.				
The test has to be done at each power on, at each change of operational mode and at least after one hour of operation in single stroke mode or after eight hours of operation in automatic mode.				
The relevant sections of Annex B.4 of EN 692:2005 shall be taken into consideration for the design and testing of the brake.				
b) If the stopping time is not relevant a spring operated park brake system alone may be enough. In any case the stand still of the ram shall be monitored. The braking torque of external mechanical brakes preventing descent of the load (normally the ram) shal I be reasonably overdimensioned (recommended value 1,25) with respect to the total mass of the ram including fitted tooling.				
Note: STO is defined in	IEC 61800-5-2:2007			

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.196 Revision 04 Language: E		
Date of first stage: 07/10/2008		To be approved by:	Approved on:		
Origin: VG3 Presses for the cold working of metals		<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	07/10/2008 09/12/2008		
		To be endorsed by : ☑ Machinery Working Group	Endorsed on : 18/06/2009		
Question related to: Dir. 200	06/42/EC Article:	EN/prEN:	Other:		
Annex: 1	EHSR (1):	Normative clause:	Other clause :		
		CEN TC concerned: TC 143			
Key words: Servo presses,	protective measures				
Question: What kind of protective measures are acceptable for servo presses?					
Solution: It is recognised that servo-presses have similar fe atures to both mechanical and hydraulic presses. Therefore the protective measures as described in EN 692, EN 693 or EN 12622 are found acceptable on servo presses. The level of safety shall not be lower than the one in the indicated standards.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

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MACHINERY <sup>Sten</sup> MACHINERY <sup>Sten</sup> <sup>NO</sup> <sup>TFIED 80</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.200 Revision 05 Language: E	
Date of first stage: 25/09/2008		To be approved by:	Approved on:	
Origin: VG3 Presses for the cold working of metals		<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	03/03/2009 10/06/2009	
		To be endorsed by: Machinery Working Group	Endorsed on: 25/12/2009	
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN: EN 692:2005, EN 693:2001, EN 12622:2001	Other:	
Annex: I	ESR (1): 1.2.4	Clause:	Other clause:	
		CEN TC concerned:		
Key words: Servo-presses (	Power Presses & Press Brakes), Stopping perfor	mance monitoring		
Stopping performance moni Which solution is acceptable	• •			
Solution: Where the response time (s account all errors concernin	stopping performance) of a servo-press is safety- ng safety.	relevant, the response time has to t	be determined taking into	
	ress's safety control system to detect certain faul ned.	ts at least at the following check, the	e (additional) occurrence of	
further faults must be assumed. The effect of any assumable fault on the response time of the stopping function has to be taken into account for the calculation of the safety distance.				
(1) Essential safety requiren	nent			

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE				
To be approved by:	Approved on:			
<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	04/03/2009 10/06/2009 Endorsed on:			
Machinery Working Group	25/12/2009			
EN/prEN: EN 692:2005, EN 693:2001, EN 12622:2001	Other:			
Clause:	Other clause:			
CEN TC concerned:				
on of unintended start				
O) function of each drive of a press	slide driven by more than			
Solution: The current power press standards as well as the press brake standard require category 4 of EN 954-1:1996 for the overall stopping performance of the slide. This general requirement is also valid for servo presses. With respect to the new standard EN ISO 13849-1:2008 the corresponding requirement is PL e and category 4. Where the unexpected start of one of the drives cannot lead to significant slide movement (e.g. not more than 6 mm) because the slide is blocked due to the mechanical construction of the press the category and performance level of the STO of each drive may be of the next lower level compared to the level required for a press with a single servo drive as long as the performance level stays equal to or above d.				
	//EC + Amendment         I FOR USE         To be approved by:         ✓ Vertical Group         ✓ Horizontal Committee         ✓ Machinery Working Group         EN/prEN: EN 692:2005, EN         693:2001, EN 12622:2001         Clause:         CEN TC concerned:         ion of unintended start         FO) function of each drive of a press         quire category 4 of EN 954-1:1996 fo         e new standard EN ISO 13849-1:200         slide movement (e.g. not more than performance level of the STO of each			

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY 0, NOTIFIED 8001	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.202 Revision 04 Language: E	
Date of first stage: 03/03/2009		To be approved by:	Approved on:	
Origin: VG3 Presses for the cold working of metals		Image: Construction of the second	03/03/2009 10/06/2009	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 25/12/2009	
Question related to: Directive	ve 2006/42/EC Article:	EN/prEN: EN 12622:2009	Other:	
Annex: I	ESR (1): 1.3.7	Clause: 5.3.21	Other clause:	
		CEN TC concerned: TC 143		
Key words: Press brakes –	back gauge movement initiation			
Which alternative protective measures besides those described in clause 5.3.21 of EN 12622:2009 are acceptable to protect operators against hazardous movements of back gauges? Solution: It is also acceptable to protect the operator against the hazards arising from the movement of automatically operated back gauges by light curtains (e.g. the light curtain which also protects against access to the press from the front). If none of the features "movement initiation by the operator" or "demarcation of a zone with reduced speed / limited force" or "protection by light curtain" is active for protection against movement of the back gauges, no movement of the back gauges shall be possible.				

(1) Essential safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/03.204/R/E Rev 03

MACHINERY 0, NOTIFIED 80	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.204 Revision 03 Language: E		
Date of first stage: 28/09/2011		To be approved by:	Approved on:		
Origin: VG3 Presses for cold working metals		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	28/09/2011 11/12/2012 Endorsed on:		
		Machinery Working Group	04/06/2013		
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN: EN 692 :2005+A1:2009, EN 693 :2001+A2:2011	Other: EN ISO 13857:2008, 13855:2010		
Annex:	ESR (1): 1.4.2., 1.4.3.	Clause: 5.3.2	Other clause:		
		CEN TC concerned: TC 143 and I	SO TC 39/SC 10		
Key words: Presses – Safet	y distances				
Where a movable or a fixed standard shall be checked to the EN ISO 13855:2010 tab. To do this it is necessary to tool. How it is possible to identify Solution: In principle it is impossible to The dimension of the hazar situation from the maximum "c" and "b" must be determine - the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the stopping time and - either the stopping time and - either the maximum size of Maximum ram opening position of the stopping time and - either the stopping tin the stopping tin the stopping t	How it is possible to identify this hazard zone when the height of the two separate mould halves is unknown? Solution: In principle it is impossible to define a minimum or a maximum height of the tools. The dimension of the hazard zone is basically defined by value "a" as determined during the examination considering any possible situation from the maximum opening of the ram to the height of the table. "c" and "b" must be determined according to EN ISO 13857 and EN ISO 13855 considering:				
"a", "b" and "c" are those defined in the corresponding standard (EN ISO 13857 or EN ISO 13855) depending of the safety device					

# (1) Essential safety requirement

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/03.206 Revision 03 Language: E	
Date of first stage: 27/09/2012		To be approved by:	Approved on:	
Origin: VG3 Presses for cold working metals		<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>		
			To be endorsed by: ☑ Machinery Working Group	Endorsed on: 04/06/2013
Question related to: Directiv	ve 2006/42/EC	Article:	EN/prEN: EN 692 :2005+A1:2009	Other: EN 693: 2001+A2:2011
Annex: I		ESR (1): 1.4.3.	Clause: 5.3.2.	Other clause:5.3.16
			CEN TC concerned: TC 143	
Key words: Presses – Two	hand control devic	e (THCD)		
Question:		on device for a press at the ope		
Calution				
Solution:	-∆1·2009 clause 5	3.2 the manufacturer shall se	lect the safeguard method which re	duces the risks as far as
		and the method of protection.		
The operator(s) must have	the possibility to o	verview all the dangerous area	at any time (considering the prese	nce of tools and material).
It is recommended that if the horizontal access is more than 650 mm [ref EN 693:2001+A2:2011 clause 5.3.16] other safeguarding devices than THCD according to the risk assessment for the particular press should be provided to protect a third person.				

(1) Essential safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/03.207/R/E Rev 03

MACHINERY <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE			CNB/M/03.207 Revision 03 Language: E
Date of first stage: 27/09/20	)12		To be approved by:	Approved on:
Origin: VG3 Presses for co	ld working metals		<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	27/09/2012 11/12/2012
			To be endorsed by: ☑ Machinery Working Group	Endorsed on: 04/06/2013
Question related to: Directi	ve 2006/42/EC	Article:	EN/prEN: EN 12622: 2009	Other: EN 13849-1:2008
Annex: I		ESR (1): 1.3.7.	Clause: 5.2.5.6.	Other clause:
			CEN TC concerned: TC 143	
Key words: Press-brakes -	Powered work-pi	ece supports		
to-run control is used. How can be implemented i	<i>,</i> .		powered work-piece supports shall	prevented when a hold-
Solution: The control circuit of the hold-to-run control shall conform at least PLr=b EN 13849-1:2008. Explanation: according to EN 13849-1:2008: S=1 due to reversible injury, F=2 due to permanent work place, P=1 due to sufficient space around and below the work-piece support.				

(1) Essential safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/2 of CNB/M/03.209/R/E Rev 03

MACHINERY 0, NOTIFIED 8001	CO-ORDINATION OF NOT Machinery Directive 2006/42 RECOMMENDATION	EC + Amendment	CNB/M/03.209 Revision 03 Language: E		
Date of first stage: 26/09/20	113	To be approved by:	Approved on:		
Origin: VG3 Presses for col	d working metals	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>			
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 31/01/2018		
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN: EN 692:2005 +A1:2009; EN 693:2001 +A2:2011	Other: EN ISO 13857:2008; 13849- 1:2008; 12100:2010		
Annex: I	ESR (1): 1.3.7	Clause: 5.3.19.2	Other clause:		
		CEN TC concerned: TC 143			
Key words: Hydraulically ac	tuated clamps				
What is the performance level for the SRP-CS of closing / opening command of hydraulically clamping devices when:         Clamps are integrated in the slide (see fig. 1)         Clamps are manually positioned (see fig. 2)					
Solution:         If the clamping stroke is higher than 6mm (EN ISO 13857:2008)         PLr=c for both conditions         EXPLANATION         Following EN ISO 12100:2010 and EN ISO 13849-1:2008         S=2 due to the severity of injury         F=1 due to the low frequency of the operation and the short duration of the operation         P=1 due to marking of residual risk and qualification of the operators         Residual risk of the operation can be reduced by additional measures like keeping safety devices (e.g. Light curtain) active during operation.					

(1) Essential safety requirement

Solution:

If the clamping stroke is higher than 6mm (EN ISO 13857 – 2008) PLr=c for both conditions

## EXPLANATION

Following EN ISO 12100 (2010) and EN ISO 13849-1 (2008) S=2 due to the severity of injury F=1 due to the low frequency of the operation and the short duration of the operation P=1 due to marking of residual risk and qualification of the operators

Residual risk of the operation can be reduced by additional measures like keeping safety devices (eg. Light curtain) active during operation

NOTE: This technical sheet regards only the risk of a person being injured for an uncontrolled movement of the clamping devices during the clamping and unclamping operation.

The clamping movement is considered only perpendicular and/or parallel to the tools plane (as shown in the previous figures). The risk of failure of the clamping device during slide movement is already covered by EN 692:2005+A1 (2009) / EN 693:2001+A2 (2011) clause 5.3.19.2

MACHINERY <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	C Machi	CNB/M/03.210 Revision 04			
Date of first stage: 25/	/09/2014		To be approved by:	Approved on:	
Origin: N.B. 0404			<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>		
			Machinery Working Group	23/09/2010	
Question related to: D	Directive A	Article:	EN/prEN:	Other:	
2006/42/EC	_		EN 692:2005+A1:2009	EN	
Annex: l	E	SR (1): 1.3.2	Clause: 5.2.1.4	Other clause: 5.4.1.1	
			CEN TC concerned:		
Key words: servo pres	s / press brake –	belt connection betwe	en motor and screw		
Question:					
		ervo press / press brake if t ed to the motor with a toot	the mechanical brake is placed on helt	on the servo motor shaft	
Solution:					
See also CNB/M/03.19	94rev5				
Two belts are needed, both monitored PL"d" (EN ISO 13849-1:2008) for breakage. One belt alone must be able to stop the ram (i.e. be able to transmit the nominal braking force) At least 8 consecutive teeth of each belt must be engaged in the pulley. Mechanical parts of shaft, pulleys, screws and their form fit connections shall be dimensioned according to well proven concepts.					
NOTE: for technical reasons a fault exclusion can be made for the loss of more than 4 teeth in consecutive raw					
The annual inspection of	the machine woul	d show any premature wea	ar; annual inspection shall be sta	ated in the user manual	

## (1) Essential safety requirement

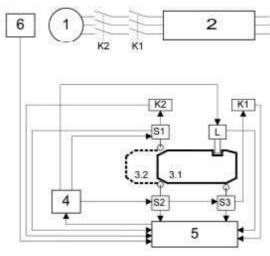
Page 1/2 of CNB/M/03.211/R/E Rev 02

		rage 1/2 0			
MACHINERY <sup>0</sup> , No <sub>77FIED</sub> <sup>60</sup>	CO-ORDINATION OF NO Machinery Directive 2006/42	CNB/M/03.211 Revision 02			
Date of first stage: 25/	09/2014	To be approved by:	Approved on:		
Origin: N.B. 0026		<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> <li>To be endorsed by:</li> <li>✓ Machinery Working Group</li> </ul>	26/09/2014 24/06/2015 23/09/2016		
Question related to: D 2006/42/EC	irective Article:	EN/prEN:	Other:		
Annex: IV	ESR (1):	Clause:	Other clause:		
		CEN TC concerned:			
Key words: presses – I	Manual loading/unloading work pieces	in presses			
Question:					
The work piece is manually placed on the lower die, which has been slid outside of the danger zone. When the work cycle starts the lower die first slides inside the danger zone and when in position the upper die moves downwards Are these machines included in annex IV?					
Solution:	tegrated auxiliary device of the press (t	the operator can only place th	he work niece outside		
the danger zone)	the press (I		ie work piece outside		
YES: if the cycle gives t	he operator the possibility to place the	work piece between the die	s (e.g. two steps cycle)		

See also CNB/M/03.002 rev 15

(1) Essential safety requirement

F.1 Principle of interlocking corresponding to type III, using electromechanical components



Page 1/1 of CNB/M/03.214 Rev 04

MACEINICE Y	CO-ORDINATION OF NC Machinery Directive 2006/42 RECOMMENDATIO	CNB/M/03.214 Revision: 04 Language: EN			
Number of pages: 1       Date: 03.07.2023         Origin: VG3 Presses for cold working metals         Question related to: Directive 2006/42/EC       Article: -         Annex: I       EHSR (1): 1.2.1		To be approved by:         ☑ Vertical Group         ☑ Horizontal Committee         To be endorsed by:         ☑ Machinery Expert Group         EN/prEN: EN 12622:2009 +         A1:2013         Normative clause: -         CEN TC concerned: -	Approved on: 12.09.2019 14.06.2022 Endorsed on: 23.03.2023 Other: EN 60204-1:2018 EN 62745:2017 Other clause: -		
Key words: Press brake /	Control panel / Wireless				
Question: How it is possible to use a	Question: How it is possible to use a wireless station with safety functions to control press brake movements?				
Solution:					
The following shall be adopted. 1. Performance level according to EN ISO 13849-1:2015 Table 2 of EN 12622:2009 + A1:2013 shall be applied for the safety level of the various safety functions related to the use of the wireless					
control station (e.g. Hold to run control, Emergency stop, Reset, etc.). 2. Standard requirements Wireless command shall be compliant with: - clause 9.2.4 of EN 60204-1: 2018; - EN 62745: 2017.					
<ol> <li>Loss of communication</li> <li>The loss of communication shall arrest the machine. In this situation safeguard actions through the remote station could not be operative (e.g. the opening of the press). For this reason, it shall be possible to perform these actions on a control panel fixed to the machine.</li> </ol>					
<ol> <li>Response time</li> <li>The response time of the wireless communication shall be evaluated in relation to different safety functions.</li> </ol>					
5. Range of control The press manufacturer shall define the areas where the wireless control station can be used in a safe way. The NB shall check that from these areas there is complete visibility of the dangerous zones.					
(1) Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.					

Page 1/1 of CNB/M/03.216 Rev 04

		l agi	9 1/1 0f CNB/10/03.216 Rev 04		
State CO-OROLAN	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC		CNB/M/03.216		
MACHINERY			Revision: 04		
9. 6.			Language: EN		
POTTFIED TO	RECOMMENDATIO	N FOR USE			
Number of pages: 1	Date: 03.07.2023	To be approved by:	Approved on:		
Origin: VG3 Presses for cold wor	king metals	☑ Vertical Group	24.05.2022		
		Horizontal Committee	14.06.2022		
		To be endorsed by:	Endorsed on: 23.03.2023		
		Machinery Expert Group			
Question related to: Directive 200	06/42/EC Article: -	EN/prEN: EN ISO 16092-2:2020	Other: -		
Annex: I	EHSR (1): 1.3.7	Normative clause: 5.2.5.3	Other clause: -		
		CEN TC concerned: TC 143 and IS	O TC 39/SC 10		
Key words: presses with a servo	drive system (mechanical servo presses	); brakes.			
Question:					
	ent on the market. For some of them fau gle fault may lead to a delay of the braki		cample, to a specific use on		
		-			
Which kind of measures are cons	sidered to be applicable and sufficient to	detect such fault?			
Solution:					
•••	luenced by the specific application. Brak				
g on servo-press drives.	s; e.g. acceleration values of 1-2 g were	measured on drives of mechanical p	presses, and values up to 16		
g on servo-press unves.					
The following possible solution m	ay be acceptable.				
	g of those servo-brake components that of components moving during switching, or the server server the server server as the server s				
sensors for position-monitoring o	a components moving during switching, a	or must be prepared for being equipt	ed with such sensors.		
During each single cycle an automatic monitoring of the time for the brake activation shall be measured.					
The time between the activation of the brake (e.g. the switch-off of the electro-valves) and the close position of the brake itself shall be measured and evaluated.					
If the brake activation time is out of the defined limits the safety control system shall stop the press.					
The control circuit for the brake monitoring shall have the same Performance Level like the control system/function according to Tables 1 and 2 of the EN ISO 16092-2.					
(1) Essential health and safety req	uirement				

Page 1/2 of CNB/M/03.217 Rev 02

Number of pages: 1 Date Origin: VG3 Presses for cold working m	CO-ORDINATION OF NOTIFIED BODIES         Machinery Directive 2006/42/EC + amendments         RECOMMENDATION FOR USE         Date: 03.07.2023       To be approved by:         old working metals       Image: Vertical Group         Image: Unit of the endorsed by:       To be endorsed by:		CNB/M/03.217 Revision: 02 Language: EN Approved on: 12.09.2019 14.06.2022 Endorsed on: 23.03.2023		
Question related to: Directive 2006/42/	EC Article: -	EN/prEN: EN ISO 16092-1:2018	Other: -		
Annex: I	EHSR (1): 1.2.2	Normative clause: 5.4.1.1.3 CEN TC concerned: TC 143 and IS	Other clause: - SO TC 39/SC 10		
Key words: Reset function					
Question: Is it allowed to have more than one reset control device for each protection device (interlocked guard or AOPD) of the protected area?					
Solution:					
Yes, as long as the risk assessment leads to a conclusion of a clear view of the protected area (it would be helpful to save time for the operator, considering also ergonomic aspects). Remark: Clause 5.4.1.1.3 of EN ISO 16092-1 is related to interlocking guards and ESPE using AOPD. The following two sentences in this clause are related to AOPDs only: "There shall not be more than one reset control device for each detection zone. If the press is safeguarded by means of side and back AOPDs, a reset control device shall be provided on each detection zone".					

Page 1/1 of CNB/M/04.009 Rev 12

MACHINERY 0, <sup>4</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup>	CO-ORDINATION OF NO Machinery Directive 2006/42/ RECOMMENDATIO	CNB/M/04.009 Revision: 12 Language: EN			
Number of pages: 1	Date: 31.07.2023	To be approved by:	Approved on:		
Origin: Injection or compresented on the second sec	ession moulding machines	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Expert Group</li> </ul>	03.05.2023 31.05.2023 Endorsed on: 12.04.2024		
Question related to: Direc	tive 2006/42/EC Article: 12	EN/prEN: EN ISO 20430:2020 EN 289:2014	Other: -		
Annex: IV	EHSR (1): -	Normative clause: - CEN TC concerned: -	Other clause: -		
Key words: Moulding mac	hinery / automatic loading and unloading				
Question:					
manual?	nder which loading and unloading of an injection	n or compression moulding machine	can be considered as		
Definition according to Guide Ed 2.2 (2019) §388 Loading and unloading is not considered as manual if: - the machinery is designed to operate only with robot or manipulator equipment, or - the machinery is fitted with loading and unloading devices such that it is not possible to operate the machinery without those devices.					
In all other cases, loading	and unloading shall be considered as manual.				
Solution:					
Additional explanations: First dash: the injection or	r compression moulding machine shall not have	a semi-automatic mode			
	ng/unloading device is not used, the compressio in and there is no reason for the operator to use		a safe mode. The machine		
Definitions for possible modes of operation (EUROMAP): (1) Manual Mode					
Where a machine is manually operated the functions of the machine are controlled via a hold-to-run control and are frequently possible only with reduced speeds/forces. Manual operation is used e.g. for setting; a production of parts is technically and economically not possible/sensible.					
(2) Semiautomatic Mode Semiautomatic operation is a type of operation where one cycle is completed automatically after a start signal, then the machine stops, the next cycle can only take place if a further start signal has been given. Semiautomatic operation is used mainly if manual loading/unloading of the mould(s) is required.					
(3) Fully automatic Mode Fully automatic operation is an operation where one cycle automatically follows the other; no intervention of the operator is necessary.					
(1) Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.					

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CC-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments       CNBIM04.014 Revision: 03 Language: EN         Number of pages: 1       Date: 31.07.2023       To be approved by: Writing (Group       Approved on: 04.05.2023         Origin: Injection or compression moulding machines       Writing (Group       04.05.2023         In the of pages: 1       Date: 31.07.2023       Writing (Group       04.05.2023         Interference       Interference       04.05.2023       Endorged on: 12.04.2024         Question related to: Directive 2006/42/EC       Article: :       EN/PrEAV: EN ISO 20430-2020       Other: -         Annex: 1       ENSR (1): 1.1.2 (a); 1.5.14       Normative clause: 4.2.8       Other clause: -         Question:       CEN TC concerned: TC 145 / ISO 270         Key words: Machine with fence and robot, crossing the mould area into the fence area behind the machine         Question:         Abrizontal machine, smaller than the dimensions given in clause 4.2.8 of EN ISO 20430 is equipped with a fence for a robot.         Can we consider crawling through the machine (between the opened platens) into the fence area a reasonably foreseeable misuse?         Soluton:         No. because:         • A machine of this dimensions must be equipped with additional safety measures according to clause 4.2.8 of EN ISO 20430.         • A machine of larger dimensions must be equipped with additional safety measures accordi			Page	e 1/1 of CNB/IVI/04.014 Rev 08	
RECOMMENDATION FOR USE         Number of pages: 1       Date: 31.07.2023       To be approved by:       Approved on:         Origin: Injection or compression moulding machines       If Vertical Group       40.65.2023         If the control of th	Stein CO-OPOINT			Revision: 08	
Origin: Injection or compression moulding machines       Image: Vertical Group	Notified BODE	RECOMMENDATIO			
Annex: I EHSR (1): 1.1.2 (a); 1.5.14 Normative clause: 4.2.8 Other clause: - CEN TC concerned: TC 145 / ISO 270 Key words: Machine with fence and robot, crossing the mould area into the fenced area behind the machine Question: A horizontal machine, smaller than the dimensions given in clause 4.2.8 of EN ISO 20430 is equipped with a fence for a robot. Can we consider crawling through the machine (between the opened platens) into the fence area a reasonably foreseeable misuse? Solution: No, because: - A machine of this dimension cannot be entered by a person in the sense of the standard; if somebody makes an extreme effort to gain entry into the machines, this is not a reasonably foreseeable misuse; - A machine of larger dimensions must be equipped with additional safety measures according to clause 4.2.8 of EN ISO 20430. (1) Essential health and safety requirement			<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	04.05.2023 31.05.2023 Endorsed on:	
1.5.14       CEN TC concerned: TC 145 / ISO 270         Key words: Machine with fence and robot; crossing the mould area into the fenced area behind the machine         Question:         A horizontal machine, smaller than the dimensions given in clause 4.2.8 of EN ISO 20430 is equipped with a fence for a robot.         Can we consider crawling through the machine (between the opened platens) into the fence area a reasonably foreseeable misuse?         Solution:         No, because:         - A machine of this dimension cannot be entered by a person in the sense of the standard; if somebody makes an extreme effort to gain entry into the machines, this is not a reasonably foreseeable misuse;         - A machine of larger dimensions must be equipped with additional safety measures according to clause 4.2.8 of EN ISO 20430.	Question related to: Direct	ive 2006/42/EC Article: -	EN/prEN: EN ISO 20430:2020	Other: -	
Question:         A horizontal machine, smaller than the dimensions given in clause 4.2.8 of EN ISO 20430 is equipped with a fence for a robot.         Can we consider crawling through the machine (between the opened platens) into the fence area a reasonably foreseeable misuse?         Solution:         No, because:         - A machine of this dimension cannot be entered by a person in the sense of the standard; if somebody makes an extreme effort to gain entry into the machines, this is not a reasonably foreseeable misuse;         - A machine of larger dimensions must be equipped with additional safety measures according to clause 4.2.8 of EN ISO 20430.         (1) Essential health and safety requirement	Annex: I				
A horizontal machine, smaller than the dimensions given in clause 4.2.8 of EN ISO 20430 is equipped with a fence for a robot. Can we consider crawling through the machine (between the opened platens) into the fence area a reasonably foreseeable misuse? Solution: No, because: - A machine of this dimension cannot be entered by a person in the sense of the standard; if somebody makes an extreme effort to gain entry into the machines, this is not a reasonably foreseeable misuse; - A machine of larger dimensions must be equipped with additional safety measures according to clause 4.2.8 of EN ISO 20430.	Key words: Machine with fe	ence and robot; crossing the mould area into	the fenced area behind the machine		
No, because: <ul> <li>A machine of this dimension cannot be entered by a person in the sense of the standard; if somebody makes an extreme effort to gain entry into the machines, this is not a reasonably foreseeable misuse;</li> <li>A machine of larger dimensions must be equipped with additional safety measures according to clause 4.2.8 of EN ISO 20430.</li> </ul> (1) Essential health and safety requirement	A horizontal machine, sma	-			
<ul> <li>A machine of this dimension cannot be entered by a person in the sense of the standard; if somebody makes an extreme effort to gain entry into the machines, this is not a reasonably foreseeable misuse;</li> <li>A machine of larger dimensions must be equipped with additional safety measures according to clause 4.2.8 of EN ISO 20430.</li> </ul>	Solution:				
<ul> <li>entry into the machines, this is not a reasonably foreseeable misuse;</li> <li>A machine of larger dimensions must be equipped with additional safety measures according to clause 4.2.8 of EN ISO 20430.</li> </ul>					
(1) Essential health and safety requirement				akes an extreme effort to gain	
	- A machine of larger d	imensions must be equipped with additional s		.2.8 of EN ISO 20430.	
Nate: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Clobal Approach, the					

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/04.029 Rev 08

		1 49	1/1 01 CIND/10/04.023 1(ev 00		
OFLAN CO-ORDIAN	CO-ORDINATION OF NO	CNB/M/04.029			
MACHINERY	Machinery Directive 2006/42		Revision: 08		
9			Language: EN		
"OtiFIED \$0"	RECOMMENDATIO	N FOR USE			
Number of pages: 1 Origin: Injection or compre	Date: 31.07.2023	To be approved by:         ☑ Vertical Group         ☑ Horizontal Committee         To be endorsed by:         ☑ Machinery Expert Group	Approved on: 04.05.2023 31.05.2023 Endorsed on: 12.04.2024		
Question related to: Direct	ive 2006/42/EC Article: -	EN/prEN: EN ISO 20430:2020, cl. 6.2.4, 6.2.5 EN 289:2014, cl. 7.2.4 / 7.2.5	Other: -		
Annex: I	EHSR (1): 1.4.3	Normative clause: s.a.	Other clause: -		
		CEN TC concerned: CEN TC 145 /	ISO TC 270		
Key words: Injection or Co	mpression Moulding Machine Response Time	l			
Question:					
	ection or compression moulding machine equi oonse-time-measurement system?	··· •	-		
Solution:					
No, In the C-standards EN 289 and EN ISO 20430 is no indication to do so. The manufacturer has to give information on the values of the response time and the corresponding distances in the user's manual. In addition, the manufacturer shall give the following information in the user's manual: - maximum closing speed, - maximum dimension of the mould, - information about the necessity of new evaluation of safety distances and response time after repair or adjustment or at least one a year.					
(1) Essential health and saf	ety requirement				

Page 1/1 of CNB/M/04.040 Rev 09

CO-ORDINATION OF NO         Machinery Directive 2006/42/         Machinery Directive 2006/42/         RECOMMENDATION         Number of pages: 1         Date: 31.07.2023         Origin: Injection or compression moulding machines         Question related to: Directive 2006/42/EC         Article: -	TIFIED BODIES /EC + amendments	CNB/M/04.040 Rev 09 CNB/M/04.040 Revision: 09 Language: EN Approved on: 04.05.2023 31.05.2023 Endorsed on: 12.04.2024 Other: -		
Annex: I EHSR (1): 1.2.2	Normative clause: 4.2.7 b) CEN TC concerned: CEN TC 145 /	Other clause: - ISO TC 270		
Key words: automatic sequence control, guard closing, latch retracting, mould closing         Question:         Which sequence regarding guard closing - retracting the latch - mould closing shall be provided (sequence, kind of actuating device) for machines allowing whole body access?				
Solution: Principally, EN ISO 20430:2020, clause 4.2.7 b) provides the following sequence: 1. Separate retracting of the latch, i.e. actuation of a control device 2. Guard closing by actuating a further control device (here: hold-to-run control device). 3. After closing of a guard a further, third control device shall be actuated for closing the mould, as otherwise, this would be a gate start in accordance with clause 4.2.4. The VG 4 is of the opinion that it is not necessary to push 3 different command devices in sequence. As an alternative, the sequence can be organised as follows: 1.1 A hold-to-run control device ensures latch retraction and guard closing. As soon as the guard is closed, a further control device shall be actuated that initiates the mould closing. or 1.2 The actuation of the control device ensures latch retraction. Within 3 seconds after release of this control device a further control device shall be actuated for guard closing (hold-to-run). If this command device is released and actuated again after the door is closed, the closing of the mould shall be initiated. The control sequence has to be monitored at each cycle of the movable guard.				

Page 1/1 of CNB/M/04.053 Rev 07

MACHINERY 93 HOTTFIED TON	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments RECOMMENDATION FOR USE			CNB/M/04.053 Revision: 07 Language: EN	
Number of pages: 1 Origin: VG 4 Injection and	Date: 03.07. Compression Mouldi		<ul> <li>✓ Vertical Gro</li> <li>✓ Horizontal C</li> <li>To be en</li> </ul>	proved by: oup Committee idorsed by: Expert Group	Approved on: 09.06.2021 16.12.2021 Endorsed on: 23.03.2023
Question related to: Direct		Article: -	20430:2020	1:2009 / EN ISO	Other: -
			Normative claus	e: - / 4.1.2.1 CEN TC 145 / ISO <sup>-</sup>	Other clause: - TC 270
	ulic valves, protective	e bonding circuit connectio	n on the voltage s	upply plug of a 24 V	/DC solenoid valve
Question: Is it necessary to have a separate grounding wire to each 24 VDC solenoid valve?					
Solution:					
<ul> <li>It is not necessary to have a separate grounding wire to each solenoid valve if all of the following conditions are fulfilled:</li> <li>coils are supplied by separate winding transformer or equivalent</li> <li>the coil of solenoid is coated in an insulating material</li> <li>one side of the secondary output is connected to earth</li> <li>the connector is made of plastic</li> <li>an interconnection has to be done between the frame and the block supporting the valves either by wiring or by fixing the valves on the frame</li> </ul>					

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		Page	e 1/1 of CNB/M/04.076 Rev 06		
Statistics of the state of the	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments		CNB/M/04.076 Revision: 06		
O.			Language: EN		
NOTIFIED VOS	RECOMMENDATIO	IN FOR USE			
Number of pages: 1	Date: 03.07.2023	To be approved by:	Approved on:		
Origin: VG 4 Injection and Compression Moulding Machines		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Expert Group</li> </ul>	09.06.2021 16.12.2021 Endorsed on: 23.03.2023		
Question related to: Direct	tive 2006/42/EC Article: -	EN/prEN: EN 201:2009 / EN ISO 20430:2020	Other: Annex C, G, H / Annex D, E		
Annex: I	EHSR (1): 1.2.1	Normative clause: 5.2.1 / 4.2.1.1	Other clause: -		
		TC concerned: CEN TC 145 / ISO	TC 270		
Key words: Plastics and ru	ubber hydraulic IMM – horizontal mould closing	movement – motor control unit			
Question:					
	cond shut-off device, defined in EN 201 / EN IS f the pump drive (the main power source for th				
Recommended solution:					
<ul> <li>Yes, provided that:</li> <li>The opening of the guard shall activate the Safe Torque Off function (see definition in EN 61800-5-2:2017) of the motor control unit or switch-off the contactor.</li> <li>The motor control unit Safe Torque Off function shall comply with the requirements of PL c, category 2 or 3 of EN ISO 13849-1:2015, and shall be tested by an independent laboratory accredited according to EN ISO/IEC 17025.</li> <li>The contactor shall be directly connected to the motor and with linked or mirror control contacts.</li> <li>The change of the signal of the switch-off coming from the motor control unit or the contactor shall be automatically monitored at least once during each cycle of the movable guard.</li> <li>Commencement of any further cycle after closing of the movable guard shall be possible only if no faults have been detected.</li> <li>The fault of the main shut-off device shall not create a dangerous run-down.</li> <li>The only power source for the closing movement of the movable platen shall be the pump; no accumulators shall be installed on this line.</li> </ul>					
(1) Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.					

Page 1/1 of CNB/M/04.083 Rev 07 CNB/M/04.083 **CO-ORDINATION OF NOTIFIED BODIES** Revision: 07 Machinery Directive 2006/42/EC + amendments Language: EN RECOMMENDATION FOR USE Date: 03.07.2023 Number of pages: 1 Approved on: To be approved by: ☑ Vertical Group ..... 03.05.2022 Origin: VG 4 Injection and Compression Moulding Machines 14.06.2022 Horizontal Committee ..... Endorsed on: To be endorsed by: 23.03.2023 ☑ Machinery Expert Group ...... Other: -Question related to: Directive 2006/42/EC EN/prEN: EN ISO 20430:2020 Article: -Annex: I EHSR (1): 1.5.14 Normative clause: 4.2.7, 4.2.8 Other clause: -TC concerned: CEN TC 145 / ISO TC 270 Key words: Injection moulding machines with tie bar distances >1200 mm; person standing behind the mould at the rear side of the machine or entering the mould area from the operator's side Question: A machine manufacturer constructs, or retrofits an injection moulding machine having a tie bar distance H >1200mm with a robot on the machine's rear side. In compliance with the standard's specifications, the machine is equipped with an additional safeguarding system in the mould area (e.g. mats). Due to the large dimensions of the enclosed area or the tools installed on site, a person entering the fenced area of the robot from the operator's side or being in the area between the mould and the mobile guard might not be sufficiently visible from the operator's side. What are the measures the machine manufacturer or retrofitter has to take if a situation as the one described above is possible on a machine with H>1200mm? Additional Information: This matter was raised by a machine manufacturer as manufacturers often have to issue the final conformity assessment after having retrofitted a machine at the customer's plant. There is already a data sheet existing which deals with this subject: CNB/M/04.014; however, this data sheet refers exclusively to machines with H<1200mm. Thus, this sheet fails to apply to a dimension of H>1200mm EN ISO 10218-2 describes principals of safety requirement of industrial robot systems and their integration in industrial lines with machines and robot-cells. For alternatives for the safeguarding of the described situation, this standard might be considered. Solution: 1) A person entering the enclosed area of the robot from the operator's side of the injection moulding machine (IMM) needs to pass an ESPE (mono-beam or multi-beam). Following actuation of this ESPE, an acknowledgment action is necessary at this place before it is possible to start the next machine cycle on the operator's side. An additional pressure-sensitive mat shall be provided on the place where the operator might stay behind the mould between the mould and the rear guard of the machine; this mat shall ensure that although the ESPE has not yet been interrupted the person is detected, and thus prevent initiation of the next machine cycle. or 2) A double acknowledgment system as described in EN ISO 20430:2020, Annex F.2 with the first push located at a position from which a good view of the area hidden by the mould and / or the area of the handling device is possible. The acknowledgment procedure has to be required automatically by the control system of the machine every time the safety device in the mould area has been actuated. For that reason, this solution could only be used for machines that usually work in fully automatic mode.

(1) Essential health and safety requirement

Page 1/1 of CNB/M/04.085 Rev 10 CNB/M/04.085 **CO-ORDINATION OF NOTIFIED BODIES** Revision: 10 Machinery Directive 2006/42/EC + amendments Language: EN RECOMMENDATION FOR USE Date: 20.11.2024 Number of pages: 1 To be approved by: Approved on: ☑ Vertical Group ..... 24.04.2024 Origin: VG4 - Injection and Compression Moulding Machines 29.05.2024 Horizontal Committee ..... Endorsed on: To be endorsed by: 17.10.2024 ☑ Machinery Expert Group ..... Other: -Question related to: Directive 2006/42/EC Article: -EN/prEN: EN ISO 20430:2020 Annex: I EHSR (1): 1.2.1 Normative clause: 4.3.1 Other clause: -((EU 2023/1230, Annex III, clause 1.2.1) CEN TC concerned: CEN TC 145 / ISO TC 270 Key words: Mould opening for machines with horizontal closing movement and electrical axis Question: Clause 4.3.1 allows the opening movement of the platen when the guards for the mould area are open or the light curtains are interrupted, or the manual actuators of any two hands control device are released. For electrical axis in this situation, a single fault can generally create a change of the direction, because of the bypassing of guard interlocking system, so the opening movement can unexpectedly change to closing movement. How is it possible to prevent that this malfunction can create hazards for machines with horizontal closing movement and electrical axis? Solution: To avoid this malfunction the following steps are necessary: 1. detection of wrong direction 2a. then stop the movement with a maximum closing distance of 6mm 2b. then remove power or activate the safety function (STO) to prevent unexpected start These steps can be realised by implementing the following circuits: a direction monitoring circuit according to EN ISO 13849-1 PL=e and a stopping performance monitoring circuit according to EN ISO 13849-1 PL= d and an axis power removal circuit according to EN ISO 13849-1 PL=e These safety functions can separately be done by a safety device or integrated e.g. in the frequency converter If during the opening movement a wrong direction occurs, than 1. the axis shall stop in 6 mm maximum in the worst conditions (mass, speed, etc.) and 2. power removal or safety function (STO) shall be activated. External mechanical brakes can be used. They shall be mechanically linked to the platen using well-tried safety principles. Circuits driving the brake systems shall be designed and monitored according to the needs of the safety control system. Fail safe brake systems shall be used and a test of the brake performance has to be done to show the sufficient friction of the brake. If this test is done in a stand still position, it must be shown that also the stopping time under worst-case conditions will be guaranteed. The interpretation of the test result must be done by the safety control system. The test has to be done at each power on. at each change of operational mode to enable or disable this function and after eight hours of operation (1) Essential health and safety requirement

Page 1/1 of CNB/M/04.086 Rev 07

MACHINERY On HOTTPIED SOL	CO-ORDINATION OF M Machinery Directive 2006/ RECOMMENDATI	CNB/M/04.086 Revision: 07 Language: EN		
Number of pages: 1     Date: 03.07.2023       Origin: VG 4 Injection and Compression Moulding Machines		To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       To be endorsed by:         ☑       Machinery Expert Group	Approved on: 03.05.2022 14.06.2022 Endorsed on: 23.03.2023	
Question related to: Direc Annex: I	tive 2006/42/EC Article: - EHSR (1): 1.2.1	EN/prEN: EN ISO 20430:2020 Normative clause: 4.1.4.3	Other: - Other clause: -	
		TC concerned: CEN TC 145 / ISO TC	270	
Key words: Electrica	I axis; Guard locking; detection of sta	ndstill		
Question: For machine with electrical axis, guard locking can be necessary. Clause 4.1.4.3 specifies that the detection of standstill shall be safe against single fault. 1. What is the standstill detection circuit? 2. How can a "permanent automatic monitoring of the change of position of the platen by means of a motor encoder" be safe against single fault?				
Principal remark: the a dual channel system 1. The standstill deter unlocking of the guar n.6 and signals transmost 9 9 5.2 5.2 5.2	encoder" be safe against single fault? Solution: Principal remark: the term "safe against single fault" in the sense of EN ISO 20430:2020; clause 4.1.4.3 describes a dual channel system but does not specify or require a quality of this system. 1. The standstill detection circuit, is the circuit that detects the axis at the rest and gives the signal for the unlocking of the guard. In the example below the standstill detection circuit is composed by: items n.9, n.7, n.6 and signals transmission components. 4 4 4 4 4 5 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5			
2. Safe against single fault means, that if the fault of the detection control circuit can unlock the guard when he axis is still moving, the locking device shall be monitored and a stop signal shall be immediately generated for the electrical axes every time the locking device is unlocked.				

(1) Essential health and safety requirement

Page 1/1 of CNB/M/04.087 Rev 06

MACHINERY 9. MOTIFIED 10	CO-ORDINATION OF Machinery Directive 2006/ RECOMMENDATI	CNB/M/04.087 Revision: 06 Language: EN		
Number of pages: 1	Date: 03.07.2023	To be approved by: ☑ Vertical Group	Approved on: 03.05.2022	
Origin: VG 4 Injection and Compression Moulding Machines		<ul> <li>Ventical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Expert Group</li> </ul>	14.06.2022 Endorsed on: 23.03.2023	
Question related to: Directive 2	006/42/EC Article: -	EN/prEN: EN ISO 20430:2020	Other: -	
Annex: I	EHSR (1): 1.5.1	Normative clause: 4.8.4	Other clause: -	
		TC concerned: CEN TC 145 / ISO TC	270	
Key words: Plug and soc	ket combinations for subunits on	injection moulding machines		
Question: Are plug and socket combinations considered to be physically connected or disconnected during load conditions, if these combinations are only used to connect subunits of the system?				
Solution:				
<ul> <li>The plug and socket combinations are not considered to be physically connected or disconnected during load conditions if the following applies: <ul> <li>a) The installation/maintenance manual states that the plug and socket combination shall not be connected or disconnected during load conditions.</li> <li>b) The manufacturer shall describe the procedure for disconnection, for example by the use of <ul> <li>The main switch of the injection moulding machine or</li> <li>A maintenance switch for this circuit of the injection moulding machine or</li> <li>A switch of the subunit to be connected/disconnected which assures that a current flow is prevented.</li> </ul> </li> <li>Note: The requirements of EN 60204-1; cl.13.4.5 shall be fulfilled.</li> </ul></li></ul>				

MACHINERY 0, NOTIFIED BO	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.001 Revision 05 Language: E		
Date of first stage: 19/01/200	01		To be approved by:	Approved on:	
Origin: VG5 Machines for un	nderground work		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	03/11/2009 07/12/2000 Endorsed on :	
			Machinery Working Group	04/01/2005	
Question related to: Directive	e 2006/42/EC	Article:	EN/prEN: EN 1679-1:1998	Other:	
Annex: I		ESR (1): 1.5.13	Clause:	Other clause:	
			CEN TC concerned:		
Key words: internal combust	tion engine, emis	sion of dust, gas, exhaust			
What details should a manu underground working?	facturer give abo	ut the hazardous substances in	the fume of a diesel engine to be fit	ted in machines for	
Solution: In the fume of a diesel engine the following relevant dangerous substances are contained, according to the knowledge of today: Carbon monoxide CO, Carbon dioxide CO2, Nitrogen oxides NOx, Hydrocarbons HC, Soot Particles (with carcinogenic substances) PT. Emission limits are described in table 2 of EN 1679-1:1998 The manufacturer shall give all the pieces of information to the party that installs the engine/ to the user of the engine, that give them the chance to derive or duplicate the required ventilation rate for the protection of the employees in underground workings. For this, in particular, the values of the measured and calculated emitted loads in g/kW h of the above mentioned dangerous substances are necessary. The calculation of the ventilation rate by the manufacturer of the engine shall be carried out by a mathematical algorithm. Furthermore the manufacturer has to inform the user about the critical values of emissions, which limit that the engine has to be taken out of operation. The notified body shall verify these data.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY OF NOTFIED 800	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.002 Revision 05 Language: E
Date of first stage: 19/01/20		To be approved by :	Approved on :
Origin: VG5 Machines for ur	nderground work	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	03/11/2009 07/12/2000
		To be endorsed by: ☑ Machinery Working Group	Endorsed on : 04/01/2005
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN: EN 1889-2:2003	Other:
Annex: I	ESR (1): 1.5.13	Clause: 5.6.3	Other clause:
		CEN TC concerned:	
Key words: internal combus	tion engine, emission of dust, gas, exhaust, meth	ane in intake air	
	cturer give about the hazardous substances that ling mines susceptible to firedamp?	are contained in the exhaust fume o	of a diesel engine for use in
arrange additional tests, in v	ne in the intake air negatively influences the emis- which concentrations of methane of 0,5, 1 and 1, NB/M/05.001/R/E including the whole volume of t	5 Vol. % (see also 5.6.3 EN 1889-2	
Adaptation proc DIRECTIVE 2006	edure: FORMAL ADAPTATIC 6/42/EC	ON IN CONFORMITY	NITH

MACHINERY On NOTIFIED 800	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.007 Revision 04 Language: E		
Date of first stage: 19/01/20	01		To be approved by:	Approved on:	
Origin: VG5 Machines for ur	nderground work		<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	03/11/2009 07/12/2000	
			To be endorsed by: Machinery Working Group	Endorsed on : 04/01/2005	
Question related to: Directiv	e 2006/42/EC	Article:	EN/prEN: EN 1679-1:1998	Other:	
Annex: I		ESR (1): 1.5.13	Clause: 6.19	Other clause:	
			CEN TC concerned:		
Key words: internal combus	tion engine, emiss	sion of dust, gas, exhaust, limits			
Question: Are the limits for emission of toxic substances in the exhaust gas of internal combustion engines given in clause 6.19 of EN 1679-1 : 1998 acceptable?					
Solution: EN 1679-1:1998 is not sufficient for motors for underground mining, because the limits given there for emission of hazardous substances in the exhaust gas are considered for environmental protection and not suitable for protection of human health. It makes no sense that motors with engine power < 37 kW have to keep no limits. In each case it is necessary to determine the real loads of the hazardous substances e.g. according to CNB/M/05.001 and CNB/M/05.002 so that the user is able to realise that the engine can be used in underground with appropriate ventilation rate.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

(1) Essential safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.201 Revision 03 Language: E		
Date of first stage: 23/06/19	97	To be approved by :	Approved on :		
Origin: VG5 Machines for ur	nderground work	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	03/11/2009 13/12/1995		
		Machinery Working Group	Endorsed on : 04/06/1996		
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN:	Other:		
Annex: IV, 12.2	ESR (1):	Clause:	Other clause:		
		CEN TC concerned:			
Key words: Hydraulic power	red roof support				
	Question: Which types of machine are classed as "hydraulic powered roof supports"?				
Solution:					
<ul> <li>one support unit u</li> <li>several support u</li> <li>entire coal face su</li> </ul>	Types of machines classed as "hydraulic powered roof supports" are : one support unit under adjacent control several support units under group control entire coal face support under central control Coal-getting machines and hoisting engines are excluded.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

Page 1/1 of CNB/M/05.202/R/E Rev 02

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.202 Revision 02 Language : E		
Date of first stage: 30/05/19	95	To be approved by :	Approved on :		
Origin: VG5 Machines for u	nderground work	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	03/11/2009 13/12/1995		
		To be endorsed by: Machinery Working Group	Endorsed on : 04/06/1996		
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN:	Other:		
Annex:	ESR (1):	Clause:	Other clause:		
		CEN TC concerned:			
Key words: Hydraulic power	red roof support, components with safety function,	safety components			
Question:					
	with safety function/safety components for hydrau				
Solution: safety components - exam	nloc				
support units: canopy, gob shield, base et					
hydraulic rams: rams, adjusting cylinders, ca	anopy cylinders				
hydraulic control devices check valves, pressure limit	: ation valves (yield valves), control valves for settir	ng props, retracting, alignment, adva	ancing		
=	electro hydraulic control devices: discrete control devices, emergency off devices, sensors which initiate movements, master control devices, software				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

Page 1/1 of CNB/M/05.208/R/E Rev 03

NACHINERY	CO-ORDINATION OF NO Machinery-Directive 2006/42	CNB/M/05.208 Revision 03 Language: E			
NOTIFIED BOD	RECOMMENDATION	N FOR USE			
Date of first stage: 23/06/1	997	To be approved by :	Approved on :		
Origin: VG5 Machines for t	underground work	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	03/11/2009 12/12/1995		
		To be endorsed by:         Image: Machinery Working Group	Endorsed on : 04/06/1996		
Question related to: Direct	ive 2006/42/EC Article:	EN/prEN:	Other:		
Annex:	ESR (1):	Clause:	Other clause:		
		CEN TC concerned:			
Key words: Hydraulic powe	ered roof support, placing on the market, putting i	into service			
	Question: What are the most common manufacturing, modification and repair combinations by which new/modified or used hydraulic powered roof supports are placed on the market ?				
Solution: Placing on the market, p Cases	utting into service of hydraulic powered roof	supports:			
a) new hydraulic po one manufacture	wered roof support er				
b) new hydraulic po several manufac	wered roof support turers				
	owered roof support turer modifies type				
	owered roof support ufacturer modifies type				
	of hydraulic powered roof support e 01-01-95 is placed on the market anew.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

MACHINERY	CO-ORDINATION OF NOTI Machinery-Directive 2006/42/8	FIED BODIES	CNB/M/05.220 Revision 05 Language: E		
NOTIFIED BOD	RECOMMENDATION I	FOR USE			
Date of first stage: 19/01/200	)1	To be approved by:	Approved on:		
Origin: VG5 Machines for un	derground work	<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	03/11/2009 07/12/2000 Endorsed on :		
Question related to: Directive	e 2006/42/EC Article:	Machinery Working Group	04/01/2005 Other:		
		EN/prEN:			
Annexes: IV, 12.2, IX	ESR (1):	Clause: CEN TC concerned:	Other clause:		
Key words: Hydraulic powere	ed roof support, support unit, technical file, EC-ty	pe examination			
	Question: What is a representative model for the EC-type examination procedure of different types of hydraulic powered roof support machinery?				
Solution: 1) New hydraulic powered roof support as a whole or parts of it have to comply in any case with all applicable requirements of the directive before being placed on the market (e.g. EC-type examination if harmonised standards are not used). 2) In the case of replacement of components with safety function of hydraulic powered roof supports like legs, hydraulic control system or structural steel elements, which do not change the function, the person who replaces the components of the machine shall ensure the compatibility of these components. The replaced component shall be type tested and a certificate shall be issued by a notified body. A new EC-type examination certificate for the entire machine is not necessary. 3) In the case of replacement of components which change the function of the machine (e.g. changing of the media bearing force, automation of motions, change of dimensions) a new EC-type examination certificate is required. The tests required shall be specified in each case. Generally the tests cover the components themselves, the respective interfaces and the changes of function caused thereby. 4) New hydraulic powered roof support machines require EC-type examination certificates before they may be placed on the market regardless of whether identical machines placed on the market before January 1, 1995 had been homologated by a national authority. Existing test reports shall be recognised. The extend of additional tests and the documentation: - for hydraulic control systems and valves according to recommendation for use CNB/M/05.205/R/E, rev. 02, 19.11.96 - for hydraulic control systems and valves according to recommendation for use CNB/M/05.206/R/E, rev. 02, 19.11.1996 - for legs and rams within the flow of the media bearing force according to recommendation for use CNB/M/05.207, rev. 02, 19.11.1996 - for legs and rams within the flow of the media bearing force according to recommendation for use CNB/M/05.207, rev. 02, 19.11.1996					
(1) Essential safety requirem	ont				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/05.221/R/E Rev 04

MACHINERY 0, NOTIFIED BOD	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.221 Revision 04 Language: E		
Date of first stage: 19/01/20	01	To be approved by:	Approved on:		
Origin: VG5 Machines for ur		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	03/11/2009 07/12/2000 Endorsed on :		
		Machinery Working Group	04/01/2005		
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN:	Other:		
Annex:	ESR (1):	Clause:	Other clause:		
		CEN TC concerned:			
Key words: hydraulic power	ed roof support, single props				
Question:					
Solution: Hydraulic single props are machines and are classified as a special type of hydraulic powered roof supports.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

MACHINERY <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.222 Revision 04 Language: E	
Date of first stage: 19/01/20	01	To be approved by:	Approved on:	
Origin: VG5 Machines for ur		✓ Vertical Group	03/11/2009	
		Horizontal Committee	07/12/2000	
		To be endorsed by: Machinery Working Group	Endorsed on : 04/01/2005	
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN:	Other:	
Annex: IV, 12.2, and Annex	ESR (1): 1.7.4	Clause:	Other clause:	
		CEN TC concerned:		
Key words : hydraulic power	red roof support, pressure supply, EC-type exami	nation		
Question :				
	e pressure supply in the EC-type examination of h			
Solution :				
Solution : No. Normally hydraulic powered roof support units are not used alone but some hundreds as assembly. Up to now the pressure supply of hydraulic powered roof support is not part of an EC-type examination. although high risks can occur there. This should be mentioned in the instructions for the machinery as described in Annex I, 1.7.4.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY O, NOTIFIED & O	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.601 Revision 05 Language: E	
Date of first stage: 19/01/20	01	To be approved by:	Approved on:	
Origin: VG5 Machines for underground work		☑       Vertical Group         ☑       Horizontal Committee	03/11/2009 07/12/2000	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on : 04/01/2005	
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN: EN 1889- 2:2003/A1:2009	Other:	
Annexes: IV, 12.1	ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words : locomotive, EC-	-type examination, running test			
Question : In EN 1889-2:2003/A1:2009, running tests for locomotives have been provided. However there is no suitable test course available on the surface. How, when and where can these tests be realized? Solution :				
	ed body shall check, if the locomotive fulfils the adaptability of the running gear/bogie includir			
2. As far as running tests can not be realized on the surface completely, the missing tests have to be carried out at the beginning of putting the locomotive in operation underground. All these relevant checks, the duty for careful realization of these checks and their documentation have to be specified in the operators manual. The notified body has to be involved with, at least he must get the required documentation for proving.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.603 Revision 05 Language: E	
Date of first stage: 19/01/2001 To be approved by:			Approved on:	
Origin: VG5 Machines for underground work		<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	03/11/2009 07/12/2000	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on : 04/01/2005	
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN:	Other:	
Annex: I	ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: locomotive, EC	type examination certificate, putting into operatior	n, control		
Is it possible for a notified body to prescribe in his certificate (or test report) for a locomotive the way of putting into operation and the type of control? Solution: A notified body may require the instructions to include details of putting into operation and the type of control if this can affect the safe				
working of a locomotive.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY 0, NOTIFIED 500	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.604 Revision 05 Language: E	
Date of first stage: 19/01/20	01	To be approved by:	Approved on:	
Origin: VG5 Machines for underground work		<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> </ul>	03/11/2009 07/12/2000	
		To be endorsed by: Machinery Working Group	Endorsed on : 04/01/2005	
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN:	Other:	
Annex: IV 12.1	ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: locomotive, defi	nition	L		
Question:				
What is a locomotive for underground working? Solution: A locomotive is a self-powered uncaptivated vehicle running on a track of one or two rails underground in mines or other underground workings, designed for hauling or transporting persons, materials or mineral. Usually the rails are situated above or under the vehicle.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>Sten</sup> MACHINERY <sup>Sten</sup> <sup>NO</sup> <sup>TFIED 80</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery-Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/05.801 Revision 02 Language: E	
Date of first stage: 09/06/1997 To be approved by:			Approved on:	
Origin: VG5 Machines for un	nderground work	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	03/11/2009 12/12/1995	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on : 25/03/1997	
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN:	Other:	
Annex: IV 12	ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: Machines for tur	nnels			
Question: Do machines for tunnels rank as machines for underground working according to directive 2006/42/EC?				
Solution: Machines which are underground during the construction of a tunnel are reckoned among machinery for underground work. This does not apply to machines which are underground after completion of the tunnel.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

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MACHINERY 0, NOTIFIED BODY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/06.005 Revision 05 Language: E		
Date of first stage:			To be approved by:	Approved on:	
Origin: VG6 Refuse collection vehicles		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> </ul>	15/04/2010 11/03/1997		
			To be endorsed by: Machinery Working Group	Endorsed on: 08/06/1998	
Question related to: Directiv	ve 2006/42/EC	Article:	EN/prEN: EN 1501-1:1998 + A2:2009	Other:	
Annex: I		ESR (1): 1.3.1 and 1.3.2	Clause: 6.11	Other clause:	
			CEN TC concerned: TC 183		
Key words: Refuse collection	on vehicle (RCV) -	calculations			
Question:					
Which calculation shall be required from the manufacturer for an EC-type examination and which safety factors should be considered?					
Solution:					
The participants unanimous	sly agreed on requ	iring following calculation from	the manufacturer:		
Stress calculation:         a) hinges, locks and cylinders at the tailgate         b) safety props for the opened tailgate         c) safety props for suspending the vehicle at rear, if fitted, including relevant parts e.g. hinges         d) fitting points and lifting arms of the lifting device, if required by the testing engineer.					
Stability calculation:					
The stability calculation shall be done according to 6.11 of EN1501-1:2009					
The safety factor shall be 1,25.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

(1) Essential safety requirement

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MACHINERY Or NOTIFIED BOD	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/06.012 Revision 06 Language: E	
Date of first stage: 25/07/19	97	To be approved by:	Approved on:	
Origin: VG6 Refuse collection	on vehicles	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	15/04/2010 10/06/2008	
		To be endorsed by: Machinery Working Group	Endorsed on: 08/01/2009	
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN: EN 1501-1:1998 + A2:2009	Other:	
Annex: I	ESR (1): 1.2.5	Clause: 6.3.12 and 6.3.13	Other clause:	
		CEN TC concerned: TC 183		
Key words: Refuse collection	n vehicle (RCV)-automatic lifting device-operation	n mode		
Key words: Refuse collection vehicle (RCV)-automatic lifting device-operation mode         Question:         Is it allowed to repeat the discharging movement of a waste container by pushing the button for manually controlled lifting, before the entire automatic emptying cycle has been finished?         For explanation: If waste doesn't slide out of the waste container, the discharging can be supported by shaking the waste container in its tilted position.         Solution:         No, the requirements for changing over the operation mode are given in EN 1501-1:1998 + A2:2009 and pr EN 1501-1:2009 clauses 6.3.12, 6.3.13 and 6.3.14.         Manually initiated shaking of the waste container in the fully tilted position is to be deemed as an interruption of the automatic cycle.         Continuing the automatic cycle requires a deliberate action of the operative.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

		Page	e 1/1 of CNB/M/06.016 Rev 09		
MACTEINERY 0, Norther North	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments RECOMMENDATION FOR USE		CNB/M/06.016 Revision: 09 Language: EN		
Number of pages: 1 Origin: VG6 Refuse collection ve	Date: 23.01.2023	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee	Approved on: 22.06.2022 18.12.2023 Endorsed on: 12.04.2024		
Question related to: Directive 20 Annex: I	06/42/EC Article: - EHSR (1): 1.6.3 and 3.5.1	EN/prEN: EN 1501-1:2021 Normative clause: 5.8.3 CEN TC concerned: TC 183	Other: EN 60204-1:2018 Other clause: -		
Key words: Refuse collection vehicle (RCV) - energy separation main switch         Question:         What are the conditions for the statutory objective as defined in EHSR 1.6.3 (Isolation of energy sources) to be considered as having been fulfilled?					
Recommended solution: Due to EN 1501-1:2021 clause 5.8.3 a separate main switch for the body work conform to EN 60204-1:2018 shall be fitted. Additional the hydraulic pump shall be switched ineffective either by switching off (e.g. electromagnetic clutch) or electro-hydraulic bypassing. The main switch for the body work must be lockable in the off-position. Note: For the colour of the main switch, see 5.3.3 of EN 60204-1:2018.					
(1) Essential health and safety re	quirement				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/06.023 Revision 08 Language: E		
- TIFIED V			[		
Date of first stage: 25/07/19	997		To be approved by:	Approved on:	
Origin: VG6 Refuse collection vehicles		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> </ul>	15/04/2015 24/06/2015		
			To be endorsed by: ☑ Machinery Working Group	Endorsed on: 23/09/2016	
Question related to: Directiv	/e 2006/42/EC	Article:	EN 1501-1:2011	Other:	
Annex: I		ESR (1): 1.5.3 and 1.5.5	Clause: 5.3.2	Other clause:	
			CEN TC concerned: TC 183		
Key words: Refuse collection	on vehicle (RCV)	- Hose burst protection valves			
Key words: Refuse collection vehicle (RCV) - Hose burst protection valves Question: What kind of hose burst protection valves can be approved regarding the writing in EN 1501-1: 2011 Are simple lock valves (spring loaded) acceptable? Or is a more sophisticated lowering device required? Solution: To prevent raised tailgates from falling caused by hose bursts, any type of safety valve (e.g. like flow sensitive check valves) fulfilling the test requirements is acceptable, if they are fitted directly to the lifting rams of tailgates. The valves are to be thoroughly tested during the EC type examination, ensuring that in the event of a hose burst on one side only, both valves have to operate in sufficient time to minimise any distortion on the tailgate hinges. It is strongly recommended that manufacturers conduct the same tests on each RCV produced.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

Page 1/1 of CNB/M/06.025/R/E Rev 03

MACHINERY 0, 10,71/FIED FOR	Machinery Directive 2006/42/EC + Amendment		CNB/M/06.025 Revision 03 Language: E			
Date of first stage: 22/04/19	Approved on:					
Origin: VG6 Refuse collecti	on vehicles	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	15/04/2010 10/06/2008 Endorsed on:			
		Machinery Working Group	08/01/2009			
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN: EN 1501-1:1998 + A2:2009	Other: EN 60204-1:2006 + A1:2009; pr EN 1501- 1:2009			
Annex: I	ESR (1): 1.5.1	Clauses: 2 and 6.8.1.1	Other clause:			
		CEN TC concerned:				
Key words: Refuse collection	on vehicle (RCV) - electrical equipment					
What kind of electrical tests shall be required?         Solution:         The isolation resistance test and the functional test shall be carried out in any case according to EN 60204-1:2006 + A1:2009. Measuring of residual voltage after switching off operation depends on the residual risks.         Adaptation procedure:       EOPMAL ADAPTATION IN CONFORMITY WITH						
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC						

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/06.026/R/E Rev 07

MACHINERY 9, 107/FIED 800	CO-ORDINATION OF NO Machinery Directive 2006/42 RECOMMENDATION	/EC + Amendment	CNB/M/06.026 Revision 07 Language: E		
Date of first stage: 22/04/19	997	To be approved by:	Approved on:		
Origin: VG6 Refuse collecti	on vehicles	☑    Vertical Group      ☑    Horizontal Committee	15/04/2010 10/06/2008		
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 08/01/2009		
Question related to: Directive 2006/42/EC Article:		EN/prEN: EN 1501-1:1998 + A2:2009	Other:		
Annex: I	ESR (1): 1.2.3	Clause:	Other clause:		
		CEN TC concerned: TC 183			
Key words: Refuse collection	on vehicle (RCV) - automatic gear box				
What kind of interlocking is needed for a RCV with automatic gear box between the chassis function and the function of the compaction mechanism and / or the lifting device at the bodywork?         (For explanation: in practice the compaction mechanism and the operating of the lifting device requires an increase in engine speed to provide enough hydraulic oil volume)         Solution:         The stationary operation of the compaction mechanism and lifting device shall only be possible if the gear lever of the automatic gear box is in parking position. This requirement is not relevant as long as the system is detecting if the driver is present on his seat in the cabin.         Adaptation procedure:       FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/FC.					
	Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/06.027/R/E Rev 07

Date of first stage: 29/09/1998       To be approved by:       Approved on:         Origin: VG6 Refuse collection vehicles       ✓       Vertical Group	MACHINERY <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	EC + Amendment	CNB/M/06.027 Revision 07 Language: E	
Image: Provide the provided state of the provided state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state in the assembling manual or the user's manual:       15/06/2010         Image: Provided state in the assembling manual or the user's manual:       15/06/2010         Image: Pr	Date of first stage: 29/09/19	998	To be approved by:	Approved on:	
Question related to: Directive 2006/42/EC       Article:       EN/prEN: EN 1501-1:1998 +       Other:         Annex: I       ESR (1): 1.3.1 and 1.3.2       Clause:       Other clause:         CEN TC concerned: TC 183       Clause:       Other clause:         Question:       A) Is a strength calculation required for the fixing points of the bodywork on the chassis from the bodywork manufacturer?       B) Is a strength calculation required for the fitting elements of the bodywork on the chassis (e.g. screws, bolts) from the bodywork manufacturer?         Solution:       A) No, the bodywork manufacturer shall state in the assembling manual or the user's manual:       - the dead weight of the bodywork;         - the maximum permitted acceleration / deceleration of the RCV (normally calculated by 8m/sec²)       That information, the assembler shall consider following the conditions for assembling given by the chassis manufacturer.         B) Yes, stress calculation shall be part of the technical construction file of the bodywork manufacturer. The bodywork manufacturer has to	Origin: VG6 Refuse collecti	on vehicles	•		
Annex: I       ESR (1): 1.3.1 and 1.3.2       A2:2009         Clause:       Other clause:         CEN TC concerned: TC 183         Key words: Refuse collection vehicle (RCV) - fixing points of the bodywork on the chassis       CEN TC concerned: TC 183         Question:       A) Is a strength calculation required for the fixing points of the bodywork on the chassis from the bodywork manufacturer?         B) Is a stress calculation required for the fitting elements of the bodywork on the chassis (e.g. screws, bolts) from the bodywork manufacturer?         Solution:         A) No, the bodywork manufacturer shall state in the assembling manual or the user's manual:         - the dead weight of the bodywork,         - the expected total weight (mass) of the bodywork;         - the maximum permitted acceleration / deceleration of the RCV (normally calculated by 8m/sec²)         That information, the assembler shall consider following the conditions for assembling given by the chassis manufacturer.         B) Yes, stress calculation shall be part of the technical construction file of the bodywork manufacturer. The bodywork manufacturer has to					
CEN TC concerned: TC 183  Key words: Refuse collection vehicle (RCV) - fixing points of the bodywork on the chassis  Question: A) Is a strength calculation required for the fixing points of the bodywork on the chassis from the bodywork manufacturer? B) Is a stress calculation required for the fitting elements of the bodywork on the chassis (e.g. screws, bolts) from the bodywork manufacturer?  Solution: A) No, the bodywork manufacturer shall state in the assembling manual or the user's manual: - the dead weight of the bodywork, - the expected total weight (mass) of the bodywork; - the maximum permitted acceleration/ deceleration of the RCV (normally calculated by 8m/sec <sup>2</sup> )  That information, the assembler shall consider following the conditions for assembling given by the chassis manufacturer. B) Yes, stress calculation shall be part of the technical construction file of the bodywork manufacturer. The bodywork manufacturer has to	Question related to: Directive	ve 2006/42/EC Article:		Other:	
Key words: Refuse collection vehicle (RCV) - fixing points of the bodywork on the chassis         Question:         A) Is a strength calculation required for the fixing points of the bodywork on the chassis from the bodywork manufacturer?         B) Is a stress calculation required for the fitting elements of the bodywork on the chassis (e.g. screws, bolts) from the bodywork manufacturer?         Solution:         A) No, the bodywork manufacturer shall state in the assembling manual or the user's manual:         - the dead weight of the bodywork,         - the expected total weight (mass) of the bodywork;         - the maximum permitted acceleration/ deceleration of the RCV (normally calculated by 8m/sec²)         That information, the assembler shall consider following the conditions for assembling given by the chassis manufacturer.         B) Yes, stress calculation shall be part of the technical construction file of the bodywork manufacturer. The bodywork manufacturer has to	Annex: I	ESR (1): 1.3.1 and 1.3.2	Clause:	Other clause:	
Question:         A) Is a strength calculation required for the fixing points of the bodywork on the chassis from the bodywork manufacturer?         B) Is a stress calculation required for the fitting elements of the bodywork on the chassis (e.g. screws, bolts) from the bodywork manufacturer?         Solution:         A) No, the bodywork manufacturer shall state in the assembling manual or the user's manual:         - the dead weight of the bodywork,         - the expected total weight (mass) of the bodywork;         - the maximum permitted acceleration/ deceleration of the RCV (normally calculated by 8m/sec²)         That information, the assembler shall consider following the conditions for assembling given by the chassis manufacturer.         B) Yes, stress calculation shall be part of the technical construction file of the bodywork manufacturer. The bodywork manufacturer has to			CEN TC concerned: TC 183		
<ul> <li>A) Is a strength calculation required for the fixing points of the bodywork on the chassis from the bodywork manufacturer?</li> <li>B) Is a stress calculation required for the fitting elements of the bodywork on the chassis (e.g. screws, bolts) from the bodywork manufacturer?</li> <li>Solution:</li> <li>A) No, the bodywork manufacturer shall state in the assembling manual or the user's manual:</li> <li>the dead weight of the bodywork,</li> <li>the expected total weight (mass) of the bodywork;</li> <li>the maximum permitted acceleration/ deceleration of the RCV (normally calculated by 8m/sec<sup>2</sup>)</li> <li>That information, the assembler shall consider following the conditions for assembling given by the chassis manufacturer.</li> <li>B) Yes, stress calculation shall be part of the technical construction file of the bodywork manufacturer. The bodywork manufacturer has to</li> </ul>	Key words: Refuse collection	on vehicle (RCV) - fixing points of the bodywork of	on the chassis		
	<ul> <li>B) Is a stress calculation required for the fitting elements of the bodywork on the chassis (e.g. screws, bolts) from the bodywork manufacturer?</li> <li>Solution:</li> <li>A) No, the bodywork manufacturer shall state in the assembling manual or the user's manual:</li> <li>the dead weight of the bodywork,</li> <li>the expected total weight (mass) of the bodywork;</li> <li>the maximum permitted acceleration/ deceleration of the RCV (normally calculated by 8m/sec<sup>2</sup>)</li> <li>That information, the assembler shall consider following the conditions for assembling given by the chassis manufacturer.</li> <li>B) Yes, stress calculation shall be part of the technical construction file of the bodywork manufacturer. The bodywork manufacturer has to</li> </ul>				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/06.034 Revision 10 Language: E			
Date of first stage: 23/11/20	01	To be approved by:	Approved on:		
Origin: VG6 Refuse collection	on vehicles	Image: Wertical Group         Image: Wertical Group           Image: Wertical Group         Image: Wertical Group <tr< td=""><td>15/04/2015 24/06/2015</td></tr<>	15/04/2015 24/06/2015		
	Endorsed on: 23/09/2016				
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN: EN 1501-1: 2011	Other:		
Annex: I	ESR (1): 3.2.3	Clause: 5.10.	Other clause:		
		CEN TC concerned: TC 183			
Key words: Refuse collectio	n vehicle (RCV) - rear footboard				
What are the minimum criteria of a RCV's rear footboard and its monitoring device of forward speed limitation and reverse prevention to be accepted carrying out a type examination on the RCV?					
Solution: Particularly following require 1. Footboard and handles	ements shall be fulfilled to accept rear footboards	s at a RCV performing an EC-type ex	kamination certificate:		
The mechanical design of the footboard and the handles compulsory provided shall comply with EN 1501-1: 2011, clause 5.10.3.1 and 5.10.3.2 and Fig. B.4.1 and B.4.2. There shall no shear trap be created between lifting device and footboard. For safety distances see EN 349. In the reach of the footboard there shall be no other facility to ride on except on the lifting device itself which can not be avoided. The footboard folded down, its carrying structure and weight indication device when fitted shall withstand a vertical static test load of 250 kg located in the centre of the footboard. After the test there shall be no permanent deflection or crack.					
2. Monitoring device:					
2.1 Detecting device					
The detection of a person riding on the footboard is possible by: 2.1.1 Position indication: In case of position monitoring restrictions shall be effective when the footboard is folded down of more than 10° from the totally folded up position. If there is a capability to stand on the footboard or its carrying structure when folded up, a vertical force of more than 400 N at any point of the footboard or its carrying structure shall fold totally down the footboard automatically. This requirement does not occur, when in the totally folded up position of the footboard its outer edge is more than 800 mm above the ground and any other surface of its carrying structure has an angle of more than 45° to the horizontal. The dimensions are measured when the RCV standing on an even horizontal ground is empty.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

(1) Essential safety requirement

#### Page 2/3 of CNB/M/06.034/R/E Rev.10

The footboard shall be secure against unintended folding down which can cause an unintended braking down. When folding is powered the powering force shall be limited to 75 N measured at any point where a person can stand on. The folding speed measured at the rear of the footboard shall not exceed 0,6 m/sec. Thus to avoid injuries to the operative's leg when getting off the footboard and the relevant control is activated. The operation control shall be of hold-to-run-type and shall be located at the rear wall of the tailgate and in the cab.

#### 2.1.2 weight indication:

In case of weight indication the restrictions shall be effective when a vertical force of at least 300 N acts onto the footboard totally folded down or its carrying structure in a minimum distance away from the pivoting hinge as a foot can stand on. Riding on the moveable footboard carrying structure when the footboard is folded down as well as on the fix carrying structure in any case shall be prevented by design. Easy bypassing the weight indication by supporting the footboard by means of a rope, chain, etc. or blocking it in a position not folded out totally shall be prevented by the design. The weight indication will only be accepted when the capability of easy bypassing, e. g. as mentioned above is permanently prevented.

The weight detection shall be effective at any temperature the RCV is designed for as stated in the "information for use" (operator's manual) with no drift of the forces. The period of necessary readjustment shall be stated in the "information for use" (operator's manual) and should not be less than the normal inspection period given in the user's manual.

Further more there shall no facility in easy reach of the footboard where on the operative can support himself to reduce his weight force acting on the footboard.

#### 2.1.3 space indication

In case of space indication the operative shall be detected at any position on the footboard or its carrying structure independent from his cloth's colour and performance. Nothing else than a person positioned on the footboard shall be detected particularly other traffic participants (vehicles or pedestrians) or the road itself, when the footboard is folded down.

The space indication shall be effective at any temperature the RCV is designed for as stated in the "information for use" (operator's manual) with no drift of the detected area and no reduce of the detecting sensitivity.

2.1.4 Braking requirements for systems as described under 2.1.1 to 2.1.3:

Jumping onto the footboard during reversing up to 6 km/h shall stop the RCV within the distance between the rear edge of the footboard and the rear point of the rear wheel (see figure below).

At higher speeds the braking shall also be activated and the stopping distance may become longer but as short as possible.

This shall be measured on a dry horizontal even ground.

#### 2.2 Restrictions

When one or both footboards are detected as occupied following restrictions shall apply:

- speed limitation on forward motion of the RCV up to 30 km/h, tested by means of the chassis own tachograph.
- prevention of reverse of the RCV in any case (see RFU 06.031).
- prevention of operating the lifting device when provided. This does not apply when the risk of unintentionally being crushed or sheared is prevented by a sufficient safeguard.
- prevention of operating the compaction mechanism in the automatic mode on an open system according to EN 1501-1.
- after use of the footboard automatic restart of bodywork or chassis functions shall be prevented.

(See also EN 1501-1)

#### 2.3 Monitoring control:

2.3.1 Examining that part of the monitoring control which is origin part of the chassis is not task of the notified body performing an EC-typeexamination. It shall only be tested according to its function.

2.3.2 The entire control including the detectors shall be designed not to be rendered ineffectively or to set out of operation by simple tools according to EN 1088. Particularly cutting a wire, disconnecting a plug connection out of a screwed box, removal of a detector, shadow respective making blind a sensor for space indication, and a failure of one component of the footboard monitoring control shall lead to the restrictions be effective (One failure safe). This shall be in accordance with the category 3 of the standard EN ISO 13849-1:2008. To avoid manipulation, the check of the footboard control shall be made after each engine stop, at least before the compaction mechanism or /and the lifting device can be started. This check may not be the precondition for the chassis to drive faster than 30 km/h.

2.3.3 Environmental influences e.g. spot lights, part of trees approach of other vehicles, shall not lead to the restrictions be effective.

2.3.4 Cables and wires out of boxes shall withstand the environmental influences and shall be protected against mechanical damages. Components located on the outer surface of the RCV shall comply with IP 65 according to EN 60529+A1:2002.

2.3.5 To enable reverse in case of the monitoring system is destroyed e.g. by a traffic accident a push button shall be provided in the cab which bypasses the reverse restriction and prevents the operation of the bodywork including lifting device. Resetting shall only be possible by a key which shall not be identically with the ignition key or the cab door key. The push button shall be sealed. The "information for Use"

(operator's manual) shall state that the key shall be separated from the RCV. Resetting the push button it shall take at least 5 minutes before the RCV is ready for use again.

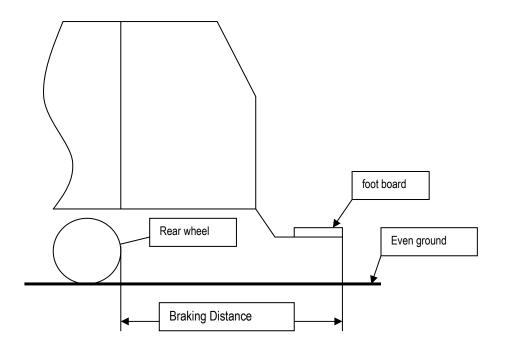
## 2.4 Communications

The working area needed to be observed including the footboards. Therefore the Closed Circuit Television System (CCTV) mentioned in 5.12.1. of EN 1501-1 shall not be capable of switching off during work and transport at any time when the ignition key is switched on.

## 2.5 Warning

To avoid traffic accidents by the slow going vehicle the flashing beacon according to 7.1.2.2 of prEN 1501-1: 2011 shall be engaged automatically when the footboards are occupied or the bodywork is switched on.

(National traffic rules shall be considered)



Braking distance related to weight and space indication

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MACHINERY <sup>0</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>1</sup>	Machinery Directive 2006/42/EC + Amendment			CNB/M/06.043 Revision 03 Language: E	
Date of first stage: 20/05/20	008		To be approved by:	Approved on:	
Origin: VG6 Refuse Collect	on Vehicles		<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	20/05/2008 09/12/2008	
	To be endorsed by: ☑ Machinery Working Group	Endorsed on: 04/07/2012			
Question related to: Directiv	Other:				
Annexes: II, IV	ESR (1):		EN1501-1:2011 Clause:	Other clause:	
			CEN TC concerned:		
Key words: Element intende	ed to be incorporated / carrying ch	assis / EC type	e-examination / EC declaration of co	onformity	
Question: Which is the scope of the EC type-examination and which is the content of the EC declaration of conformity of a Refuse         Collection Vehicle (RCV) installed on a carrying chassis, in the following configurations:         1) RCV Annex IV without lifting devices or without predisposition for receiving one or many lifting devices         2) RCV Annex IV with integrated lifting devices         3) RCV Annex IV predisposed for receiving interchangeable lifting devices					
Solution: Answer to configuration 1): EC type-examination (A) of the RCV, EC declaration of conformity according to Annex II A. and CE marking for					
the RCV (B)				-	
Annex II A. and CE marking	for the RCV including the lifting d	levice(s) (B)	e lifting device(s), EC declaration c		
which is compatible with the		e to deliver their	dispositions for receiving an interch r own declaration of conformity (for changeable equipment.	•	
EC type-examination and m	(A): EC type-examination and EC type-certificate issued by a Notified Body; this EC type-certificate makes a copy of the conclusions of the EC type-examination and mentions the conditions and the limitations which restrict the extent of the documents, e.g. minimal width of the chassis to allow mounting of footboards.				
(B): Placing on the market of the manufacturer	of the RCV: EC declaration of conf	formity accordir	ng to Annex II A. and CE marking a	re of the responsibilities of	
* Note: The compatibility is	given if the manufacturer of the lif	fting device and	d the manufacturer of the RCV use	a defined interface	
* Note: The compatibility is given if the manufacturer of the lifting device and the manufacturer of the RCV use a defined interface (hydraulically, pneumatically, electrically and mechanically), e. g. an interface according to EN 1501-5:2011					
(1) Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.					

Page 1/1 of CNB/M/06.047 Rev 02

MACHINERY G. HOTTFIED VOOL	CO-ORDINATION OF N Machinery Directive 2006/4 RECOMMENDATIO	2/EC + amendments	CNB/M/06.047 Revision: 02 Language: EN			
Number of pages: 1	Date: 03.07.2023	To be approved by:	Approved on:			
Origin: VG6 Refuse collection vehicles       ☑ Vertical Group         ☑ Horizontal Committee       To be endorsed by:         ☑ Machinery Expert Group			02.06.2021 16.12.2021 Endorsed on: 23.03.2023			
Question related to: Direc	ctive 2006/42/EC Article: 1.1.2	EN/prEN: 1501-1:2021	Other: -			
Annex: -	EHSR (1): -	Normative clause: 5.2	Other clause: -			
		CEN TC concerned: TC 183 WG2				
Key words: Danger zone	/ Visibility / testing					
Question:						
How to ensure and evaluate the danger zone as described in EN1501-1 clause 5.2.2						
Solution:						
Visibility test should be do	one without any obstacle in the evaluated dang	er zones.				
Verification measurement shall be made with a vertical test object of 1,2 m height with a suitable width of 150 mm.						
For each danger zone identified in the following schematics, it shall be checked whether the test object is visible or detectable from the driver position or the operator working station on the whole boundary of the zone.						
The test object is considered to be visible in the following conditions: - There is no masking, or						
	iller or equal to 200 mm height length.					
Note: masking smaller or equal to 200mm height length means an object higher than 1m is visible.						
5 000						
820						
		850 V 14				
(1) Essential health and safety requirement						

Page 1/1 of CNB/M/06.048 Rev 04 CNB/M/06.048 **CO-ORDINATION OF NOTIFIED BODIES** Revision: 04 Machinery Directive 2006/42/EC + amendments Language: EN RECOMMENDATION FOR USE Date: 20.11.2024 To be approved by: Approved on: Number of pages: 1 ☑ Vertical Group ..... 17.04.2024 Origin: VG6 - Refuse collection vehicles 29.05.2024 ☑ Horizontal Committee ..... Endorsed on: To be endorsed by: 17.10.2024 ☑ Machinery Expert Group ..... Other: -Question related to: Directive 2006/42/EC Article: -EN/prEN: EN 1501-1:2021 EHSR (1): -Normative clause: 5.10.3.32 Other clause: -Annex: -CEN TC concerned: TC 183 WG2 Key words: Foldable handgrips, footboard For riding on a footboard handgrips shall be provided, which fulfil a minimum horizontal distance between the two holding positions of 345 mm parallel to the frontal plane of the operator (i.e. shoulder axis); Question: Is it allowed, that one of the handgrips is foldable and if "yes" what are the minimum requirements to ensure that both handgrips will be used. Solution: Yes, it is allowed that one of the handgrips can be foldable if following requirements are fulfilled: 1. The handgrip shall be designed, that it can swivel easily and comfortably into and out of the position of use. 2. The handgrip shall be clearly marked, that riding on the footboard is only allowed, if the handgrip is folded in usable position. 3. The handgrip shall stay in position under all driving situations, if the related footboard is occupied. It shall not be possible, that the handgrip will move in rest position, if the person on the footboard releases the handgrip during driving. It shall not be possible for the RCV to drive faster than 9km/h if an operator is riding on the footboard while the handgrip is not fully deployed. Detection of deployed handgrip safety function shall have a PIr C according to EN ISO 13849-1. If the driving speed is higher than 9 km/h, a sudden misfunction of the detection of the handgrips shall give the driver an a coustical warning. 4. To prevent damages in the case of collisions with parts of the loading device or the container during loading, the handgrip should be able to move into the rest position automatically (e.g. hydraulically, electrically or pneumatically. Spring systems is not allowed). The related safety function shall have a Plr B according to EN ISO 13849-1. The handgrip shall be electrically interlocked with the compaction or lifting device functions to avoid damages in case, that the operator forgets to fold the handgrip into loading condition. The interlock safety function shall have a PIr B according to ISO 13849-1. 5. If a foldable handgrip is electrical, pneumatical or hydraulical driven and is associated to a foldable footboard, a unique command shall allow to deploy or interlock in rest position the handgrip and the footboard. Control(s) must be placed at positions where the operative has a clear view to the handgrip and to the footboard. The command shall activate only the foldable footboard and foldable handgrip on the same related side only if a clear view is not ensured on the both sides from the control. This command shall have a Plr C according to ISO 13849-1. (1) Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/06.050 Rev 03					
	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments				
RECOMMENDATIO	N FOR USE				
Number of pages: 1     Date: 20.11.2024       Origin: VG6 – Refuse collection vehicles	Approved on: 17.04.2024 29.05.2024 Endorsed on: 17.10.2024				
Question related to: Directive 2006/42/EC Article:	EN/prEN: EN 1501-1:2021	Other: -			
Annex: EHSR (1):	Other clause: -				
Key words: Rolling backward / detection / footboard not in unusable positi	on				
Question: * EN 1501-1 :2021, §5.10.3.4.3 requires that rolling backwards shall be de the driver and cause him to stop the vehicle within 1 second after warning second, the control must block the collection mechanism for 60 minutes. However, no maximum time delay or maximum distance the vehicle may detected and before the warning must be activated. Which criteria should be applied by NB during EC type examination? Solution:	signal has been activated. If the driv	ver will not stop within 1			
During EC type examination it shall be verified by NB that rolling backwards when the backwards speed is lower than 2 km/h.The test shall be done on a slope between 5 and 10%. Note: Safety distance to avoid crushing by wheels an operator that falls from the footboard can be estimated at 1,5 m. This distance can be covered in 3s at 2km/h (55cm/s). Backwards movement shall be detected in less than 2 seconds to fulfill the requirement of 5.10.3.4.3 of EN 1501-1:2021. *Additional Information: A footboard is <u>not in unusable position</u> if it is not totally folded up, so that a person could ride on it. The penalty time of 60 minutes will give no benefit to the rcv crew. It aims to avoid foreseeable misuse of the footboard (e.g. jumping on footboard during reversing). When					
no benefit to the rcv crew. It aims to avoid foreseeable misuse of the foott voluntary misuse is done, it ensures there is no benefit for the RCVs crew indirectly reduce the risks of falling from the footboard or crushing the ope	to roll backwards with footboard(s) i				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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<ul> <li>describe the conditions for this test which should include</li> <li>carrying out min. 30000 load cycles (nominal load), which relates to a life time of 10 years.</li> </ul>					
Machinery Directive 2006/42/EC + amendments       Language: EN         Number of pages: 1       Date: 23.06.1997       To be approved by:       Approved on:         12.04.2010       IVertical Group       12.04.2010         Image: EN       Image: EN       Image: EN					
Amount       RECOMMENDATION FOR USE       Language: EN         Number of pages: 1       Date: 23.06.1997       To be approved by:       Approved on:         Origin: VG8 Vehicles servicing lifts       If Vertical Group       12.04.2010         If Vertical Group       13.12.1995       Endorsed on:         If Vertical Committee       13.12.1995       Endorsed on:         If Wachinery Expert Group       04.06.1996       04.06.1996         Question related to: Directive 2006/42/EC       Article: -       EN/prEN: pr EN 1493       Other: -         Annex: -       EHSR (1): -       Normative clause: 5.6.5.6       Other clause: -         CEN TC concerned: TC 98 WG 3       Key words: Polyamide Nuts       Solution:         With regard to screw drives red brass or bronze are the most common materials for the load bearing nut and the safety nut as written in the comments of the German prevention rule VBG 14. However, some manufacturers intend to use polyamide for the load bearing nut. Some tests in our institute have shown that polyamide nuts can have the same or even a better tribological behaviour than bronze nuts, e.g. with regard to self-locking and self-retarding. Is it allowed to use polyamide nuts in vehicle lifts? Do the other NB's have any experiences with these nuts, especially when the lubricant is contaminated with dirt or particles (e.g. swarfl)?         Solution:       Polyamide nuts may be used in vehicle lifts, provided that lifetime tests have been carried out. The technical should         e describe th					
Number of pages: 1       Date: 23.06.1997       To be approved by:       Approved on:         Origin: VG8 Vehicles servicing lifts       If Vertical Group       12.04.2010         Image: Construction of the endorsed by:       Image: Construction of the endorsed by:       13.12.1995         Image: Construction of the endorsed by:       Image: Construction of the endorsed by:       13.12.1995         Question related to: Directive 2006/42/EC       Article: -       EN/prEN: pr EN 1493       Other: -         Annex: -       EHSR (1): -       Normative clause: 5.6.5.6       Other clause: -         Centre of the German prevention rule VBG 14. However, some manufacturers intend to use polyamide for the load bearing nut.       Some tests in our institute have shown that polyamide nuts can have the same or even a better tribological behaviour than bronze nuts, e.g., with regard to self-locking and self-retarding. Is it allowed to use polyamide nuts in vehicle lifts? Do the other NB's have any experiences with these nuts, especially when the lubricant is contaminated with dirt or particles (e.g. swarf)?         Solution:       Polyamide nuts may be used in vehicle lifts, provided that lifetime tests have been carried out. The technical should         expression the conditions for this test which should include       carrying out min. 30000 load cycles (nominal load), which relates to a life time of 10 years.					
Origin: VG8 Vehicles servicing lifts       ☑ Vertical Group       12.04.2010         Image: Comparison of the compar					
Annex: - EHSR (1): - Normative clause: 5.6.5.6 Other clause: - CEN TC concerned: TC 98 WG 3 Key words: Polyamide Nuts Question: With regard to screw drives red brass or bronze are the most common materials for the load bearing nut and the safety nut as written in the comments of the German prevention rule VBG 14. However, some manufacturers intend to use polyamide for the load bearing nut. Some tests in our institute have shown that polyamide nuts can have the same or even a better tribological behaviour than bronze nuts, e.g. with regard to self-locking and self-retarding. Is it allowed to use polyamide nuts in vehicle lifts? Do the other NB's have any experiences with these nuts, especially when the lubricant is contaminated with dirt or particles (e.g. swarf)? Solution: Polyamide nuts may be used in vehicle lifts, provided that lifetime tests have been carried out. The technical should					
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Approach and the G notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/08.002 Rev 04

		raye	e 1/1 of CNB/M/08.002 Rev 04		
Stand CO-OROLLAND	Machinery Directive 2006/42/EC + amendments		CNB/M/08.002 Revision: 04		
MACHINERY			Language: EN		
HOTTFIED SO	RECOMMENDATIO	RECOMMENDATION FOR USE			
Number of pages: 1 Origin: VG8 Vehicles servic	Date: 03.07.2023 Sing lifts	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee Committe	Approved on: 12.04.2010 09.12.1998 Endorsed on: 03.03.2000		
Question related to: Directi	ve 2006/42/EC Article: -	EN/prEN: -	Other: -		
Annex: -	EHSR (1): -	Normative clause: - CEN TC concerned: -	Other clause: -		
Key words: EC Type Test					
Question:					
How do we proceed, when the EC-type test refers to a group of machines (vehicle lifts) with the same design features and merely different load-carrying capacities? Do we have to test each machine (vehicle lift) or is it sufficient to test the type with minimum and/or maximum bearing capacity?					
Solution:					
Each type of vehicle lift has to be tested and compliance with the ESR'S of MD has to be confirmed by the NB. The extent of test can be reduced in case of similar equipment by responsibility of the NB. (see also CNB/M/03.009)					
(1) Essential health and safe	ty requirement				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/2 of CNB/M/08.003 Rev 05

Image: CO-ORDINATION OF NOTIFIED BODIES       CNB/M/08.003         Machinery Directive 2006/42/EC + amendments       Revision: 05         Machinery Directive 2006/42/EC + amendments       Language: EN         Number of pages: 2       Date: 03.07.2023       To be approved by:       Approved on:         Origin: VG8 Vehicles servicing lifts       Image: CNB/M/08.003       12.04.2010					
Number of pages: 2         Date: 03.07.2023         To be approved by:         Approved on:					
Number of pages: 2         Date: 03.07.2023         To be approved by:         Approved on:					
☑ Horizontal Committee       09.12.1998         To be endorsed by:       Endorsed on:         ☑ Machinery Expert Group       03.03.2000					
Question related to: Directive 2006/42/EC Article: - EN/prEN: EN ISO 12100-2:2003 Other: -					
Annex: -     EHSR (1): -     Normative clause: -     Other clause: -       CEN TC concerned: -     CEN TC concerned: -					
Key words: instruction handbook, check					
Question: Is it necessary within the EC-type test to examine the content of the instruction handbook in detail or is it sufficient to check the handbook only in a formal way e.g. with regard to chapter 6 of EN 12100-2:2003?					
Notified bodies shall examine the safety relevant content of the instruction handbook (content see EN 12100-2 clause 6). Details for vehicle lifts are e.g. (see next page).					
(1) Essential health and safety requirement					

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Details for vehicle lifts (cont.)

- Information about the product:
  - name of manufacturer, importer or dealer,
  - type designation of product,
  - date of issue of the instruction manual, status,
  - address of manufacturer, address of authorized representative,
  - technical ratings of the vehicle lift (load, load distribution, height),
  - intended use (lifting of cars), inappropriate use (lifting of people), special applications
  - available equipment options (wheel free systems, alignment systems),
  - weight and dimensions,
  - special properties (e.g. Ex proof),
  - noise and other emissions.
- Information about installation:
  - limitations of environmental ambient conditions (temperature, humidity, water),
  - required floor conditions (strength, preparation),
  - electrical supply requirements (voltage, current, supply cable size, starting current, fusing),
  - hydraulical supply requirements (max. pressure, oil quality and amounts),
  - pneumatical supply requirements (max. pressure),
  - means the user has to provide (power system, mains switch, guards),
  - final checks.
- Information about the use
  - description of controls (raising, lowering),
  - description of safety devices (safety catch, levelling system, emergency stop, rope or chain failure),
  - adjustment procedures (if any),
  - emergency stop procedures, restarting.
  - operating modes (independent / common control), safety features in different operating modes,
  - protection against unauthorized use (use of key switches),
  - rules for handling of special conditions (after tripping of protective devices, emergency lowering)
  - warning of dangerous parts (high voltage, high pressure),
  - error handling procedures (tripping of fuses, desynchronisation),
  - charging of batteries (ventilation),
  - safety instructions (e.g. no persons under the lift during movement),
  - authorization for operating.
- Maintenance and repair
  - necessary spare parts,
  - service intervals,
  - special safety precautions during maintenance and repair,
  - safety inspections and tests.
- User information
  - parts lists (electrical, hydraulical, pneumatical),
  - schematics (electrical, hydraulical, pneumatical),
  - pictures, photos, exploded view

Page 1/1 of CNB/M/08.008 Rev 03

MACODAURIE MACODAURIE MACONNERY 9 NOTIFIED 10	CO-ORDINATION OF NC Machinery Directive 2006/42 RECOMMENDATIO	CNB/M/08.008 Revision: 03 Language: EN			
Number of pages: 1	Date: 25.10.1996	To be approved by:	Approved on:		
Origin: VG8 Vehicles serv	ricing lifts	☑ Vertical Group	12.04.2010		
		Horizontal Committee	17.04.1996		
		To be endorsed by: ☑ Machinery Expert Group	Endorsed on: 08.06.1998		
Overtien related to Direct			Other: -		
Question related to: Direc	tive 2006/42/EC Article: -	EN/prEN: pr EN 1493 N12	Other		
Annex: -	EHSR (1): -	Normative clause: -	Other clause: -		
		CEN TC concerned: TC 98 WG 3			
Key words: Auxiliary Liftin	g Systems				
Question:					
Safety requirements for auxiliary lifting systems installed on vehicle lifts: Are safety devices for preventing <ul> <li>desynchronisation of lifting and lowering,</li> <li>inadvertent lowering in case of a failure in the lifting system</li> </ul> also required for these systems? Solution:					
<ul> <li>For auxiliary lifting systems on vehicle lifts the same safety devices are required as necessary for the vehicle tilts. The reason for that are hazards to be taken into consideration from <ul> <li>positioning the head and arms by manipulations in upper position of the lift</li> <li>lifting vehicles without wheels in case of using auxiliary lifts.</li> </ul> </li> </ul>					
(1) Essential health and sat	fety requirement				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/08.015 Rev 03

MACRINICS Y	CO-ORDINATION OF NO Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/08.015 Revision: 03 Language: EN		
Number of pages: 1     Date: 13.11.2000       Origin: VG8 Vehicles servicing lifts		To be approved by: ☑ Vertical Group ☑ Horizontal Committee To be endorsed by:	Approved on: 12.04.2010 11.12.2003 Endorsed on: 01.07.2004	
Question related to: Direc	tive 2006/42/EC Article: -	Machinery Expert Group EN/prEN: EN 1493:1998	Other: -	
Annex: -	EHSR (1): -	Normative clause: 5.16.3 CEN TC concerned: TC 98 WG 3	Other clause: -	
Key words: Rails, foot pro	tectors, protection against pinching points			
Question:				
How shall foot protectors	to be designed?			
Solution:				
Solution: The design shall take into account that a person may step on it in the ground position, without loosing its safety function. It does not to be designed to withstand an obstruction when lowering.				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/08.016 Rev 03

		raye	e 1/1 of CINB/IVI/08.016 Rev 03	
State Day	CO-ORDINATION OF NOTIFIED BODIES		CNB/M/08.016 Revision: 03	
MACHINERY	Machinery Directive 2006/42	Language: EN		
NOTIFIED TO	RECOMMENDATION FOR USE			
Number of pages: 1     Date: 06.05.2002       Origin: VG8 Vehicles servicing lifts		To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee Committe	Approved on: 12.04.2010 11.12.2003 Endorsed on: 01.07.2004	
Question related to: Direct	tive 2006/42/EC Article: -	EN/prEN: EN 1493:1998	Other: -	
Annex: -	EHSR (1): -	Normative clause: 5.6.4.2 CEN TC concerned: TC 98 WG 3	Other clause: -	
Key words: Chassis suppo	orting vehicle lift for road vehicles, load distributi	on		
Question:				
vehicle direction) when lift	d distribution plates and impose restriction on p ing?	osmoning of road venicle on the lift (r	or example restriction on the	
Solution:				
NO.				
The calculations for a chassis supporting vehicle lift shall be carried out in the most unfavourable configuration, in order to meet the essential health and safety requirements of the Machinery Directive. For structural design purposes vehicle positioning on load carrying devices shall be considered in both directions. Restriction on the vehicle direction given in load distribution plates and in the instructions of the lifts for normal road vehicles do not meet the principles of safety integration of Machinery Directive. Restrictions may only be allowed for special vehicle lifts (e.g. for fork lift trucks, dumpers, rail bound vehicles etc. according to the clause 5.6.4.3 of EN 1493:1998+A1).				
(1) Essential health and saf	ety requirement			

Page 1/2 of CNB/M/08.018 Rev 05

MACRINER Y 9 MOTIFIED NOT	CO-ORD Machiner REC	CNB/M/08.018 Revision: 05 Language: EN			
Number of pages: 2	Date: 03.07.2023		To be approved by:	Approved on:	
Origin: VG8 Vehicles serv	icing lifts		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Expert Group</li> </ul>	25.04.2013 26.06.2013 Endorsed on: 22.11.2013	
Question related to: Direc	tive 2006/42/EC Article	): -	EN/prEN: EN 1493:2010	Other: -	
Annex: I	EHSR	R (1): 1.1.2.	Normative clause: 5.7.4.3. a) and b) CEN TC concerned: CEN TC 98	Other clause: -	
Key words: Load distributi	on on two post lifts with load	d-bearing arms			
Question:					
Is it necessary for two post lifts, where both arms of one column could swing in the same direction, to consider this position for the stability and strengths calculation? Has the manufacture take into account such a manner of use as normal use ore as foreseeable misuse in accordance with the machinery directive section 1.1.2. annex 1. Solution: The standard requires that the long arms must be in the maximum telescoped position with a width of 1 m of the pick-up points. The short arms should be "in the position which gives the worst condition". Normally, vehicles are raised so that the center of gravity is close to the connecting line between the two lifting columns. But there are many vehicle servicing lifts where it is possible to raise a vehicle with all four arms pivoted in the same direction (see figure 1). Especially at asymmetric two post lifts or lifts with double swing arms, it is possible, to reach such a position and to lift vehicles.					
pick-up-area					
Figure 1 asymmetric post lift					

Do to the position centre of gravity of the load the bending moment is significantly larger than during pick up a vehicle in a central position where the arms of the post are pivoted in different directions. Due to the very different design of the mounting points of the various vehicles and the differences in design of the lifts, it is very difficult to assess which vehicles can be lifted in detail. The practice shows, that especially smaller cars can be lifted in such a position.

Solution:

The answer to both questions is yes. Since it is possible to lift cars in this position and the standard requires in 5.7.4.3 a) and b):

"On vehicle lifts with carrying arms the rated load shall be distributed on the four corners of a rectangle with the dimensions of 100 cm (width) with the maximum load at the maximum length of the longest arm and the short arm in the position which gives the worst condition."

The manufacturer has to consider this position in the safety design of its vehicle lift.

VG 8 sees two basic approaches:

- prevention of lifting in such a position (for example, by limiting the swiveling range of the arms, a safety device prevents a lifting movement in this position or a load moment limiting device)
- sufficient stability and attachment of the vehicle lift, so that the rated load can be lifted safely also in this position

Calculation - permissible stresses

The normal values of permissible stresses are given in Annex A of EN 1493:2010. A safety factor of 1,5 must be achieved.

In view of the situation, that in this position usually only smaller vehicles can be lifted, which do not reach the rated load of the lift, it is acceptable in that case to reduce the safety factors for the calculation of stability and strength.

Under the most unfavorable loading conditions - all four arms on one side of the lift, long arms in maximum ejection position, pick up points in wheel track direction 1m distance, pick up points in wheelbase direction 1m distance, rated load according section 5.7.4.3 a) and b) at least a minimum safety factor of 1,2 is acceptable. The vehicle lift has to be sufficiently strong and stable during movement of the load. In that case an additional warning label on the lift and a appropriate note in the user manual shall include the prohibition of the use in this position

In the position distance in wheelbase direction 1,4m (normative rectangle) a safety factor of 1,5 must be kept.

If the use of the lift in this way (four arms in one direction) is approved by the manufacturer, a reduction of lift capacity in this position by labelling is not allowed.

(1) Essential health and safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/08.023 Rev 03

MACONNERY 9 ******	CO-ORDINATION OF N Machinery Directive 2006/4 RECOMMENDATIO Date: 03.07.2023	CNB/M/08.023 Revision: 03 Language: EN		
Number of pages: 1 Origin: VG8 Vehicles serv		To be approved by:         ☑ Vertical Group         ☑ Horizontal Committee         To be endorsed by:         ☑ Machinery Expert Group	Approved on: 08.06.2021 16.12.2021 Endorsed on: 23.03.2023	
Question related to: Direc	tive 2006/42/EC Article: -	EN/prEN: 1493:2010	Other: -	
Annex: -	EHSR (1): -	Normative clause: 6.1.5.2 CEN TC concerned: -	Other clause: -	
Key words: Maximum incl	ination of pickup plates and pads			
lifts during the load test a	eptable inclination to horizontal for the surface coording to section 6.1.5.4	e of pick up pads or plates of chassis s	upporting vehicle servicing	
Solution: The maximum angle, measured with an instrument with an accuracy of at least +/- 0,5 degrees, shall be 5 degrees to horizontal. After removal of the test load, no permanent deformation must be visible. Test conditions. - Lift the test load with load supporting points in all positions which create maximum stress in any load bearing part. - Rated load as test load, distributed according to 5.7.4.3 - Raise load until fully supported on pick up pads or surfaces and maintain in position for one minute - Inclination to be measured whilst load remains on lift - Test load - Rubber block - Rubber block - Rubber block				
2 post lift Chassis supporting platform lift				

(1) Essential health and safety requirement

Page 1/1 of CNB/M/08.024 Rev 04

MACHINERY 9 Nomple 9 1000	CO-ORDINATION OF NC Machinery Directive 2006/42 RECOMMENDATIO Date: 03.07.2023	CNB/M/08.024 Revision: 04 Language: EN Approved on:		
Origin: VG8 Vehicles servicin	g lifts	<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> <li>To be endorsed by:</li> <li>✓ Machinery Expert Group</li> </ul>	21.12.2021 14.06.2022 Endorsed on: 23.03.2023	
Question related to: Directive	2006/42/EC Article: -	EN/prEN: 1493:2010	Other: -	
Annex: -	EHSR (1): -	Normative clause: 6.1.3 CEN TC concerned: -	Other clause: -	
Key words: Welding examina	tion			
Question: How should a Body Examiner validate conformity with EN 1493:2010 6.1.3 Manufacturing check c) welding has been performed according to the drawings and 2006/42/EC Annex I 1.2.3 Risk of break-up during operation and 4.1.2.3. Mechanical strength for lifting equipment.				
Solution:				
Mechanical drawings for equipment must include clear and comprehensive indication of the welding to be used for fabrication. This must include specification of welder qualifications, procedures, material and equipment to be used, either specifically on a drawing or as a general specification for manufacture				
The Notified Body Examiner must visually compare a representative sample of the welding on the equipment being examined with that specified in the drawing. Based on informal visual inspection, where the Notified Body examiner has reason to suspect that welding is not of good quality, they must request credible NDT reports on welds which concern them.				
After testing at 150% proof load, NB examiners must visually examine welds likely to have been subjected to higher stresses and check for evidence of deformation or cracking. Again, if the examiner has concerns, they must request credible NDT reports for selected welds.				
(1) Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.				

Page 1/1 of CNB/M/08.025 Rev 03

MAChinery Directive 2006	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments RECOMMENDATION FOR USE				
Number of pages: 1     Date: 03.07.2023       Origin: VG8 Vehicles servicing lifts	To be approved by: ☑ Vertical Group	Approved on: 31.05.2022			
	<ul> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Expert Group</li> </ul>	14.06.2022 Endorsed on: 23.03.2023			
Question related to: Directive 2006/42/EC Article: -	EN/prEN: 1493:2010	Other: -			
Annex: - EHSR (1): -	Normative clause: 6.1.2	Other clause: -			
	CEN TC concerned: -				
Key words: Structural Calculations					
Question:					
How should a Notified Body Examiner validate conformity with EN 149	03:2010 6.1.2 Design check.				
The documents shall give all necessary information to enable: f) the structural calculations to be checked; and 2006/42/EC Annex I 1.3.2. Risk of break-up during operation and 4.1.2.3. Mechanical strength for lifting equipment					
Solution:					
<ul> <li>The Notified Body examiner shall check that:</li> <li>structural calculations are available in the Technical File</li> <li>the calculations have been carried out competently</li> <li>the calculations demonstrate that all the relevant loadings mentioned in EN 1493:2010 5.7 Structural Design of the Load Supporting Structure have been considered</li> <li>the calculations demonstrate that under worst case loading, no parts exceed the permissible stresses in EN 1493:2010 Annex A.</li> </ul> (1) Essential health and safety requirement					

notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/09.206 Revision 04 Language: E	
Date of first stage: 02/04/20	03	To be approved by:	Approved on:	
Origin: VG9 Lifting persons device (LPD)		<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	13/04/2010 11/12/2003	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 14/03/2007	
Question related to: Directiv	ve 2006/42/EC Article: 12 (3)	EN/prEN:	Other:	
Annex: IX	ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: Lifting Persons	Device (LPD), Suspended Access Equipment, m	odular construction, certification		
Question: Is it possible to certify the modules of a Suspended Access Equipment separately, provided the limits of application and conditions of use are clearly laid down?				
Solution: NO "Temporary Suspended Platforms" designed on a modular basis in order to allow actual installations to be easily configured according to the needs on site can only be certified as a complete machine. It's up to the negotiation between the applicant and the NB to define which configuration of the machine represents in the best way all possibilities and which is then subject of the type examination procedure. The manufacturers instructions, the examination of which is part of the EC type-examination, must contain in detail descriptions which modules can be combined and how that has to be done to allow different configurations. A positive passing of the EC type-examination then leads to <u>one</u> certificate of the tested configuration including all possible combinations, described in the instructions. A modification of a module/component or the addition of a new one requires information from the manufacturer to the NB having issued the certificate and which has to decide, whether this modification needs renewal of the certificate or not. The idea, to regard all modules/components as interchangeable equipment and certify them independently, was not taken as an appropriate method of certification for these wishes of manufacturers to be more flexible.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

(1) Essential safety requirement

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MACHINERY 0, NOTIFIED 8001	Machinery Directive 2006/42/EC + Amendment		CNB/M/09.207 Revision 10 Language: E	
Date of first stage: 17/07/1998	3	To be approved by:	Approved on:	
Origin: VG9 Lifting persons device (LPD)		☑       Vertical Group         ☑       Horizontal Committee	13/04/2010 26/11/2009	
		To be endorsed by:      Image: Machinery Working Group	Endorsed on: 26/05/2010	
Question related to: Directive	2006/42/EC Article:	EN/prEN:	Other:	
Annex: IV	ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: Type-examination	1			
Question: What is the range of an EC type-examination for a machine, where the lifting of persons is not the primary function?				
Solution:				
	meeting of the Council (internal market) held			
	ssion agree that the type examination of a de machine which includes the lifting device."	vice for the lifting of persons shall be	limited to the lifting device	
VG9 understands this statem	ent as follows:			
for lifting persons a	changeable equipment the handling is explai nd equipment used with machinery designed ite: http://ec.europa.eu/enterprise/sectors/me	I for lifting goods for the purpose of lif	ting persons" available on	
<ul> <li>In case of an integral part of a machine, besides the examination and tests of the lifting appliance itself the EC type-examination has to include also those functions, components or aspects of the whole machine, the operation or malfunction of which affect the safety of lifted persons.</li> </ul>				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	Machinery Directive 2006/42/EC + Amendment		CNB/M/09.209 Revision 04 Language: E	
Date of first stage: 02/04/20	03	To be approved by:	Approved on:	
Origin: VG9 Lifting persons	device (LPD)	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	13/04/2010 11/12/2003 Endorsed on:	
	0000/40/50	Machinery Working Group	01/07/2004	
Question related to: Directiv		EN/prEN:	Other:	
Annex: VI	ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: EC type-examin	ation, work platform, loader crane			
Question: What is the scope of a EC type-examination of a work platform installed on the boom of a loader crane on a vehicle?				
Solution: In this case the notified body shall check conformity <u>of the entire device</u> for lifting persons constituted by the work platform, the loader crane and the supporting chassis with the Essential Health and Safety Requirements (EHSRs) of the directive 2006/42/EC (in particular: resistance, stability, control of the placing of the stabilisers). If the platform is designed for use on several models of cranes the EC type-examination certificate shall list the models concerned. The certificate shall also state the models of supporting chassis on which the conformity of the Lifting Persons device has been checked.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

(1) Essential safety requirement

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MACHINERY 9. NOTIFIED 800	Machinery Directive 2006/42/EC + Amendment		CNB/M/09.305 Revision 06 Language: E		
Date of first stage: 06/03/19	98		To be approved by:	Approved on:	
Origin: VG9 Lifting persons	device (LPD)		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	13/04/2010 11/06/1998 Endorsed on:	
	0000140/50		Machinery Working Group	09/04/2001	
Question related to: Directiv	/e 2006/42/EC	Article:	EN/prEN:EN 280:2001+A2:2008	Other:	
Annex: I		ESR (1): 6.3.2	Clause: 5.6.1	Other clause:	
			CEN TC concerned:		
Key words: Mobile Elevated	Workplatform (M	IWEP), levelling system	L		
		m (mechanical or hydraulic) a m	anual adjustment of the platform le	vel acceptable, which may	
cause a platform level or m	ore than 5° ?				
Solution: Yes, provided that in a master-slave levelling system and in an independent hydraulic or mechanical levelling system a manual adjustment is speed limited to 0,5°/s.					
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY 0, NOTIFIED BODY	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/09.306 Revision 05 Language: E					
Date of first stage: 06/03/19	Approved on:						
Origin: VG9 Lifting persons	device (LPD)	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	13/04/2010 11/06/1998				
		To be endorsed by: Machinery Working Group	Endorsed on: 09/04/2001				
Question related to: Directive	ve 2006/42/EC Article:	EN/prEN:EN 280:2001+A2:2008	Other:				
Annex: I	ESR (1): 6.3.2	Clause: 5.6.1	Other clause:				
		CEN TC concerned:					
Key words: Mobile Elevated	I Workplatform (MWEP), levelling system	I					
Question: : Is in case of a hydraulic levelling system (master - slave principle) a safety device (other than lock valves) required, which stops the movement of the extending structure in case of hose failure of the master-slave hydraulic circuit, when the level of the platform exceeds 10°? Solution: No. Levelling systems using the master - slave principle and being equipped with lock valves do not cause an unintended movement in case of hose failure and locks the platform.							
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC							

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY 0, NOTIFIED BODY	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	CNB/M/09.307 Revision 04 Language: E				
Date of first stage: 28/04/19	99	To be approved by:	Approved on:			
Origin: VG9 Lifting persons	device (LPD)	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	13/04/2010 24/05/2000 Endorsed on:			
		Machinery Working Group	09/04/2001			
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:			
Annex: I	ESR (1): 6.3.1	Clause:	Other clause:			
		CEN TC concerned:				
Key words: Lifting Persons	Device, safety gear					
Question: Do lifting persons	Question: Do lifting persons device with positive driving units need safety gears ?					
Solution: It is a general rule, that uncontrolled movements of the load carrying unit of LPD due to wear or failure in the driving unit need to be avoided. Appropriate means are overspeed governed safety gears, rupture valves, lock valves, redundant drive units, safety nuts etc. Standards for LPD address these means. Design of a driving unit taking into account factors to increase the loads and forces to be taken by them is not regarded as appropriate measure against uncontrolled movement.						
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC						

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/09.309 Revision 04 Language: E				
Date of first stage: 28/04/19	Approved on:					
Origin: VG9 Lifting persons	device (LPD)	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	13/04/2010 24/05/2000			
		To be endorsed by: Machinery Working Group	Endorsed on: 09/04/2001			
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:EN 280:2001+A2:2008	Other:			
Annex: I, IV	ESR (1): 1.1.2, 1.6.2, 6.3.2	Clause: 5.6.3	Other clause:			
		CEN TC concerned:				
Key words: Mobile Elevated	Work Platform, MEWP, access, movable guard,	abnormal use				
Question: Is it acceptable to access to work platforms ?	Question: Is it acceptable to use manually liftable bars returning into the safeguarding position by gravity as means as protection at the access to work platforms ?					
Solution:						
Yes. The possibility of deliberate fixing in the open position of protection means at the access to work platforms needs not to be regarded as abnormal use which has to be prevented by construction.						
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC						

(1) Essential safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/09.310 Revision 05 Language: E		
Date of first stage: 28/04/19	99	To be approved by:	Approved on:		
Origin: VG9 Lifting persons	device (LPD)	<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> </ul>	13/04/2010 24/05/2000		
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 09/04/2001		
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:		
Annex: I					
Annex. I	ESR (1): 4.1.2.4, 6.1.2	Clause:	Other clause:		
		CEN TC concerned:			
Key words: Man rider winch	nes, one rope suspension				
Question: Is it acceptable to use one-rope suspension in person lifting device?					
Solution:					
At silo access equipment ar	nd man rider winches doubled suspension eleme re on these equipment one-rope suspension is a		cceptable, e. g. twisting,		
•	pes with at least 10mm diameter are used in orde		st mechanical damage,		
2. the factor of	utilisation is at least 10,		-		
3. the design of	f the rope drive is in accordance with prEN 280:1	998, Annex C, with the load collectiv	ve "heavy",		
4. there are pro	otective means preventing derailing of the rope fro	om the drum or any pulley,			
5. the winding u	up on the drum is governed by a spooling device,				
6. there is a sla	ick-rope device				
<ul> <li>7. the rope is suitably protected against corrosion and other environmental influences and</li> <li>8. the instructions for use are clearly stating <ul> <li>the need of periodical inspections of the device</li> <li>the need of inspection of the rope before starting work where the winch was not used for a longer period of time taking into account the provisions laid down in the EU-Directive 2009/104/EC and environmental conditions and</li> <li>criteria for the replacement of the rope.</li> </ul> </li> </ul>					
These provisions do not cov the Machinery Directive.	These provisions do not cover all aspects of these kind of LPD. Other aspects have to be subject of a risk assessment in accordance with the Machinery Directive.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

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MACTINETY On NOTFIED SOUTH	Machinery Directive 2006/42/EC + amendments		CNB/M/09.318 Revision: 07 Language: EN
Number of pages: 2	Date: 03.07.2023	To be approved by:	Approved on:
Origin: VG9 Lifting persons	device (LPD)	Vertical Group	12.06.2015
		Horizontal Committee	29.06.2016
		To be endorsed by:	Endorsed on:
		☑ Machinery Expert Group	23.03.2023
Question related to: Directive	e 2006/42/EC Article: -	EN/prEN: -	Other: -
Annex: I	EHSR (1): -	Normative clause: -	Other clause: -
		CEN TC concerned: -	
Key words: crushing hazard	s, ram frame.		
Question:			

Which specific requirements apply for service lifts used in wind turbines?

Solution:

#### Scope and definition:

A wind turbine is a machine in the scope of the directive 2006/42/EC because it contains moving parts fitted with a drive system (rotating of the yaw-system and/or rotor blades). When the wind turbine is equipped with a lift, the lifting equipment, including the landings and suspension, are subject to annex IV.17. A lift in a wind turbine is not only used for accessing the landings but also for other purposes like maintenance and inspections.

#### Communication system:

As a minimum, in view of its use in remote locations, a two way communication system has to be **prescribed** during normal use as well as during emergency operations.

#### Carrier:

Due to the lack of operating space (crushing and shearing hazards may occur when there is no opening distance of minimal 0.5 m is feasible) and for the protection against falling objects, usually a full enclosure of the carrier is necessary.

The carrier must be equipped with an emergency stop.

#### Opening carrier door(s) between landings:

According to the requirements of Directive 2006/42/EG chapter 6.4.1 "...The door(s) must remain closed when the carrier stops between landings and where there is a risk of falling from the carrier...", the opening of the carrier door(s) between the landings is not permitted and therefore a guard locking device preventing the opening of the door(s) until the carrier reaches a landing, is necessary.

The carrier door must be equipped with a device which prevents movement of the carrier in case the door is in an open position.

In practice, stopping between landings and opening of the carrier door may be required for purposes like maintenance. In that case, the following requirements exist:

- as soon as the carrier door is opened (by operating an additional separate handling device which is not used during normal operation
  of the lift and unlocks the carrier door lock) travelling of the carrier shall be stopped as long as the carrier door is open. This
  mechanism must not be easily accessible and be provided with a marking
- when the carrier door is opened, prevention of falling of persons out of the carrier is required and leaving and entering are not allowed excluding during rescue operations.

In view of the use in remote locations, the opening of the carrier door for rescue operations shall be possible from both the in- and outside of the carrier.

#### Solution continued:

### Protection of persons in the travel zone:

Crushing and shearing hazards are relevant when the distance between carrier and the rescue ladder is  $\leq$  0,5m. When there is the possibility of hazardous contact between the moving carrier and persons on the ladder and at the landing gates, safeguarding at the floor and roof of the carrier must be present. The performance level shall be according to EN ISO 13849-1. Following the path S2–F1–P2, the result will be PL=d.

If the distance between carrier and the rescue ladder is more than 0.5 m, the safeguards can be used to protect the persons at the landings. When the full height landing gate is changed into a reduced height landing gate with minimum height of 1.1 m, the performance level shall be according to EN ISO 13849-1. Following the path S2–F1–P1 the result will be PL=c.

### Landings and landing gates:

Landings are places for entering or leaving the carrier. This can be at the top or the bottom and at intermediate stops of the travel zone.

If the distance between the carrier and the landing gate is smaller than 0.5 m, a full height landing gate is required to prevent shearing and crushing hazards. If the distance between the carrier and the landing gate is smaller than 0.5 m, a reduced height landing gate (minimum height 1.1m) is allowed if the carrier is safeguarded at the top and bottom and has a flat surface. In this case, the performance level shall be according to EN ISO 13849-1. Following the path S2–F1–P1 the result will be PL=c.

The distance from the landing gates to the landing sill must be  $\leq 0.15$  m or else a safety device which detect and protect persons/obstacles must be present.

# Interlocking of landing gates:

The risk assessment for the landing gates must cover the intended access to the carrier as well as the intended access to a ladder (e. g. for rescue operations):

- The landing door can be opened by a primary mechanism (bar/catch) if the carrier is present. The landing door cannot be opened by primary mechanism when the carrier is absent. The position of the carrier at the landing shall be detected making sure the carrier is in the correct travel zone for the opening of the door(s).
- The landing door can be opened when, in case of a rescue operation, the operator wants to use the ladder by operating an additional mechanism e. g. second bar which is not used during normal operating the lift; this feature shall be considered in the risk assessment. This additional opening mechanism is only necessary for opening the landing door when the carrier is not present at the landing. This mechanism may not to be easily accessible and be provided with a marking

# **Rescue conception:**

The manufacturer of lifting equipment for the use by persons within wind turbines shall ensure that a contingency plan for rescue is available. The following points shall be considered:

- the person that has to be rescued is not able to assist during rescue (e.g. unconscious),
- adequate anchoring devices for the rescue teams in and on the carrier EN 795,
- changing positions from the carrier to the ladder shall be possible in a safe way,
- ergonomic solutions shall be preferred,
- a carrier shall have a device for lowering the carrier in case of emergency.

(1) Essential health and safety requirement

SELN CO-ORDINATION	CO-ORDINATION OF NOT Machinery Directive 2006/42/	CNB/M/09.401 Revision 08			
MACHINERY 9	RECOMMENDATION	FOR USE	Language: E		
NOTIFIED BOD					
Date of first stage: 02/04/20	03	To be approved by:	Approved on:		
Origin: VG9 Lifting persons device (LPD)		☑ Vertical Group	13/04/2010		
		☑ Horizontal Committee	11/12/2003		
		To be endorsed by:	Endorsed on:		
		Machinery Working Group	01/07/2004		
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN:EN 280:2001+A2:2008	Other:		
Annex: I	ESR (1): 1.2.4	Clause: 5.7.5	Other clause:		
		CEN TC concerned: TC 98 WG 1			
Key words: MEWP, control of	devices, emergency stop, override				
Question: Is it allowed that a MEWP is equipped with a control at the base or ground level, which functions as an override for the emergency stop control situated on the work platform for the reason of rescuing of injured or incapacitated operators?					
Solution:					
CEN/TC 98/WG 1 has studied the situation in its meeting 05.96. It was felt, that the trapping of a person in the work platform can happen due to different reasons, e.g. plucking out the energy supply, actuating the emergency control device, etc. The result in these cases is an unpleasant or awkward situation but not a direct risk to the persons. Therefore a need to override the emergency stop device at the control panel cannot be seen. The standard EN 280:2001+A2:2008 states in its foreword that it is assumed that persons on the work platform in case of power supply failure are not incapacitated and can assist in the operation of the overriding emergency device.					
overriding emergency devic an overriding cannot be igno	Nevertheless there may be situations where the operator is incapacitated and the platform emergency stop pressed. In this situation the overriding emergency device may be too slow to recover the operator from the ground especially for high MEWPs. Therefore the need of an overriding cannot be ignored. Any overriding of the emergency stop control at the work platform of a MEWP shall require a deliberate action on a device being a safety device, independent from the selection control device and protected against unauthorised use.				
	shall not be possible on MEWPs which are equip 1.2.5 to bypass safety functions.	oped with a mode selection device a	acc. to Machinery Directive		
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					
(1) Essential safety requirem	nent				

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE			CNB/M/09.501 Revision 05 Language: E	
Date of first stage: 28/04/19	Approved on:				
Origin: VG9 Lifting persons			To be approved by: ✓ Vertical Group ✓ Horizontal Committee To be endorsed by: ✓ Machinery Working Group	13/04/2010 24/05/2000 Endorsed on: 09/04/2001	
Question related to: Directiv	0006/42/EC	Article:	EN/prEN:	Other:	
	78 2000/42/EC				
Annex: I		ESR (1): 1.5.10, 1.5.11	Clause:	Other clause:	
			CEN TC concerned:		
Key words: Radiation, EC-ty	ype examination,	EMC directive			
Question: Does EMC direct	ive cover all aspe	cts of radiation addressed in 1.5	5.10 and 1.5.11 of Annex I Machine	ry directive?	
Solution:         The provisions of the EMC-Directive do not cover all aspects of radiation addressed in 1.5.10 and 1.5.11.         Especially regarding immunity of controls of LPD the following aspects need to be taken into consideration during type-examination:         1.       Light barriers shall not be influenced by light from the environment (sun, artificial light),         2.       UV-radiation has influence on components made of plastic,         3.       Laser beams can be dangerous for persons in the environment of the machine,         4.       Sensors used as warning devices related to distances may be made inoperable,         5.       Radio controls used in the environment may cause uncontrolled movements,         6.       Ionised radiation may occur in case of fire,         7.       Intended radiation like from mobile phones may cause malfunctions.					
see also data sheet CNB/M/00.502 Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC					

		Page	e 1/1 of CNB/M/09.502 Rev 02		
	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments RECOMMENDATION FOR USE		CNB/M/09.502 Revision: 02 Language: EN		
Origin: VG9 Lifting persons device (LPD)	.07.2023	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:         ☑       Machinery Expert Group	Approved on: 01.06.2015 29.06.2016 Endorsed on: 23.03.2023 Other: -		
Question related to: Directive 2006/42/EC Annex: II	Article: - EHSR (1): 1.3.2 Risk of break-up in operation 6.1.1 Mechanical Strength	EN/prEN: a) EN 1808 Normative clause: - CEN TC concerned: a) CEN/TC 98	Other clause: - Lifting platforms		
Key words: lifting platforms, lifts, gripping d	evice/safety gear, tripping devi	ce / overspeed governor, safety devic	ce, lifting persons		
Question: Safety devices in machinery for lifting persons can consist of components which may be affected by wear. For example a safety gear triggered by an overspeed governor. When wear of a component can lead to a complete loss of functioning of the safety device, extra measures are necessary. The manufacturers usually specify a safe life period for these components. The relevant standard for this type of machine (EN1808:2015) has no additional requirements for testing and evaluation of safety relevant components affected by wear. Also this standard demands no determination of a lifetime of safety relevant components in the case these components are affected by wear.					
Solution: The claimed lifetime of all safety components that are affected by wear needs to be verified during a type examination. Basis for the verification is the B <sub>0,01d</sub> value of the tested components which needs to be higher than the prescribed overhaul/lifetime by the manufacturer. The B <sub>0,01d</sub> value is based on the B <sub>10d</sub> value used by EN ISO 13849-1:2015. The B <sub>0,01d</sub> value can be determined by calculation and verified by testing.					
I) Essential health and safety requirement					

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MACHINERY OTHED 800	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/11.017 Revision 05 Language: E
Date of first stage: 10/04/1997		To be approved by:	Approved on:
Origin: VG11 Safety components		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Working Group</li> </ul>	25/10/2010 11/06/1998 Endorsed on: 09/04/2001
Question related to: Directive 2006/42/EC Article:		EN/prEN:	Other:
Annex: IX	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: EC type-examination, pre-standards			
Question: Should in case of EC type-examination European pre-standards (prEN) be used rather than national standards?			
	dards should be used if they represent much mo procedure is accepted by the manufacturer.	re the state of the art.	
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC			

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY OTHED BO	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/11.027 Revision 08 Language: E
Date of first stage: 10/04/19	97	To be approved by:	Approved on:
Origin: VG11 Safety compo	nents	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	25/10/2010 14/12/2010
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 23/05/2011
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN: EN 574:1996	Other:
Annex: IV-21	ESR (1):	Clause: 5.7.1.	Other clause:
		CEN TC concerned: TC 114	
Key words: two-hand contro	ol devices, synchronous actuation		
Key words: two-hand control devices, synchronous actuation Question: For type III two-hand control devices, EN 574 requires synchronous actuation of both buttons in order to prevent defeating. This means that both buttons have to be actuated within a defined time range not larger than 0.5 sec. EN 574 allows time ranges smaller than 0.5 sec, but if the time range is too short, the operator has to concentrate highly on the synchronous actuation of the two buttons. From ergonomic aspects, this is bad. What is the minimum value of the time range? Solution: The requirement given in the Machinery Directive, Annex I, 1.1.6. "Under the intended conditions of use, the discomfort, fatigue and physical and psychological stress faced by the operator must be reduced to the minimum possible, taking into account ergonomic principles" has to be observed. The Technical Committee responsible for EN 574 will be asked to specify a minimum value for the time range. In the meantime, for ergonomic reasons, a minimum value of 0.25 sec should be used.			ate highly on the ne time range? comfort, fatigue and account ergonomic

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/11.031 Revision 09 Language: E
Date of first stage: 01/11/20	01	To be approved by:	Approved on:
Origin: VG11 Safety compo	nents	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	25/10/2010 14/12/2010
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 23/05/2011
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN: EN 61496-1/A2/Ed. 2/ CDV:2010	Other:
Annex: IV-19	ESR (1):	Clause: 4.2.2.3.	Other clause:
		CENELEC TC concerned: TC 44X	
Key words: ESPE Type 2 w	ith PLC as means of periodic test		
Key words: ESPE Type 2 with PLC as means of periodic test Question: A Type 2 ESPE (Electro-Sensitive Protective Equipment) consists of an assembly of a sensing device, a controlling/monitoring device and one or more Output Signal Switching Device(s) (OSSDs), which shall perform a test to reveal a failure to danger at power-on of the ESPE before going to the ON-state and at each reset as a minimum. This assembly can be implemented in one device, they can also be separated in two devices. In the latter case the testing and monitoring functionality can be implemented in one device, they can also be separated in two devices. In the latter case the testing and monitoring functionality can be performed in a non-safety-related PLC by software while the ESPE safety function is processed independently of the non-safety-related PLC. For the sensing device in combination with the controlling/monitoring device and the OSSD(s) an EC type-examination certificate can be issued. Is it permissible to issue an EC type-examination certificate for a sensing device intended to be combined with any customary non-safety- related PLC as a safety component according to Annex IV, 19 (Type 2 ESPE)? Solution: Yes, the periodic tests of the safety function during operation may be implemented in a non-safety-related PLC, if the following requirements are met:     the testing is dynamic i.e. both high and low states are checked during the testing;     the software is as a known module protected from manipulation by the end user;     the software is as a known module protected from manipulation by the end user;     the different elements which constitute the ESPE;     how the fixed software module has to be implemented in the user program An EC type-examination shall be carried out on this safety component consisting of the sensing device with an OSSD(s), the fixed software module, and a designated PLC with a Secondary Switching Device (SSD). The owner of the certificate is considered as the manufacturer of the ESPE. Depending on the applicat			er at power-on of the ESPE the testing and monitoring ssed independently of the anation certificate can be any customary non-safety- if the following
(1) Eccential cafety require	1		

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MACHINERY <sup>0</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>N</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/11.032 Revision 05 Language: E
Date of first stage: 24/09/20	02	To be approved by:	Approved on:
Origin: VG11 Safety compo	nents	<ul><li>✓ Vertical Group</li><li>✓ Horizontal Committee</li></ul>	25/10/2010 03/03/2004
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 24/12/2004
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN: EN 61496-1:2004 + A1:2008	Other:
Annex: IV-19	ESR (1):	Clause: 4.2.5, A 5.4, A 6.4, A 7.4	Other clause:
		CENELEC TC concerned: TC 44X	<u>K</u>
Key words: Arrangement of	visual indicators		
Key words: Arrangement of visual indicators         Question:         EN 61496-1:2004 +A1:2008 demands that ESPE (a) have visual indicators for the OSSD (b) status (red/green) and for the start/restart interlock status (yellow). There is no specification about the location where these visual indicators are to be arranged         Where shall these visual indicators be arranged?         Abbreviations:       (a) ESPE: Electro-sensitive protective Equipment         (b) OSSD: Output Switching Signal Device         Solution:         All visual indicators shall provide sufficient information for the machine operator.         For this reason the visual indicators for start / restart condi iton, mute status and blanking shall be arranged in such a way t hat they are readily visible from any position of the operator during normal operation of the machine for which the ESPE (a) is intended as a safeguard. Indicators for the actuation of the sensing device and output status of the OSSDs (b) are intended for installation and mainten ance and for that reason do not need to be visible from all positions by the operator.         (a) ESPE: Electro-sensitive protective Equipment         (b) OSSDs: Output Switching Signal Devices			
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC			

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MACHINERY OR NOTIFIED NOOT	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments		CNB/M/11.033 Revision: 09 Language: EN	
Number of pages: 1 Origin: VG11 Safety comp		ie: 03.07.2023	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee Committe	Approved on: 22.05.2019 16.12.2021 Endorsed on: 23.03.2023
Question related to: Direc Annex: IV - 21	tive 2006/42/	/EC Article: - EHSR (1): 1.2.1.	EN/prEN: EN 574 and EN ISO 13851 Normative clause: - CEN TC concerned: -	Other: - Other clause: -
Key words: -				
Question: When shall a single fault be detected when using a type III C two-hand control according to EN 574:1996+A1:2008 and/or EN ISO 13851:2019?				
Solution: In a type III C two-hand control device, a single fault shall be detected and lead to a safe state as soon as possible, but latest when a change of state of the output signal is requested (e. g. by releasing one or both of the control actuating devices). Note: It is state of the art for this application that mechanical faults of push buttons are excluded when the push-buttons are in accordance with EN 60947-5-1.				

(1) Essential health and safety requirement

MACHINERY 0, NOTIFIED BOOL	Machinery Directive 2006/42/EC + Amendment		CNB/M/11.035 Revision 08 Language: E	
Date of first stage: 24/09/200	)2	To be approved by:	Approved on:	
Origin: VG11 Safety compon	ients	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	25/10/2010 14/12/2010	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 23/05/2011	
Question related to: Directive	e 2006/42/EC Article:	EN/prEN: EN 61496:2004 + A1:2008	Other:	
Annex: IV-19	ESR (1):	Clause: A.7	Other clause:	
		CEN TC concerned:		
Key words: Indication of a me	uted ESPE, colour of the mute indicator(s) of an	ESPE		
Question: EN 61496-1, Annex A.7 (Muting) requires an indication of the muted state of an ESPE (Electro-Sensitive Protective Equipment), but does not specify a colour. What colour should be used? Note 1: In the old prEN 50100-1 (clause 4.2.4) the colour of the indication of the muted condition of the ESPE was required to be white. Table 2 of EN 61310-1 requires yellow for warnings, but yellow could conflict with the indication of the start or restart interlock. According to ANSI B11.19 an amber light is recommended to be used to indicate that the safeguard is muted or bypassed.				
Solution: Both colours yellow or white may be used if there is no conflict with other indicators e.g. interlock. Note 2: EN 61496-1:2004+A1:2008, 4.2.5 requires: When there are two or more indicators of the same colour the function of each indicator shall be unambiguously marked.				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY NOTIFIED & O	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/11.036 Revision 07 Language: E
Date of first stage: 28/09/20	04	To be approved by:	Approved on:
Origin: VG11 Saftey compo	nents	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	25/10/2010 14/12/2010
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 23/05/2011
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: IV-19	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: laser scanner, ir	ndustrial truck		
CEN IC concerned:         Key words: laser scanner, industrial truck         Question:         In narrow alleys of stocks persons may be injured by an industrial truck in case of collision between the industrial truck and a person. To prevent such accidents, laser scanners are used to detect persons and initiate a stop of the industrial truck.         What are the conditions for laser scanners to be used in this application?         Solution:         Laser scanners (AOPDDRs) intended to be used for such applications shall fulfil the requirements of EN 61496-1 and CLC/TS 61496-3.         As a minimum the additions and modifications listed below are to be observed. It is necessary to distinguish between those applications where:         • access of persons is generally allowed; and         • access of persons is forbidden at the time the industrial truck is operated.         Therefore the following list contains general requirements and specific requirements for the two different applications (see annex).			

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

## 1. General requirements

### 1.1 Detection zone dimensions

a) The length of the detection zone shall be calculated taking into account the maximum speed of the industrial truck, the response times of the protective equipment, the machine control etc. and the maximum braking distance. An addition of 10 % as a minimum should be made to consider a decrease of the brakes.

b) The width of the detection zone shall be such to enable the detection of the test piece defined in 1.2. It has to be taken into account that the tracking of an industrial truck always will have tolerances. For example, a tracking tolerance of 15 mm can lead to a change of the detection zones outer corner position in operation of some 10 mm. Without any user advice this can lead to problems concerning safety in terms of a decreased or not existing detection capability and on the other hand to an unacceptable low reliability in operation.

## 1.2 Test piece dimension

The test piece used for analysis and test shall be cylindrical with dimensions as indicated in figure 1. In most cases the detection capability will be affected by a test piece with minimum diffuse reflectivity.

Note: CLS/TS 61496-3 defines a minimum diffuse reflectivity of 1.8 % in the range of wavelength that is within the scope.

### 1.3 Detection capability

The detection of the test piece within the detection zone shall be guaranteed by test according to CLS/TS 61496-3. At the left and right outer border line of the detection zone the test piece shall be detected when placed with its centre in a distances of 125 mm from an empty rack. The maximum tracking tolerance as defined by the manufacturer of the protective device shall be taken into account.

### 1.4 Start interlock and restart interlock

Start interlock and restart interlock are required in operation when it is not guaranteed that a person is detected at any position in front of an industrial truck.

### 1.5 Accompanying documents

The accompanying documents shall inform the user on how to calculate the dimensions of the detection zone by example. The width of the detection zone is required to be given as a distance from the empty rack. The maximum tracking tolerance of the industrial truck together with other limiting information shall be given.

### 2. Application where access is allowed

### 2.1 Type

Laser scanners intended to be used for this application shall fulfil the requirements for type 3 as defined in CLS/TS 61496-3.

### 2.2 Mounting

The mounting height of a laser scanner shall be as such as to enable the detection of the test piece defined in 1.2 and in addition of a person lying on the floor. To simulate this within a test, a second test piece with a diameter of 200 mm and a length of 1.000 mm shall be used.

### 3. Application where access is forbidden

### 3.1 Type

Laser scanners intended to be used for this application shall fulfil the requirements for type 3 as defined in CLS/TS 61496-3. Alternatively the fault detection requirements fulfilled by a type 2 device according to EN 61496-1 are sufficient due to the lower risk compared to the application where access is allowed.

### 3.2 Mounting

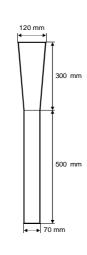
The mounting height of a laser scanner shall be such as to enable the detection of the test piece defined in 1.2.

### 3.3 Extra regulation

If the requirement to detect the test piece at the left and right outer border line of the detection zone given in 1.3 cannot be fulfilled taking into account the tracking tolerance of the industrial truck, the following extra regulation for application where access is forbidden can be applied. a) At the left and right outer border line of the detection zone the test piece shall be detected when placed with its centre in a distance of 125 mm from an empty rack. The tracking tolerance is not taken into account.

b) The test piece position is varied from its original position (centre 125 mm from empty rack). For every 10 mm additional distance the length of the detection zone shall be increased by 200 mm.

c) The maximum distance between the test piece centre and the empty rack is limited to 200 mm which leads to an increase of the detection zone of 1.500 mm.



#### Figure 1: Test piece dimensions

MACHINERY 0, NOTIFIED BOOK	Machinery Directive 2006/42/EC + Amendment		CNB/M/11.042 Revision 04 Language: E	
Date of first stage: 27/09/20	05	To be approved by:	Approved on:	
Origin: VG11 Safety compo	nents	☑ Vertical Group ☑ Horizontal Committee	25/10/2010 21/11/2005	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 20/04/2006	
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN: EN 574-1:1996	Other:	
Annex: IV-19	ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: Two-hand contr	ol device, non-mechanical actuating devices			
If yes what are the requirer	ne use of non-mechanical actuating devices? nents?			
Solution: Yes. According to EN 574: 1996 clause 8.7 non-mechanical actuating devices are allowed. EN 574: 1996 has to be fulfilled. Especially clause 8.7 requires that accidental actuation has to be prevented for non-mechanically actuated devices by setting sensitivity levels which will only allow deliberate actuation.				
Adaptation procedure: FORMAL ADAPTATION IN CONFORMITY WITH DIRECTIVE 2006/42/EC				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY O, NOTIFIED 800	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/11.047 Revision 03 Language: E	
Date of first stage: 11/05/20	110	To be approved by:	Approved on:	
Origin: VG11 Safety compo	nents	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	11/05/2010 15/06/2010	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 30/12/2010	
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN: EN ISO 13849-1 / EN 62061	Other:	
Annex: I	ESR (1): 1.2.1	Clause:	Other clause:	
		CEN TC concerned:		
Key words: Using parts with	n wear-out in safety components			
Question: How do parts with wear-out Abbreviation: (a) PFHd: Probability of dan	such as relays have to be taken into account wh gerous Failure per Hour	en estimating the $PFH_{d}\left(a ight)$ of a safe	ty component?	
without stating the condition Standards such as EN ISO	omponent depends on the PFH <sub>d</sub> (a). It is not suffins under which this value is valid. 13849-1 or EN 62061 use the concept of B10 <sub>d</sub> w umber of operations per time unit and the load co	hen calculating probability of failure		
	dures to determine $B10_d$ values are given e.g. in ary relays and ISO 19973-1, -2 for pneumatic co			
VG11 replaced the term "PFH" by "PFH₀" and added the note on 26/10/2010.				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY 0, NOTIFIED BODY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/11.049 Revision 03 Language: E
Date of first stage: 25/10/20	10	To be approved by:	Approved on:
Origin: VG11 Safety compo	nents	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	25/10/2010 14/12/2010
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 23/05/2011
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: IV-21	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: logic units to en	sure safety functions / Environmental conditions		
time being, there is no gene How can the test laboratory Solution: There is no general standar	r functions shall be tested in environmental condi eral standard for the detailed requirements. • determine these requirements? • df for logic units and the requirements depend hig Therefore, it is the task of the Notified Body to de	ghly on the application, the technolo	gy used, and the expected

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY 0, NOTIFIED 80	Machinery Directive 2006/42/EC + Amendment		CNB/M/11.050 Revision 05 Language: E
Date of first stage: 18/10/20 Origin: VG11 Safety compo		To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee	Approved on: 06/06/2013 26/06/2013 Endorsed on: 22/11/2013
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: IV – 19, 20, 21 and	Annex I ESR (1): 1.2.1	Clause:	Other clause:
		CEN TC concerned:	
Key words: Failure, electron	nechanical outputs		
electromechanical outputs	uirements concerning the frequency of tests for fa (relays or contactors)?	ailure detection in a safety-related sy	ystem with 2 channels with
Solution: A functional test (automatic	or manual) to detect failures shall be performed	within the following test intervals:	
	tegory 4 (according to EN ISO 13849-1) or ault tolerance) = 1 (according to EN 62061);		
b) at least every 12 months for PL d with Category 3 (according to EN ISO 13849-1) or SIL 2 with HFT (hardware fault tolerance) = 1 (according to EN 62061).			
that the control system of th	functional test is initiated by the control system on the machine reminds the user (e.g. by an appropr is also not possible, an appropriate requiremen	iate indication at the control panel) t	o perform a functional test

MACHINERY <sup>N</sup> OTIFIED 800 <sup>11</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE			CNB/M/11.052 Revision 02 Language: E
Date of first stage: 18/10/20	11		To be approved by:	Approved on:
Origin: VG11 Safety compo	nents		<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	
			To be endorsed by: ☑ Machinery Working Group.	Endorsed on: 23/04/2012
Question related to: Directiv	ve 2006/42/EC	Article: 2 (c)	EN/prEN:	Other:
Annex:		ESR (1):	Clause:	Other clause:
			CEN TC concerned:	
Key words: Safety compone	ents, safety function	ons	<u> </u>	
		rol) incorporate non-safety rela components in the sense of the	ted functions and one or more sa e Machinery Directive?	ety functions.
Solution:				
Yes.				
		unction, it is considered as safe to Article 2 (c) of the Machinery	ty component in the sense of the Directive are met.	Machinery Directive,
			ery Directive. During conformity a ve influence on the safety-related	

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/11.053 Revision 03 Language: E	
Date of first stage: 10/05/20	)12	To be approved by:	Approved on:
Origin: VG11 Safety compo	onents	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	10/05/2012 28/06/2012
		To be endorsed by: Machinery Working Group	Endorsed on: 17/01/2013
Question related to: Directi	ve 2006/42/EC Article:	EN/prEN: EN ISO 13849-1:2008	Other:
Annex: I	ESR (1): 1.2.1	Clause: 5.2.2.	Other clause:
		CEN TC concerned: TC 114	
Key words: Manual reset fu	nction		
change of the state of the r In some logic units to ensu button from released to pre Machinery directive? Solution: Yes. In this case, the technical fi EN ISO 13849-1. The manufacturer of the log	on in logic units to ensure safety functions, EN IS eset button from pressed to released. re safety functions the manual reset function was ssed, as was required in EN 954-1, subclause 5. le has to contain a statement that the product do gic unit has to show that the manual reset function ovided by the technical solution in the 6th indent	e designed to react to the change of 4. Do these logic units comply with es not fully comply with the 6th inde n has an appropriate Performance L	the state of the reset the requirements of the nt of subclause 5.2.2 of evel.

<sup>(1)</sup> Essential safety requirement

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	CNB/M/11.055 Revision 04 Language: E		
Date of first stage: 07/06/20	13	To be approved by:	Approved on:	
Origin: VG11 Safety compo	nents	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	02/06/2014 17/06/2014	
		To be endorsed by: Machinery Working Group	Endorsed on: 08/01/2015	
Question related to: Direction	ve 2006/42/EC Article: 2 (c)	EN/prEN:	Other:	
Annex: I	ESR (1): 1.5.1.	Clause:	Other clause:	
		CEN TC concerned:		
Key words: Cogeneration p	lants, combined heat and power plants (CHP), gr	id monitoring		
Question: Is the grid monitoring device of a cogeneration plant considered a safety component in the sense of Article 2 (c) of the Machinery Directive, if it is placed on the market independently?				
into the local installation. The disconnection from the elec- - disconnect the cogenerati - shut down the generator a Grid monitoring devices the	generation plant is disconnected from the electric nis situation is hazardous because some persons strical power grid. In these cases, grid monitoring on plant from the local installation, and - in some and prevent start-up. erefore serve to reduce a risk coming from cogen Article 2 (c) of the Machinery Directive and furthe	s might think there is no electrical h devices are used to cases - eration plants and are consequentl	azard due to the y considered a safety	

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>NOTIFIED 80</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	CNB/M/11.056 Revision 03 Language: E	
Date of first stage: 07/06/20	13	To be approved by:	Approved on:
Origin: VG11 Safety compo	nents	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	07/06/2013 26/06/2013 Endorsed on:
		Machinery Working Group	22/11/2013
Question related to: Directiv	/e 2006/42/EC Article:	EN/prEN: EN 574:1996+A1:2008	Other:
Annex: I	ESR (1): 1.2.1.	Clause: 5.7	Other clause:
		CEN TC concerned: TC 114	
Key words: Two-hand contr	ol devices, synchronous actuation, operating con	ditions	
to 0.5 s. Is it necessary that this may voltage? Solution: Yes. The maximum synchro the manufacturer.	uires in its subclause 5.7 a synchronous actuatio	ler variation of operating conditions	such as the supply ating conditions stated by

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>9</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42 RECOMMENDATION	CNB/M/11.058 Revision 03 Language: E	
Date of first stage: 07/06/20	013	To be approved by:	Approved on:
Origin: VG11 Safety compo	onents	☑    Vertical Group      ☑    Horizontal Committee	07/06/2013 26/06/2013
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 22/11/2013
Question related to: Directi	ve 2006/42/EC Article: 2(c)	EN/prEN:	Other:
Annex:	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: Safety compon	ent, warning device		
Question: Is a warning device that red Article 2 (c) of the Machine	quires the action of the operator to achieve a saf ry Directive?	e state considered a safety compone	ent in the sense of
Solution: No. However, the device can be	e assessed according to functional safety standa	rds used for safety components.	

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

A NO	CHINERY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE			CNB/M/11.059 Revision 03 Language: E	
Date of fi	rst stage: 03/06/20	)14			To be approved by:	Approved on:
Origin: VG11 Safety components		র আ	Vertical Group Horizontal Committee To be endorsed by:	03/06/2014 17/06/2014 Endorsed on:		
				Ø	Machinery Working Group	08/01/2015
Question	related to: Direction	ve 2006/42/EC	Article:	EN	/prEN: EN 61508	Other:
Annex: N	/ - 19 / 20 / 21		ESR (1):	Cla	use:	Other clause:
				CE	N TC concerned: CLC/TC 65X	
Key word	ls: Diagnostic func	tions, EN 61508:2	010	1		
Solution: Failures in diagnostic functions that can directly introduce a failure in the safety function / element safety function should be handled like failures in the safety function / element safety function itself. For diagnostic functions that cause a critical state related to the safety function / element safety function in a two or more fault scenario						
	e following approa					
1.	The diagnostic fu Safety function SIL 1 SIL 2 SIL 3	n Diagi	nostic function safety principles	ıd sha	II fulfill the requirements as sho	wn in the table below.
<ol> <li>A failure in a diagnostic function that increases the probability that the safety function does not operate correctly when required, shall be classified as dangerous failure according to IEC 61508-4:2010, clause 3.6.7. A failure in a diagnostic function that leads directly to the safe state shall be classified as safe failure according to IEC 61508-4:2010, clause 3.6.8.</li> <li>Note: For diagnostic functions monitoring only other diagnostics functions, no safety requirements have to be applied.</li> </ol>						
NOLE. I U			y ouror anagricoulos inficitoris,	10 301	or rodanomento nave to pe ah	pilou.

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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N CO-020.		1 49	
Star Star	CO-ORDINATION OF NOTIFIED BODIES           Machinery Directive 2006/42/EC + amendments		CNB/M/11.060
MACHINERY			Revision: 06
9, C.			Language: EN
"OTTFIED "O"	RECOMMENDATIO	IN FOR USE	
Number of pages: 1	Date: 03.07.2023	To be approved by:	Approved on:
Origin: VG11 Safety comp	onents	Vertical Group	22.05.2019 16.12.2021
		<ul> <li>☑ Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	Endorsed on:
		✓ Machinery Expert Group	23.03.2023
Question related to: Direct	ive 2006/42/EC Article: -		Other: -
	IVE 2006/42/EC ANICIE	EN/prEN: -	
Annex: IV - 19 / 20 / 21	EHSR (1): 1.2.1.	Normative clause: -	Other clause: -
		CEN TC concerned: -	
Key words: External DC po	ower supply of safety component, PELV, abno	rmal voltage	
Question:			
What abnormal supply vol PELV (protective extra low	tage of an external DC power supply has to be	considered for a safety component ir	tended to be supplied with
	volage):		
Solution:			
For supply voltages up to 6	60 V DC, the safety component has to remain	in a safe state.	
	as well as EN 60204-1:2006, require that PEL	/ doop not avaged 60 V/DC, even in a	and of a failure
NOTE. EN 00204-1.2010 a	as well as EN 00204-1.2000, require that FEL		
(1) Essential basth and ast			

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MACHINERY 0, 10, 7, FIED BO	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/11.061 Revision 06 Language: E		
Date of first stage: 03/06/20	14	To be approved by:	Approved on:		
Origin: VG11 Safety compo	nents	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	02/06/2015 29/06/2016 Endorsed on:		
		Machinery Working Group	31/01/2018		
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:		
Annex: IV - 21	ESR (1):	Clause:	Other clause:		
		CEN TC concerned:			
Key words: RFID-based pro	otective devices				
identification) technology, a as baling presses where ma successfully as a protective	Question: Protective devices for indirect detection of the presence of persons, for example by the use of RFID (radio-frequency identification) technology, are considered to be a logic unit to ensure safety functions as described by CNB/M/11.045. In applications such as baling presses where material is transported via a conveyor belt into the press, such RFID-based protective devices have been used successfully as a protective measure in the past. However, no standard exists that deals with such systems. Are there general requirements or a general standard to take into account for an EC type-examination of a RFID-based protective device?				
	ve devices are used in the same environment as requirements and tests for ESPE (EN 61496-1) s				
<ul> <li>verify that the integrity of th</li> <li>independent of th</li> <li>independent from</li> <li>independent from</li> <li>in presence of set</li> </ul>	e-examination also technology specific aspects a e detection capability of a RFID-based protective e orientation of the tag; coverage of the tag by the human body; coverage of the tag by process material such as veral (different) tags; than one RFID-based protective device.	e device is maintained:			
Organizational measures have to focus on periodically scheduled checks and that all personnel exposed to the relevant risks is equipped with transponder tags. These organizational measures have to be covered by the instructions for use.					

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY 0, 10, 17, FIED 800	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/11.062 Revision 04 Language: E			
Date of first stage: 09/06/20	015	To be approved by:	Approved on:		
Origin: VG11 Safety compo	onents	☑    Vertical Group      ☑    Horizontal Committee	09/06/2015 02/12/2015		
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 23/09/2016		
Question related to: Directi	ve 2006/42/EC Article: 2 c)	EN/prEN: EN ISO 13856 series	Other:		
Annex: IV - 19	ESR (1):	Clause:	Other clause:		
		CEN TC concerned:			
Key words: pressure-sensit	ive protective device, sensor, control unit, OSSD	s, definition			
Question: What is a pressure-sensitive mat (or edge or buffer)?					
OSSDs (output signal swite Therefore, a sensor alone ( Directive. Example: According to EN "Sensitive protective equipt or more output signal swite area (3.4) is deformed loca	in the EN ISO 13856 series, a pressure-sensitive ching devices). (although commonly referred to as mat, edge or the ISO 13856-1, 3.1, the definition of pressure-sens ment (ISO 12100:2010, 3.28.5) comprising a sen hing devices (3.6) which detects a person standi Ily when the sensor(s) is actuated." ries, the term "mat" (or "edge" or "buffer") is not u	buffer) is not a safety component in itive mat reads: sor (3.3) or sensors, a control unit ( ng on it or who steps onto it and wh	the sense of the Machinery 3.5) and one or more one here the effective sensing		

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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OFENN CO-OROINA			CNB/M/11.063		
A A A A A A A A A A A A A A A A A A A	Machinery Directive 2006/42/EC + amendments		Revision: 02		
MAATHINEKY			Language: EN		
HOTIFIED NOV	RECOMMENDATI	ON FOR USE			
Number of pages: 1 Origin: VG11 Safety comp	Date: 31.07.2023	To be approved by:         ☑ Vertical Group         ☑ Horizontal Committee         To be endorsed by:         ☑ Machinery Expert Group	Approved on: 02.06.2016 31.05.2023 Endorsed on: 12.04.2024		
Question related to: Direct	tive 2006/42/EC Article: -	EN/prEN: -	Other: -		
Annex: IV - 19 / 20 / 21	EHSR (1): -	Normative clause: - CEN TC concerned: -	Other clause: -		
Key words: EC type-exam	ination, laboratory				
Question: Is the Notified Body allowed to use external test facilities for EC type-examinations of Machinery Directive Annex IV No. 19 and 21 safety components?					
Solution:					
<ol> <li>Laboratory accredited by a signatory to the ILAC accreditation system for the scope of testing: In this case the test results from this test laboratory can be accepted.</li> <li>Independent laboratory without recognised accreditation: In this case the NB has to assess the test facility by an initial and by surveillance audits for the scope of testing to confirm, whether it follows the requirements of EN ISO/IEC 17025.</li> <li>Use of manufacturers' test facilities is only to be accepted where the testing is supervised by the notified body staff. The test report is either issued under the notified body's authority or the manufacturers report clearly states the conditions under which the testing was carried out including the involvement of the notified body staff.</li> </ol>					
(1) Essential health and sat	íetv requirement				

MACHINERY <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>0</sub> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>0</sup> , <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>1</sup> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>1</sub> / <sub>2</sub> <sup>1</sup> / <sub>1</sub>		D-ORDINATION C	CNB/M/11.065 Revision 03 Language: E	
Date of first stage: 01/	06/2017		To be approved by:	Approved on:
Origin: VG11 Safety co	mponents		☑ Vertical Group	01/06/2017
			☑ Horizontal Committee	07/06/2017
			To be endorsed by:	Endorsed on:
			☑ Machinery Working Group.	31/01/2018
Question related to: D 2006/42/EC	irective A	rticle:	EN/prEN: EN 61496-2:2013	Other:
Annex: IV - 19	ES	SR (1):	Clause: 4.2.2.4	Other clause:
			IEC TC concerned: TC 44 / MT 614	196-2

# Key words: AOPD, type

Question: EN 61496-2:2013 does not define requirements for an AOPD Type 3. Nevertheless, such devices can be found on the market. Should these Type 3 devices fulfil the special requirements of Type 2 or for Type 4 as long as the standard does not give such information?

Solution:

As long as EN 61496-2 does not define a Type 3 AOPD such devices shall fulfil the requirements and its related test procedures of the following:

- EN 61496-1 Type 3;
- EN 61496-2 general requirements; and
- EN 61496-2 Type 4 requirements given in the following subclauses:
  - 4.1.2.2.2 (Sensing function);
  - 4.2.12 (Integrity of the AOPD detection capability);
  - 4.3.5 (Light interference); and
  - A.11.3 (Functional requirements for a type 4 AOPD), if applicable.

Note: Subclause numbers are related to EN 61496-2:2013

# (1) Essential safety requirement

		Page	e 1/1 of CNB/M/11.066 Rev 04			
MACHINERY 9. Honipiled Boot	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + amendments RECOMMENDATION FOR USE		CNB/M/11.066 Revision: 04 Language: EN			
Number of pages: 1 Origin: VG11 – Safety cor	Date: 20.11.2024 nponent	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:         ☑       Machinery Expert Group	Approved on: 02.06.2017 29.05.2024 Endorsed on: 17.10.2024			
Question related to: Direc Annex: IV – 19 / 20 / 21	tive 2006/42/EC Article: EHSR (1): 1.2.4.3	EN/prEN: EN ISO 13850 Normative clause: 4.3.8 CEN TC concerned: CEN/TC 114	Other: Other clause:			
Key words: Logic units to	ensure safety functions, remote controls, illumin	nation of emergency stop device				
the possibilities given in the	clause 4.3.8, requires a measure to avoid confu ne standard is device colour changing through i r the functional safety of this illumination?					
Solution:         Yes.         Critical situations are         1)       The illuminating element is active by fault, but the emergency stop device is inactive. This could lead to the operator trying to actuate the emergency stop with no effect.         2)       The illuminating element has failed while the emergency stop device is still active. This could lead to the operator not using the emergency stop.         Therefore, detecting whether the illumination is working correctly is safety-related.         Note: EN 60204-1:2018, subclause 10.4, requires, that the colour of active emergency stop actuators shall remain RED regardless of the state of the illumination.						
(1) Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.						

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Sept CO-ODOINER	CO-ORDINAT		IFIED BODIES	CNB/M/11.067		
		ry Directive 2006/42/EC + amendments		Revision: 03		
9, <b>1</b>			Language: EN			
NOTIFIED VO	RECOM	MENDATION	FOR USE			
Number of pages: 1 Origin: VG11 Safety Compo	Date: 03.07.2023		To be approved by:         ✓         Vertical Group         ✓         Horizontal Committee         To be endorsed by:         ✓         Machinery Expert Group	Approved on: 22.01.2021 16.12.2021 Endorsed on: 23.03.2023		
Question related to: Direction	ve 2006/42/EC Article: 2 safe and logic unit	ety components	EN/prEN: IEC 62061 and ISO 13849-1 Validation activities	Other: -		
Annex: IV – 19, 20 and 21	EHSR (1): -		Normative clause: -	Other clause: -		
			CEN TC concerned: -			
Key words: Testing, witnes	s testing, remote testing of safety	y components ar	nd logic unit			
	h ANNEX II (of the Guide to app onents which are considered to b		achinery Directive 2006/42/EC Edit	ion 2.2 – October 2019)		
Question:						
	ndatory EC type examination cert		ing or witnessing testing for logic u			
Solution:						
•			ry directive, notified bodies are cer nalysis, validation by simulation ar			
Remote validation and rem accept or not.	ote testing activities are possible	e but they remain	in all cases under the responsibili	ty of the notified body to		
The following list is not an e	exhaustive list					
Validation by analysis cove	ers:					
<ul> <li>Definition of the safety function</li> <li>Validation by analysis of the compliance of the safety component / logic unit to the criteria of harmonized standards, standards and other technical specifications (qualitative and quantitative requirements of the standards - e.g. SIL/SIL CL for IEC 62061, category, PL, MTTFD, of ISO 13849-1) and safety analysis methods e.g. FMECA, Markov,</li> <li>Other mandatory requirements of the machinery directive (instructions, EC declaration of conformity, technical file, marking,)</li> </ul>						
Validation by simulation						
Validation by tests covers:						
	ts (mechanical tests-vibrations a		ety function (e.g. response time, tests, temperature tests,)	)		
(1) Essential health and safe	to an an increase t					

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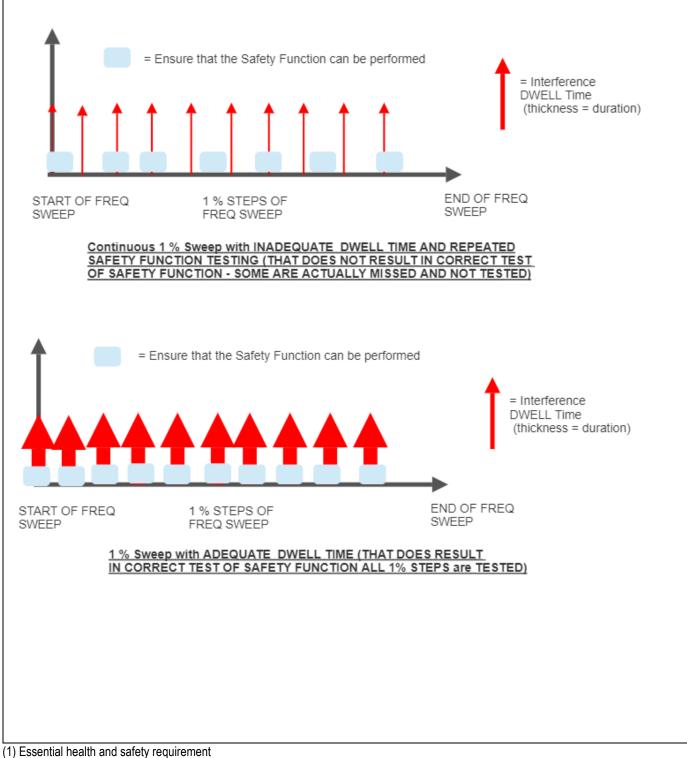
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Stun CO-OPOINT	CO-ORDINATION OF N	CNB/M/11.068	
Machinery Directive 2006/42/EC + amendments			Revision: 02
9, 9, 5, 5		Language: EN	
TOTIFIED NO	RECOMMENDATIO	IN FOR USE	
Number of pages: 1 Origin: VG11 Safety Compone	Date: 03.07.2023	To be approved by:         ☑ Vertical Group         ☑ Horizontal Committee         To be endorsed by:         ☑ Machinery Expert Group	Approved on: 22.01.2021 16.12.2021 Endorsed on: 23.03.2023
Question related to: Directive	2006/42/EC Article: -	EN/prEN: EN IEC 61496-3:2019	Other: -
Annex: IV – 19	EHSR (1): -	Normative clause: -	Other clause: -
		CEN TC concerned: -	
Key words: AOPDDR, IP prot	ection class		
Question:			
the AOPDDR enclosure is op 3:2019, 4.3.4?	ened on delivery and therefore does not m	eet the IP 65 degree of protection spe	cified in EN IEC 61496-
Solution:			
assumption that the required	not set any requirements to evaluate pollution IP protection class is not maintained only in ery of an AOPDDR with an open enclosure	short term in rare cases, such as the	replacement of an optical
(1) Essential health and safety	requirement		

Page 1/1 of CNB/M/11.069 Rev 02

Strin CO-ONOINT	CO-ORDINATION OF N	CNB/M/11.069				
2 Pro P	Machinery Directive 2006/42/EC + amendments		Revision: 02			
O, C,	machinery Directive 2000/44	Language: EN				
MOTTFIED TO	RECOMMENDATIO	IN FOR USE				
Number of pages: 1	Date: 03.07.2023	To be approved by:	Approved on:			
Origin: VG11 Safety compone	ints	<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> </ul>	14.09.2021 16.12.2021			
		☑ Horizontal Committee To be endorsed by:	Endorsed on:			
		Machinery Expert Group	23.03.2023			
Question related to: Directive	2006/42/EC Article: -	EN/prEN: EN 60204-1:2018	Other: -			
Annex: -	EHSR (1): -	Normative clause: 9.1.1	Other clause: -			
	ζ,	CEN TC concerned: TC 44X				
Key words: Transformers						
Question:						
Clause 9.1.1 in <b>EN 60204-1:2</b>	018 contains following exception for the rea	quirement for transformers:				
	rmers or switch mode power supply units fi r <b>and/or</b> a maximum of two control devices					
In an elder version of this star	idard (EN 60204-1:1998) the sentence was	clearer:				
Transformers are r device, start/stop c	ot mandatory for machines with a single m ontrol station).	otor starter <b>and</b> a maximum of two co	ntrol devices (e.g. interlock			
The use of " <b>and</b> " means that exception ("transformers are	both conditions (only one motor starter, ma not mandatory").	ximum of two control devices) need to	be met to apply the			
The meaning of " <b>and/or</b> " is, th was most likely not the intenti	nat complying with either the first or the sec on of the rule-setter.	ond or both conditions is necessary to	o apply the exception. This			
Solution:						
A corrigendum to the standard seems appropriate and the respective TC will be informed. In order to close the time gap until the publication of a correction, this RfU is intended to contribute to clarification. The exception should read: Exception: Transformers or switch mode power supply units fitted with transformers are not mandatory for machines with <b>not</b> <b>more than</b> one motor starter <b>and</b> a maximum of two control devices (for example, interlock device, start/stop control station).						

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MACHINERY 0, Hojipied Bolt	CO-ORDINATION OF NC Machinery Directive 2006/42/ RECOMMENDATIO	CNB/M/11.071 Revision: 02 Language: EN			
Number of pages: 2 Origin: VG11 Safety Com	Date: 31.07.2023 ponents	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:         ☑       Machinery Expert Group	Approved on: 04.05.2023 31.05.2023 Endorsed on: 12.04.2024		
Question related to: Direc	tive 2006/42/EC Article: -	EN/prEN: IEC 62061 and ISO 13849-1	Other: -		
Annex: IV – 19, 20 and 21 Annex V	I EHSR (1): -	Normative clause: - CEN TC concerned: TC44, TC199,	Other clause: - TC22, TC 77 & TC65/SC65A		
The guidance in IEC 610	/ for EMC Immunity Testing for Safety Compone 000-6-7 or IEC 62326-3-1 on the "test techniq Safety Component's Safety Functions is to b	ues does not fully explain how to e	ensure correct increased		
Question: What are the requirement	s for EMC immunity testing of Safety Compone	nts and integral Safety Functions?			
<ul> <li>Solution:</li> <li>For Safety devices that are used for machinery sector, the additional requirements for EMC immunity are met by: <ol> <li>Application of increased levels defined and test frequencies ranges in IEC 61000-6-7 or IEC 61326-3 -1;</li> <li>A Test Method that ensures each Safety Function is correctly and fully tested for susceptibility during the application of the "interfering test signal" (see following picture) e.g.</li> <li>Using (typically) 1% incremental steps of the frequency test range;</li> <li>Pause (dwell) on the selected test frequency long enough to ensure correct operation of the safety function "on demand". Let the safety function remain "activated" for at least a further 5 seconds or a time period that has to be justified by the manufacturer (time that could depend on technology and embedded safety measures for the realization of the safety function) and ensure that the safety function does not "deactivate" unintentionally;</li> <li>Intentionally remove the safety function "demand" and ensure the safety Function resets correctly;</li> <li>Increment the test frequency by a 1% step and repeat this test method as above until the end of the frequency range is reached and confirm that the applicable "Increased Immunity" Performance Criteria as detailed in the applicable standard has been met.</li> </ol></li></ul>					
<ul> <li>Note:</li> <li>a) For "normal" EMC Immunity testing – typically a 1% step in frequency and a pause depending upon the duration of the operating mode under test is used and the "Performance Criteria" applied. This is normally a continuous process and the performance is monitored for any "out of spec" matters – NO SAFETY is involved;</li> <li>b) In order to CORRECTLY test a safety system – whilst the 1% step is acceptable – the PAUSE / DWELL TIME (on each frequency step) must be long enough to ensure the correct operation of the Safety Function and EACH Safety Function MUST be tested in this way;</li> <li>c) If the "normal" EMC Immunity testing technique (i.e. 1% step and pause ONLY – before the next step) is followed for Safety systems then it is very likely that dangerous susceptibilities will not be revealed and if each Safety Function is fully tested at each 1% step how can it be known that no susceptibilities exist?</li> </ul>					



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MACHINERY 0, 10, 17, 17, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	CO-ORDINATION OF NC Machinery Directive 2006/42/ RECOMMENDATIO	CNB/M/11.072 Revision: 02 Language: EN				
Number of pages: 1 Origin: VG11 – Safety com	Date: 20.11.2024 ponent	To be approved by:         ☑       Vertical Group         ☑       Horizontal Committee         To be endorsed by:       Image: Committee Committe	Approved on: 15.05.2024 29.05.2024 Endorsed on: 17/10/2024			
Question related to: Directi Annex: IV – 19 V	ve 2006/42/EC Article: EHSR (1):	EN/prEN: EN IEC 61496-1 Normative clause: CEN TC concerned: IEC/TC44/MT	Other: Other clause: 61496-1			
Key words: Loss of detection	n capability.					
A single fault resulting in a condition within the response	e detection capability (i.e. 14 mm -> 28mm) by	PE to go to a lockout	to a lockout			
Solution: Yes, as the necessary safety distance can't be maintained.						

Machinery Direct	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		
Date of first stage: 28/12/1995	To be approved by:	Approved on:	
Origin: VG 12 ROPS and FOPS	<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> </ul>	21/11/2013 10/12/2013	
	To be endorsed by: Machinery Working Group	Endorsed on: 15/04/2014	
Question related to: Directive 2006/42/EC Article:	EN/prEN: EN ISO 3471:2008	Other:	
Annex: I ESR (1): 3.4.3.	Clause:	Other clause:	
	CEN TC concerned: TC 151 – ISC	) 127 SC 2	
Key words: DLV			
Question: What shall be the location of the DLV (deflection-limiting volum	e) for rollers with movable operator seat?		
The travelling position due to the manufacturer's specification s	hall be used until the standard committee decide	s otherwise.	

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MA Ox	N CO-OROIN THE OF	Machinery Directive 2006/42/EC + Amendment		CNB/M/12.009 Revision 05 Language: E		
Date of fi	rst stage: 07/05/19	96		To be approved by:	Approved on:	
Origin: V	G 12 ROPS and F	OPS		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	21/11/2013 10/12/2013 Endorsed on:	
				Machinery Working Group	15/04/2014	
Question	related to: Directiv	/e 2006/42/EC	Article:	EN/prEN:	Other:	
Annex: I			ESR (1): 3.4.3., 3.4.4.	Clause:	Other clause:	
				CEN TC concerned:		
Key word	ls: Minor modificati	on				
Question What kind		of ROPS and FOF	PS can be accepted without new	v test?		
Solution:						
	abs will be modified b may be made wi			er to make it simpler for all involved	modifications to a tested	
1)				ng, e.g. painting, trimming are not st additional information needed for m		
2)			inting process and the addition in location and whether they wo	for brackets for mounting of mirrors ould affect the test result.	, lights, etc. needs	
3)						
	The additional data sheet of the original certificate must contain: - a reference to the original certificate					
- a reference to the original test report						
- a unique number for this modifications			uding references to drawings of	nd issue numbers		
<ul> <li>a description of the changes made including references to drawings and issue numbers</li> <li>declaration of acceptance</li> </ul>						
	•		e – limited series numbers			

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	Machinery Directive 2006/42/EC + Amendment		CNB/M/12.010 Revision 05 Language: E	
Date of first stage: 25/10/19	96		To be approved by:	Approved on:
Origin: VG 12 ROPS and F	OPS		<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	21/11/2013 10/12/2013
			To be endorsed by: ☑ Machinery Working Group	Endorsed on: 15/04/2014
Question related to: Directiv	/e 2006/42/EC	Article:	EN/prEN: EN ISO 3449:2008	Other: EN ISO 3411:2007
Annex: I		ESR (1): 3.4.4.	Clause:	Other clause:
			CEN TC concerned: TC 151 / ISO	TC 27
Key words: FOPS, Standing	g operator			
Question:				
Ochriste				
Solution: According to EN ISO 3411: be 1955 mm (1905 mm + 5			vithout helmet. The DLV height from	the standing platform shall

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>Sten</sup> MACHINERY <sup>Sten</sup> <sup>NOTIFIED 800<sup>12</sup></sup>	Machinery Directive 2006/42/EC + Amendment		CNB/M/12.012 Revision 07 Language: E		
Date of first stage: 27/10/20	000	To be approved by:	Approved on:		
Origin: VG 12 ROPS and F	OPS	☑       Vertical Group         ☑       Horizontal Committee	21/11/2013 10/12/2013		
		To be endorsed by:Image: Machinery Working Group	Endorsed on: 15/04/2014		
Question related to: Directi	ve 2006/42/EC Article:	EN/prEN: EN ISO 3471:2008	Other:		
Annex: I	ESR (1): 3.4.3.	Clause:	Other clause:		
		CEN TC concerned: TC 151 / ISO	127		
Key words: ROPS					
According to clause 6.1.4 c post ROPS, the test can be	e complete fail if the ROPS is allowed to rotate				
Question: According to clause 6.1.4 of EN ISO 3471:2008 the load device shall not impede rotation of the ROPS. If two cylinders are used on a four- post ROPS, the test can be complete fail if the ROPS is allowed to rotate freely. How shall the the lateral and vertical load test be performed on test facilities with two loading cylinders? Solution: The requirement of clause 6.1.4 of EN ISO 3471:2008 is to be intended such that "load distribution device" does not constrain rotations of the structure. The use of one or two cylinders for loading is a matter of technical arrangement to fulfil the requirement laid down in clause 6.2.6 and 6.2.7 i.e. load application point displacement and force applied must be recorded in a "deformation controlled" loading sequence. ROPS structure rotation shall not be hindered but the loading device shall not induce rotation. The combination of the requirements suggest that in a two-cylinder loading machine, dispacement of both cylinders must be controlled in order to meet the "deformation control" required by clause 6.2.6 and 6.2.7. The effective load application point resulting of the forces of the two cylinders shall always be within the boundary planes of the DLV (deflection-limiting volume).					

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY NOTIFIED BON	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	CNB/M/12.015 Revision 05 Language: E	
Date of first stage: 18/08/20	01	To be approved by:	Approved on:
Origin:		<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	21/11/2013 10/12/2013
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 31/01/2018
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex:	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: ROPS, FOPS, r	epair, substitution		
Question: Should a Notified Body take necessary to replace the st	e care of the fact that in case of an accident caus ructure?	ing damage of a safety component	(ROPS, FOPS) is can be
that mounting instructions of The ROPS and FOPS strue in the test. In case of roll-ov	s not a question related to the put into the market or any other document clearly stresses the fact the ctures are tested and certified to meet specific or ver or in case of object impact, should any part of a not satisfied, and therefore the structure must b	at repair after a damage is generall iteria, provided that the structures a f the structure be affected by plastic	y not allowed. ire identical to the one used deformation or rupture, the

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY NOTIFIED BOINT	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE			CNB/M/12.016 Revision 02 Language: E
Date of first stage: 31/07/20	)13		To be approved by:	Approved on:
Origin: VG 12 ROPS and F	OPS		<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	21/11/2013 10/12/2013
			To be endorsed by: Machinery Working Group	Endorsed on: 15/04/2014
Question related to: Direction	ve 2006/42/EC	Article:	EN/prEN: EN ISO 3449:2008	Other: ISO 10262:2000
Annex: I		ESR (1): 3.4.4.	Clause:	Other clause:
			CEN TC concerned: TC 151 / ISO	127
Key words: FOPS, tiltable of	cab			
Question:				
	m tilted position.		ary. At least one with the cab in hor hat the vertical projection of the DLY	

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

1		Pa	age 1/1 of CNB/M/13.000 Re
SEIN CO-OROMANOZ MACHINERY	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.000 Revision 03 Language: EN
NOTIFIED BONK			
Date of first stage: 21/08/2008		To be approved by:	Approved on:
Origin: VG13 Full quality assurance		Vertical Group	21/08/2008
		☑ Horizontal Committee	09/12/2008
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 18/06/2009
Question related to: 2006/4	2/EC Article:	EN/prEN:	Other:
Annex: X	EHSR (1):	Normative clause:	Other clause:
		CEN TC concerned:	
Key words: equivalence to	Annex IX		
machines. The focus of An the Notified Body lies on th	x IX and Annex X conformity assessment nex IX is the type examination of a sample e processes of design and manufacturing ecked by the Notified Body knowing that th	of the product by the Notified Body while of the machinery. In both cases the manu	for Annex X the focus of facturer has responsibilities

<sup>(1)</sup> Essential health and safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	CNB/M/13.001 Revision 04 Language: E	
Date of first stage: 21/01/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	17/09/2007 10/06/2008
		To be endorsed by: Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 1	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: final inspection,	quality management, intermediate inspections		
	esting only refer to tests after manufacturing?		
management system for "d during the production phas These activities are under t	of the directive suggests that the final inspection a esign, manufacture, final inspection and testing" e. he responsibility of the manufacturer and are to l however the Notified Bodies shall take account c	also contains appropriate intermedi be differentiated from the direct con	ate inspections and tests formity assessment carried
Note: Production phase inc	ludes design, manufacture, inspection, testing an	d storage for the machinery	

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTI Machinery Directive 2006/42/E RECOMMENDATION I	CNB/M/13.002 Revision 07 Language: E	
Date of first stage: 13/06/20	09	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	26/08/2010 14/12/2010
		To be endorsed by: Machinery Working Group	Endorsed on: 23/05/2011
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 1	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: quality system,	compliance with standards, accreditation		
Question: Is it necessary for the manu	facturer to have a quality system according to IS	O 9001?	
module H. However, since sufficient as such to demon	quirements of EN ISO 9001 normally provides a p there are several additional requirements in the A istrate compliance with the requirements of the di lity system must comply with the essential require	Annex X, compliance with ISO 9001 rective. On the other hand, complia	alone is certainly not nce with the standard is

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACTEINERY or NOTIFIED BOT	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE			CNB/M/13.003 Revision 04 Language: E
Date of first stage: 21/01/20	08		To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	1 1	Vertical Group Horizontal Committee	17/09/2007 10/06/2008
		V	To be endorsed by: Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Directiv	ve 2006/42/EC Article:	EN/	prEN:	Other:
Annex: X clause 2.1	ESR (1):	Clau	JSE:	Other clause:
		CEI	NTC concerned:	
Key words: application, quo	tation, selection of Notified Body			
Solution:	n in the terms of clause 2.1 of Annex X and in pa			
going from one Notified Boo more Notified Bodies (NBs) the Machinery Directive 200 enable them to prepare the the manufacturer has decid agreement (e.g. a contract) other NB to provide similar	Solution: It is not the intention of this requirement to restrict the manufacturer from obtaining several quotations, but simply prevent the practice of going from one Notified Body (NB) to another until one will issue certification. It is permissible for the Manufacturer to approach one or more Notified Bodies (NBs) and invite them to issue a quotation for providing the necessary assessment services required by Annex X of the Machinery Directive 2006/42/EC. The NBs that have been approached may require the manufacturer to supply relevant information to enable them to prepare the required quotation. This information may be submitted verbally or in written form as required by the NB. Once the manufacturer has decided to select a single NB to provide the necessary services that manufacturer shall be required to enter into an agreement (e.g. a contract) with that NB. In that agreement the manufacturer declares that they have not entered into a contract with any other NB to provide similar services for the same category or categories of machine. The selected NB will then request (if not already provided) the remaining information specified within clause 2.1 of Annex X.			

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>NO</sup> <sup>N</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/13.004 Revision 04 Language: E		
Date of first stage: 21/01/20	08	To be approved by:	Approved on:	
Origin: VG13 Full quality as	surance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	17/09/2007 10/06/2008 Endorsed on:	
		Machinery Working Group	08/01/2009	
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:	
Annex: X clause 2.1 – 2 <sup>nd</sup> in	ndent ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: manufacturer, s	ub-contractors, conformity, supplier, subsidiaries			
Do substantial subcontract activities of the manufacturer need to be identified? Solution: Yes. Where the manufacturers sub-contract the whole, or a significant part, of either design, manufacturing, inspection, testing or installation (where installation is part of the deliverable) they shall declare this to the Notified Body they have selected to provide the services required. Significant in this context can mean an important activity which could have a bearing upon the final conformity of the product with the				
applicable legislation/standards (examples are full design of the machinery, manufacturing of an important subassembly having direct impact on safety). This does not apply to safety components (e.g. light curtains) or basic sub-assemblies procured completely from a supplier. The machinery manufacturer is responsible for obtaining from his sub-contractor the information and documentation required for the application of the Annex X. If the manufacturer is not able to provide the required documentation this shall be considered to be a major nonconformity. For important subcontracting the Notified Body shall be required to visit the sub-contractor site. This shall be made by the Notified Body or on behalf of the Notified Body. It is the responsibility of the machinery manufacturer to ensure access. The basic principle is that the same logic shall be applied to a virtual manufacturer and a real manufacturer. If relevant work has been performed by different Notified Bodies at the sub-contractor site, this should be taken into account.				

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Machinery Directive 2006/42	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE	
Date of first stage: 28/01/2008	To be approved by:	Approved on:
Origin: VG13 Full quality assurance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> </ul>	17/09/2007 10/06/2008
	To be endorsed by:       Image: To be endorsed by:      Image: Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Directive 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause $2.1 - 3^{rd}$ indent ESR (1):	Clause:	Other clause:
	CEN TC concerned:	
Key words: representative model, categories of machinery, risks		
Question: Who is choosing the model and what is the category?		
Solution: The headline of Annex IV is: "Categories of machinery to which one of the Categories are therefore defined, i.e. each group of machinery listed in on 4.1, 4.2, 12.1, 12.2. Annex X clause 2.1 - 3rd indent refers to "one model of each category". Thi hazards identified with the machinery. For purposes of conformity assessment to Annex X, the Notify Body shall each category form the complete list of the products manufactured.	e of the paragraphs from 1 to 23 or p s model is a representative sample t	aragraphs 1.1, 1.2, 1.3, 1.4, hat displays all the major

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>Sten</sup> MACHINERY <sup>Sten</sup> <sup>NOTIFIED B</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/ RECOMMENDATION	CNB/M/13.006 Revision 02 Language: E	
Date of first stage: 08/10/20	007	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	17/09/2007 04/12/2007
		To be endorsed by: Machinery Working Group	Endorsed on: 04/06/2008
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.1 – 3rd i	ndent ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: EC declaration	of conformity, technical file		
Question: Is it necessary to get a cop	y of the EC-declaration?		
Solution: Yes. A copy of the EC decl EC declaration of conformi	aration of conformity is a component of the techn ty to the NB.	ical file. That is why the applicant sl	nould submit a draft of the

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY On NOTIFIED BOOK	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.007 Revision 03 Language: E	
Date of first stage: 28/01/20	08	To be approved by:	Approved on:	
Origin: VG13 Full quality as	surance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	17/09/2007 04/12/2007 Endorsed on:	
		Machinery Working Group	04/06/2008	
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:	
Annex: X clause 2.1 - 3rd in	ident ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: technical file, as	ssessment on site, quality system			
	e have to be made available to the NB?			
because the technical file w positively finished if also the	nade available to the NB before the assessment of vill be used to validate the output of the quality sy e review of the technical file is positively finished. technical file as soon as possible.	stem. The assessment of the quality	ty system can only be	
Note: When the NB has an the assessment of the tech	experience on technical files related to specific c nical files.	ategories of this manufacturer it ma	y take it into account for	

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACTEINERY 0, NOTIFIED 801	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	CNB/M/13.008 Revision 02 Language: E		
Date of first stage: 08/10/20	07	To be approved by:	Approved on:	
Origin: VG13 Full quality as	surance	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	17/09/2007 04/12/2007	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 04/06/2008	
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:	
Annex: X clause 2.1 - 3rd in	dent ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: complete techni	cal file, documentation, complex machinery, audi	t		
Question:         Does the complete technical file have to be made available?         Solution:         Yes. The complete technical file has to be made available to show that the quality system is capable of generating sufficient and complete documentation output according to the requirements of Annex VII, Part A.         For complex machinery, it might be difficult to submit a very voluminous and complete technical file before the audit on site. The content of the documentation to be sent before the audit can be reduced in agreement with the NB. During the audit all the elements of the technical file must be available.				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	CNB/M/13.009 Revision 04 Language: E	
Date of first stage: 28/01/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	17/09/2007 10/06/2008
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.1 - 4th ind	dent ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: quality system of	locumentation, quality management manual, cert	ficates, audit reports, language	
Question: Shall the complete docume audit?	ntation according to Annex X clause 2.2 of the qu	ality system be submitted to the No	tified Body prior to the
to the Notified Body (NB) in were specifically developed according to Annex X claus The language of the provide If the applicant requires the	e available a controlled copy of his quality manage due time before the audit. This need not include l in order to comply with the requirements of the e 2.2 must be checked. ed documentation must be acceptable to the NB. NB to take into account some elements already certificates. Where appropriate the NB may requ	all detailed processes but will focu directive. During the audit the comp certified by another NB and or an a	s on the procedures which lete documentation ccredited certification body,

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTI Machinery Directive 2006/42/F RECOMMENDATION I	CNB/M/13.010 Revision 04 Language: E	
Date of first stage: 08/05/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	17/09/2007 10/06/2008
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.2 - 3rd in	dent ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: technical desigr	n specification, sample, manufacturing facilities, ir	nspections, audit plan	
Question: What is the role of the Notif	ied Body of reviewing the technical design specifi	cations?	
are the correct ones with re- that there might be necess. The Notified Body will also version of the relevant stan If harmonised standards ar order to demonstrate comp	he quality system, the Notified Body will at first vergard to the different categories of machinery pre ary to use different standards to cover the various pay attention to the procedures developed by the dard. e not used, or are partially used the Notified Body liance with the requirements of the directive (see ssessment of the technical file.	sented by the manufacturer. Care to s types of machinery within one cate manufacturer in order to ensure th y will evaluate the adequacy of the	will be taken about the fact egory. at he uses the latest principles developed in

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.011 Revision 04 Language: E
Date of first stage: 28/01/20	008	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	17/09/2007 10/06/2008
		To be endorsed by: Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Directi	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.2 - 2 <sup>nd</sup> in	ident ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: harmonized sta	ndards, responsibility, design review		
Question: What is the role of the Notif standards?	ied Body for the assessment of the technical des	gn specifications that do not compl	y fully with harmonized
of the machinery directive. and has to describe and just	valuate, whether the strategy for the selected me The manufacturer has to document the parts of a stify (e.g. by risk assessment, use of approved pri requirements are fulfilled at least at an equivalent	a design which do not fully comply v actice, testing) the means that will b	vith harmonized standards

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> , <sup>10</sup> , <sup>1</sup>	Machinery Directive 2006/42/EC + Amendment		CNB/M/13.012 Revision 05 Language: E	
Date of first stage: 28/01/20	08	To be approved by:	Approved on:	
Origin: VG13 Full quality as	surance	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	23/10/2012 (*) 10/06/2008	
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 08/01/2009	
Question related to: Directive	ve 2006/42/EC Article:	EN/prEN:	Other:	
Annex: X clause 2.2 - 3rd in	dent ESR (1):	Clause:	Other clause:	
		CEN TC concerned:		
Key words: design inspection	on, design verification, independence, level of con	fidence		
	and design verification to be done by an independ	ent person or department of the ma	nufacturer?	
Solution: No, unless it is required by the quality system of the manufacturer or an applied standard. This directive, and others such as the PE- Directive and Lift Directive, and the current issue of the standard ISO 9001 do not explicitly require independence of persons or departments carrying out the design inspection and review. The manufacturer shall at least define responsibilities and competence for these persons and traceability of their actions. The manufacturer shall plan the inspection and review which shall be carried out under controlled conditions (instructions, checklists etc.). The final inspection shall include checking whether the design inspection and review has been performed correctly.				
<ul><li>(*) Updating – to remove reference to an out of date version of ISO 9001</li></ul>				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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Date of first stage: 28/01/20	08	To be approved by:	Approved on:	
Origin: VG13 Full quality as	surance	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	17/09/2007 04/12/2007	
		To be endorsed by: Machinery Working Group	Endorsed on: 04/06/2008	
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:	
Annex: X clause 2.2 - 3 <sup>rd</sup> in clause 2.3 - 1 <sup>st</sup> se		Clause:	Other clause:	
	xity, validation, competence	CEN TC concerned:		
How shall the NB consider the complexity of the product? Solution: The complexity of annex IV products may vary substantially. A circular saw with electro-mechanical control components only is for example less complex than a Logic Unit to ensure safety functions realized with several microprocessors (hardware and software) to control a work tool machine. The validation of the applied design process and the validation of the specific product need an adequate level of detail and therefore an adequate amount of time, which means that the conformity assessment process needs more time for complex products. At least one of the members of the audit team shall have appropriate competence in the technical field and in the corresponding ESHR of the MD.				

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.014 Revision 04 Language: E
Date of first stage: 28/01/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Working Group</li> </ul>	17/09/2007 10/06/2008 Endorsed on: 08/01/2009
Question related to: Directiv	re 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.2 - 6 <sup>th</sup> in clause 2.3 - 1 <sup>st</sup> se		Clause:	Other clause:
		CEN TC concerned:	
Key words: competency qua	alification of personnel, product specific requirement	ents	
	assess the qualifications of the manufacturer's p	ersonnel?	
affect the conformance of the	sure that records are available to demonstrate the product with the relevant legislation/standards articular processes and awareness of the application of the applic	. Competency shall include, but not	t be limited to, product

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	Machinery Directive 2006/42/EC + Amendment		CNB/M/13.015 Revision 04 Language: E
Date of first stage: 28/01/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	17/09/2007 10/06/2008 Endorsed on:
		Machinery Working Group	08/01/2009
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.2 - 7th ind clause 2.3 - 1st se		Clause:	Other clause:
		CEN TC concerned:	
Key words: machinery desig	gn, quality, compliance		
Question: How shall the Notified Body	assess the means of monitoring the achievemer	nt of the required design and quality	of the machinery?
directive. This compliance i the directive. In addition to the ability of the order to ensure that the diffi- state of the art. In the second instance, the machinery to the "approved production. The manufacture	question: iffied Body (NB) has to check demonstrated "des s assessed by sampling, mainly by examination of the manufacturer to prepare an adequate technica- erent versions of the machinery will still comply w NB has to check the existence and application o " design. These procedures must also ensure m rer has to ensure that test or check result data and last date of manufacture of that product.	of the representative technical files a al file, it is important to assess the p rith the requirements, taking into acc f procedures for effective control of onitoring of subcontracted and/or lic	as defined by Annex X of procedures developed in count the evolution of the the conformity of produced censed design and

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>9</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.016 Revision 05 Language: E
Date of first stage: 2/01/200	8	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	23/10/2012 (*) 10/06/2008
		To be endorsed by: Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Directi	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.3	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: existing certification	ation, conformance, certified quality system		
Question: Can the NB fully rely on an	existing certificate (e.g. for ISO 9001)?		
Annex X. An ISO 9001 cert particular Annex X), but it i a NB can issue certification for such certification.	ed to ISO 9001 alone cannot be considered adec ified quality system must be adapted to integrate s up to the Notified Body (NB) undertaking the as of conformance with Annex X of the Machinery ference to an out of date version of ISO 9001	the additional requirements of the ssessment to determine the extent t	Machinery Directive (in o further modification. Only

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> , <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.017 Revision 02 Language: E
Date of first stage: 08/10/20	07	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	17/09/2007 04/12/2007
		To be endorsed by: Machinery Working Group	Endorsed on: 04/06/2008
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.3	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: auditors, expert	s, competence		
Question: Must the team of the audito	rs consist of at least two persons?		
number of categories of ma auditor(s).	a shall be adequate for the size of the company o achinery. If the auditor's competence does not co shall not be regarded as an auditor.		

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY O, NOTIFIED 8000	Machinery Directive 2006/42/EC + Amendment		CNB/M/13.018 Revision 02 Language: E
Date of first stage: 08/10/20	07	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	17/09/2007 04/12/2007
		To be endorsed by: Machinery Working Group	Endorsed on: 04/06/2008
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.3	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: EHSR, technica	al file, review		
Question: How deep shall the review of	of the technical file be if its purpose is to ensure it	ts compliance with the relevant HSR	?
	tial health and safety requirements can only be e but without a detailed product inspection.	nsured, if the technical file is review	ed in a similar manner to

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	Machinery Directive 2006/42/EC + Amendment		CNB/M/13.019 Revision 04 Language: E
Date of first stage: 28/01/20	008	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Working Group</li> </ul>	17/09/2007 10/06/2008 Endorsed on: 08/01/2009
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.4	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: product change	s, changes of quality system, significant changes	, contract	
Question: Is the planned change of th	e product covered by the planned change of the o	quality system?	
each category of machiner nor - conversely - does a cl inform the NB about signific changes of the quality syste	ed Boy (NB) in assessing and approving a full qu y referred to in Annex IV. A change of the quality hange of the machinery necessarily result in a ch cant changes of the relevant technical files which em. It is recommended that contractual agreement information on product changes and new produ	system does not necessarily cause ange of the quality system. So the may have implications on the qualit nt between the NB and the manufac	a change in the product manufacturer shall only y system as well as direct

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY or NOTIFIED 800	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.020 Revision 04 Language: E
Date of first stage: 28/01/20	008	To be approved by:	Approved on:
Origin: VG13 Full quality as	ssurance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> </ul>	17/09/2007 10/06/2008
		To be endorsed by: Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Direct	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.3	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: notification, rep	ort, certificate		
Question: How should a Notified Bod	y notify its decision?		
written report and/or an ap and/or approval certificate within one month. Where a judgement to enable the M further assessment visit. W	all inform the Manufacturer or Authorised Represe proval certificate. If this is not provided at the end should be submitted to the Manufacturer or Author pproval certification is being withheld, the written anufacturer or Authorised Representative to idem /hether issued via written report or an approval certification is been approved in term	of the assessment visit itself, the works of the assessment visit itself, the works of the second report shall contain sufficient informatify and take appropriate corrective a pertificate, the NB shall ensure that c	rritten report of findings onable timeframe, normally nation and reasoned action prior to requesting a ertification is supported by

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	Machinery Directive 2006/42/EC + Amendment		CNB/M/13.021 Revision 04 Language: E
Date of first stage: 28/01/20	008	To be approved by:	Approved on:
Origin: VG13 Full quality as	ssurance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Working Group</li> </ul>	17/09/2007 10/06/2008 Endorsed on: 08/01/2009
Question related to: Directi	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 3.3	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: audit frequency	and duration, surveillance audits		
Question: How often have surveilland	e audits to be done by Notified Bodies?		
determined by the Notified processes, how much work production volumes (e.g. h	dits should not be longer than 12 months. The da Body taking into account the complexity of the M is sub-contracted etc.), the products involved (e igher volumes may require more frequent/longer frequency of surveillance audits.	anufacturer (e.g. number of sites, co .g. the number and variety of individ	omplexity of manufacturing dual products) and

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY 0, NOTIFIED BOIL	Machinery Directive 2006/42/EC + Amendment		CNB/M/13.022 Revision 02 Language: E
Date of first stage: 08/10/20	07	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	17/09/2007 04/12/2007
		To be endorsed by: Machinery Working Group	Endorsed on: 04/06/2008
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 3.4	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: unannounced v	isits, contracts		
Question: Are there additional conditional	ons for unannounced visits?		
Solution: Annex X of the directive indicates some of the reasons which might induce the need of unannounced visits. The frequency of these visits is a matter for the NB to determine at its discretion and, as appropriate following co-ordination with other notified bodies, but should not be unreasonable. A duly motivated complaint made to the NB by the Commission, a Member State, a manufacturer, another NB or any interested party is one of the factors which could trigger the need for an unexpected visit. It is recognised that the NB may carry out tests (or have them carried out) on the product where this is necessary to verify the quality system. Such tests should generally be confined to instances where clear evidence demonstrates that there is reasonable doubt about the effectiveness of the quality system to ensure that the machinery made under it conforms to the essential requirements of the directive. It is recommended that contractual agreement between the NB and the manufacturer foresees the possibility of these visits.			bodies, but should not be or any interested party is ry to verify the quality easonable doubt about the ements of the directive.

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.023 Revision 04 Language: E
Date of first stage: 08/10/20	07	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system       Image: Construction of the second system         Image: Construction of the second system	12/05/2009 10/06/2009
		To be endorsed by:Image: Machinery Working Group	Endorsed on: 25/12/2009
Question related to: Directiv	/e 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 4	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: obligation to pre	serve		
Question: Does only the technical file	referenced in 2.1 of Annex X need to be kept ava	ailable for the national authorities, fo	r a period of ten years?
	X does not remove the general duties of the main ble to the authorities for at least 10 years).	nufacturer as defined in Annex VII A	. clause 2 (all technical

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>N</sup> O <sub>77FIED</sub> <sup>8</sup> <sup>0</sup> <sup>1</sup> <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.024 Revision 04 Language: E
Date of first stage: 28/01/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> </ul>	17/09/2007 10/06/2008
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Direction	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 4	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: obligation to pre	eserve, quality assurance system documentation		
Question: Shall the Notified Body check whether a manufacturer of the machine keeps each version of the quality assurance system documentation for at least 10 years? Solution:			
Solution: Yes, the Notified Body must check whether a machine manufacturer keeps all versions of his quality assurance system which has had ar effect on any Annex IV product for at least ten years after the last of those products was manufactured.			

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.025 Revision 04 Language: E
Date of first stage: 28/01/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>Vertical Group</li><li>Horizontal Committee</li></ul>	17/09/2007 10/06/2008
		To be endorsed by: Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 4	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: last date of mar	nufacture		
Question: What is meant by the last da	ate of manufacture as used in Annex X?		
Solution:			
The last date of manufacture is the date upon which the last of a 'defined product' type is CE Marked with the intention of placing it on the market (be this into service or the supply chain). 'Defined product' means one that has a specific and unique identification name/number and is identified as such within a particular Technical File. The relevant records shall then be retained for a period of ten years from this last date of manufacture.			entification name/number

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>Sten</sup> MACHINERY <sup>S</sup> <sup>N</sup> O <sub>77FIED</sub> <sup>B</sup> ON <sup>2</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.026 Revision 02 Language: E
Date of first stage: 08/10/20	007	To be approved by:	Approved on:
Origin: VG13 Full quality as	ssurance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> </ul>	17/09/2007 04/12/2007
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 04/06/2008
Question related to: Directi	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: audit frequency	and duration, assessment		
Question: Is there a minimum require	ment for the time to be allocated to the assessme	nt?	
(e.g. number of sites, comp number and variety of indiv of IAF Guide 62 should be	y of assessment visits shall be determined by the plexity of manufacturing processes, how much wo vidual products) and production volumes ( e.g. hig used as a basis for determining a minimum base ded based upon experience gained from similar n	ork is sub-contracted etc.), the prod her volumes may require more freq line duration for the assessment vis	ucts involved (e.g. the uent/longer visits). Annex 2

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.028 Revision 03 Language: E
Date of first stage: 08/05/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality ass	surance	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	17/09/2007 10/06/2008
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 08/01/2009
Question related to: Directiv	e 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 2.1 - 3 <sup>rd</sup> inc clause 2.3 - 3 <sup>rd</sup> pa		Clause:	Other clause:
		CEN TC concerned:	
Key words: technical file, sa	mple, manufacturing facilities, inspections, audit	plan	
Question: What is the role of the Notified Body in the review of the technical file?			
Solution: The role of the Notified Body (NB) is to check whether the technical file fulfils the EHSR of the MD and to verify that the quality system can produce the product in conformance with the technical file. It is not the responsibility of the NB to test the product. When studying the technical file(s) submitted by the manufacturer, the NB prepares the audit and possible inspections at the places of design, manufacture, inspection, testing and storage. This will allow him to send an audit plan to the manufacturer before his assessment There are two steps in the review of the technical file. 1. The NB will make a specific analysis of one technical file duly selected for each category of machinery and provided by the manufacturer in the context of section 2.1 – 3 <sup>rd</sup> indent. 2. During the audit, the NB will also review the existing technical files according to section 2.3 – 3 <sup>rd</sup> paragraph. The main purpos here is to check that the existing files are established with the same approach as the sample selected for deeper analysis. Note: For an annex X conformity assessment there will be no sample of the type of machinery to be examined at the site of the NB. All checks of samples to confirm compliance with the technical file have to be witnessed at the manufacturing facilities. A precondition to do these checks is the knowledge of the technical file of the representative model.		ct. ections at the places of rer before his assessment. ery and provided by the ragraph. The main purpose I for deeper analysis. at the site of the NB. All	

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY 0, NOTIFIED 80	Machinery Directive 2006/42/EC + Amendment		CNB/M/13.029 Revision 03 Language: E
Date of first stage: 21/08/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committee</li></ul>	21/08/2008 09/12/2008
		To be endorsed by: ☑ Machinery Working Group	Endorsed on: 18/06/2009
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: Subcontract			
Question: Is it possible for a Notified Body to subcontract to another Notified Body or another institution?			
Solution: Yes, it is permissible for a Notified Body to sub-contract some activities to another organisation including another NB or Subsidiary as defined within article R20 of the DECISION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ON A COMMON FRAMEWORK FOR THE MARKETING OF PRODUCTS 768/2008/CE: According to article 20, the original Notified Body must at least: <ul> <li>ensure that the subcontractor or the subsidiary meets the requirements set out for Notified Bodies and inform the notifying authority of their use;</li> <li>take full responsibility for the tasks performed by subcontractors or subsidiaries wherever these are established;</li> <li>have the agreement of the client;</li> <li>ensure the other institution is technically competent;</li> <li>clearly define the task(s) to be performed by the other institution and establish a suitable contract; and</li> <li>monitor the performance of the subcontractor or subsidiary.</li> </ul> <li>It should be noted that some Member States include within their terms of appointment a requirement for a Notified Body to advise them of all sub-contracted activities.</li>		A COMMON	

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1 of CNB/M/13.030/R/E Rev 03
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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	EC + Amendment	CNB/M/13.030 Revision 03 Language: E
Date of first stage: 21/08/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>☑ Vertical Group</li> <li>☑ Horizontal Committee</li> </ul>	
		To be endorsed by: Machinery Working Group	Endorsed on: 18/06/2009
Question related to: Directive	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X.3.3	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: reassessment			
Question: How is re-assessment of the quality system achieved?			
<ul> <li>Solution:</li> <li>The directive indicates that "the frequency of periodic audits shall be such that a full reassessment is carried out every three years". This requirement gives two possibilities for reassessment:</li> <li>1. The NB issues an approval certificate valid for a period of three years and embarks of a surveillance programme, including periodic audits, which ensure that all aspects of the quality system are assessed within the three years of validity. Prior to expiry of the approval certificate, the NB reviews the audits performed during that period and if this is considered satisfactory, it issues a new approval certificate valid for a period of three years and embarks of a surveillance programme including periodic audits. Prior to expiry of the approval certificate the NB arranges to attend the manufacturers to perform a full reassessment of the quality system. If the assessment is found to be acceptable a new approval certificate, valid for a period of three years, is issued.</li> <li>Note: Where the NB holds accreditation to EN ISO/IEC 17021, option 1 may not be permissible.</li> </ul>			

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

Page 1/1	of CNB/M/13.031/R/E Rev 0	4

MACHINERY 0, NOTIFIED BOOM	Machinery Directive 2006/42/EC + Amendment		CNB/M/13.031 Revision 04 Language: E
Date of first stage: 12/05/2	009	To be approved by:	Approved on:
Origin: VG13 Full quality a	ssurance	<ul> <li>✓ Vertical Group</li> <li>✓ Horizontal Committee</li> <li>To be endorsed by:</li> <li>✓ Machinery Working Group</li> </ul>	
Question related to: Direct	ive 2006/42/EC Article:	EN/prEN:	Other:
Annex: X	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words:			
is detected? Note: A major non-conform requirements, or a situation the manufacturer is supply Solution: The Notified Body suspend shortest possible time. If the	Notified Body when a major non-compliance with hity is the absence of, or the failure to implement a n which would, on the basis of available objective ing. ds the approval of the quality system and requires nese are not corrected appropriately, the Notified I n obligations for the Notified Bodies according to A	and maintain, one or more quality n evidence, raise significant doubt as the manufacturer to resolve the no Body withdraws the approval of the	nanagement system to the conformity of what n-conformities within the

<sup>(1)</sup> Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

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MACHINERY <sup>0</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	CO-ORDINATION OF NOT Machinery Directive 2006/42/I RECOMMENDATION	EC + Amendment	CNB/M/13.033 Revision 04 Language: E
Date of first stage: 21/08/20	08	To be approved by:	Approved on:
Origin: VG13 Full quality as	surance	<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	23/10/2012 (*) 09/12/2008 Endorsed on:
Question related to: Directiv	(0.2006/42/EC Article:	Machinery Working Group	18/06/2009
		EN/prEN:	Other:
Annex: X. 2.3.	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: quality system, a	audit plan		
Question: What kind of documentation is to be delivered to the manufacturer by the Notified Body (audit plan)?			
<ul> <li>Solution:</li> <li>The programming and planning of audits is an essential process to satisfy the needs and expectations of both Notified Body and applicant.</li> <li>An audit plan should be sent to the manufacturer. The audit plan should cover</li> <li>Identification of the applicable standard (for instance ISO 9001) and type of audit (initial assessment, surveillance)</li> <li>The dates of the audit</li> <li>The planned duration of each significant audit event</li> </ul>			
<ul> <li>Indication of the activities and clauses to be audited. Depending on the results of previous surveillance visits, focus can be set on some parts of the quality system concerned with design and/or manufacture (results of calculations, reports on the qualification of the personnel concerned)</li> </ul>			
- Identification of the aud	Identification of the audit team members		
- Identification of the lan	Identification of the language of the audit		
- Indication of the sites to be audited			
The audit plan should be sent to the client at least five working days prior to the audit. (*) Updating – to remove reference to an out of date version of ISO 9001			

(1) Essential safety requirement Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE       CNBM/13.034 Revision 04 Language: E         Date of first stage: 21/08/2008       To be approved by:       Approved on:         Origin: VG13 Full quality assurance       I       Vertical Group       12/05/2009         Image: X       Vertical Group       21/07/2009       10/06/2009         Question related to: Directive 2006/42/EC       Article:       Norifer:       Other:         Annex: X       ESR (1):       Clause:       Other:       Other:         Question:       ESR (1):       Clause:       Other:       Clause:         Solution:       X       Correctificate?       Verticate of an Annex X approval of a quality assurance system shall contain as a minimum, the;       •       •         •       manufacturers name and address;       •       •       •       •         •       manufacturers name and addresse;       •       •       •       •         •       iminimum contents of an Annex X approval of machines according to Annex IV and generic product description       •       •       •         •       manufacturers name and addresses;       •       •       •       •       •         •       oterificate of an Annex X approval (if any);       •       •	Page 1/3 of CNB/P/13.034/R/E Rev 04			
Origin: VG13 Full quality assurance       ✓       Vertical Group       1205/2009         Image: Comparison of the spore of the system of the	MACHINERY 0, NOTIFIED 80	Machinery Directive 2006/42/EC + Amendment		Revision 04
Image: Constraint of the approval of a quality assurance system shall contain as a minimum, the;       0 <t< td=""><td>Date of first stage: 21/08/200</td><td>08</td><td>To be approved by:</td><td>Approved on:</td></t<>	Date of first stage: 21/08/200	08	To be approved by:	Approved on:
Image: Solution:       Image: Solution related to: Directive 2006/42/EC Article: ESR (1):       EN/prEN: Other: Other clause: Clause: Other clause: CEN TC concerned:         Key words: certificate       CEN TC concerned:       Center clause: CEN TC concerned:         What are the minimum contents of an Annex X approval certificate?       Solution:       Solution:         A certificate of an Annex X approval of a quality assurance system shall contain as a minimum, the;       scope of approval, including category and/or sub-category of machines according to Annex IV and generic product description         Iminitations of the approval (if any);       date of issue;       date of sisue;       date of expiry;         issuing Notified Body; and       person within the Notified Body authorising the certificate       issuing Notified Body; and       restrificate         The above reflects the minimum information necessary, but is not an exhaustive list.       The above reflects the minimum information necessary.       The above reflects the minimum information necessary.       Solution approxing the certificate	Origin: VG13 Full quality ass	surance		
Annex: X       ESR (1):       Clause:       Other clause:         Key words: certificate       CEN TC concerned:       CEN TC concerned:         Question:       What are the minimum contents of an Annex X approval certificate?       Solution:         Solution:       A certificate of an Annex X approval of a quality assurance system shall contain as a minimum, the;       Imanufacturers name and address;       Imanufacturers name and address;         Imanufacturers name and address;       Imanufacturers name and address;       Imanufacturers name and address;       Imanufacturers name and address;         Imanufacturers name and address;       Imanufacturers name and address;       Imanufacturers name and address;       Imanufacturers name and address;         Imanufacturers name and address;       Imanufacturers name and address;       Imanufacturers name and address;       Imanufacturers name and address;         Imanufacturers name and address;       Imanufacturers name and address;       Imanufacturers name and address;       Imanufacturers name and address;         Imanufacturers of the approval (if any);       Imanufacturers name and addresses of the approval and Imanufacturers       Imanufacturers         Imanufacturers of a names and addresses of the sites which have been assessed.       Imanufacturers       Imanufacturers         The above reflects the minimum information necessary, but is not an exhaustive list.       Imanufacturers       Imanufacturers				
CENT(r):       CENTC concerned:         CENTC concerned:       CENTC concerned:         Question:       What are the minimum contents of an Annex X approval certificate?         Solution:       A certificate of an Annex X approval of a quality assurance system shall contain as a minimum, the;         o       manufacturers name and address;         o       scope of approval, including category and/or sub-category of machines according to Annex IV and generic product description         o       limitations of the approval (if any);         o       date of issue;         o       date of expiry;         issuing Notified Body; and       person within the Notified Body authorising the certificate         o       names and addresses of the sites which have been assessed.         The above reflects the minimum information necessary, but is not an exhaustive list.	Question related to: Directiv	e 2006/42/EC Article:	EN/prEN:	Other:
Key words: certificate         Question:         What are the minimum contents of an Annex X approval certificate?         Solution:         A certificate of an Annex X approval of a quality assurance system shall contain as a minimum, the; <ul> <li>manufacturers name and address;</li> <li>scope of approval, including category and/or sub-category of machines according to Annex IV and generic product description</li> <li>limitations of the approval (if any);</li> <li>date of issue;</li> <li>date of expiry;</li> <li>issuing Notified Body; and</li> <li>person within the Notified Body authorising the certificate</li> <li>names and addresses of the sites which have been assessed.</li> </ul> The above reflects the minimum information necessary, but is not an exhaustive list.	Annex: X	ESR (1):	Clause:	Other clause:
Question:         What are the minimum contents of an Annex X approval certificate?         Solution:         A certificate of an Annex X approval of a quality assurance system shall contain as a minimum, the; <ul> <li>manufacturers name and address;</li> <li>scope of approval, including category and/or sub-category of machines according to Annex IV and generic product description</li> <li>limitations of the approval (if any);</li> <li>date of issue;</li> <li>date of expiry;</li> <li>issuing Notified Body; and</li> <li>person within the Notified Body authorising the certificate</li> <li>names and addresses of the sites which have been assessed.</li> </ul> The above reflects the minimum information necessary, but is not an exhaustive list.			CEN TC concerned:	
What are the minimum contents of an Annex X approval certificate?         Solution:         A certificate of an Annex X approval of a quality assurance system shall contain as a minimum, the; <ul> <li>manufacturers name and address;</li> <li>scope of approval, including category and/or sub-category of machines according to Annex IV and generic product description</li> <li>limitations of the approval (if any);</li> <li>date of issue;</li> <li>date of expiry;</li> <li>issuing Notified Body; and</li> <li>person within the Notified Body authorising the certificate</li> <li>names and addresses of the sites which have been assessed.</li> </ul> The above reflects the minimum information necessary, but is not an exhaustive list.	Key words: certificate			
Solution:         A certificate of an Annex X approval of a quality assurance system shall contain as a minimum, the;         omanufacturers name and address;         oscope of approval, including category and/or sub-category of machines according to Annex IV and generic product description         olimitations of the approval (if any);         odate of issue;         odate of expiry;         oissuing Notified Body; and         operson within the Notified Body authorising the certificate         onames and addresses of the sites which have been assessed.	Question:			
<ul> <li>A certificate of an Annex X approval of a quality assurance system shall contain as a minimum, the;</li> <li>manufacturers name and address;</li> <li>scope of approval, including category and/or sub-category of machines according to Annex IV and generic product description</li> <li>limitations of the approval (if any);</li> <li>date of issue;</li> <li>date of expiry;</li> <li>issuing Notified Body; and</li> <li>person within the Notified Body authorising the certificate</li> <li>names and addresses of the sites which have been assessed.</li> </ul>	What are the minimum contents of an Annex X approval certificate?			
<ul> <li>manufacturers name and address;</li> <li>scope of approval, including category and/or sub-category of machines according to Annex IV and generic product description</li> <li>limitations of the approval (if any);</li> <li>date of issue;</li> <li>date of expiry;</li> <li>issuing Notified Body; and</li> <li>person within the Notified Body authorising the certificate</li> <li>names and addresses of the sites which have been assessed.</li> </ul>	Solution:			

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

## Example Certificate

## EC APPROVAL OF A QUALITY ASSURANCE SYSTEM

In accordance with the requirements of the Machinery Directive 2006/42/EC

This is to certify that the Full Quality Assurance System of:

<Company Name> <Company Address> <Company Address>

has been assessed against the requirements of Annex X of Machinery Directive 2006/42/EC and conforms to the requirements for the following scope of approval:

Design and manufacture of <generic product description and any applicable limitations>

This certificate is only valid when accompanied by a current schedule with the same number detailing the categories of machinery corresponding to this approval.

Approval is subject to the continued surveillance of the Full Quality Assurance System in accordance with the requirements of the above Directive. Unauthorised changes to the Full Quality Assurance System will render this approval invalid.

Authorisation is hereby given to use the Notified Body Identification Number in accordance with the requirements of the specified Directive in relation to the categories of machinery identified in this certificate and accompanying schedule.

<certificate number=""></certificate>
<original date="" issue=""></original>
<subsequent date="" issue=""></subsequent>
<expiry date=""></expiry>
<nb number=""></nb>

Issued by: <NB Signatory>

## EC APPROVAL OF A QUALITY ASSURANCE SYSTEM CERTIFICATE *Certificate Number* SCHEDULE

In accordance with the requirements of the Machinery Directive 2006/42/EC

## <Company Name> <Company Address> <Company Address>

Only the following specific categories of machinery (as defined within Annex IV of the above Directive) are covered by this approval of a quality assurance system:

Annex	Category Description
IV	
Claus	
e	

Schedule Issue: <Schedule Number>

Date of Schedule Issue: <Schedule Date>

Notified Body Number <NB Number>

Issued by: <NB Signatory>

Stenn CO-OROINAID SHOW CO-OROINAID MACHINERY Or NOTIFIED 8001	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.035 Revision 04 Language: E			
Date of first stage: 09/12/20	08	To be approved by:	Approved on:			
Origin:		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> </ul>	12/05/2009 10/06/2009			
		Machinery Working Group	Endorsed on: 25/12/2009			
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:			
Annex: X	ESR (1):	Clause:	Other clause:			
		CEN TC concerned:				
Key words: Subcontract						
Question: How should subsidiaries of the manufacturer be dealt with?						
Solution:						
	06/42/EC requires that the 'manufacturer' (e.g. <i>th</i> Ifils the requirements of an appropriate Conform		for placing the product on			
the market in their name) fulfils the requirements of an appropriate Conformity Assessment Procedure. One possible option for an Annex IV product is the Full Quality Assurance procedure under Annex X. In this instance the Notified Body must assess the 'manufacturers' quality system to determine conformity with the requirements of Annex X. This assessment must include a visit to all manufacturing sites pertinent to ensuring the conformity of the product with the specified requirements, including those of subsidiaries of the 'manufacturer'. In such circumstances the Notified Body shall include details of the subsidiary's address within the certificate of approval. This assumes that the subsidiaries are relevant to the certification.						
If the subsidiary of the 'manufacturer' intends to place the product on the market in their own name then they are taking on the role of the 'manufacturer' and consequently must fulfil the requirements of an appropriate Conformity Assessment Procedure in their own right. Care shall be taken of the rights of the original manufacturer including intellectual property rights.						

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY <sup>0</sup> <sup>N</sup> <sup>N</sup> <sup>N</sup> <sup>O</sup> <sup>T</sup> <sup>FIED</sup> <sup>B</sup> <sup>O</sup> <sup>S</sup> <sup>O</sup> <sup>S</sup> <sup>S</sup> <sup>S</sup> <sup>S</sup> <sup>S</sup> <sup>S</sup> <sup>S</sup> <sup>S</sup>	CO-ORDINATION OF NOTIFIED BODIES Machinery Directive 2006/42/EC + Amendment RECOMMENDATION FOR USE		CNB/M/13.037 Revision 03 Language: E
Date of first stage: 12/05/20	09	To be approved by:	Approved on:
Origin: VG13 Full quality assurance		<ul> <li>Vertical Group</li> <li>Horizontal Committee</li> <li>To be endorsed by:</li> <li>Machinery Working Group</li> </ul>	12/05/2009 10/06/2009 Endorsed on: 25/12/2009
Question related to: Directiv	ve 2006/42/EC Article:	EN/prEN:	Other:
Annex: X clause 3.2	ESR (1):	Clause:	Other clause:
		CEN TC concerned:	
Key words: surveillance, qu	ality system, technical file		
Solution: No. At the very first audit th	e NB has to see at least one model of each cate the from the technical file that was audited a mode years.	gory of machinery to assess the full	

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.

MACHINERY 0, 10, 7, FIED 80	CO-ORDINATION Machinery Directive RECOMMEN	CNB/M/14.001 Revision 03 Language: E				
Date of first stage: 17.10.20	13	To be approved b	by: Approved on:			
Origin: VG 14 Portable cartridge-operated fixing and other impact machinery		<ul><li>☑ Vertical Group</li><li>☑ Horizontal Committ</li></ul>				
		To be endorsed ☑ Machinery Working				
Question related to: Directive	ve 2006/42/EC Article: 2.2.2	EN/prEN: EN 15895	Other: EN16264			
Annex: I and IV	Annex: I and IV ESR (1):		Other clause: ISO12100			
		CEN TC concerned: TC	213 WG 2			
Key words: Bolt setting devi	machinery					
Question:						
What kind of devices have t	to be treated under the Machine Directiv	e Annex IV, No.18.				
Cartridge operated portable fixing and other impact machinery must be designed and constructed in such a way that energy is transmitted to the impacted element by the intermediary component that does not leave the device: Classification of all known technical cartridge operated devices:						
Cartridge Actuated Device	ces :					
		a) covered by Annex IV of MD	b) considered as fire arms not in scope of MD			
Bolt Setting Device (indi	rect piston driven)	X				
Bolt Shooting Device (di	rect cartridge driven)		X			
Hard Marking Devices		X				
Cattle Stunning Devices		X*				
Cord Launching Devices			X			
Cable Shooting Devices			X			
Industrially Used Cannon			X X			
Self-Shooting Vole Trapping Devices			× ×			
Seismological Test Explosion Devices Cutting and Separating with Counter Bearings		X	Λ			
Water Shooting Devices and Disruptors		X	X			
Launcher for Retriever D	•		X			
a)Indirect actuating principle according to M.D. b)direct actuating principle *See Guide to Application of the Machinery Directive 2006/42/EC, Print Version: June 2010, 2. Edition, para. 280						

Note: According to point 6.6 of the Guide of the implementation of directives based on the New Approach and the Global Approach, the notified bodies apply as general guidance this recommendation for use.