

Prüfprogramm nach Maschinenrichtlinie 2006/42/EG			
<i>Test program according to machinery directive 2006/42/EC</i>			
Revisionsstand: <i>Edition:</i>	00	Revisionsdatum: <i>Date of Edition:</i>	29.08.2016
Mindestanforderungen und Prüfungen <i>(Minimum requirements and tests)</i>			
Prüfzeitraum: <i>Period of testing</i>	Auftragsnummer: <i>Order number:</i>	Sachbearbeiter: <i>Test engineer:</i>	
von: 29.08.2016 <i>Beginning:</i>	OPE-164096	Oelgemöller, K-H.	
bis: <i>Termination:</i>			
Antragsteller: <i>Applicant:</i>	Norbert Wienold GmbH, Material- und Personenlifte, Industriegebiet Waldstr. 35 a, D-48488 Emsbüren		
Produktart: <i>Type of product:</i>	MFC 750		
Hersteller: <i>Manufacturer:</i>	Norbert Wienold GmbH, Material- und Personenlifte, Industriegebiet Waldstr. 35 a, D-48488 Emsbüren		
Vertreiber: <i>Merchant:</i>	Norbert Wienold GmbH, Material- und Personenlifte, Industriegebiet Waldstr. 35 a, D-48488 Emsbüren		
Typenbezeichnung: <i>Type:</i>	MFC 750		
Fabrik- / Serien-Nr.: <i>Serial number:</i>			
Zubehör: <i>Accessories:</i>	Nein		
Kenndaten: <i>Characteristics:</i>	Traglast: 500kg bei max. Auslage von 1,0m vor dem Rad (Ausführung lang)(bei 28 x 16kg)		
Sonstiges: <i>Miscellaneous:</i>	Traglast: 250 kg bei max. Auslage von 1,0m vor dem Rad (Ausführung kurz)(bei 28 x 16kg)		
Mitgeltende Normen: <i>Also effective standards:</i>	<ul style="list-style-type: none"> - DIN EN 13001-1- Krane – Konstruktion allgemein – Teil 1: Allgemeine Prinzipien und Anforderungen - DIN EN 13001-2- Kransicherheit – Konstruktion allgemein – Teil 2: Lasteinwirkungen - DIN EN 14492-1- Krane –Kraftgetriebene Winden und Hubwerke – Teil 1: Kraftge-triebene Winden - DIN EN 14492-2- Krane – Kraftgetriebene Winden und Hubwerke – Teil 2: Kraftge-triebene Hubwerke DIN EN 60529 (VDE 0470-1):2014-09 Schutzarten durch Gehäuse (IP-Code) (IEC 60529:1989 + A1 :1999 + A2:2013); Deutsche Fassung EN 60529:1991 + A1:2000 + A2:2013 		
	Datum: <i>(Date)</i>	Prüfer: <i>(Inspector)</i>	
Hauptprüfung am: <i>General inspection on:</i>	27.10.2016	Dipl.-Ing. K-H. Oelgemöller	pos. <input type="checkbox"/> neg. <input type="checkbox"/>
1. Nachprüfung am: <i>1st check over on:</i>			pos. <input type="checkbox"/> neg. <input type="checkbox"/>
2. Nachprüfung am: <i>2nd check over on:</i>			pos. <input type="checkbox"/> neg. <input type="checkbox"/>

	Machinery must be supplied with integral lighting suitable for the operations concerned where the absence thereof is likely to cause a risk despite ambient lighting of normal intensity.		x															
	Machinery must be designed and constructed so that there is no area of shadow likely to cause nuisance, that there is no irritating dazzle and that there are no dangerous stroboscopic effects on moving parts due to the lighting.		x															
	Internal parts requiring frequent inspection and adjustment, and maintenance areas must be provided with appropriate lighting.		x															
1.1.5.	Design of machinery to facilitate its handling																	
	Machinery, or each component part thereof, must:																	
	— be capable of being handled and transported safely	x						1	1	1	1	1/ no		operating instructions	yes			
	— be packaged or designed so that it can be stored safely and without damage	x						1	1	1	1	1/ no		operating instructions	yes			
	During the transportation of the machinery and/or its component parts, there must be no possibility of sudden movements or of hazards due to instability as long as the machinery and/or its component parts are handled in accordance with the instructions.	x						1	1	1	1	1/ no		operating instructions	yes			
	Where the weight, size or shape of machinery or its various component parts prevents them from being moved by hand, the machinery or each component part must:																	
	— either be fitted with attachments for lifting gear, or	x						1	1	1	1	1/ yes	attachment point at outrigger	if machine as a whole is loaded, the attachment point etc. operating instructions	yes			
	— be designed so that it can be fitted with such attachments, or		x															
	— be shaped in such a way that standard lifting gear can easily be attached		x															
	Where machinery or one of its component parts is to be moved by hand, it must:																	
	— either be easily moveable, or	x						1	1	1	1	1/ yes		special chassis operating instructions	yes			
	— be equipped for picking up and moving safely	x						1	1	1	1	1/ yes		manual bar for pushing operating instructions	yes			

	— the machinery must not be prevented from stopping if the command has already been given,																	
	— no moving part of the machinery or piece held by the machinery must fall or be ejected,																	
	— automatic or manual stopping of the moving parts, whatever they may be, must be unimpeded,																	
	— the protective devices must remain fully effective or give a stop command.																	
1.3.	PROTECTION AGAINST MECHANICAL HAZARDS																	to guarantee safe and appropriate use of the unit, the unit is to put into operation exclusively by operators instructed by authorized specialists
1.3.1.	Risk of loss of stability																	
	Machinery and its components and fittings must be stable enough to avoid overturning, falling or uncontrolled movements during transportation, assembly, dismantling and any other action involving the machinery.	x		use only on firm and level surface - no wind load -load center within permitted limit	tilting	2	2	1	2	4/ yes	additional outrigger; counterweights	DIN EN 13001 verification of stability verification of strength operating instructions	yes					
	If the shape of the machinery itself or its intended installation does not offer sufficient stability, appropriate means of anchorage must be incorporated and indicated in the instructions.		x															
1.3.2.	Risk of break-up during operation																	
	The various parts of machinery and their linkages must be able to withstand the stresses to which they are subject when used.	x		DIN EN 13001		2	1	1	1	2/ yes		verification of strength overload test of each unit operating instructions	yes					
	The durability of the materials used must be adequate for the nature of the working environment foreseen by the manufacturer or his authorised representative, in particular as regards the phenomena of fatigue, ageing, corrosion and abrasion.	x		no overload material grade change	breakage	2	1	1	1	1/ yes	to document material assignment for load-bearing components and welding seams incomplete machine from subconstructor	material assignment for statically relevant components according to DIN EN 10204-3.1 quality requirements for fusion welding of metallic materials according to ISO3834-4 operating instructions maintenance instruction	yes					
	The instructions must indicate the type and frequency of inspections and maintenance required for safety reasons. They must, where appropriate, indicate the parts subject to wear and the criteria for replacement.	x				2	1	1	2	2/ yes	deformed or damaged components are to be changed immediately	operating instructions maintenance instruction	yes					

	— the absence or failure of one of their components prevents starting or stops the moving parts.		x															
	Protective devices must be adjustable only by means of an intentional action.		x															
1.5.	RISKS DUE TO OTHER HAZARDS		x	electrician														to guarantee safe and appropriate use of the unit, the unit is to put into operation exclusively by operators instructed by authorized specialists
1.5.1.	Electricity supply		x															
	Where machinery has an electricity supply, it must be designed, constructed and equipped in such a way that all hazards of an electrical nature are or can be prevented.		x															
	The safety objectives set out in Directive 73/23/EEC shall apply to machinery. However, the obligations concerning conformity assessment and the placing on the market and/or putting into service of machinery with regard to electrical hazards are governed solely by this Directive.																	
1.5.2.	Static electricity																	
	Machinery must be designed and constructed to prevent or limit the build-up of potentially dangerous electrostatic charges and/or be fitted with a discharging system.	x		antistatic wheels			1	1	1	1	1/ yes	had been taken into account when constructed	operating instructions	yes				
1.5.3.	Energy supply other than electricity		x															
	Where machinery is powered by source of energy other than electricity, it must be so designed, constructed and equipped as to avoid all potential risks associated with such sources of energy.		x															
1.5.4.	Errors of fitting																	
	Errors likely to be made when fitting or refitting certain parts which could be a source of risk must be made impossible by the design and construction of such parts or, failing this, by information given on the parts themselves and/or their housings. The same information must be given on moving parts and/or their housings where the direction of movement needs to be known in order to avoid a risk.	x		assembly instruction/ operating instructions	stability, breakage		2	1	1	1	2/ yes	trained personnel	technical drawings; operating instructions	yes				
	Where necessary, the instructions must give further information on these risks	x					2	1	1	2	2/ yes	trained personnel	technical drawings; operating instructions	yes				
	Where a faulty connection can be the source of risk, incorrect connections must be made impossible by design or, failing this, by information given on the elements to be connected and, where appropriate, on the means of connection.	x		fuses, FI			2	1	1	1	2/ yes	trained personnel	technical drawings; operating instructions	yes				

	In the case of machinery capable of being plugged into an electricity supply, removal of the plug is sufficient, provided that the operator can check from any of the points to which he has access that the plug remains removed.																	
	After the energy is cut off, it must be possible to dissipate normally any energy remaining or stored in the circuits of the machinery without risk to persons.																	
	As an exception to the requirement laid down in the previous paragraphs, certain circuits may remain connected to their energy sources in order, for example, to hold parts, to protect information, to light interiors, etc. In this case, special steps must be taken to ensure operator safety.																	
1.6.4.	Operator intervention																	
	Machinery must be so designed, constructed and equipped that the need for operator intervention is limited. If operator intervention cannot be avoided, it must be possible to carry it out easily and safely.	x		lifting / lowering			1	1	1	1	1/ no	to take into account at construction	operating instructions	yes				
1.6.5.	Cleaning of internal parts		x	no machine tool														
	The machinery must be designed and constructed in such a way that it is possible to clean internal parts which have contained dangerous substances or preparations without entering them; any necessary unblocking must also be possible from the outside. If it is impossible to avoid entering the machinery, it must be designed and constructed in such a way as to allow cleaning to take place safely.																	
1.7.	INFORMATION																	
1.7.1.	Information and warnings on the machinery	x		operating instructions and label			2	2	2	3	6/ yes	operating instructions pictograms at unit	EG machinery directive	yes				
	Information and warnings on the machinery should preferably be provided in the form of readily understandable symbols or pictograms. Any written or verbal information and warnings must be expressed in an official Community language or languages, which may be determined in accordance with the Treaty by the Member State in which the machinery is placed on the market and/or put into service and may be accompanied, on request, by versions in any other official Community language or languages understood by the operators.	x																yes
1.7.1.1.	Information and information devices																	
	The information needed to control machinery must be provided in a form that is unambiguous and easily understood. It must not be excessive to the extent of overloading the operator.	x											operating instructions	yes				

(q) the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur, the operating method to be followed so as to enable the equipment to be safely unblocked;	x																	service technician	yes
(r) the description of the adjustment and maintenance operations that should be carried out by the user and the preventive maintenance measures that should be observed;	x																		yes
(s) instructions designed to enable adjustment and maintenance to be carried out safely, including the protective measures that should be taken during these operations;	x																		yes
(t) the specifications of the spare parts to be used, when these affect the health and safety of operators;	x		specification of spare parts																yes
(u) the following information on airborne noise emissions:	x		<70 dB(A)																yes
— the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A); where this level does not exceed 70 dB(A), this fact must be indicated,	x																		yes
— the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 µPa),		x																	
— the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A).		x																	
These values must be either those actually measured for the machinery in question or those established on the basis of measurements taken for technically comparable machinery which is representative of the machinery to be produced.	x																		yes
In the case of very large machinery, instead of the A-weighted sound power level, the A-weighted emission sound pressure levels at specified positions around the machinery may be indicated.		x																	
Where the harmonised standards are not applied, sound levels must be measured using the most appropriate method for the machinery. Whenever sound emission values are indicated the uncertainties surrounding these values must be specified. The operating conditions of the machinery during measurement and the measuring methods used must be described.		x																	
Where the workstation(s) are undefined or cannot be defined, A-weighted sound pressure levels must be measured at a distance of 1 metre from the surface of the machinery and at a height of 1,6 metres from the floor or access platform. The position and value of the maximum sound pressure must be indicated.	x																	details in operating instructions	yes

	— the functions in question.		x															
	Remote controlled machinery must be designed and constructed in such a way that it will respond only to signals from the intended control units.		x															
3.3.1.	Control devices		x															
	The driver must be able to actuate all control devices required to operate the machinery from the driving position, except for functions which can be safely actuated only by using control devices located elsewhere. These functions include, in particular, those for which operators other than the driver are responsible or for which the driver has to leave the driving position in order to control them safely.		x															
	Where there are pedals, they must be so designed, constructed and fitted as to allow safe operation by the driver with the minimum risk of incorrect operation. They must have a slip-resistant surface and be easy to clean.		x															
	Where their operation can lead to hazards, notably dangerous movements, the control devices, except for those with preset positions, must return to the neutral position as soon as they are released by the operator.		x															
	In the case of wheeled machinery, the steering system must be designed and constructed in such a way as to reduce the force of sudden movements of the steering wheel or the steering lever caused by shocks to the guide wheels		x															
	Any control that locks the differential must be so designed and arranged that it allows the differential to be unlocked when the machinery is moving.		x															
	The sixth paragraph of section 1.2.2, concerning acoustic and/or visual warning signals, applies only in the case of reversing.		x															
3.3.2.	Starting/moving	x																
	All travel movements of self-propelled machinery with a ride-on driver must be possible only if the driver is at the controls.		x															
	Where, for operating purposes, machinery is fitted with devices which exceed its normal clearance zone (e.g. stabilisers, jib, etc.), the driver must be provided with the means of checking easily, before moving the machinery, that such devices are in a particular position which allows safe movement.	x			outrigger in operator's / driver's field of view											operating instructions	yes	

