

Prüfbericht-Nr.: <i>Test Report No.:</i>	19617149 002	Auftrags-Nr.: <i>Order No.:</i>	166139708	Seite 1 von 13 Page 1 of 13
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	445975	Auftragsdatum: <i>Order date:</i>	03.05.2019	
Auftraggeber: <i>Client:</i>	Elecon Engineering Co. Ltd. – Gear Division, Anand Sojitra Road, Vallabh Vidyanagar - 388120, Gujarat, India.			
Prüfgegenstand: <i>Test item:</i>	Worm Gearbox			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	Refer Page No. 2			
Auftrags-Inhalt: <i>Order content:</i>	Testing & Issue of Test Report			
Prüfgrundlage: <i>Test specification:</i>	Annex I of 2006/42/EC Essential health and safety requirements relating to the design and construction of machinery			
Wareneingangsdatum: <i>Date of receipt:</i>	31.07.2019			
Prüfmuster-Nr.: <i>Test sample No.:</i>	Engineering Sample			
Prüfzeitraum: <i>Testing period:</i>	31.07.2019 – 18.11.2019			
Ort der Prüfung: <i>Place of testing:</i>	As Client			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (India) Pvt. Ltd.			
Prüfergebnis*: <i>Test result*:</i>	ausreichend / sufficient			
geprüft von / tested by:		kontrolliert von / reviewed by:		
26.11.2019	Hardik Patel/PE	26.11.2019	Gajendra Mahale/PE	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				
Sonstiges / Other:				
Product under test is a Gearbox without Motor. It is completely mechanical assembly. It is evaluated as partly completed machinery. Assembly Instruction Manual was referred for evaluation. Attachment to this report: Photo Documentation. This test report is valid with 19617149 001 only.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Product Description:

The helical-worm and the double-worm version, with or without the torque limiter, add up to the advantage, creating a highly versatile drive system.

Worm gearboxes provide high torque with low speed gear ratio. Being simple and compact in design, these gears can achieve higher gear ratio than the helical gears. These worm reduction gears having screw type qualities are similar to helical gears, but its helix angle is typically comparatively larger) and its body is normally quite long in the axial direction. The gears in these gearboxes can be right or left-handed depending upon the purpose.

Mounting option include universal housing, side flanges, foot (horizontal and vertical), shaft mounted with torque arm. Available in Solid shafts (single or double), with torque arm or torque limiter.

Technical Specifications: Single / Double / Multi Stage Worm gearbox

Application : It's general industrial application gear box and some of product known based on the application name i.e. Extruder, High speed and Cooling Tower.

Purpose : Gear box used as speed reducer / Increaser and the coupling use as connecting equipment between two shafts i.e. gearbox with drive or driven equipment. The transmission products useful for entire globe.

Model reference:**CATALOGUE SERIES :**

SNU-U/O/V/SM (1 5/8 TO 10.5), SFU/SFO/SFV/SSM (10,12,14,17) ER-O/V/U (4TO17),
SNU-UD/OD/VD/SMD (1 3/4 /30 TO 5/105), SFUD/OD/VD (5/10, 5/120,6/140,7/170),SSMD (5/120,6/140),
SNU/NU-CVDM (4 TO 8),CVDM (7 TO 14), SMM/SSM (3 TO 14), CTU (100 TO 350), CVM (3 TO 10.5)

NU-U/O/V/SM (1 5/8 TO 10.5), FSM/FVM/FIM (3 TO 12)

SPECIAL GEAR BOX :

FSUO (3 TO 14), HFS80, HNU (7 & 5), PBE3.54, 6NUP/6NUR-60/80-BHT/BST,WHV (5/120,6/120),
UCM/ALK/MEK 125,HW 160/3, HSSM (5,7,8,9,10.5,300), LUF (4,5), KHS (155,185,200,250,280,320) ER-
U/O/V (20, 24,28),
SFUD/VD (8/17 & 12/24), WORM PAIR (27, 36, 41)

SFU/SFO/SFV 20",24",28" , SJ 150,180,K118/60, 85 , KAN 80/90/100 , HSFU/O/V (4-17), HERU/O/V (4-17)
SFUD/SFVD/SFOD/ERUD/EROD/ERV D - (8/17, 10/20, 12/24, 14/28)

LIFT GEAR BOX :

ETM 045, EH (80,130.150,180,208,250,306)

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Abschnitt Clause	Anforderung / Requirement 2006/42/EC Annex I	Umsetzung durch Abschnitt der Norm, anderes: Implementation by clause of standard , other:
1.	Grundlegende Sicherheits- und Gesundheitsschutzanforderungen <i>Essential health and safety requirements</i>	
1.1.	Allgemeines <i>General remarks</i>	
1.1.1.	Begriffsbestimmungen <i>Definitions</i>	Informative
1.1.2.	Grundsätze für die Integration der Sicherheit <i>Principles of safety integration</i>	Safety aspects considered for foreseeable life time of the Gearbox in design and construction. User Manual contains information on how to deal with residual risk and on how to achieve operator's safety. Furthermore, warning labels is displayed on the equipment to caution about the residual risks. Misuse and human error scenarios as applicable have been taken into consideration in the design/construction of the equipment and compilation of its documentation. Human factors have been considered in the design of the equipment. No such stress is expected for this equipment. Personal protective equipment does not cause constraints.
1.1.3.	Materialien und Produkte <i>Materials and products</i>	Mild steel & Stainless steel used for Gearbox structure. Instruction manual describes in detail about material used for construction.
1.1.4.	Beleuchtung <i>Lighting</i>	Typical ambient light levels of the installed environment are considered sufficient for the safe and proper operation of the equipment.
1.1.5.	Konstruktion der Maschine im Hinblick auf die Handhabung <i>Design of machinery to facilitate its handling</i>	The Gearbox is readily transportable using conventional lifting means. Machine lifting & handling procedure described in the Manual with photographs. The labeling is also made available on packaging of equipment. The equipment is not supposed to be moved (transported) by hand.
1.1.6.	Ergonomie <i>Ergonomics</i>	The equipment is designed with all safety aspects for operator intervention during the normal running of the system.
1.1.7.	Bedienungsplätze <i>Operating positions</i>	The equipment not intended to use in hazardous environment.
1.1.8.	Sitze <i>Seating</i>	No operation planned to be carried out in seated position.
1.2.	Steuerungen und Befehlseinrichtungen <i>Control systems</i>	
1.2.1.	Sicherheit und Zuverlässigkeit von Steuerungen <i>Safety and reliability of control system</i>	No control system as gearbox is mechanical parts assembly without motor.
1.2.2.	Stellteile <i>Control devices</i>	See above.
1.2.3.	Ingangsetzen <i>Starting</i>	See above.
1.2.4.	Stillsetzen <i>Stopping</i>	See above.
1.2.4.1.	Normales Stillsetzen <i>Normal stop</i>	See above.
1.2.4.2.	Betriebsbedingtes Stillsetzen <i>Operational Stop</i>	See above.
1.2.4.3.	Stillsetzen im Notfall <i>Emergency stop</i>	See above.
1.2.4.4.	Gesamtheit von Maschinen	See above.

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Abschnitt Clause	Anforderung / Requirement 2006/42/EC Annex I	Umsetzung durch Abschnitt der Norm, anderes: Implementation by clause of standard , other:
	<i>Assembly of machinery</i>	
1.2.5.	Wahl der Steuerungs- und Betriebsarten <i>Selection of control or operating modes</i>	See above.
1.2.6.	Störung der Energieversorgung <i>Failure of the power supply</i>	See above.
1.3.	Schutzmassnahmen gegen mechanische Gefährdungen <i>Protection against mechanical hazards</i>	
1.3.1.	Risiko des Verlusts der Standsicherheit <i>Risk of loss of stability</i>	Equipment has to be lifted using the location provided in the user's manual. The assembly and disassemble instructions to be followed as given in the maintenance manual.
1.3.2.	Bruchrisiko beim Betrieb <i>Risk of break-up during operation</i>	The machine parts and transmission mechanism are designed and selected to withstand the foreseeable stresses. The materials are selected and treated against the external environmental effects. User Manual covers the maintenance/ adjustment with their frequency. All the parts are designed & assembled in a manner to withstand with the stresses developed during operation. The bought-out parts are selected as per design calculations. Case hardened Materials used for wear parts and it will not suddenly break and injure the operator.
1.3.3.	Risiken durch herabfallende oder herausgeschleuderte Gegenstände <i>Risk due to falling or ejected objects</i>	No such risk exists with the equipment. Warning provided to take necessary care during the Loading / unloading.
1.3.4.	Risiken durch Oberflächen, Kanten und Ecken <i>Risk due to surfaces, edges or angles</i>	All the edges, corners and surfaces are smoothed and rounded. Proper Gloves & PPE needs to be used while cleaning and maintenance.
1.3.5.	Risiken durch mehrfach kombinierte Maschinen <i>Risks related to combined machinery</i>	Not a combined machine.
1.3.6.	Risiken durch Änderung der Verwendungsbedingungen <i>Risks related to variations in operating conditions</i>	Not intended for different condition of use.
1.3.7.	Risiken durch bewegliche Teile <i>Risk related to moving parts</i>	All safety requirements related to fixed guards are fulfilling the above requirements. The warning label is provided to caution about the risk.
1.3.8.	Wahl der Schutzeinrichtungen gegen Risiken durch bewegliche Teile <i>Choice of protection against risks arising from moving parts</i>	The moving part of the system is fitted with guards to prevent risks of contact. The warning label is provided to caution about the risk.
1.3.8.1.	Bewegliche Teile der Kraftübertragung <i>Moving transmission parts</i>	Fixed guards are meeting the safety requirements.
1.3.8.2.	Bewegliche Teile, die am Arbeitsprozess beteiligt sind <i>Moving parts involved in the process</i>	Fixed guards are meeting the safety requirements.
1.3.9.	Risiko unkontrollierter Bewegungen <i>Risks of uncontrolled movements</i>	No such hazard.
1.4.	Anforderungen an Schutzeinrichtungen <i>Required characteristics of guards and protective devices</i>	
1.4.1.	Allgemeine Anforderungen General requirements	Wherever necessary, guards are provided. Captive screws used to fasten the guards. Warning labels provided on the machine and Installation, operational and Maintenance Manual.
1.4.2.	Besondere Anforderungen an trennende Schutzeinrichtungen <i>Special requirements for guards</i>	
1.4.2.1.	Feststehende trennende Schutzeinrichtungen	Tools required for removing the fixed guards.

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	<i>Fixed guards</i>	
1.4.2.2.	Bewegliche trennende Schutzeinrichtungen mit Verriegelung <i>Interlocking movable guards</i>	No interlocking movable guards.
1.4.2.3.	Zugangsbeschränkende verstellbare Schutzeinrichtungen <i>Adjustable guards restricting access</i>	No Adjustable guards.
1.4.3.	Besondere Anforderungen an nichttrennende Schutzeinrichtungen <i>Special requirements for protective devices</i>	No any protective devices.
1.5.	Risiken durch sonstige Gefährdungen <i>Risks due to other hazards</i>	
1.5.1.	Elektrische Energieversorgung <i>Electricity supply</i>	No Electrical supply.
1.5.2.	Statische Elektrizität <i>Static electricity</i>	No Static electricity.
1.5.3.	Nichtelektrische Energieversorgung <i>Energy supply other than electricity</i>	Hydraulic oil is used inside gearbox. Oil is non-flammable type. Instructions provided in manual for Leakage of oil during operation or replacement or refilling of oil inside gearbox.
1.5.4.	Montagefehler <i>Errors of fitting</i>	The equipment designed to avoid risk due to fitting / replacement of parts. All critical assemblies are doweled and cannot be assembled in wrong orientation. Details are mentioned in user manual.
1.5.5.	Extreme Temperaturen <i>Extreme temperatures</i>	Necessary protections provided. Also, warning labels and hazard symbols provided on the related machinery parts or material at high temperatures.
1.5.6.	Brand <i>Fire</i>	The warning labels are also provided on the equipment to caution about the hazard. - The materials used for building the equipment are FIRE retardant. - No any action on this station may initiate fire or lead fire. - It is ensured by the virtue of the equipment of material the FIRE does not propagate.
1.5.7.	Explosion <i>Explosion</i>	No such risk of explosion.
1.5.8.	Lärm <i>Noise</i>	Partly completed machinery. Sound level indicated in manual
1.5.9.	Vibrationen <i>Vibrations</i>	Vibrations generated are damped by the rigid construction of the structure Anti vibration pads used for this purpose. The vibrations are in the allowable range.
1.5.10.	Strahlung <i>Radiation</i>	No functional and non-ionizing radiation emission.
1.5.11.	Strahlung von außen <i>External radiation</i>	No such risk involved.
1.5.12.	Laserstrahlung <i>Laser equipment</i>	No source of laser radiation
1.5.13.	Emission gefährlicher [Werk]stoffe und Substanzen <i>Emissions of hazardous materials and substances</i>	No such risk involved.
1.5.14.	Risiko, in einer Maschine eingeschlossen zu werden <i>Risk of being trapped in a machine</i>	No such hazard.
1.5.15.	Ausrutsch-, Stolper-, und Sturzrisiko	No such hazard.

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	<i>Risk of slipping, tripping or falling</i>	
1.5.16.	Blitzschlag <i>Lightning</i>	No electrical supply.
1.6.	Instandhaltung <i>Maintenance</i>	
1.6.1.	Wartung der Maschine <i>Machinery maintenance</i>	Adjustment / Maintenance points are outside the danger zones. Warning provided in the manual to carry out the maintenance activities when the equipment is in OFF condition. Necessary warning labels are provided.
1.6.2.	Zugang zu den Bedienungsständen und den Eingriffspunkten für die Instandhaltung <i>Access to operating positions and servicing points</i>	No adjustment required during normal operation. Maintenance activity needs to be carried out only when the system is in OFF condition. Safe access is possible to areas with adequate Platform.
1.6.3.	Trennung von Energiequellen <i>Isolation of energy sources</i>	No energy sources.
1.6.4.	Eingriffe des Bedienungspersonals <i>Operator intervention</i>	No such operator intervention.
1.6.5.	Reinigung innen liegender Maschinenteile <i>Cleaning of internal parts</i>	The entry into the enclosure is required during maintenance by authorized personnel only. Use of PPE recommended for safe handling. Adequate space is provided for cleaning. For unavoidable areas where access is less it is recommended to use vacuum cleaner.
1.7.	Informationen <i>Information</i>	
1.7.1.	Informationen und Warnhinweise an der Maschine <i>Information and warnings on the machinery</i>	Information and warnings are provided in the form of symbols and pictograms.
1.7.1.1.	Informationen und Informationseinrichtungen <i>Information and information devices</i>	Unambiguous information provided in Installation, operational and Maintenance Manual. Help Text will be provided in ENGLISH Language.
1.7.1.2.	Warneinrichtungen <i>Warning devices</i>	No such warning devices as gearbox is partly completed machinery.
1.7.2.	Warnung vor Restrisiken <i>Warning of residual risks</i>	The system as inspected was fitted with warning signs using readily understandable pictograms in combination with textural elements in English. All markings are reproduced in the relevant manuals.
1.7.3.	Kennzeichnung der Maschinen Auf jeder Maschine müssen mindestens folgende Angaben erkennbar, deutlich lesbar und dauerhaft angebracht sein: - Firmenname und Anschrift des Herstellers (...) - Bezeichnung der Maschine - CE-Kennzeichnung (siehe Anhang III) - Baureihen- oder Typbezeichnung - Gegebenenfalls Seriennummer - Baujahr (...) Es ist untersagt, bei der Anbringung der CE-Kennzeichnung das Baujahr der Maschine vor- oder nachzutudieren. Ist die Maschine für den Einsatz in	Provided on Gearbox.

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	explosionsgefährdeter Umgebung konstruiert und gebaut, muss sie einen entsprechenden Hinweis tragen. Je nach Beschaffenheit müssen auf der Maschine ebenfalls alle für die Sicherheit bei der Verwendung wesentlichen Hinweise angebracht sein. (...) Muss ein Maschinenteil während der Benutzung mit Hebezeugen gehandhabt werden, so ist sein Gewicht leserlich, dauerhaft und eindeutig anzugeben. <i>Marking of machinery</i> <i>All machinery must be marked visibly, legibly and indelibly with the following minimum particulars:</i> - name and address of the manufacturer (...) - designation of the machinery - the CE marking (see Annex III) - designation of series or type - Serial no., if any - year of construction (...) <i>It is prohibited to pre-date or post-date the machinery when affixing the CE marking. Furthermore, machinery designed and constructed for use in a potentially explosive atmosphere must be marked accordingly. Machinery must also bear full information relevant to its type and essential for safe use.(...) Where a machine part must be handled during use with lifting equipment, its mass must be indicated legibly, indelibly and unambiguously.</i>	
1.7.4.	Betriebsanleitung Jeder Maschine muss eine Betriebsanleitung in der oder den Amtssprachen der Gemeinschaft des Mitgliedstaats beiliegen, in dem die Maschine in Verkehr gebracht und/oder in Betrieb genommen wird. Die der Maschine beiliegende Betriebsanleitung muss eine „Originalbetriebsanleitung“ oder eine „Übersetzung der Originalbetriebsanleitung“ sein; im letzteren Fall ist der Übersetzung die Originalbetriebsanleitung beizufügen. Abweichend von den vorstehenden Bestimmungen kann die Wartungsanleitung, die zur Verwendung durch Fachpersonal bestimmt ist, in nur einer Sprache abgefasst werden (...). <i>Instructions</i> <i>All machinery must be accompanied by instructions in the official Community language or languages of the Member</i>	The User Manual contains adequate information for use of the machine including safety, cautions and procedures during its operation and maintenance. Besides other information, the instructions contain drawings, markings/ labels as attached to the machine and description of the machines application. Furthermore, it also contains safety relevant information on commissioning, operation, handling, installation and maintenance

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	<i>State in which it is placed on the market (...). The instructions accompanying the machinery must be either 'Original instructions' or a 'Translation of the original instructions', in which case the translation must be accompanied by the original instructions. By way of exception, the maintenance instructions intended for use by specialised personnel may be supplied in only one Community language (...).</i>	
1.7.4.1.	Allgemeine Grundsätze für die Abfassung der Betriebsanleitung <i>General principles for the drafting of instructions</i>	Provided in English. The equipment is intended to be used by professional operators with adequate training. Manual contains adequate information for use of the equipment and procedures during its operation and maintenance.
1.7.4.2.	Inhalt der Betriebsanleitung <i>Contents of the instructions</i>	Instruction manual covers detailed operating instructions, installation instructions, and spare parts details and necessary photographs. The below applicable instructions are addressed in the manual.
1.7.4.3.	Verkaufsprospekte <i>Sales literature</i>	No such literature.
2.	Zusätzliche grundlegende Sicherheits- und Gesundheitsschutzanforderungen an bestimmte Maschinengattungen <i>Supplementary essential health and safety requirements for certain categories of machinery</i>	
2.1.	Nahrungsmittelmaschinen und Maschinen für kosmetische oder pharmazeutische Erzeugnisse <i>Foodstuffs machinery and machinery for cosmetics or pharmaceutical products</i>	
2.1.1.	Allgemeines <i>General</i>	No such intended use.
2.1.2.	Betriebsanleitung <i>Instructions</i>	No such intended use.
2.2.	Handgehaltene und/oder handgeführte tragbare Maschinen <i>Portable hand-held and/or hand-guided machinery</i>	
2.2.1.	Allgemeines <i>General</i>	No such intended use.
2.2.1.1.	Betriebsanleitung <i>Instructions</i>	No such intended use.
2.2.2.	Tragbare Befestigungsgeräte und andere Schussgeräte <i>Portable fixing and other impact machinery</i>	
2.2.2.1.	Allgemeines <i>General</i>	No such intended use.
2.2.2.2.	Betriebsanleitung <i>Instructions</i>	No such intended use.
2.3.	Maschinen zur Bearbeitung von Holz und von Werkstoffen mit ähnlichen physikalischen Eigenschaften <i>Machinery for working wood and material with similar physical characteristics</i>	No such intended use.
3.	Zusätzliche grundlegende Sicherheits- und Gesundheitsschutzanforderungen zur Ausschaltung der Gefährdungen, die von der Beweglichkeit von Maschinen ausgehen <i>Supplementary essential health and safety requirements to offset hazards due to the mobility of machinery</i>	

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3.1.	Allgemeines General	
3.1.1.	Begriffsbestimmungen Definitions	Informative.
3.2.	Bedienerplätze Work positions	
3.2.1.	Fahrerplatz Driving position	No such intended use.
3.2.2.	Sitze Seating	No such intended use.
3.2.3.	Plätze für andere Personen Positions for other persons	No such intended use.
3.3.	Steuerung Control systems	No such intended use.
3.3.1.	Stellteile Control devices	No such intended use.
3.3.2.	Ingangsetzen / Verfahren Starting / moving	No such intended use.
3.3.3.	Stillsetzen / Bremsen Traveling function	No such intended use.
3.3.4.	Verfahren mit gängergeführter Maschinen Movement of pedestrian-controlled machinery	No such intended use.
3.3.5.	Störung des Steuerkreises Control circuit failure	No such intended use.
3.4.	Schutzmaßnahmen gegen mechanische Gefährdungen Protection against mechanical hazards	
3.4.1.	Unkontrollierte Bewegungen Uncontrolled movements	No such intended use.

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3.4.2.	Bewegliche Übertragungselemente <i>Moving transmission parts</i>	No such intended use.
3.4.3.	Überrollen und Umkippen <i>Roll-over and tip-over</i>	No such intended use.
3.4.4.	Herabfallende Gegenstände <i>Falling objects</i>	No such intended use.
3.4.5.	Zugänge <i>Means of access</i>	No such intended use.
3.4.6.	Anhängevorrichtungen <i>Towing devices</i>	No such intended use.
3.4.7.	Kraftübertragung zwischen einer selbstfahrenden Maschine (oder einer Zugmaschine) und einer angetriebenen Maschine <i>Transmission of power between self-propelled machinery (or tractor) and recipient machinery</i>	No such intended use.
3.5.	Schutzmaßnahmen gegen sonstige Gefährdungen <i>Protection against other hazards</i>	
3.5.1.	Batterien <i>Batteries</i>	No such intended use.
3.5.2.	Brand <i>Fire</i>	No such intended use.
3.5.3.	Emission von gefährlichen Stoffen <i>Emissions of hazardous substances</i>	No such intended use.
3.6.	Informationen und Angaben <i>Information and indications</i>	
3.6.1.	Zeichen, Signaleinrichtungen und Warnhinweise <i>Signs, signals and warnings</i>	No such intended use.

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3.6.2.	Kennzeichnung Marking	No such intended use.
3.6.3.	Betriebsanleitung Instructions	
3.6.3.1.	Vibrationen Vibrations	No such intended use.
3.6.3.2.	Mehrere Verwendungsmöglichkeiten Multiple uses	No such intended use.
4.	Zusätzliche grundlegende Sicherheits- und Gesundheitsschutzanforderungen zur Ausschaltung der durch Hebevorgänge bedingten Gefährdungen Supplementary essential health and safety requirements to offset hazards due to lifting operations	
4.1.	Allgemeines General	
4.1.1.	Begriffsbestimmungen Definitions	Informative.
4.1.2.	Schutzmaßnahmen gegen mechanische Gefährdungen Protection against mechanical hazards	No such intended use.
4.1.2.1.	Risiken durch mangelnde Standsicherheit Risk due to lack stability	No such intended use.
4.1.2.2.	An Führungen oder auf Laufbahnen fahrende Maschinen Machinery running on guide rails and rail tracks	No such intended use.
4.1.2.3.	Festigkeit Mechanical strength	No such intended use.
4.1.2.4.	Rollen, Trommeln, Scheiben, Seile und Ketten Pulleys, drums, wheels, ropes and chains	No such intended use.

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Abschnitt Clause	Anforderung / Requirement 2006/42/EC Annex I	Umsetzung durch Abschnitt der Norm, anderes: Implementation by clause of standard , other:
4.1.2.5.	Lastaufnahmemittel und ihre Bauteile <i>Lifting accessories and their components</i>	No such intended use.
4.1.2.6.	Bewegungsbegrenzung <i>Control of movements</i>	No such intended use.
4.1.2.7.	Bewegungen von Lasten während der Benutzung <i>Movements of loads during handling</i>	No such intended use.
4.1.2.8.		
4.1.2.8.1.	Bewegungen des Lastträgers <i>Movements of the carrier</i>	No such intended use.
4.1.2.8.2.	Zugang zum Lastträger <i>Access to the carrier</i>	No such intended use.
4.1.2.8.3.	Risiken durch Kontakt mit dem bewegten Lastträger <i>Risks due to contact with the moving carrier</i>	No such intended use.
4.1.2.8.4.	Risiken durch vom Lastträger herabstürzende Lasten <i>Risk due to the load falling off the carrier</i>	No such intended use.
4.1.2.8.5.	Ladestellen <i>Landings</i>	No such intended use.
4.1.3.	Zwecktauglichkeit <i>Fitness for purpose</i>	No such intended use.
4.2.	Anforderungen an Maschinen, die nicht durch menschliche Kraft angetrieben werden <i>Requirements for machinery whose power source is other than manual effort</i>	
4.2.1.	Bewegungssteuerung <i>Control of movements</i>	No such intended use.
4.2.2.	Belastungsbegrenzung <i>Loading control</i>	No such intended use.
4.2.3	Seilgeführte Einrichtungen <i>Installations guided by ropes</i>	No such intended use.

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Abschnitt Clause	Anforderung / Requirement 2006/42/EC Annex I	Umsetzung durch Abschnitt der Norm, anderes: Implementation by clause of standard , other:
4.3.	Informationen und Kennzeichnung <i>Information and Markings</i>	
4.3.1.	Ketten, Seile und Gurte <i>Chains, ropes and webbing</i>	No such intended use.
4.3.2.	Lastaufnahmemittel <i>Lifting accessoires</i>	No such intended use.
4.3.3.	Maschinen zum Heben von Lasten <i>Lifting machinery</i>	No such intended use.
4.4.	Betriebsanleitung <i>Instructions</i>	
4.4.1.	Lastaufnahmemittel <i>Lifting accessoires</i>	No such intended use.
4.4.2.	Maschinen zum Heben von Lasten <i>Lifting Machinery</i>	No such intended use.

 Verschiedenes / *Miscellaneous*: None.

End of Report