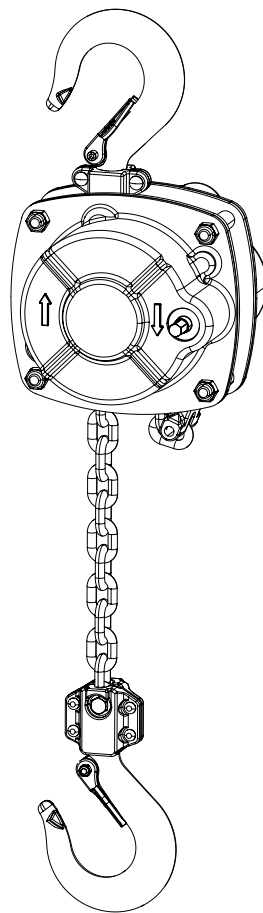


Operation Manual















Chain Hoist PREMIUM PRO-E



Please forward to the responsible department!
Document, please keep!

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SAFETY

				
1. Read before use!	2. Do not overload	3. Do not work under a load!	4. Never pull the chain from the side!	5. Never work with a damaged hoist!
				
6. Never lift human with this hoist!	7. Never throw the hoist	8. Do not wrap the load chain around the load	9. Never work up to the end of chain	10. Never attach the load on the tip of the hook!
				
11. Never work with a twisted or broken chain!	12. Never work without a safety latch!	13. Never remove the warning notice	14. NEVER with power operated devices drive.	

1 GENERALLY

This user and maintenance manual should give your important details for the safety and reliability of your chain. It is not a replacement for a service security edict and the accident prevention regulations stipulated by the employer's liability insurance coverage respectively the scores of standards which are different in each country. Please follow the country specific standards and regulations. The actual service security edict, the regulations of the employer's liability insurance coverage DGUV and the relevant legislation of the association for machines 2006/42/EG (machine directive) are valid in Germany.

1.1 Intellectual property

Hoist models, drawings and engineering are of our exclusive property. It is expressly forbidden to copy, use or hand over to third parties such information without a specific written permission.

2 WARRANTY

- Read instruction and make it available to operators on the device before use.
- Operator must be instructed properly with the device.
- Never leave the device under load unattended!
- Never exceed lifting capacity indicated on the name plate.
- Do not draw any pull and lifting chains over angles.
- Do not transport persons or loads with the product over areas where persons could be.
- Drive the hoist only with battery powered devices with a maximum revolutions of 2500 1/min.
- Device must be checked once a year by a technical expert, in case of harder operating conditions more often. The enterpriser is liable in case of damages and has to provide test certificates.
- Check the device regarding damages, unfastened screws or twisted chain before using it and eliminate failures.
- Repair works on hoisting devices shall only be carried out by the manufacturer or an instructed repair shop by using original spare parts.
- Check load carrying constructions, load securing devices, mountings, cross beams etc. regarding load carrying capacity and condition of the required loads by a technical expert.
- Non-observance of the instruction, improper use, and corrosion by insufficient protection or product alterations without authority result in expiry of the warranty.
- Risk of corrosion in case of continuous contact with unfavourable atmospheric conditions as for example high humidity or harmful environmental influences atmospheres with acid vapours, corrosive gases or high dust concentration cause early wear. This effectuates no claim under warranty.
- Further information or spare part lists will kindly be provided by us or your specialist dealer

3 SPECIAL SAFETY ADVICES

Certain jobs and operations are forbidden when using a hoist, because they can possibly cause danger for life and health and damage the hoist, as for example:

- Read the user manual before operation.
- Never drive the hoist with mains current powered devices
- Never overload the hoist above its WLL
- Never lift a load above persons
- Never pull the lifting chain over sharp corners
- Never work with a damaged hoist
- Never lift or transport persons with this hoist
- Never throw the hoist
- Never use the lifting chain for rigging
- Never work up to the end of chain
- Never attach the load on the tip of the hook
- Never work with a twisted or broken chain
- Never work without a safety latch
- Never remove the warning notice
- Never use the lifting chain as chain sling
- Never let a lifted load hang unattended
- Never pull loads in a angle
- Never break free stuck loads with this chain hoist

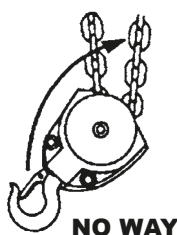
4 INSTALLATION INSTRUCTIONS BEFORE OPERATION

4.1 Before first use

- Chain hoists which are added to a travelling trolley or are supplied with it are subject to the actual German safety standards for cranes. Please follow the country specific standards and regulations.
- Never use the hoist below -20 degrees Celsius or above + 60 degrees Celsius.

4.2 Installation and testing prior to each use

- Hang hoist with the top hook into the load carrying system and turn it once.
- The load chain must hang free and be without kinks or twists.
- Drive the hoist for 5-10 seconds in lifting and lowering direction.
- Inspection of load brake, lift the load a bit and stop operation. When the load sustains, go on lifting. When lowering, the load shall not slide after operation has stopped.
- If everything is performed properly, operation can be started.
- Important for devices of multiple lines: Lower block shall not be snapped through the chain loop. This can be recognised by a twisted chain. Each second chain link of one strand is not steadily in line. If the welded seams of the chain links are not in same direction the lower block must be struck back through the chain loop.
- The last chain link must be fastened on the hoist body.



4.3 Important advices

- Check wheather the supplied hoist is complete, all nuts and bolts are fastened and it corresponds your purchase order
- Make certain that transport damages exist
- Check wheather the carrying structure which bears the hoist is strong enough according the strains. Eventually a statics expertise is of the load bearing structure is necessary
- Do not attach the top hook on the tip
- Check the hooks before you for cracks, bendings or other defects
- Check before use, that the hook is attached correctly, no overloading
- Brake closes automatically when attaching the minimal load (appr. 10% of nominal load).
- Chain block is only suitable for vertical lifting and lowering.
- To move the load, spin the battery driven power tool left or right

5 INSPECTION, REPAIR AND MAINTENANCE

A regular inspection via sight check has to be carried out by a according the countries regulations authorised technician. Check for unusual noises during load and no load tests.

5.1 Additional inspection

For the brake system is more necessary than a simple sight check
Carry out the test as follows:

- Attach the nominal load (WLL)
- Lift the load
- Lift and release the load on different heights
- Check wheather the load is kept safely in position after the propulsion was stopped
- Change the brake discs if the thickness is less than 2,5mm or defects are found

If you notice during dissambling of the hoist that parts a not ok, then change these only against original spare parts.

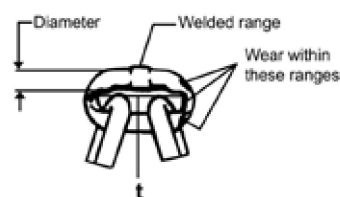
Names and Spare part number of each part, you will find on the next pages. When ordering these parts please take care to notify the correct spare part order number, the type and capacity of the hoist.

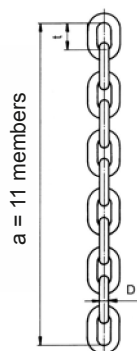
In case of doubt send the part in for check.

Check the chain in as short intervals as possible. Check it for nicks, cracks, cuts, dents, bendings, corrsion and deformations or damages. If the cross section of the chain link wire is reduced anywhere more than 10%, the chain has to be substituted immediately.

5.2 Chains and Hooks

- The chains and hooks have to be inspected continuously! Clean the chain before inspection. Lubricate the load chain from time to time! Never lubricate or grease the brake!
- Retracted chain shall not click under load.
- Check the chain for stretching! The internal length (t) of a worn chain link, smallest diameter of wire (D) and length of 11 chain links (a) are measured by a slide gauge where the chain must be tightened firmly.
- Dimensions: If the deviations of measurement exceed the values (a) in the following table, substitute chain immediately. Measure of diameter (D) shall not be under-run and the pitch (t) of the single link not be exceeded.





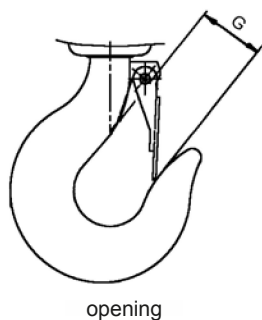
Capacity	Max. measurement of		Min. chain link diameter (D)
	1 chain link (t)	11 chain links (a)	
250 kg	15,8 mm	170,0 mm	4,5 mm
500 kg	18,9 mm	210,9 mm	5,4 mm
1.000 kg	25,2 mm	271,9 mm	7,2 mm

If the load chain has to be changed, the chain wheel should be checked as well, as this could be worn out too.

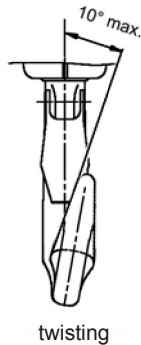
Load hook check Pos. 31 and Pos. 32 from 250 kg - 2.000 kg Version;
Pos. 57 and Pos. 71 at the 3.000 kg Version;

Due to extreme strain or wrong handling, the hooks can bend open or stretch. If the original dimension "G" is exceeded more than 10%, the hooks have to be replaced. If that's the case, it's possible that other load carrying components are damaged as well and a thorough examination of the hoist has to be carried out for other deformations.

As hook dimensions can change from one to another due to forging tolerances, the user should measure the exact dimension "G" at the supplied hoist and log it to this table.



Capacity	Clamp mouth opening "G"			
	normal	max.	measured	max. x 1.1
250 kg	26 mm	29 mm		
500 kg	32 mm	35 mm		
1.000 kg	38 mm	42 mm		



The measurement has to be carried out as follows:

- Take the throat of the hook from metal to metal, without the safety latch
The wear on the bottom of hook throat should not exceed 10% from original dimension
Check the sideways twist of the hook. If it exceeds 10 degrees from planarity, the hook has to be replaced
Check the safety latch for positive closing and free movement. Replace when damaged !
Excessive damage on the hooks, due to chemical or corrosive influences, cause their replacement.
- It is strictly forbidden to grind or weld for repairs on the hooks.

These thorough examinations can only be carried out by a lifting equipment expert. If you don't have this knowledge, contact your supplier or us. We carry out regular examinations, also by service contract.

5.3 Maintenance

After completion of use take care of:

- Wipe away dirt and water, slightly lubricate the lifting chain and rotating parts.
- From time to time – depending on the number of uses – check if the gearbox wheels are still greased sufficiently

5.4 Lubrication instruction



Lubricate all movable parts (gear wheels etc.) slightly with Molikote grease

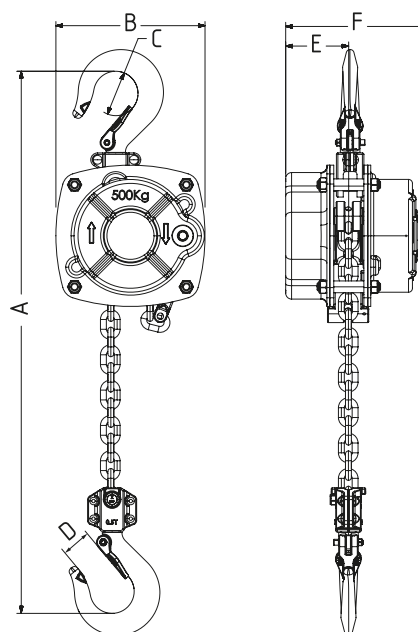
Exception: Never lubricate any brake part

When not in use, store the hoist in a dry place.

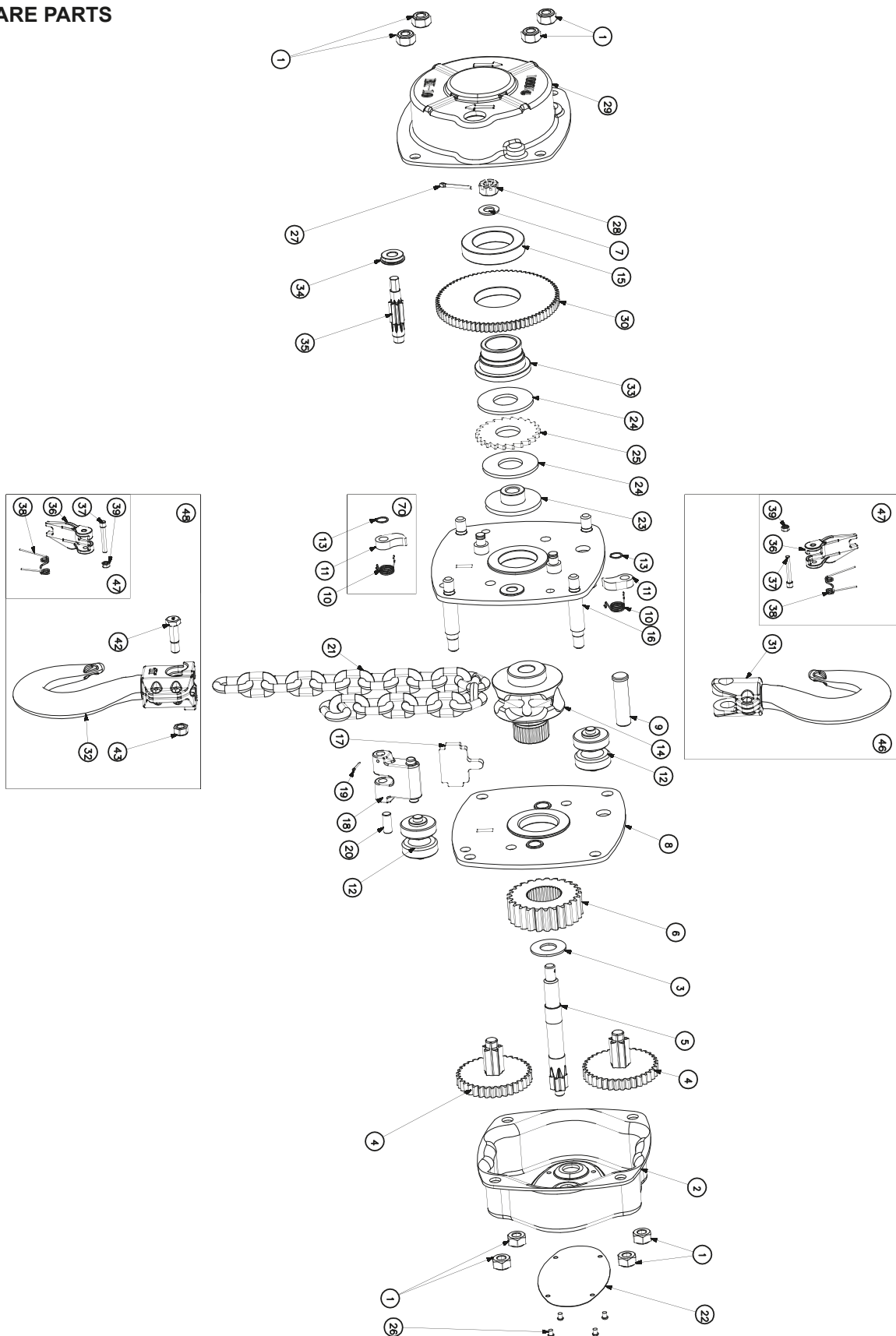
A proper function is only warranted with use of original spare parts

If the device has to be checked or repaired in a case of warranty, please send it completely assembled. We cannot accept any warranty claims with receipt of disassembled devices.

6 SPECIFICATIONS



TYP PREMIUM PRO-E		250	500	1.000
Capacity	kg	250 kg	500 kg	1.000 kg
Chain size	mm	5 x 15	6 x 18	8 x 24
Number of chain falls		1	1	1
Maximum drive speed	r/min.	2500	2500	2500
Lifting speed	m/min.	3,2	2,39	1,46
C	mm	35	44	50
D	mm	27	27	34
E	mm	55	55	76
Min. Height	mm	318	318	417
Net Weight	kg	6,6	9,3	16,2

7 SPARE PARTS

8 SPARE PART LIST**8.1 Spare Parts 250 kg**

Item	Qty.	Description	Part-No.	
1	8	Locking Nut	0202101	Piece
2	1	Gear box cap	0202102	Piece
3	1	Washer for long shaft	0202103	Piece
4	2	Umbrella type gear wheel	0202104	Piece
5	1	Driving shaft	0202105	Piece
6	1	Center gear wheel	0202106	Piece
7	1	Washer for the castle nut	0202107	Piece
8	1	Right side plate	0202108	Piece
9	1	Top hook pin	0202109	Piece
10	2	Spring for ratchet pawl	0202110	Piece
11	2	Ratchet pawl	0202111	Piece
12	2	Chain guide roller	0202112	Piece
13	2	Clip for ratchet pawl	0202113	Piece
14	1	Load chain sprocket	0202114	Piece
15	1	Bearing for driving big gear wheel	0202115	Piece
16	1	Left side plate	0202116	Piece
17	1	Chain stripper	0202117	Piece
18	1	Chain suspension	0202118	Piece
19	1	Split pin	0202119	Piece
20	1	Pin for chain suspension	0202120	Piece
21	3	Load chain	0202121	m
22	1	Nameplate	0202122	Piece
23	1	Brake seat	0202123	Piece
24	2	Friction plate	0202124	Piece
25	1	Ratchet disk	0202125	Piece
26	4	Rivet for nameplate	0202126	Piece
27	1	Split pin for castle nut	0202127	Piece
28	1	Castle nut	0202128	Piece
29	1	Driving gear cover	0202129	Piece
30	1	Driving big gear	0202130	Piece
31	1	Top hook	0202131	Piece
32	2	Load hook	0202132	Piece
33	1	Driving seat	0202133	Piece
34	1	Gear for driving small shaft	0202134	Piece
35	1	Driving small shaft	0202135	Piece
36	2	Safety latch	0202136	Piece
37	2	Screw for safety latch	0202137	Piece
38	2	Spring for safety latch	0202138	Piece
39	2	Nylon nut for safety latch	0202139	Piece
42	1	Load hook pin	0202142	Piece
43	1	Nylon nut for load hook pin	0202143	Piece
46	1	Load hook assembly, Item 31, 47	0202146	Set
47	1	Safety latch assembly, Item 36, 37, 38, 39	0202147	Set
48	1	Load hook assembly, Item 32, 42, 43, 47	0202148	Set
49	1	Friction plates assembly, Item 24 (2x)	0202149	Set
70	1	Ratchet pawl assembly, Item 10 (2x), 11 (2x), 13 (2x)	0202170	Set

8.2 Spare Parts 500 kg

Item	Qty.	Description	Part-No.	
1	8	Locking Nut	0202201	Piece
2	1	Gear box cap	0202202	Piece
3	1	Washer for long shaft	0202203	Piece
4	2	Umbrella type gear wheel	0202204	Piece
5	1	Driving shaft	0202205	Piece
6	1	Certer gear wheel	0202206	Piece
7	1	Washer for the castle nut	0202207	Piece
8	1	Right side plate	0202208	Piece
9	1	Top hook pin	0202209	Piece
10	2	Spring for ratchet pawl	0202210	Piece
11	2	Ratchet pawl	0202211	Piece
12	2	Chain guide roller	0202212	Piece
13	2	Clip for ratchet pawl	0202213	Piece
14	1	Load chain sprocket	0202214	Piece
15	1	Bearing for driving big gear wheel	0202215	Piece
16	1	Left side plate	0202216	Piece
17	1	Chain stripper	0202217	Piece
18	1	Chain suspension	0202218	Piece
19	1	Split pin	0202219	Piece
20	1	Pin for chain suspension	0202220	Piece
21	3	Load chain	0202221	m
22	1	Nameplate	0202222	Piece
23	1	Brake seat	0202223	Piece
24	2	Friction plate	0202224	Piece
25	1	Ratchet disk	0202225	Piece
26	4	Rivet for nameplate	0202226	Piece
27	1	Split pin for castle nut	0202227	Piece
28	1	Castle nut	0202228	Piece
29	1	Driving gear cover	0202229	Piece
30	1	Driving big gear	0202230	Piece
31	1	Top hook	0202231	Piece
32	2	Load hook	0202232	Piece
33	1	Driving seat	0202233	Piece
34	1	Gear for driving small shaft	0202234	Piece
35	1	Driving small shaft	0202235	Piece
36	2	Safety latch	0202236	Piece
37	2	Screw for safety latch	0202237	Piece
38	2	Spring for safety latch	0202238	Piece
39	2	Nylon nut for safety latch	0202239	Piece
42	1	Load hook pin	0202242	Piece
43	1	Nylon nut for load hook pin	0202243	Piece
46	1	Load hook assembly, Item 31, 47	0202246	Set
47	1	Safety latch assembly, Item 36, 37, 38, 39	0202247	Set
48	1	Load hook assembly, Item 32, 42, 43, 47	0202248	Set
49	1	Friction plates assembly, Item 24 (2x)	0202249	Set
70	1	Ratchet pawl assembly, Item 10 (2x), 11 (2x), 13 (2x)	0202270	Set

8.3 Spare Parts 1.000 kg

Item	Qty.	Description	Part-No.	
1	8	Locking Nut	0202301	Piece
2	1	Gear box cap	0202302	Piece
3	1	Washer for long shaft	0202303	Piece
4	2	Umbrella type gear wheel	0202304	Piece
5	1	Driving shaft	0202305	Piece
6	1	Center gear wheel	0202306	Piece
7	1	Washer for the castle nut	0202307	Piece
8	1	Right side plate	0202308	Piece
9	1	Top hook pin	0202309	Piece
10	2	Spring for ratchet pawl	0202310	Piece
11	2	Ratchet pawl	0202311	Piece
12	2	Chain guide roller	0202312	Piece
13	2	Clip for ratchet pawl	0202313	Piece
14	1	Load chain sprocket	0202314	Piece
15	1	Bearing for driving big gear wheel	0202315	Piece
16	1	Left side plate	0202316	Piece
17	1	Chain stripper	0202317	Piece
18	1	Chain suspension	0202318	Piece
19	1	Split pin	0202319	Piece
20	1	Pin for chain suspension	0202320	Piece
21	3	Load chain	0202321	m
22	1	Nameplate	0202322	Piece
23	1	Brake seat	0202323	Piece
24	2	Friction plate	0202324	Piece
25	1	Ratchet disk	0202325	Piece
26	4	Rivet for nameplate	0202326	Piece
27	1	Split pin for castle nut	0202327	Piece
28	1	Castle nut	0202328	Piece
29	1	Driving gear cover	0202329	Piece
30	1	Driving big gear	0202330	Piece
31	1	Top hook	0202331	Piece
32	2	Load hook	0202332	Piece
33	1	Driving seat	0202333	Piece
34	1	Gear for driving small shaft	0202334	Piece
35	1	Driving small shaft	0202335	Piece
36	2	Safety latch	0202336	Piece
37	2	Screw for safety latch	0202337	Piece
38	2	Spring for safety latch	0202338	Piece
39	2	Nylon nut for safety latch	0202339	Piece
42	1	Load hook pin	0202342	Piece
43	1	Nylon nut for load hook pin	0202343	Piece
46	1	Load hook assembly, Item 31, 47	0202346	Set
47	1	Safety latch assembly, Item 36, 37, 38, 39	0202347	Set
48	1	Load hook assembly, Item 32, 42, 43, 47	0202348	Set
49	1	Friction plates assembly, Item 24 (2x)	0202349	Set
70	1	Ratchet pawl assembly, Item 10 (2x), 11 (2x), 13 (2x)	0202370	Set

**9 ANNUAL SAFETY
INSPECTIONS**

Type of test	Date	Name & Signature the examiner	Result

CE-DECLARATION

in the sense of 2006/42/EC Guidelines, Appendix II A, 2004/108/EG,
Appendix I and 2006/95/EG, Appendix III

We herewith declare that the

PLANETA-Hebetechnik GmbH, Resser Straße 17, 44653 Herne

that the partly completed machinery

Chain Hoist	Model PREMIUM PRO-E
in payload range	250 kg – 1.000 kg

Which was developed for lifting and lowering of loads and meets the basic
requirements for the following EC directives, as applicable for the delivered
scope:

EG-Machine-Directive 2006/42/EG

Authorized for the compilation of the relevant technical documentation

Dipl.-Ing. Matthias B. Klawitter, CE-Koordinator,
PLANETA-Hebetechnik GmbH, Resser Straße 17, 44653 Herne

Herne, Juni 2018
PLANETA-Hebetechnik GmbH



Dipl.-Ök. Christian P. Klawitter
(General Manager)

For the completion, installation and commissioning according to the operating
instructions is responsible

Location _____

Date _____

Person in charge _____

Company _____

NOTES

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PLANETA is constantly striving to expand and improve its products, which also applies to the subcontractors concerned. Although we have endeavored to make this manual as complete and correct as possible with all technical information, we can not guarantee the accuracy and completeness of the information, as not all subcontractor information is available at the time of printing. Changes to the design and specification are possible without prior notice. Today's use of a built-in and delivered part does not guarantee availability in the future. Therefore, we ask you as a customer to check the availability and compliance of critical parts, if necessary, in order to create a stock at the time of delivery.
