



PLANETA

LIFTING WITHOUT LIMITS



PREMIUM **23**



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Note: PLANETA are constantly striving to increase and further improve the product range.

Whilst every effort has been made to ensure the accuracy of the specifications and dimensions included at the time of printing, we are unable to warrant the given information. Designs and specifications are subject to change without notice or obligation. The inclusion of any product does not guarantee the availability of that product in the future. Customers should check both the availability and conformance of the product to any critical parameters at the time of ordering!

Quality by tradition

Stability and innovation. In truth, they are two sides of the same coin because continuous readiness for innovation enables sustainable developments.

Sustainability, reliability and responsibility are the basic values that we are committed to here at PLANETA. In all periods of the company's history, these values have been personified by our employees and their quest to always do the good things that little bit better.

Trust is good – Control is better

PLANETA rope winches are subject to the strictest quality controls and are also designed with high functionality for the toughest operating conditions.

Only quality products that have been tested with an appropriate excess load in compliance with all standards are supplied.

Quality means safety

Reliability and responsibility are the values that we are particularly committed to. This begins with work safety during production, up to certification of all processes as part of the annual TÜV DIN EN ISO 9000:2001 audit or membership in the GKS.

Your satisfaction is our success

A large network of consultants, service technicians and specialist dealers trained by PLANETA is available to you. We strive to provide you with the best solution at the best possible price, and this goes well beyond the product itself. To us, best quality means always showing you the solution which corresponds to your requirements.

As one of Germany's oldest lifting device manufacturers, we strive to do this for you each and every day.



PLANETA manual chain hoists from 1950 to today



Quality
CERTIFIED



Industrial safety
CERTIFIED



Environmental protection
CERTIFIED



Full Member



Management System
ISO 9001:2015
ISO 14001:2015
SCC**.:2011

www.tuv.com
ID 9105039001

MANUAL LIFTING AND PULLING EQUIPMENT



Aluminium lever hoist PAH

The new PLANETA PAH aluminium ratchet lever hoist is an essential tool in industrial and service applications thanks to its very small and light design.

A closed, well-designed aluminium die-cast housing protects the inner components against dirt. Equipped with two robust hook clips, the PAH meets all safety requirements and guarantees safe work.

The new robust chain end piece provides additional safety because the chain cannot be pulled through the device in this way.

A release lever enables the chain to be pulled through quickly when not under load.

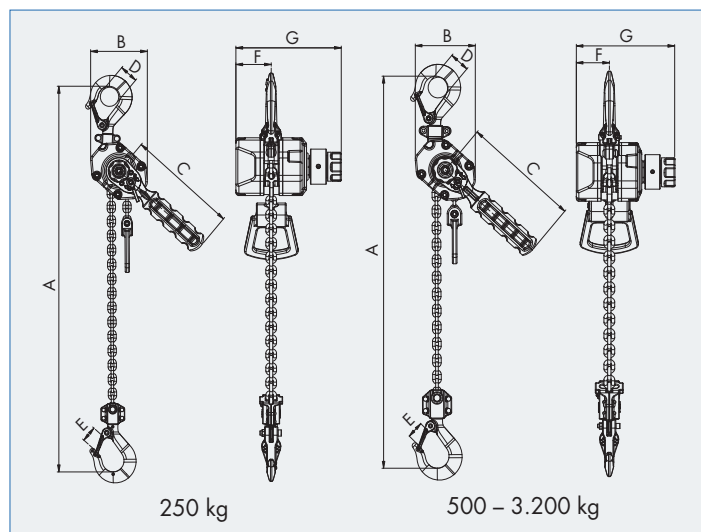
Usable at ambient temperatures from -20 °C to +60 °C.

Tempered and galvanized chain according to DIN EN 818-7-T.

Hand lever with rubber handle (only for 250 kg/500 kg load bearing capacity)

The standard lift is 1.5 m

Option: With RFID chip for digital equipment testing.



**Incl. practical bag
for the models
PAH 250 & 500**



| TYPE | PAH ... | 250 | 500 | 800 | 1600 | 3200 |
|--|------------------|---------------|---------------|---------------|---------------|---------------|
| Capacity | kg | 250 | 500 | 800 | 1,600 | 3,200 |
| Standard lift | m | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Min. headroom (A) | mm | 223 | 282 | 329 | 355 | 445 |
| Lever force | daN | 17 | 20 | 22 | 25 | 34 |
| Number of chain falls | | 1 | 1 | 1 | 1 | 1 |
| Chain size | mm | 3 x 9 | 4 x 12 | 5.6 x 17 | 7.1 x 21 | 9 x 27* |
| B (Dimensions) | mm | 74 | 90 | 115 | 140 | 170 |
| C | mm | 142 | 175 | 233 | 233 | 350 |
| D | mm | 30 | 35 | 39 | 44 | 60 |
| E | mm | 20 | 22 | 28 | 30 | 41 |
| F | mm | 36 | 40 | 55 | 70 | 88 |
| G | mm | 105 | 117 | 140 | 158 | 185 |
| Weight with standard lift | kg | 1.6 | 2.7 | 5.1 | 7.6 | 14.7 |
| Weight for 1 m additional lifting height | kg | 0.2 | 0.4 | 0.7 | 1.1 | 1.8 |
| PAH ... with 1.5 m lift | Order No. | G10460 | G10461 | G10462 | G10463 | G10464 |
| Additional 1 m lift | Order No. | G10465 | G10007 | G10086 | G10087 | G10249 |
| RFID-Chip incl. mounting | Order No. | G10601 | G10601 | G10601 | G10601 | G10601 |

* Grade 100



Lever hoist PLANETA - PREMIUM PRO

The next development stage of the reliable PREMIUM lever hoist is the PREMIUM PRO. Thanks to a significant weight saving, handling is improved. Despite this, the frame has been strengthened compared to the previous generation. Proven quality also ensures longevity and its design makes it very robust.

Free-running mode

When the selection switch is moved to the middle point, the unladen chain can easily be pulled through the device freely to the required usage length. This makes tensioning the chain easier.

Load chain

The tempered, galvanised load chain according to DIN EN 818-7-T is supplied with the unit. The standard lifting height is 1.5 m; any length required for higher lifting is possible.

New chain end piece

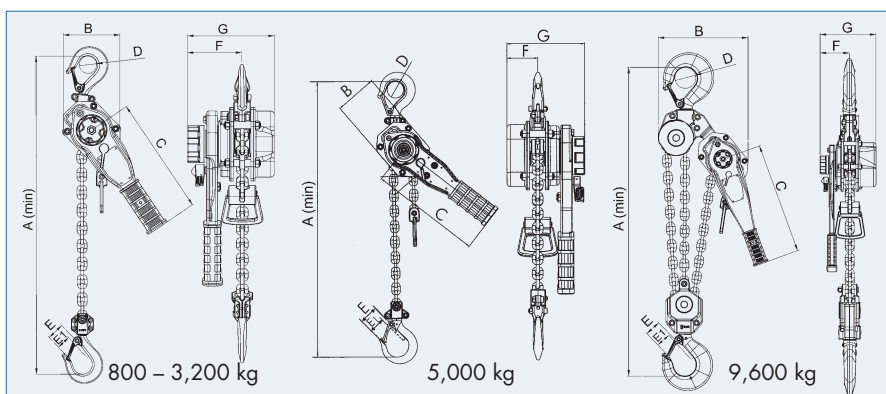
The robust chain end piece provides additional safety because it cannot be pulled through the device with the chain.

Protected handle

The ergonomic rubber handle on the end of the lever protects the user against injury and is also screwed in place to prevent it slipping.

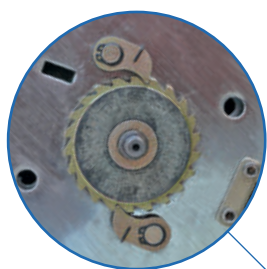
Technical advantages

Hand lever can be used in any position thanks to the ratchet; safety automatic mechanical brake; galvanised connecting parts; cast hook clip; large, non-slip and closed hand wheel; safety chain end piece, approved for load securing according to EN 12195-3.



| TYPE | PREMIUM PRO ... | 0.8 | 1.6 | 3.2 | 5** | 6.4 | 9.6 |
|--|------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity | kg | 800 | 1,600 | 3,200 | 5,000 | 6,400 | 9,600 |
| Standard lift | m | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Min. headroom (A) | mm | 320 | 360 | 431 | 655 | 500 | 635 |
| Lever force | daN | 22 | 24 | 33 | 37 | 36 | 38 |
| Meters load chain movement with 1 round 360° | m | 0,019 | 0,015 | 0,016 | 0,009 | 0,008 | 0,005 |
| Number of chain falls | | 1 | 1 | 1 | 1 | 2 | 3 |
| Chain size | mm | 5.6 x 17 | 7.1 x 21 | 9 x 27* | 13 x 36 | 9 x 27* | 9 x 27* |
| B (Dimensions) | mm | 115 | 137 | 169 | 180 | 238 | 300 |
| C | mm | 239 | 259 | 374 | 400 | 374 | 374 |
| D | mm | 35 | 42 | 48 | 60 | 60 | 70 |
| E | mm | 35 | 38 | 46 | 43 | 59 | 54 |
| E1 | mm | 23 | 28.5 | 33 | 41 | 39 | 51 |
| F | mm | 91 | 67 | 98 | 104 | 98 | 98 |
| G | mm | 146 | 162 | 187 | 213 | 187 | 187 |
| Weight with standard lift | kg | 6.3 | 8.8 | 16.4 | 32.5 | 24.9 | 42.1 |
| Weight for 1 m additional lifting height | kg | 0.7 | 1.1 | 1.8 | 3.7 | 3.6 | 5.4 |
| PREMIUM PRO ... with 1.5 m lift | Order No. | G10390 | G10391 | G10392 | G10280 | G10394 | G10395 |
| Additional 1 m lift | Order No. | G10086 | G10087 | G10249 | G10287 | G10254 | G10256 |
| Chain inhibit lock | Order No. | G10450 | G10451 | G10452 | G10453 | G10452 | G10452 |
| RFID-Chip incl. mounting | Order No. | G10600 | G10600 | G10600 | G10600 | G10600 | G10600 |

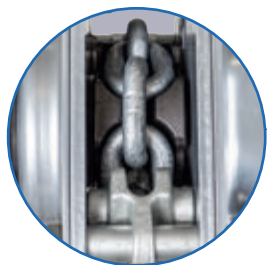
* Grade 100 ** chromated



Safety brake with two pawls



Large, non-slip hand wheel



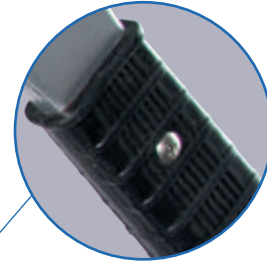
Integrated chain guide



Reversing lever with free-running mode



Powder-coated (RAL 9022) housing for best corrosion protection ** (5 t chromated)



Extra-secure handle



Chain end piece with robust plastic design



Option:
The optional chain inhibit lock prevents the load chain slipping through the hoist housing.



Option:
With RFID chip for digital equipment testing.



Drop-forged load hook with closed and fitting safety latch





PREMIUM PRO 1

PREMIUM PRO 5

Manual chain hoist PREMIUM PRO

Compact and light

The new PREMIUM-PRO chain hoist is the systematic development of the established PREMIUM series and is manufactured using the latest technology. Compared to its predecessors, it is much lighter and provides better handling thanks to its compact design.

Despite the weight saving, working stability has been improved thanks to the clever construction. The chrome-plated housing for corrosion protection and overload protection as standard reinforce the high quality of the PLANETA-PREMIUM PRO product.

Load chain

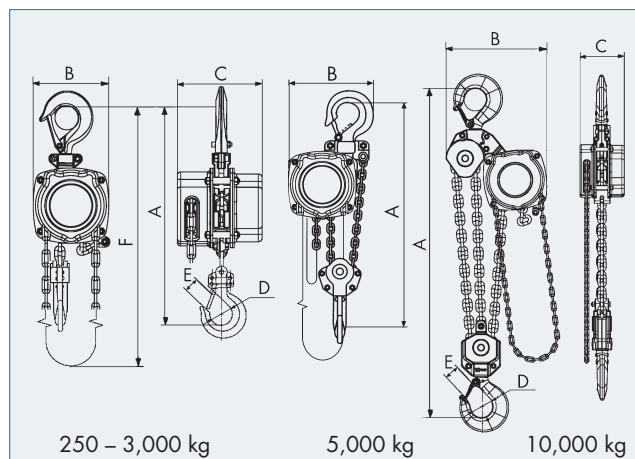
Tempered and galvanised load chain "Made in Germany" according to DIN EN 818-7-T. **Up to 3 t in a single strand.** Higher lifting on request, any length can be delivered.

Galvanised or powder-coated on all sides

Dirt or rain have no effect on this device. All connection and housing parts are protected against corrosion.

Chain mounting

Thanks to the easily-accessible chain mounting, any user can insert a longer chain if required.



250 – 3,000 kg

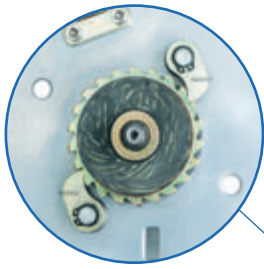
5,000 kg

10,000 kg

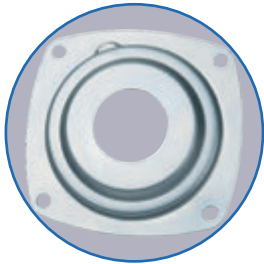
| TYPE | PREMIUM PRO ... | 0.25 | 0.5 | 1 | 1.5 | 2 | 3 | 5 | 10 | 15 | 20 | 30 | 40 |
|---------------------------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity | kg | 250 | 500 | 1,000 | 1,500 | 2,000 | 3,000 | 5,000 | 10,000 | 15,000 | 20,000 | 30,000 | 40,000 |
| Standard lift | m | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Min. headroom (A) | mm | 285 | 316 | 367 | 409 | 428 | 504 | 637 | 735 | 1,036 | 1,031 | 1,149 | 1,557 |
| Hand chain force | daN | 22 | 22.1 | 33.2 | 32.3 | 43 | 40.6 | 33.8 | 45.1 | 36 | 38 | 40 | 40 |
| Hand chain operation length | m | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Meters hand chain to pull to lift 1 m | m | 14.8 | 29.5 | 39.4 | 60.8 | 60.8 | 96.7 | 193.3 | 290 | 290 | 386.7 | 580 | 773.3 |
| Number of chain falls | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 6 | 8 | 12 | 16 |
| Chain size | mm | 4 x 12 | 5 x 15 | 6 x 18 | 8 x 24 | 8 x 24 | 10 x 30 | 10 x 30 | 10 x 30* | 10 x 30 | 10 x 30 | 10 x 30 | 10 x 30 |
| B (Dimensions) | mm | 102 | 122 | 152 | 176 | 176 | 216 | 259 | 344 | 441 | 432 | 532 | 961 |
| C | mm | 112 | 117 | 144 | 156 | 156 | 167 | 167 | 167 | 221 | 222 | 220 | 282 |
| D | mm | 35 | 35 | 44 | 48 | 50 | 59 | 68 | 91 | 97 | 106 | 150 | 216 |
| E | mm | 23 | 23 | 30 | 31 | 34 | 40 | 47 | 61 | 65 | 73 | 92 | 148 |
| F | m | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Weight with standard lift | kg | 5.9 | 7.6 | 11.5 | 17.2 | 17.2 | 27 | 40.5 | 61.9 | 137.9 | 202.9 | 268.9 | 440 |
| Weight for 1 m add. lifting height** | kg | 1.2 | 1.4 | 1.7 | 2.3 | 2.3 | 3.1 | 5.3 | 7.5 | 14.9 | 19.3 | 28.1 | 36.9 |
| PREMIUM PRO ... with 3 m lift | Order No. | G10310 | G10311 | G10312 | G10313 | G10314 | G10315 | G10316 | G10317 | G10308 | G10318 | G10319 | G10309 |
| Additional 1 m lift | Order No. | G10270 | G10271 | G10242 | G10243 | G10243 | G10272 | G10246 | G10247 | G10273 | G10248 | G10058 | G10274 |
| RFID-Chip incl. mounting | Order No. | G10600 | G10600 | G10600 | G10600 | G10600 | G10600 | G10600 | G10600 | G10600 | G10600 | G10600 | G10600 |

* Grade 100 **1 m operating length and 1 m lift

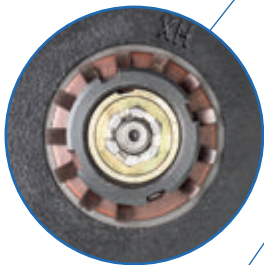
Safety brake with two pawls hold the load in any position safely! All parts corrosion protected!



Extra brake dust cover



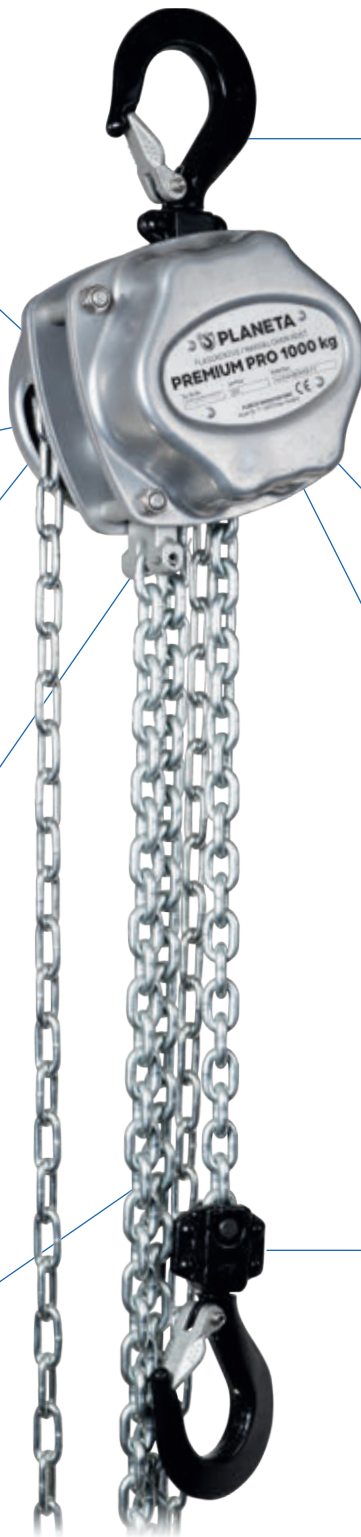
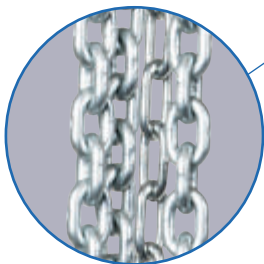
Standard overload protection (over 500 kg)



Chain mounting for lower terminal link



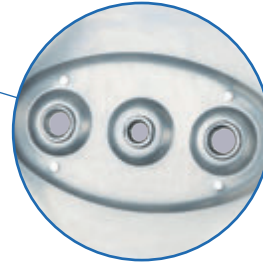
Tempered and galvanized load chain acc. DIN EN 818-7-T



Swivelling top and bottom hook



3-fold bearing of the gearbox



Powder-coated (RAL 9022) housing for best corrosion protection



Ball bearing mounted sprocket shaft




New cast hook clips



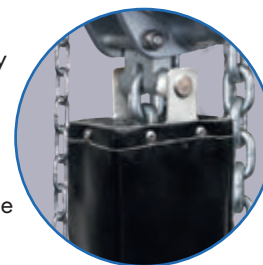
Option:
With RFID chip for digital equipment testing.



Options:

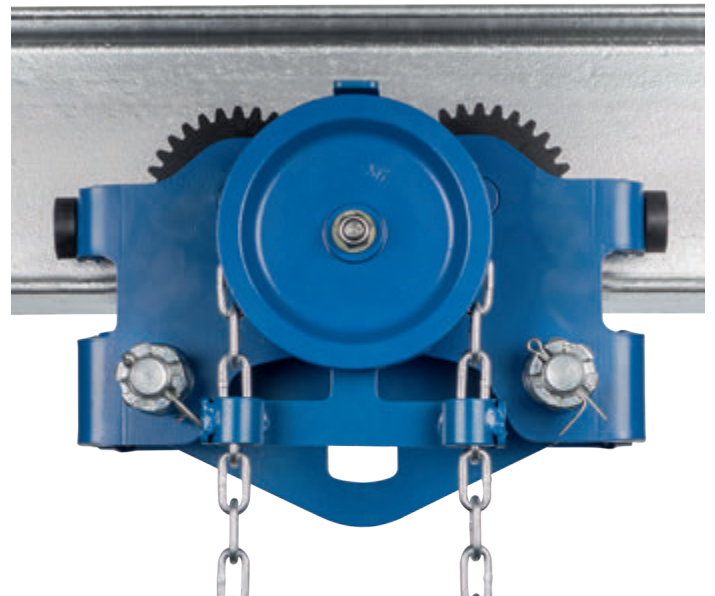
- Short model as a combination of chain hoist PREMIUM PRO and trolley
- Chain bag as an accessory
- Also available with GL (Germanischer Lloyd) certification! For shipyards, ships and the chemical industry.
- -Design

| Chain bag (Plastic) | Chain bag size (max. lift in m) | | | Order No. 1 | Order No. 2 | Order No. 3 |
|---------------------|---------------------------------|-------|-------|-------------|-------------|-------------|
| | 1 | 2 | 3 | | | |
| PREMIUM PRO 0.25 | 26 | 32 | 38 | G10500 | G10510 | G10520 |
| PREMIUM PRO 0.5 | 16 | 19 | 22 | G10501 | G10511 | G10521 |
| PREMIUM PRO 1 | 11 | 14 | 17 | G10502 | G10512 | G10522 |
| PREMIUM PRO 1.5 | 6 | 8 | 10 | G10503 | G10513 | G10523 |
| PREMIUM PRO 2 | 6 | 8 | 10 | G10504 | G10514 | G10524 |
| PREMIUM PRO 3 | 4 | 5 | 6 | G10505 | G10515 | G10525 |
| PREMIUM PRO 5 | 2 | 2.5 | 3 | G10506 | G10516 | G10526 |
| PREMIUM PRO 10 | o. r. | o. r. | o. r. | G10507 | G10517 | G10527 |
| PREMIUM PRO 20 | o. r. | o. r. | o. r. | G10508 | G10518 | G10528 |
| PREMIUM PRO 30 | o. r. | o. r. | o. r. | G10509 | G10519 | G10529 |



Option: Chain bag





LST-H 0.5



LST-G 2



LST-Trolleys

LST-trolleys are manufactured in a higher quality for a very rough and unusual use. The chain hoist PREMIUM PRO of the same capacity as the trolley fit easily into the lugs with their top hook, but these LST-trolleys are best combined with PREMIUM PRO. Trolleys have rubber buffers at both sides!

Wide adjustment for any flange width

Discs of different thicknesses are on the carrying bolts that allow to make the distance between side plates shorter or longer by exchanging them from outside to inside. There are two main bolt lengths. The standard bolts are adjustable for normal width. Bolts of size 2 offer more possibilities up to beam flange sizes on HE-B-beams with 300 mm width. Prefer this when unclear for what kind of work you will use them.

Double safety

Climb stop on both side of the beam flange hinders the trolley to climb up the beam and prevents from falling down. Right angled side plates work as wheel shaft breakage protection, falling down protection and beam flange cleaner.

Sturdy side plates

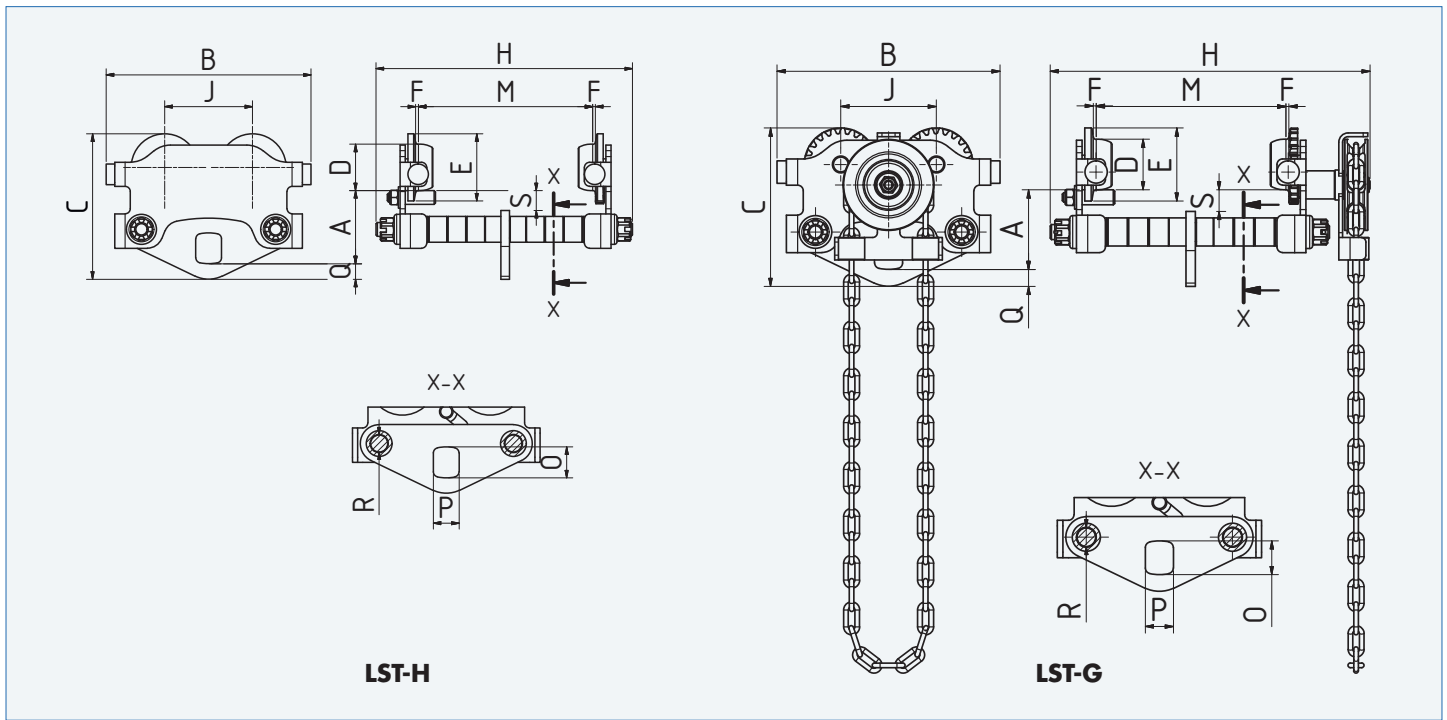
The load is balanced by two carrying bolts on all four wheels because the castle nuts tie only one side. This gives the bolts a bit of tolerance for movement and equalizes improper beam flanges.

DESIGNS:

LST-H = Push trolley

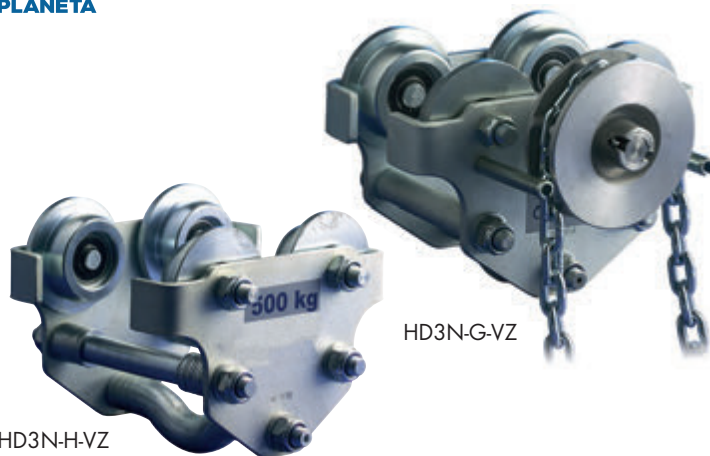
LST-G = Gear type trolley

The manual trolleys shown are designed for use with manual hoists.



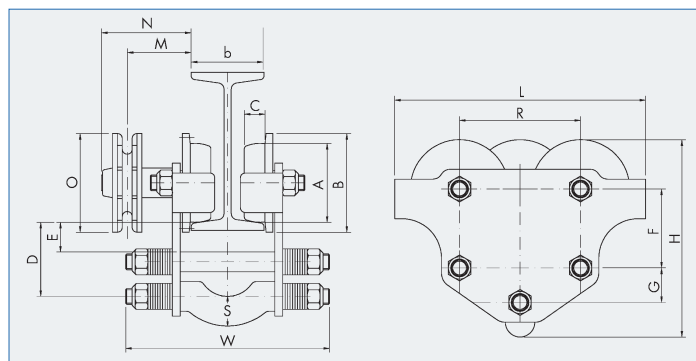
| TYPE | LST-H ... | 0.5 | 1 | 2 | 3 | 5 | 10 | - |
|---------------------------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TYPE | LST-G ... | 0.5 | 1 | 2 | 3 | 5 | 10 | 20 |
| Capacity | kg | 500 | 1,000 | 2,000 | 3,000 | 5,000 | 10,000 | 20,000 |
| Flange width M min.-max. | mm | 50-203 | 64-203 | 88-203 | 100-203 | 114-203 | 124-203 | 136-203 |
| Min. curve radius | m | 0.85 | 1 | 1.1 | 1.3 | 1.4 | 2 | a.A. |
| Hand chain operation length LST-G | m | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Reel path for 1 m path LST-G | m | 2.96 | 3.63 | 4.65 | 5.66 | 6.34 | 7.98 | 10.63 |
| A (Dimensions) | mm | 85 | 103 | 115 | 125 | 143 | 187 | 250 |
| B | mm | 238 | 288 | 338 | 390 | 472 | 476 | 564 |
| C | mm | 169 | 207 | 237 | 271 | 307 | 381 | 514 |
| D | mm | 54 | 67 | 80 | 100 | 109 | 133 | 170 |
| E | mm | 78 | 96 | 111 | 133.5 | 145 | 176 | 228 |
| F | mm | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| H (LST-H) | mm | 298 | 314 | 325 | 355 | 381 | 388 | - |
| H (LST-G) | mm | 342 | 363 | 374 | 403 | 428 | 445 | 498 |
| J | mm | 102 | 112 | 131 | 153 | 168 | 194 | 234 |
| O | mm | 36 | 40 | 48 | 54 | 66 | 80 | 130 |
| P | mm | 30 | 36 | 40 | 46 | 52 | 64 | 100 |
| Q | mm | 18 | 22 | 26 | 29 | 37 | 40 | 65 |
| R | mm | Ø 20 | Ø 24 | Ø 29 | Ø 34 | Ø 39 | Ø 44 | Ø 59 |
| S | mm | 23 | 24 | 28 | 26 | 28 | 50 | 55 |
| Net weight LSTH | kg | 9 | 14 | 22 | 36 | 55 | 86 | - |
| Net weight LSTG | kg | 11 | 16 | 24 | 39 | 59 | 89 | 190 |
| LST-H | Order No. | G20340 | G20341 | G20342 | G20343 | G20344 | G20345 | - |
| LST-G with 2.5 m operation length | Order No. | G20350 | G20351 | G20352 | G20353 | G20354 | G20355 | G20356 |
| Larger flange width min.-max. | mm | 50 - 305 | 64 - 305 | 68 - 305 | 100 - 305 | 114 - 305 | 124 - 305 | 136 - 305 |
| | Order No. | G20090 | G20091 | G20093 | G20094 | G20095 | G20097 | G20099 |
| Add. operator length hand chain per m | Order No. | G20017 | G20017 | G20017 | G20017 | G20017 | G20017 | G20017 |
| Position lock device | Order No. | G10180 | G10181 | G10182 | G10183 | G10184 | G10185 | G10186 |
| Extended handwheel shaft | Order No. | G20360 | G20361 | G20362 | G20363 | G20364 | G20365 | G20366 |

More capacities on request!



HD3N-H-VZ

HD3N-G-VZ



HD3N-Trolleys

Zinc plated design

HD3N-trolleys have outstanding corrosion protection. All steel parts are electrolytically zinc plated. This is a must in wet rooms and in very aggressive environment. Larger flange width (size 2 - 4) are optional. Wheels fit flat and also tapered flanges!

Capacities up to 25 t on request.

Many special version upon request.

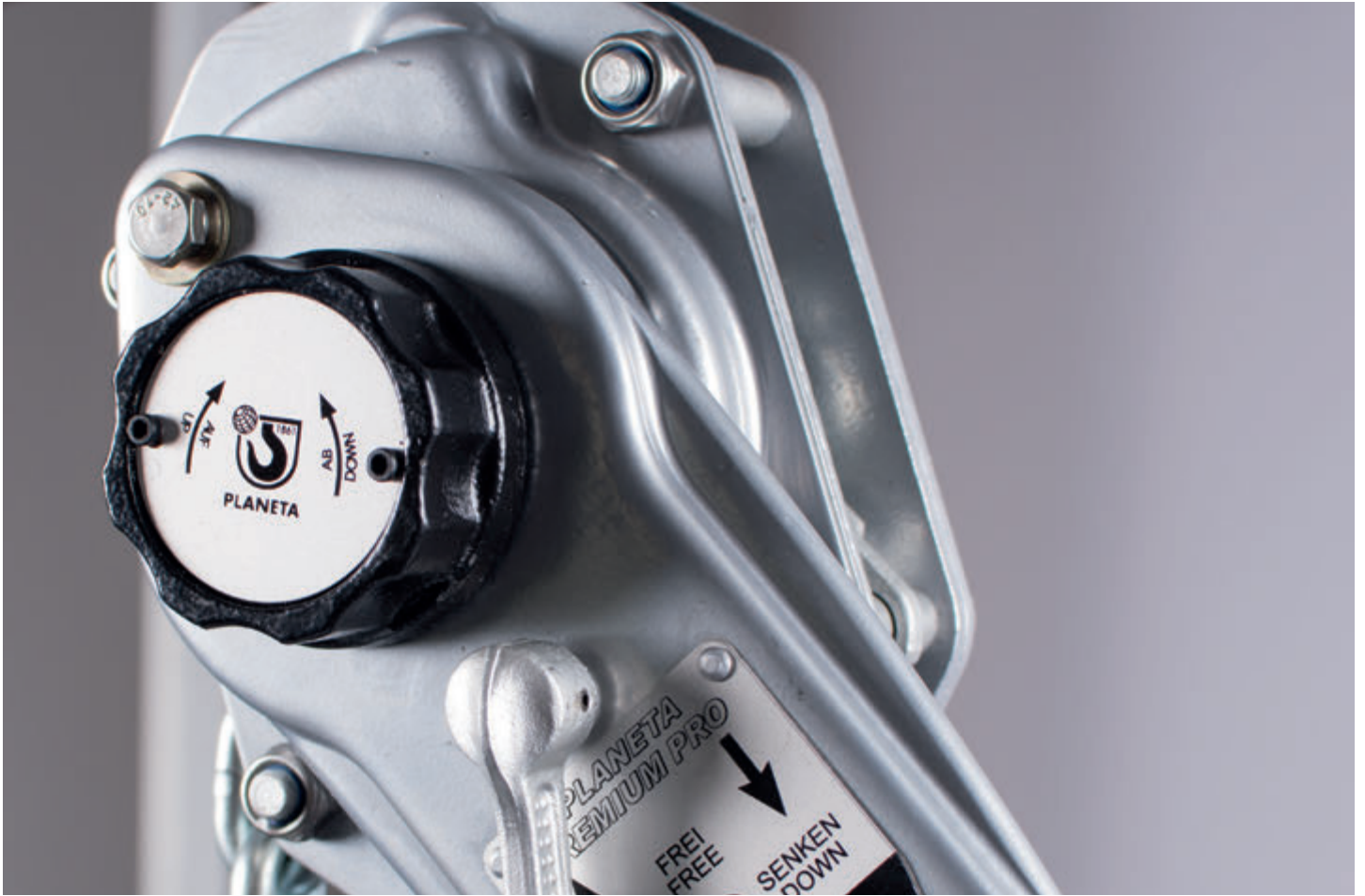
- NIROSTA - trolleys up to 3 t
- Bogie trolleys up to 10 t
- Rack gear trolleys up to 12.5 t
- Person transporting trolleys - acc. EN 1808 up to 4 t capacity



| | |
|------------------------------------|------------------|
| 1m more operation length | Order No. |
| Standard zinc plated (2.5 m total) | G20118 |

| TYPE | HD3N-H-VZ ... | 0.5 | 1 | 2 | 3.2 | 5 | 6.3 | 8* | 10 | 12.5 | 20 |
|---------------------------------------|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TYPE | HD3N-G-VZ ... | - | 1 | 2 | 3.2 | 5 | 6.3 | 8* | 10 | 12.5 | 20 |
| Capacity | kg | 500 | 1,000 | 2,000 | 3,200 | 5,000 | 6,300 | 8,000 | 10,000 | 12,500 | 20,000 |
| Maximum weight of hoist | kg | 100 | 120 | 250 | 150 | 300 | 200 | 550 | 600 | 150 | 800 |
| Flange width b | min. / max. size 1 mm | 55/102 | 55/102 | 74/127 | 90/143 | 106/156 | 106/156 | 106/166 | 131/195 | 143/222 | 170/212 |
| | min. / max. size 2 mm | 105/152 | 105/152 | 127/180 | 149/203 | 160/210 | 160/210 | 167/247 | 196/271 | 223/298 | - |
| | min. / max. size 3 mm | - | 156/203 | 190/243 | 203/254 | 210/260 | 210/260 | 248/349 | 272/363 | 299/389 | - |
| | min. / max. size 4 mm | - | 207/254 | 254/305 | 251/305 | 255/305 | 255/305 | - | - | - | - |
| Hand chain force | daN | - | 10 | 16 | 25 | 20 | 25 | 16 | 19 | 23 | 25 |
| Hand chain operation length | m | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Min. curve radius | m | 1 | 1.5 | 1.6 | 2 | 2.9 | 2.9 | 3.5 | 3.5 | 3.5 | 5.5 |
| A (Dimensions) | mm | 45 | 60 | 80 | 100 | 125 | 125 | 160 | 160 | 160 | 200 |
| B | mm | 60 | 75 | 100 | 120 | 150 | 150 | 190 | 190 | 190 | 240 |
| C | mm | 15 | 18 | 22 | 25 | 30 | 30 | 35 | 35 | 35 | 50 |
| D | mm | 52 | 60 | 75 | 90 | 117 | 117 | 145 | 145 | 145 | 165 |
| E | mm | 15 | 20 | 27 | 35 | 40 | 40 | 45 | 45 | 45 | 42 |
| F | mm | 45 | 60 | 80 | 100 | 120 | 120 | 145 | 145 | 145 | 165 |
| G | mm | 30 | 30 | 35 | 40 | 60 | 60 | 80 | 80 | 80 | 100 |
| H | mm | 125 | 150 | 195 | 235 | 295 | 300 | 365 | 370 | 375 | 450 |
| L | mm | 150 | 190 | 255 | 300 | 375 | 375 | 450 | 450 | 450 | 550 |
| M | mm | - | 65 | 65 | 70 | 100 | 100 | 115 | 115 | 115 | 135 |
| N | mm | - | 90 | 90 | 95 | 130 | 130 | 135 | 135 | 135 | 170 |
| O | mm | - | 100 | 100 | 100 | 135 | 135 | 270 | 270 | 270 | 300 |
| W | size 1 mm | 160 | 170 | 215 | 250 | 275 | 275 | b + 150 | b + 150 | b + 150 | b + 185 |
| | size 2 mm | 210 | 220 | 265 | 310 | 330 | 330 | | | | |
| | size 3 mm | - | 270 | 330 | 360 | 380 | 380 | | | | |
| | size 4 mm | - | 325 | 390 | 410 | 425 | 425 | | | | |
| R | mm | 75 | 99 | 123 | 144 | 174 | 174 | 220 | 220 | 220 | 272 |
| S | size 1 mm | 20 | 20 | 30 | 35 | 40 | 45 | 40 | 50 | 55 | 65 |
| | size 2 mm | 20 | 25 | 35 | 40 | 45 | 50 | 45 | 55 | 60 | - |
| | size 3 mm | - | 30 | 35 | 40 | 50 | 55 | 50 | 60 | 65 | - |
| | size 4 mm | - | 30 | 40 | 45 | 50 | 55 | - | - | - | - |
| Net weight HD3N-H-VZ | kg | 3 | 5 | 11 | 18 | 33 | 35 | 85 | 90 | 95 | 150 |
| Net weight HD3N-G-VZ | kg | - | 6 | 12 | 19 | 35 | 36 | 90 | 95 | 100 | 160 |
| HD3N-H-VZ | Order No. | G20230 | G20231 | G20232 | G20233 | G20234 | G20235 | G20236 | G20256 | G20257 | G20285 |
| HD3N-G-VZ with 2.5 m operation length | Order No. | - | G20237 | G20238 | G20239 | G20240 | G20241 | G20242 | G20258 | G20259 | G20286 |
| Larger flange width size 2-4 | Order No. | G20243 | G20244 | G20245 | G20246 | G20247 | G20248 | - | - | - | - |

* From 8 t version: Surface painted, color RAL 7021. / **The trolleys shown are designed for use with manual hoists.**





LHT-H 005L



LHT-G 005L



Combined power

Saving headroom

The very best manual chain hoist PREMIUM PRO and a trolley LST are put together in an integrated combination to save headroom. That means the distance between load point of hook and bottom of beam flange. This is very important if rooms are low or space is narrow. Halls can be build smaller what saves costs. Or if the clearance in older buildings is too narrow for standard hoists – this is the solution!

Advantages of trolley hoist

- shortens downtime in ships
- enables low cost bridge cranes
- labor saving during repair and maintenance works.
- optimal space utilisation

Low headroom trolley hoist LHT

The close combination of hoist and trolley with low headroom offers a unit that is both functional and versatile. There is less timespent messing with equipment and money is saved. The LHT-line uses the quality advantages of the PREMIUM PRO manual chain hoists. The smoothly moving and operation on ball bearings plus a perfectly finish of surface protection offers the user an uncomparable reliability. The standard equipped overload protection fulfills even the high demands on ocean going vessels.

Designs:

- LHT-H** = Chain hoist in push trolley
- LHT-G** = Chain hoist in gear type trolley

Standard version:

- PREMIUM chain hoist with 3 m lift and 2.5 m hand chain operation length
- Available as manual push trolley (TYPE -H) or geared trolley (TYPE -G)
- A contour trolley wheel design provides maximum beam contact on flat or tapered beams. Tilting and climbing protection according CE-regulations are self-evident.

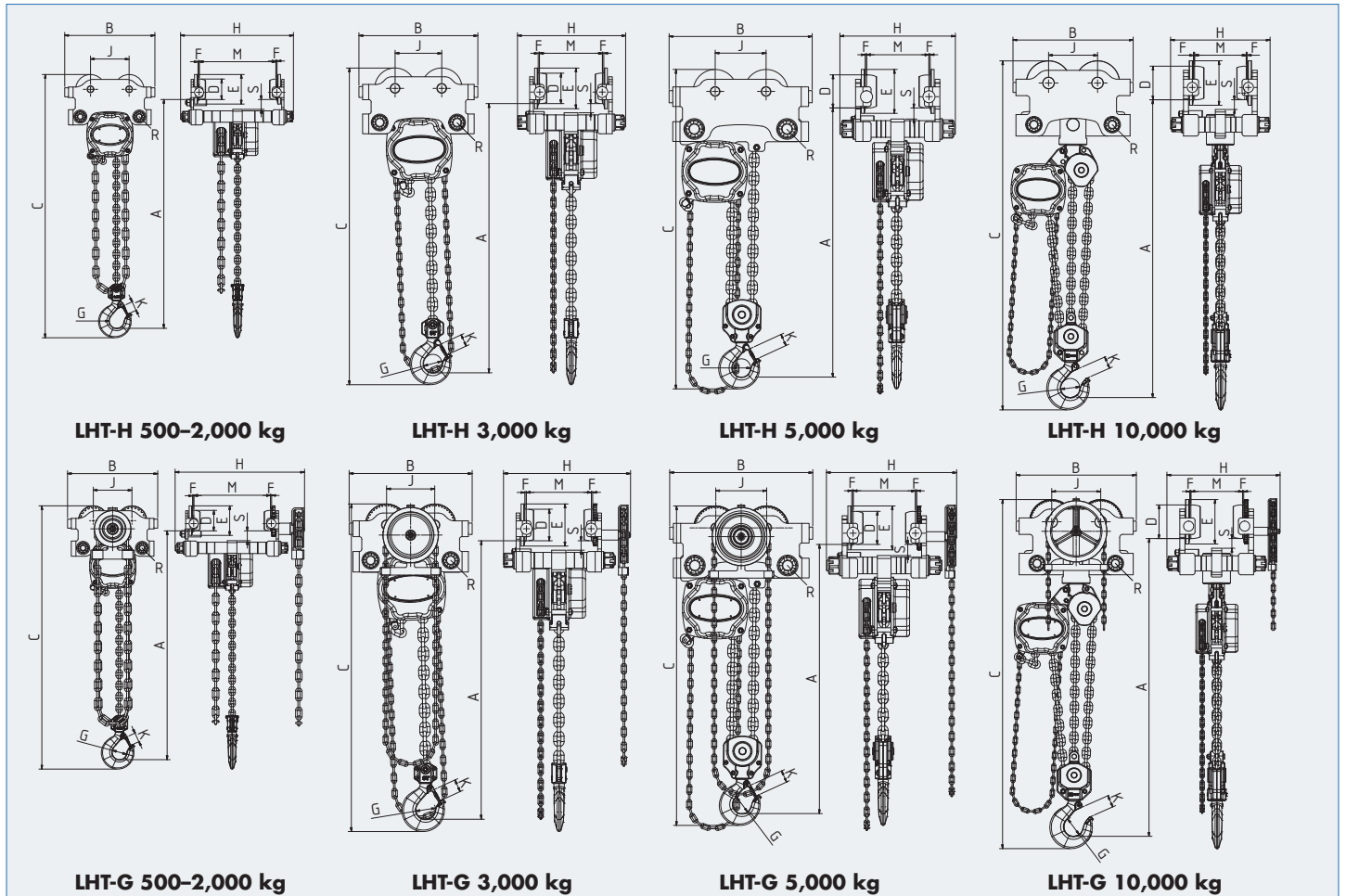
Options (on request):

- Chain case (what is very unusual for manual chain hoists) for down-hanging loose chain that may cause trouble in some cases.
- For corrosive environments, completely zinc plated surfaces are also available for the trolley
- Special non-corrosive and non-sparking steels for chain
- Special flange widths of up to 305 mm are possible if the specified adjustment range (dimension H) is no longer sufficient.
- Low headroom trolley hoist with position lock device

| TYPE | LHT...-H/-G | 005L | 010L | 015L | 020L | 030L | 050L | 100L | 200L |
|---------------------------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity | kg | 500 | 1,000 | 1,500 | 2,000 | 3,000 | 5,000 | 10,000 | 20,000 |
| Standard lift | m | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number of chain falls | | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 8 |
| Chain size | mm | 5 x 15 | 6 x 18 | 8 x 24 | 8 x 24 | 10 x 30 | 10 x 30 | 10 x 30* | 10 x 30 |
| Min. headroom (A) | mm | 268 | 318 | 388 | 388 | 472 | 595 | 800 | 965 |
| Beam flange width min.-max. (M) | mm | 50-203 | 64-203 | 88-203 | 88-203 | 100-203 | 114-203 | 124-203 | 136-203 |
| Min. curve radius | m | 0.85 | 1 | 1.1 | 1.1 | 1.3 | 1.4 | 2 | 3.5 |
| Meters hand chain to pull to lift 1 m | m | 29.5 | 39.4 | 60.8 | 60.8 | 96.7 | 193.3 | 290 | 386.7 |
| Reel path for 1 m path LHT-G | m | 3 | 3.6 | 4.7 | 4.7 | 5.7 | 6.3 | 8 | 10.6 |
| Dimension H min. LHT-H | mm | 298 | 314 | 325 | 325 | 355 | 381 | 388 | - |
| Dimension H min. LHT-G | mm | 342 | 363 | 374 | 374 | 403 | 428 | 445 | 498 |
| B | mm | 238 | 288 | 338 | 338 | 390 | 472 | 476 | 564 |
| C | mm | 352 | 420 | 487 | 487 | 566 | 745 | 940 | 1165 |
| D | mm | 54 | 67 | 80 | 80 | 100 | 109 | 133 | 170 |
| E | mm | 78 | 96 | 111 | 111 | 133.5 | 145 | 176 | 228 |
| F | mm | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| G | mm | ∅ 38 | ∅ 44 | ∅ 50 | ∅ 50 | ∅ 63 | ∅ 60 | ∅ 75 | ∅ 120 |
| J | mm | 102 | 112 | 131 | 131 | 153 | 168 | 194 | 234 |
| K | mm | 24 | 28 | 31 | 31 | 40 | 40 | 48 | 96 |
| R | mm | ∅ 20 | ∅ 24 | ∅ 29 | ∅ 29 | ∅ 34 | ∅ 39 | ∅ 44 | ∅ 59 |
| S | mm | 23 | 24 | 28 | 28 | 26 | 28 | 50 | 55 |
| Weight with 3 m lift LHT-H | kg | 13.5 | 22 | 42 | 42 | 56 | 82 | 143 | 331 |
| Weight with 3 m lift LHT-G | kg | 14.8 | 23.5 | 43.7 | 43.7 | 58 | 85 | 148 | 353 |
| LHT-H with 3 m lift | Order No. | G20300 | G20301 | G20302 | G20303 | G20304 | G20305 | G20307 | G20309 |
| Additional 1 m lift (LHT-H) | Order No. | G10271 | G10242 | G10243 | G10243 | G10272 | G10246 | G20077 | G20079 |
| LHT-G with 3 m lift | Order No. | G20310 | G20311 | G20312 | G20313 | G20314 | G20315 | G20317 | G20319 |
| Additional 1 m lift (LHT-G) | Order No. | G20320 | G20321 | G20322 | G20323 | G20324 | G20325 | G20327 | G20329 |
| Position lock device | Order No. | G10180 | G10181 | G10182 | G10182 | G10183 | G10184 | G10185 | G10186 |
| Larger flange width (M) min.-max. | mm | 64-305 | 64-305 | 88-305 | 88-305 | 100-305 | 114-305 | 124-305 | 136-305 |
| | Order No. | G20090 | G20091 | G20092 | G20093 | G20094 | G20095 | G20097 | G20099 |

Chain bag (plastic) on request.

* Grade 100



Lifting trolley LHT-Hyperlow

Extremely short design

The PKB trolley is an extremely compact combination hoist, consisting of trolley and integrated chain hoist, with a very low overall height. The load hook is pulled directly under the flange of the girder - you can't get any shorter for single girder trolleys!

Features

- Low weight
- Extremely low overall height
- Low effort required for hand chain operation
- Double safety catches
- 2-layer surface finish in RAL 5010

Quality features

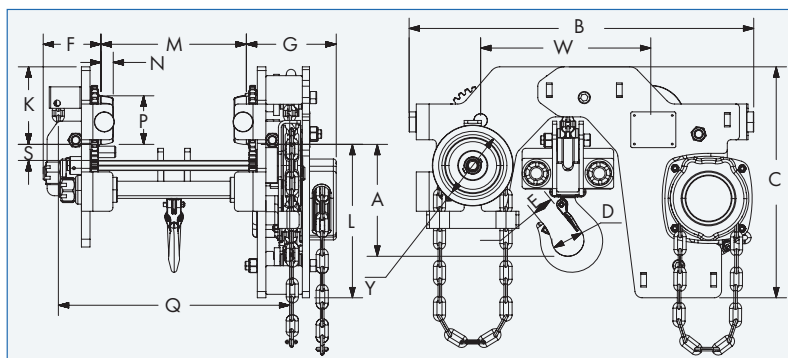
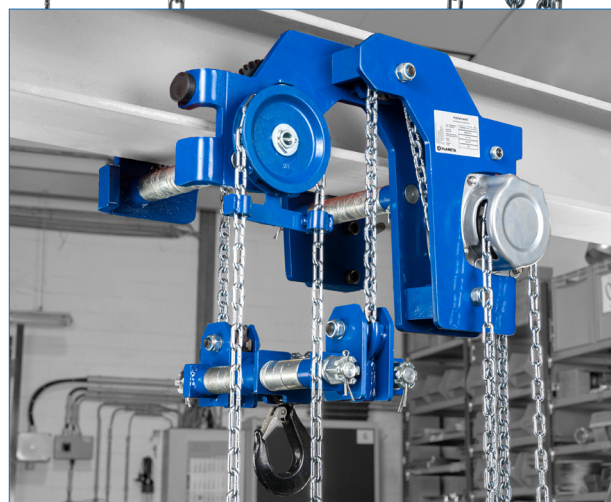
A solid steel construction with proven standard hoist components (including overload protection).

Basic equipment

- Contoured wheel profiles for flat and inclined beams.
- Quenched and tempered and galvanised load chain with the properties of DIN EN 818-7-T, hand chain in galvanised design.
- Standard lift 3 m and hand chain operating length 2.5 m.
- Comprehensive operating instructions and test book.

Special equipment

Special ATEX protection with bronze parts and galvanisation, chain bag, locking device: on request.



| TYPE | LHT-Hyperlow ... | 10 | 20 | 32 | 63 | 100 |
|---------------------------------------|------------------|---------------|---------------|---------------|---------------|---------------|
| Capacity | kg | 1,000 | 2,000 | 3,200 | 6,300 | 10,000 |
| Standard lift | m | 3 | 3 | 3 | 3 | 3 |
| Number of chain falls | | 2 | 2 | 2 | 2 | 4 |
| Chain size | mm | 5 x 15 | 6 x 18 | 8 x 24 | 10 x 30 | 10 x 30 |
| Hand chain force | daN | 29.5 | 33.2 | 34.4 | 43.2 | 33.8 |
| Min. Headroom (A) | mm | 156 | 173 | 212 | 249 | 305 |
| Beam flange width min.- max. (M) | mm | 64 – 203 | 88 – 203 | 100 – 203 | 114 – 203 | 124 – 203 |
| Meters hand chain to pull to lift 1 m | m | 59.06 | 78.76 | 121.52 | 193.33 | 386.68 |
| Reel path for 1 m path | m | 3.575 | 4.630 | 5.643 | 5.708 | 6.701 |
| B (Dimensions) | mm | 482 | 569 | 647 | 738 | 916 |
| C | mm | 323 | 393 | 487 | 592 | 580 |
| D | mm | 45 | 50 | 58 | 68 | 91 |
| E | mm | 30 | 34 | 38 | 47 | 61 |
| F | mm | 81 | 91 | 111 | 135 | 160 |
| G | mm | 126 | 154 | 162 | 194 | 192 |
| K | mm | 108 | 138 | 165 | 214 | 196 |
| L | mm | 215 | 254 | 322 | 378 | 384 |
| N | mm | 17 | 20 | 24 | 33 | 37 |
| P | mm | 68 | 80 | 100 | 109 | 133 |
| Q | mm | 324 | 340 | 381 | 427 | 426 |
| S | mm | 22 | 22 | 21 | 24 | 28 |
| W | mm | 238 | 280 | 330 | 375 | 480 |
| Y | mm | 95.5 | 127.3 | 159.2 | 160 | 222.8 |
| Weight with standard lift | kg | 59 | 68.8 | 139 | 227.5 | 340.7 |
| Weight for 1 m add. lifting height | kg | 2.8 | 3.3 | 4.5 | 6.1 | 10.5 |
| LHT-Hyperlow with 3 m lift | Order No. | G20380 | G20381 | G20382 | G20383 | G20385 |
| Additional 1 m lift | Order No. | G20390 | G20391 | G20392 | G20393 | G20395 |

ATEX-PROOF EQUIPMENT





PREMIUM PRO
3.2

Lever hoist PREMIUM PRO

The next development stage of the reliable PLH-PREMIUM lever hoist is the PREMIUM PRO. Thanks to a significant weight saving, handling is improved. Despite this, the frame has been strengthened compared to the previous generation. Proven quality also ensures longevity and its design makes it very robust.

Free-running mode

When the selection switch is moved to the middle point, the unladen chain can easily be pulled through the device freely to the required usage length. This makes tensioning the chain easier.

Load chain

The tempered, galvanised load chain according to DIN EN 818-7-T is supplied with the unit. The standard lifting height is 1.5 m; any length required for higher lifting is possible.

New chain end piece

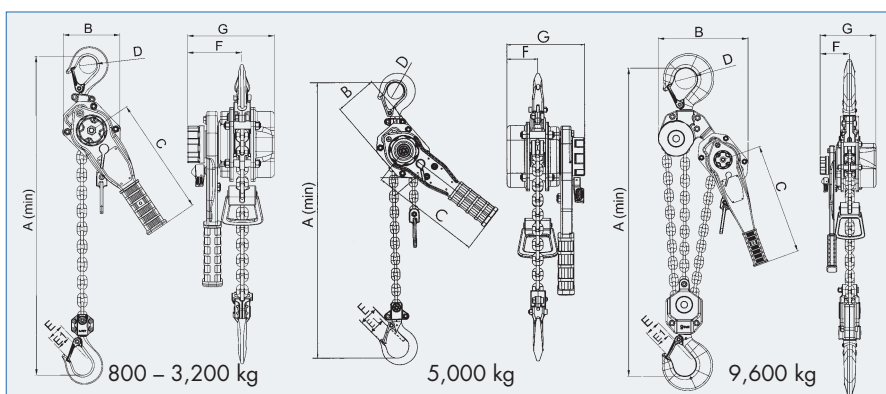
The robust chain end piece provides additional safety because it cannot be pulled through the device with the chain.

Protected handle

The ergonomic rubber handle on the end of the lever protects the user against injury and is also screwed in place to prevent it slipping.

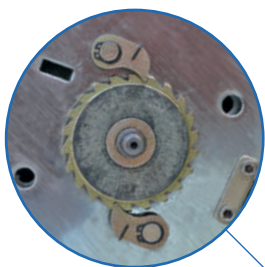
Technical advantages

Hand lever can be used in any position thanks to the ratchet; safety automatic mechanical brake; galvanised connecting parts; cast hook clip; large, non-slip and closed hand wheel; safety chain end piece.



| TYPE | PREMIUM PRO -EX... | 0.8 | 1.6 | 3.2 | 5** | 6.4 | 9.6 |
|---|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity Basic/Medium | kg | 800 | 1,600 | 3,200 | 5,000 | 6,400 | 9,600 |
| Capacity High | kg | 600 | 1,200 | 1,600 | 3,300 | 3,200 | 4,800 |
| Standard lift | m | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Min. headroom (A) | mm | 320 | 360 | 431 | 655 | 500 | 635 |
| Lever force | daN | 22 | 24 | 33 | 37 | 36 | 38 |
| Meters load chain movement with 1 round 360° | m | 0,019 | 0,015 | 0,016 | 0,009 | 0,008 | 0,005 |
| Number of chain falls | | 1 | 1 | 1 | 1 | 2 | 3 |
| Chain size | mm | 5.6 x 17 | 7.1 x 21 | 9 x 27* | 13 x 36 | 9 x 27* | 9 x 27* |
| B (Dimensions) | mm | 115 | 137 | 169 | 180 | 238 | 300 |
| C | mm | 239 | 259 | 374 | 400 | 374 | 374 |
| D | mm | 35 | 42 | 48 | 60 | 60 | 70 |
| E | mm | 35 | 38 | 46 | 43 | 59 | 54 |
| E1 | mm | 23 | 28.5 | 33 | 41 | 39 | 51 |
| F | mm | 91 | 67 | 98 | 104 | 98 | 98 |
| G | mm | 146 | 162 | 187 | 213 | 187 | 187 |
| Weight with standard lift | kg | 6.3 | 8.8 | 16.4 | 32.5 | 24.9 | 42.1 |
| Weight for 1m additional lifting height | kg | 0.7 | 1.1 | 1.8 | 3.7 | 3.6 | 5.4 |
| Version Basic: PREMIUM PRO-EX ... with 1.5 m lift | Order No. | G10320 | G10321 | G10322 | G10323 | G10324 | G10325 |
| Version Medium: PREMIUM PRO-EX ... with 1.5 m lift | Order No. | G10326 | G10327 | G10328 | G10329 | G10330 | G10331 |
| Add. lifting height per m Basic / Medium | Order No. | G10086 | G10087 | G10249 | G10287 | G10254 | G10256 |
| Version High: PREMIUM PRO-EX ... with 1.5 m lift | Order No. | G10338 | G10339 | G10340 | G10341 | G10342 | G10343 |
| Add. lifting height per m High | Order No. | - | G10345 | G10346 | G10347 | G10348 | G10349 |

* Grade 100 **chromated



Safety brake with two pawls



Large, non-slip hand wheel



Integrated chain guide



Reversing lever with free-running mode



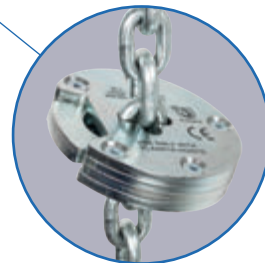
Powder-coated (RAL 9022) housing for best corrosion protection ** (5,000 kg chromated)



Extra-secure handle



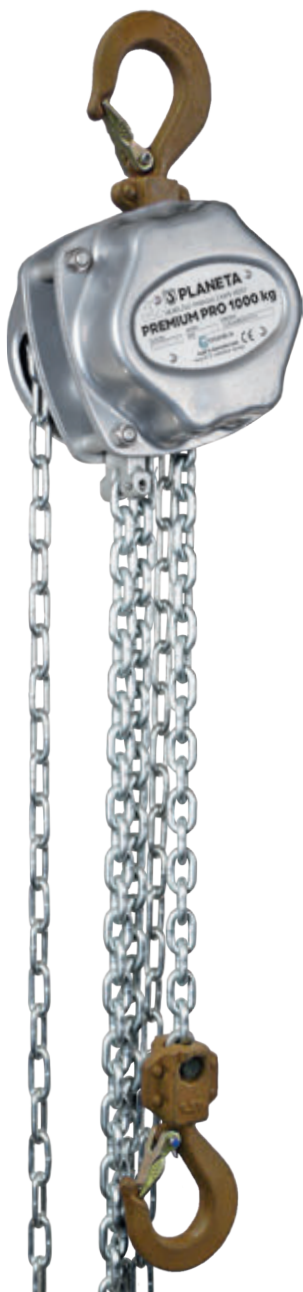
Chain end piece with robust plastic design



The optional chain inhibit lock prevents the load chain slipping through the hoist housing.



Drop-forged load hook with closed and fitting safety latch



PREMIUM PRO 1

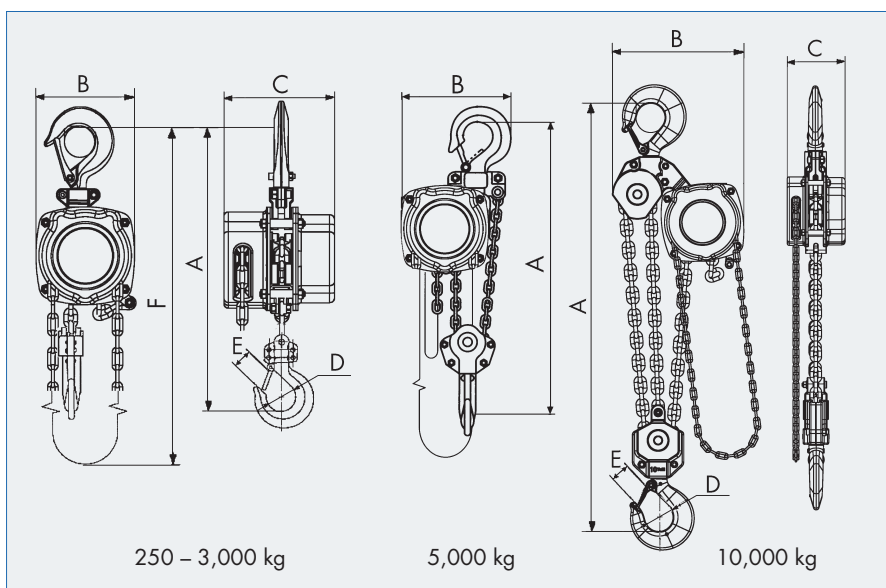
PREMIUM PRO with EX-protection

The PREMIUM PRO-EX gets a very special surface treatment and has some changes in design that allows you to use the manual chain hoist in explosion hazardous areas. It accords to EC-guide lines 2014/34/EU.

Three explosion classes are specified. We offer the versions Basic, Medium and High. Please ask us for more detailed informations in case of doubts.

All around galvanization and chromatisation

Mud and dirt cannot harm this hoist! This protection begins with self-locking galvanized castle nuts, goes over bronze wheels and rustfree chains and ends with fully powder-coated housing parts. Overload protection in 0.5 t capacity hoist and bigger, supplied with ATEX-Certificate!



| 1 m more operating length | Capacity | Order No. |
|---------------------------|---------------|---------------|
| Hand chain Basic/Medium | 500–10,000 kg | G10178 |
| Hand chain High | 500–10,000 kg | G10179 |

| TYPE | PREMIUM PRO-EX ... | 0.25 | 0.5 | 1 | 1.5 | 2 | 3 | 5 | 10 |
|---|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity Basic/Medium | kg | 250 | 500 | 1,000 | 1,500 | 2,000 | 3,000 | 5,000 | 10,000 |
| Capacity High | kg | 250 | 500 | 900 | 1,250 | 1,250 | 2,000 | 3,200 | 6,400 |
| Standard lift | m | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Min. headroom (A) | mm | 259 | 309 | 373 | 460 | 460 | 553 | 630 | 900 |
| Hand chain force | daN | 22 | 24 | 30.5 | 36 | 36 | 37 | 39 | 39.5 |
| Hand chain operation length | m | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Meters hand chain to pull to lift 1m | m | 14.8 | 29.5 | 39.4 | 60.8 | 60.8 | 96.7 | 193.3 | 290 |
| Number of chain falls | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 |
| Chain size | mm | 4 x 12 | 5 x 15 | 6 x 18 | 8 x 24 | 8 x 24 | 10 x 30 | 10 x 30 | 10 x 30* |
| B (Dimensions) | mm | 95 | 114 | 152 | 190 | 190 | 240 | 240 | 391 |
| C | mm | 99.4 | 110 | 139 | 150 | 150 | 158 | 158 | 166 |
| D | mm | 30 | 33 | 40 | 52 | 52 | 62 | 72 | 85 |
| E | mm | 22 | 22 | 28 | 33 | 33 | 37 | 44 | 60 |
| F | m | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Weight with standard lift | kg | 5.8 | 7.6 | 11.5 | 17.2 | 17.2 | 27 | 40.5 | 61.9 |
| Weight per m additional lift ** | kg | 1.2 | 1.4 | 1.6 | 2.2 | 2.2 | 3.0 | 5.2 | 14.8 |
| Version Basic: PREMIUM PRO-EX ... with 3 m lift | Order No. | G10360 | G10361 | G10362 | G10363 | G10364 | G10365 | G10366 | G10367 |
| Version Medium: PREMIUM PRO-EX ... with 3 m lift | Order No. | G10368 | G10369 | G10370 | G10371 | G10372 | G10373 | G10374 | G10375 |
| Add. lifting height per m Basic / Medium | Order No. | G10270 | G10271 | G10242 | G10243 | G10243 | G10272 | G10246 | G10247 |
| Version High: PREMIUM PRO-EX ... with 3 m lift | Order No. | G10376 | G10377 | G10378 | G10379 | G10380 | G10381 | G10382 | G10383 |
| Add. lifting height per m High | Order No. | G10170 | G10171 | G10172 | G10173 | G10174 | G10175 | G10176 | G10177 |

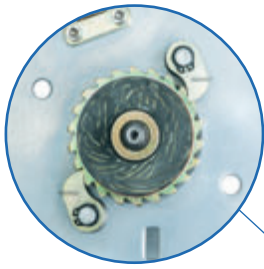
* Grade 100 by versions Basic and Medium.

** 1 m operating length and 1 m lift

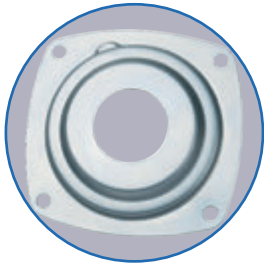
More capacities on request.

Chain bag (plastic) up to 3 m lift. Chain bag up 6 t (steel plate) on request.

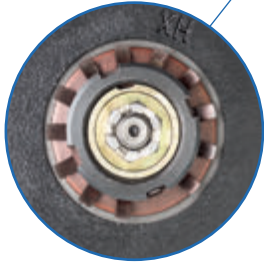
Safety brake with two pawls hold the load in any position safely! All parts corrosion protected!



Extra brake dust cover



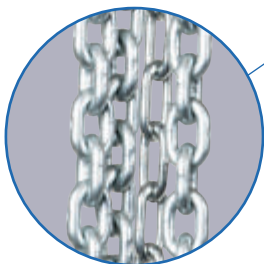
Standard overload protection (over 500 kg)



Chain mounting for lower terminal link



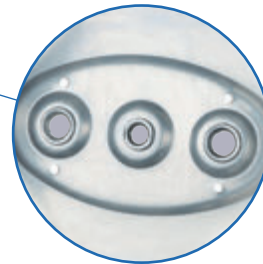
Tempered and galvanized load chain acc. DIN EN 818-7-1



Swivelling top and bottom hook



3-fold bearing of the gearbox



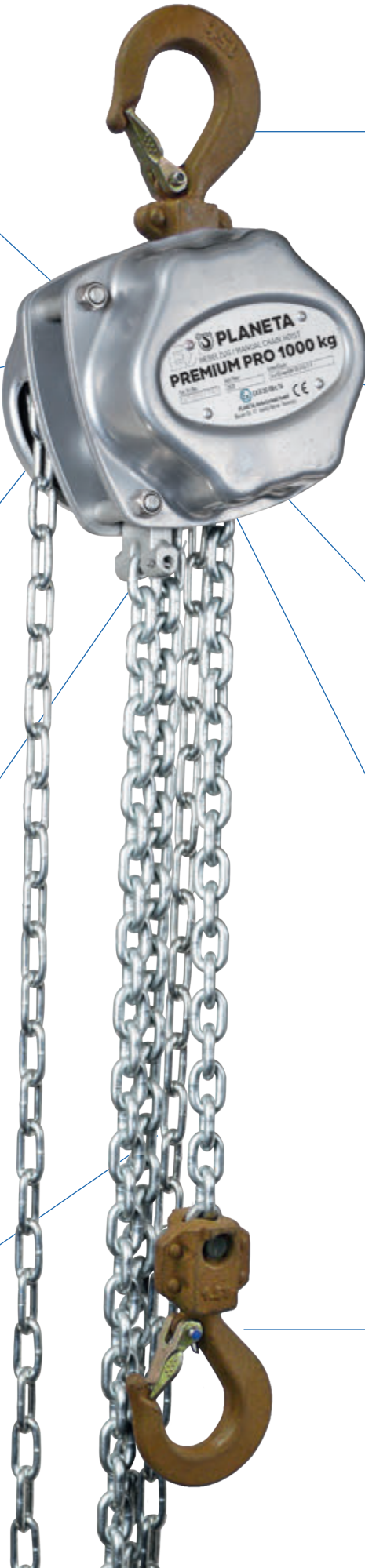
Powder-coated (RAL 9022) housing for best corrosion protection



Ball bearing mounted sprocket shaft



New cast hook clips





PREMIUM PRO ABK® – Corrosion resistant hand chain hoists

Corrosive and aggressive environments like in the chemical, water treatment and animal food processing industries, need reliable lifting equipment which can withstand these elements.

PLANETA's Premium Pro ABK offer high resistant aluminum ceramic coatings, offer the excellent properties of ceramics such as high hardness and wear resistance.

Plasma spraying has shown excellent results in this application. During plasma spraying, oxide ceramic powder such as aluminum oxide, are melted in a plasma flame at approx. 10,000 °C and sprayed on a previously sandblasted metal surface.

The single fall hoists are as standard equipped with Grade 60 polished stainless steel lifting and maneuvering chains, as well as stainless steel hooks. Operators will sense the efficient gear ratio and low tolerance gears and perform lifting operations with the least efforts.

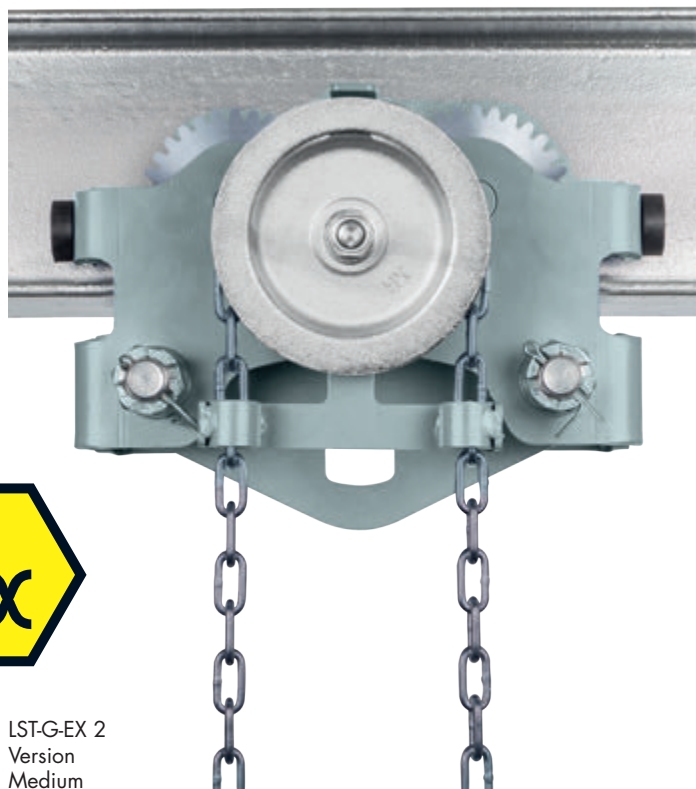
The failsafe brake is protected by an internal dustcover and the mechanical torque limiter protects the hoist and structures against overload. For special conditions high temperature or food grade grease is available.







LST-H-EX 0.5
Version
Medium



LST-G-EX 2
Version
Medium



LST-EX trolleys

The undercarriages are manufactured to a high quality and are designed for hard and long-lasting operation.

The PREMIUM PRO-EX block and tackle hoists of the same load capacity can be easily attached and detached with the hook in and out.

The trolleys have rubber buffers on both sides!

Large adjustment range

Due to the simple change of spacers, the trolleys offer the trolleys adjustability to many carriers.

There are two flange adjustment ranges. The standard bolts are adjustable for normal widths, the size 2 bolts offer an extended adjustment range up to large HE-B beams with 300 mm flange width.

Double safety

Double anti-tippers on both sides of all trolleys prevent the trolleys from climbing onto the girder. Angled side plates act as fall protection.

Stable side plates

Balanced load distribution on four wheels due to Self-adjustment with two carrying bolts! Slightly movable support bolts allow the side plates to automatically adjust to any unevenness of the running surface.

EX-protection version

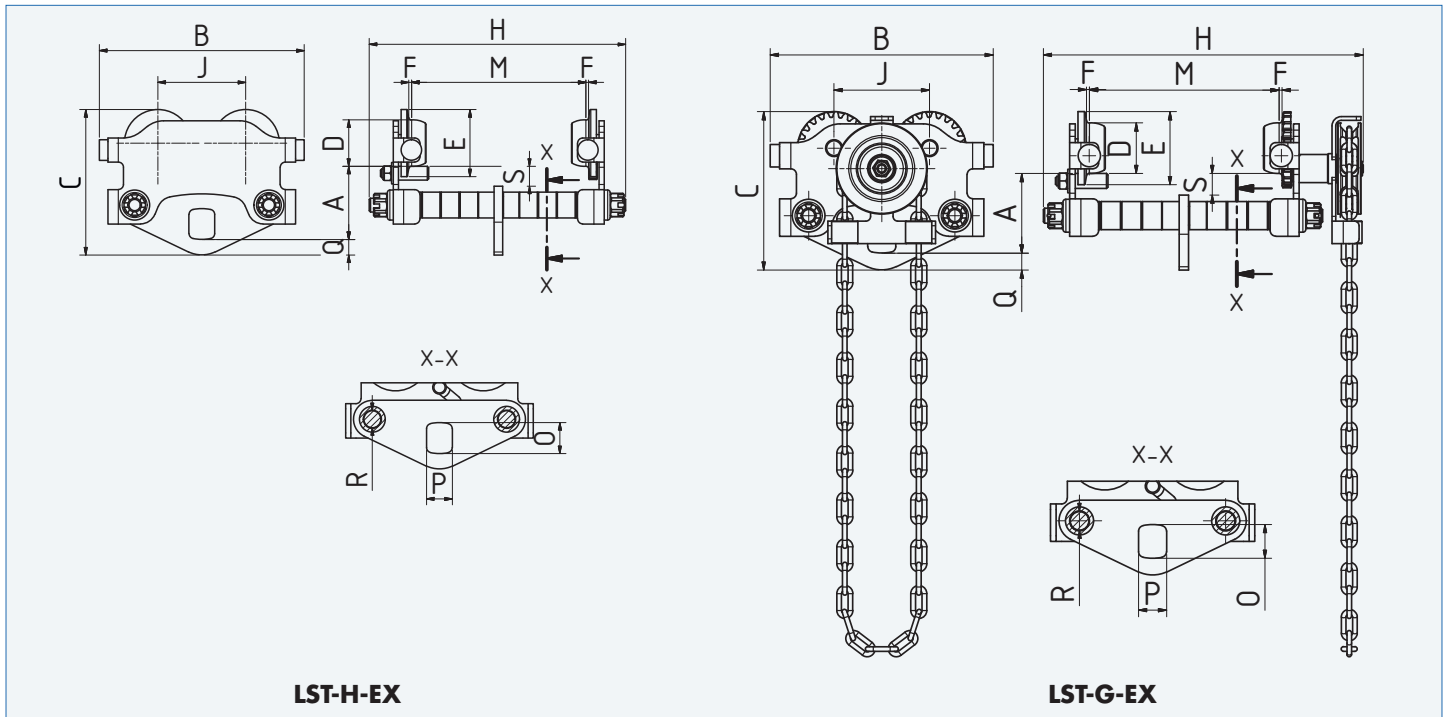
For EX-protected applications, specially treated wheels and hand treated wheels and hand chains made of stainless steel are available, which makes the trolleys suitable for EX-areas up to zone 1 II 2 G IIC T4. the trolleys. The trolleys comply with the ATEX Directive 2014/34/EU.

Types:

LST-H-EX = Push trolley

LST-G-EX = Gear type trolley

The trolleys shown are designed for use with manual hoists.



LST-H-EX

LST-G-EX

| TYPE | LST-H-EX ... | 0.5 | 1 | 2 | 3 | 5 | 10 | - |
|--|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TYPE | LST-G-EX ... | 0.5 | 1 | 2 | 3 | 5 | 10 | 20 |
| Capacity | kg | 500 | 1,000 | 2,000 | 3,000 | 5,000 | 10,000 | 20,000 |
| Flange width M min.–max. | mm | 50–203 | 64–203 | 88–203 | 100–203 | 114–203 | 124–203 | 136–203 |
| Min. curve radius | m | 0.85 | 1 | 1.1 | 1.3 | 1.4 | 2 | a.A. |
| Hand chain operation length LST-G-EX | m | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Reel path for 1 m path LST-G-EX | m | 2.96 | 3.63 | 4.65 | 5.66 | 6.34 | 7.98 | 10.63 |
| A (Dimensions) | mm | 85 | 103 | 115 | 125 | 143 | 187 | 250 |
| B | mm | 238 | 288 | 338 | 390 | 472 | 476 | 564 |
| C | mm | 169 | 207 | 237 | 271 | 307 | 381 | 514 |
| D | mm | 54 | 67 | 80 | 100 | 109 | 133 | 170 |
| E | mm | 78 | 96 | 111 | 133.5 | 145 | 176 | 228 |
| F | mm | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| H (LST-H-EX) | mm | 298 | 314 | 325 | 355 | 381 | 388 | – |
| H (LST-G-EX) | mm | 342 | 363 | 374 | 403 | 428 | 445 | 498 |
| J | mm | 102 | 112 | 131 | 153 | 168 | 194 | 234 |
| O | mm | 36 | 40 | 48 | 54 | 66 | 80 | 130 |
| P | mm | 30 | 36 | 40 | 46 | 52 | 64 | 100 |
| Q | mm | 18 | 22 | 26 | 29 | 37 | 40 | 65 |
| R | mm | ∅ 20 | ∅ 24 | ∅ 29 | ∅ 34 | ∅ 39 | ∅ 44 | ∅ 59 |
| S | mm | 23 | 24 | 28 | 26 | 28 | 50 | 55 |
| Net weight LST-H-EX | kg | 9 | 14 | 22 | 36 | 55 | 86 | – |
| Net weight LST-G-EX | kg | 11 | 16 | 24 | 39 | 59 | 89 | 190 |
| Version Basic: LST-H-EX | Order No. | G20400 | G20401 | G20402 | G20403 | G20404 | G20405 | – |
| Version Medium: LST-H-EX | Order No. | G20410 | G20411 | G20412 | G20413 | G20414 | G20415 | – |
| Version High: LST-H-EX | Order No. | G20420 | G20421 | G20422 | G20423 | G20424 | G20425 | – |
| Version Basic: LST-G-EX with 2.5 m operation length | Order No. | G20430 | G20431 | G20432 | G20433 | G20434 | G20435 | G20436 |
| Version Medium: LST-G-EX with 2.5 m operation length | Order No. | G20440 | G20441 | G20442 | G20443 | G20444 | G20445 | G20446 |
| Version High: LST-G-EX with 2.5 m operation length | Order No. | G20450 | G20451 | G20452 | G20453 | G20454 | G20455 | G20456 |
| Add. hand chain operation length/m (Basic/Medium) | Order No. | G20017 | G20017 | G20017 | G20017 | G20017 | G20017 | G20017 |
| Add. hand chain operation length/m (High) | Order No. | G20520 | G20520 | G20520 | G20520 | G20520 | G20520 | G20520 |
| Larger flange width min.–max. | mm | 50–305 | 64–305 | 68–305 | 100–305 | 114–305 | 124–305 | 136–305 |
| | Order No. | G20090 | G20091 | G20093 | G20094 | G20095 | G20097 | G20099 |
| Position lock device | Order No. | G20521 | G20522 | G20524 | G20525 | G20526 | G20527 | G20528 |
| Extended handwheel shaft | Order No. | G20529 | G20530 | G20531 | G20532 | G20533 | G20534 | G20535 |

Other capacities on request!



LHT-H-EX 005L
Version Medium



LHT-G-EX 005L
Version Medium



EX-proof combined trolleys LHT-EX

By directly connecting the manual chain hoist and the trolley, the upper hook of the conventional manual chain hoist is saved and thus the overall height is significantly reduced. Here we use our proven Premium Pro manual chain block in the explosion-protected version.

The Premium Pro manual chain hoist with ball bearings is also suitable for heavy-duty use and protected against corrosion by its coated components. Additionally stainless steel components prevent sparking. The standard overload protection prevents overloading of the hoist and the supporting structure. If the Ex class Medium or High is required the load hook is additionally coated against sparking.

The LHT trolley is coated on all sides to reduce sparking and the stainless steel ball bearing wheels ensure smooth running.

Stainless steel load and hand chains are used depending on which Ex class is required..

Standard version:

- Premium Pro EX (BASIC, Medium, High) Manual chain hoist with 3 m lift and 2.5 m manual chain.
- Available as push trolley (TYPE: H) or as gear type trolley (TYPE: G)
- Thanks to the crowned wheel profiles, the LHT is suitable for I-NP girders with inclined flanges as well as for all other HE girders with parallel flanges.

Special equipment (on request):

- Chain box for suspended chain
- Design for rust-prone areas with special chains
- Special flange widths up to 305 mm possible if the specified adjustment range (dimension H) is no longer sufficient.

Advantages of a combined trolley:

- Optimum utilisation of the often narrow installation space between machines and raceway supports
- Reduction of downtimes e.g. in ship engine rooms
- Less expensive bridge and jib cranes
- Labour savings during repair and maintenance work.

Types:

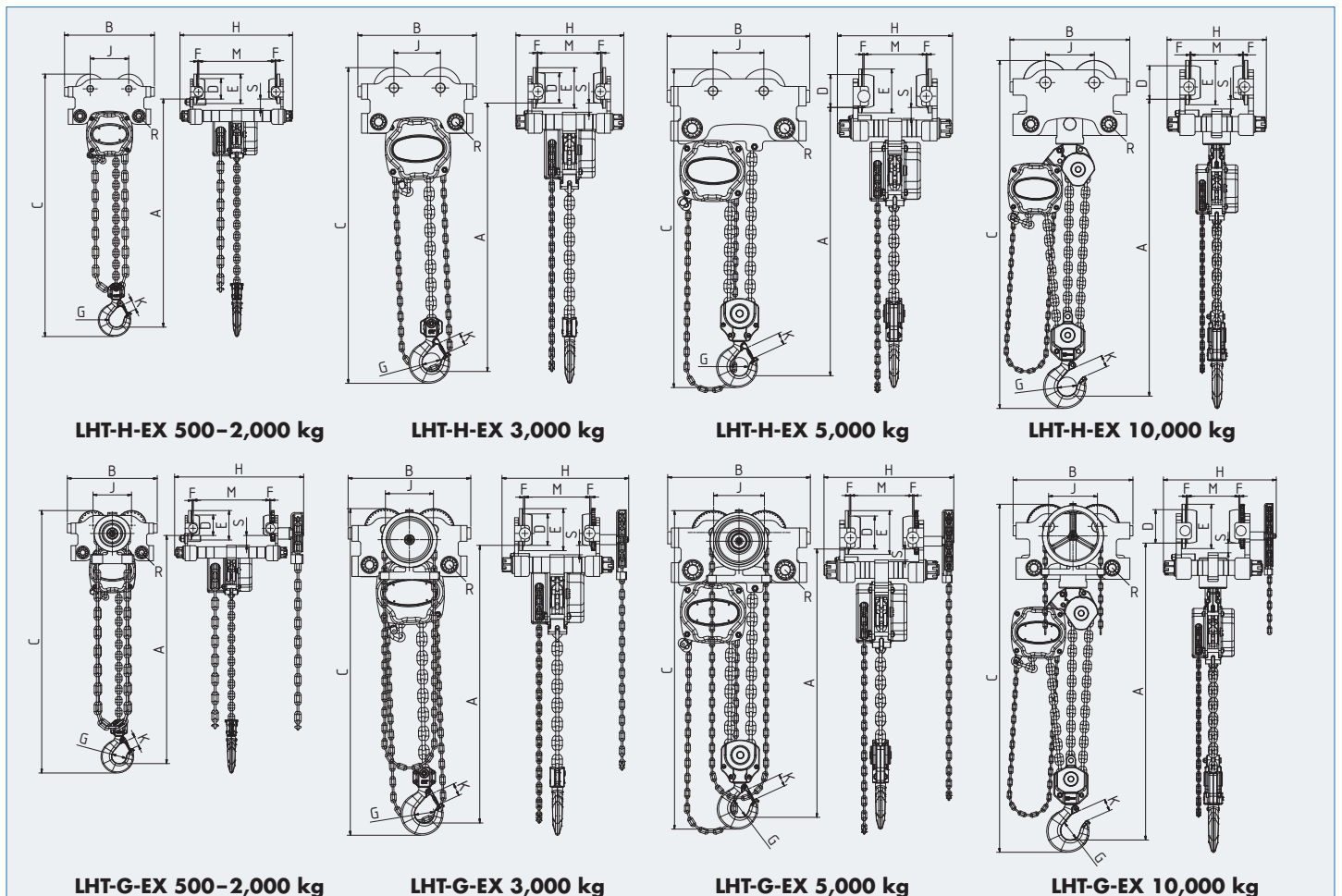
LHT-H-EX = Manual chain hoist with push trolley

LHT-G-EX = Manual chain hoist with gear type trolley

| TYPE | LHT...-H/-G-EX | 005L | 010L | 015L | 020L | 030L | 050L | 100L |
|--|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity Basic/Medium | kg | 500 | 1,000 | 1,500 | 2,000 | 3,000 | 5,000 | 10,000 |
| Capacity High | kg | 500 | 900 | 1,250 | 1,250 | 2,000 | 3,200 | 6,400 |
| Standard lift | m | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number of chain falls | | 1 | 1 | 1 | 1 | 1 | 2 | 3 |
| Chain size | mm | 5 x 15 | 6 x 18 | 8 x 24 | 8 x 24 | 10 x 30 | 10 x 30 | 10 x 30* |
| Min. headroom (A) | mm | 268 | 318 | 388 | 388 | 472 | 595 | 800 |
| Flange width min.-max. (M) | mm | 50-203 | 64-203 | 88-203 | 88-203 | 100-203 | 114-203 | 124-203 |
| Min. curve radius | m | 0.85 | 1 | 1.1 | 1.1 | 1.3 | 1.4 | 2 |
| Reel path for 1 m Hub | m | 29.5 | 39.4 | 60.8 | 60.8 | 96.7 | 193.3 | 290 |
| Reel path for 1 m path LHT-G | m | 3 | 3.6 | 4.7 | 4.7 | 5.7 | 6.3 | 8 |
| Weight with 3 m lift LHT-H | kg | 13.5 | 22 | 42 | 42 | 56 | 82 | 143 |
| Weight with 3 m lift LHT-G | kg | 14.8 | 23.5 | 43.7 | 43.7 | 58 | 85 | 148 |
| Version Basic: LHT-H-EX with 3 m lift | Order No. | G20460 | G20461 | G20462 | G20463 | G20464 | G20465 | G20466 |
| Version Medium: LHT-H-EX with 3 m lift | Order No. | G20470 | G20471 | G20472 | G20473 | G20474 | G20475 | G20476 |
| Additional lift per m (LHT-H-EX) | Order No. | G10271 | G10242 | G10243 | G10243 | G10272 | G10246 | G20077 |
| Version High: LHT-H-EX mit 3 m Hub | Order No. | G20480 | G20481 | G20482 | G20483 | G20484 | G20485 | G20486 |
| Additional lift per m (LHT-H-EX) | Order No. | G50025 | G50026 | G50027 | G50028 | G50029 | G50030 | G50031 |
| Version Basic: LHT-G-EX with 3 m lift | Order No. | G20490 | G20491 | G20492 | G20493 | G20494 | G20495 | G20496 |
| Version Medium: LHT-G-EX with 3 m lift | Order No. | G20500 | G20501 | G20502 | G20503 | G20504 | G20505 | G20506 |
| Additional lift per m (LHT-G-EX) | Order No. | G20320 | G20321 | G20322 | G20323 | G20324 | G20325 | G20327 |
| Version High: LHT-G-EX with 3 m lift | Order No. | G20510 | G20511 | G20512 | G20513 | G20514 | G20515 | G20516 |
| Additional lift per m (High) (LHT-G-EX) | Order No. | G20536 | G20537 | G20538 | G20539 | G20540 | G20541 | G20542 |
| Position lock device | Order No. | G20521 | G20522 | G20523 | G20524 | G20525 | G20526 | G20527 |
| Larger flange width (M) min.-max. | mm | 64-305 | 64-305 | 88-305 | 88-305 | 100-305 | 114-305 | 124-305 |
| | Order No. | G20090 | G20091 | G20092 | G20093 | G20094 | G20095 | G20097 |

Chain bag (plastic) on request.

* Grade 100



SUPER-Corrosion protection (Basic/Medium)

HD3N-trolleys have outstanding corrosion protection. All steel parts are electrolytically zinc plated. This is a must in wet rooms and in very aggressive environment. Larger flange width (size 2 - 4) are optional. Wheels fit flat and also tapered flanges!

Capacities up to 25,000 kg on request.

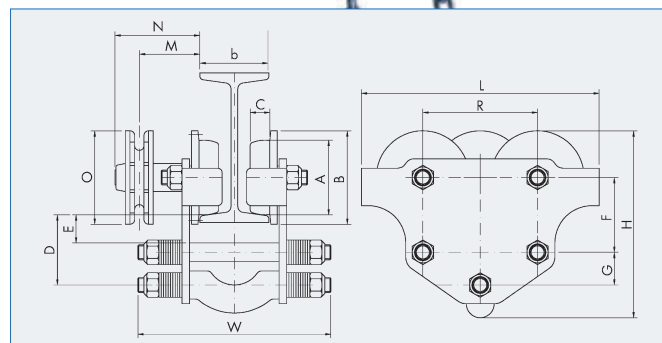
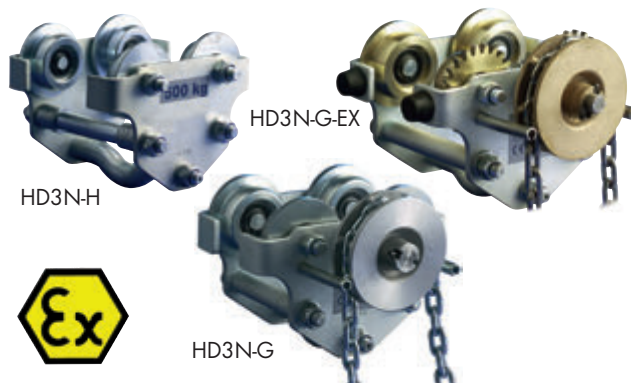
EX-protection version (High)

Trolleys for use in environments with explosion danger (so-called ex-proof areas) are equipped with bronze wheels and sparkfree hand chains for EX-areas **up to ⚠-Zone 1 II 2 G IIC T4.**

The trolleys accord to ATEX Directive 2014/34/EU.

Many special version upon request.

- Person transporting trolleys - acc. EN 1808 up to 4 t capacity
- Flame zinc plating
- NIROSTA - trolleys up to 3,000 kg (non-corrosive steel)
- Bogie trolleys up to 10,000 kg
- Rack and pinion trolleys up to 12,500 kg



| TYPE | HD3N-H-EX ... | 0.5 | 1 | 2 | 3.2 | 5 | 6.3 | 8 | 10 | 12.5 | 20 |
|---|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TYPE | HD3N-G-EX ... | - | 1 | 2 | 3.2 | 5 | 6.3 | 8 | 10 | 12.5 | 20 |
| Capacity | kg | 500 | 1,000 | 2,000 | 3,200 | 5,000 | 6,300 | 8,000 | 10,000 | 12,500 | 20,000 |
| Maximum weight of hoist | kg | 100 | 120 | 250 | 150 | 300 | 200 | 550 | 600 | 150 | 800 |
| Flange width b | min. / max. Size 1 mm | 55/102 | 55/102 | 74/127 | 90/143 | 106/156 | 106/156 | 106/156 | 131/195 | 143/222 | 170/212 |
| | min. / max. Size 2 mm | 105/152 | 105/152 | 127/180 | 149/203 | 160/210 | 160/210 | 167/247 | 196/271 | 223/298 | - |
| | min. / max. Size 3 mm | - | 156/203 | 190/243 | 203/254 | 210/260 | 210/260 | 248/349 | 272/363 | 299/389 | - |
| | min. / max. Size 4 mm | - | 207/254 | 254/305 | 251/305 | 255/305 | 255/305 | - | - | - | - |
| Hand chain force | daN | - | 10 | 16 | 20 | 20 | 25 | 16 | 19 | 23 | 25 |
| Hand chain operation length | m | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Min. curve radius | m | 1 | 1.5 | 1.6 | 2 | 2.9 | 2.9 | 3.5 | 3.5 | 3.5 | 3.5 |
| A (Dimensions) | mm | 45 | 60 | 80 | 100 | 125 | 125 | 160 | 160 | 160 | 200 |
| B | mm | 60 | 75 | 100 | 120 | 150 | 150 | 190 | 190 | 190 | 240 |
| C | mm | 15 | 18 | 22 | 25 | 30 | 30 | 35 | 35 | 35 | 50 |
| D | mm | 52 | 60 | 75 | 90 | 117 | 117 | 145 | 145 | 145 | 165 |
| E | mm | 15 | 20 | 27 | 35 | 40 | 40 | 45 | 45 | 45 | 42 |
| F | mm | 45 | 60 | 80 | 100 | 120 | 120 | 145 | 145 | 145 | 165 |
| G | mm | 30 | 30 | 35 | 40 | 60 | 60 | 80 | 80 | 80 | 100 |
| H | mm | 125 | 150 | 195 | 235 | 295 | 300 | 365 | 370 | 375 | 450 |
| L | mm | 150 | 190 | 255 | 300 | 375 | 375 | 450 | 450 | 450 | 550 |
| M | mm | - | 65 | 65 | 70 | 100 | 100 | 115 | 115 | 115 | 135 |
| N | mm | - | 90 | 90 | 95 | 130 | 130 | 135 | 135 | 135 | 170 |
| O | mm | - | 100 | 100 | 100 | 135 | 135 | 270 | 270 | 270 | 300 |
| W | Size 1 mm | 160 | 170 | 215 | 250 | 275 | 275 | b + 150 | b + 150 | b + 150 | b + 185 |
| | Size 2 mm | 210 | 220 | 265 | 310 | 330 | 330 | | | | |
| | Size 3 mm | - | 270 | 330 | 360 | 380 | 380 | | | | |
| | Size 4 mm | - | 325 | 390 | 410 | 425 | 425 | | | | |
| R | mm | 75 | 99 | 123 | 144 | 174 | 174 | 220 | 220 | 220 | 272 |
| S | Size 1 mm | 20 | 20 | 30 | 35 | 40 | 45 | 40 | 50 | 55 | 65 |
| | Size 2 mm | 20 | 25 | 35 | 40 | 45 | 50 | 45 | 55 | 60 | - |
| | Size 3 mm | - | 30 | 35 | 40 | 50 | 55 | 50 | 60 | 65 | - |
| | Size 4 mm | - | 30 | 40 | 45 | 50 | 55 | - | - | - | - |
| Net weight HD3N-H | kg | 3 | 5 | 11 | 18 | 33 | 35 | 85 | 90 | 95 | 150 |
| Net weight HD3N-G | kg | - | 6 | 12 | 19 | 35 | 36 | 90 | 95 | 100 | 160 |
| Version Basic/Medium HD3N-H | Order No. | G20120 | G20121 | G20122 | G20123 | G20124 | G20125 | G20126 | G20127 | G20128 | G20290 |
| Version High HD3N-H | Order No. | G20130 | G20131 | G20132 | G20133 | G20134 | G20135 | G20136 | G20137 | G20138 | G20291 |
| Version Basic/Medium HD3N-G with 2.5 m operation length | Order No. | - | G20141 | G20142 | G20143 | G20144 | G20145 | G20146 | G20147 | G20148 | G20292 |
| Version High HD3N-G with 2.5 m operation length | Order No. | - | G20151 | G20152 | G20153 | G20154 | G20155 | G20156 | G20157 | G20158 | G20293 |
| Add. hand chain operation length/m Standard zinc plated (2.5 m total) | Order No. | G20118 | G20118 | G20118 | G20118 | G20118 | G20118 | G20118 | G20118 | G20118 | G20118 |
| Add. hand chain operation length/m V2A (EX) rustfree (2.5 m total) | Order No. | G20119 | G20119 | G20119 | G20119 | G20119 | G20119 | G20119 | G20119 | G20119 | G20119 |
| Larger flange width size 2-4 | Order No. | G20160 | G20161 | G20162 | G20163 | G20164 | G20165 | - | - | - | - |
| Flame zinc plating | Order No. | G20170 | G20171 | G20172 | G20173 | G20174 | G20175 | G20179 | G20177 | G20178 | G20295 |

Mini-Hoist TCRM/TCS

If you are looking for an excellent technical, flexible and compact air hoist that works under many different situations, now here it is. The new model range TC. This series comprises the new 125 to 990 kg pneumatic chain hoists. The TC is one of the most compact and transportable air chain hoist you can get. The headroom of the TC hoist is only 305 mm (125/250 kg). Although the weight is only 7 kg with inclusive 3 m length of load chain, the air hoist can lift up to 17 meters per minute without any problem. The new TC is available with rope or pendant control including emergency stop. The keys allow optimal control over variable speeds. Use up to **Zone IIA 3 GD c T4/T5/T6**.



Light
Very light weighted aluminium housing



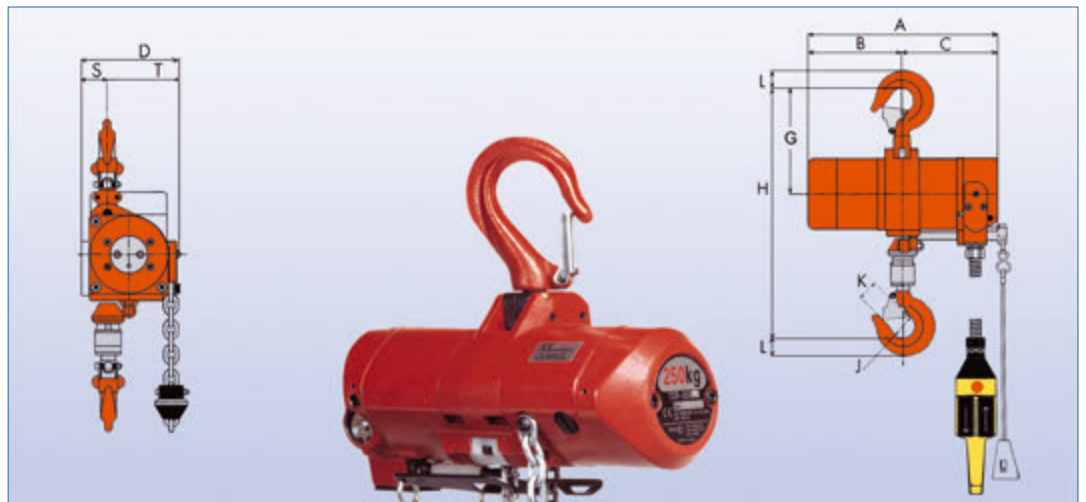
Fast
Lifting speed from 4.5 17 m/min with full load



TCRM 250C
(Rope control)



Chain bag for TCRM



| TYPE | TCR... | M125 C/DP | M250 C/DP | M500 C2/DP2 | TCS-500 | TCS-980* |
|--|-----------|---------------|---------------|---------------|---------------|---------------|
| Capacity | kg | 125 | 250 | 500 | 500 | 990 |
| Number of chain falls | | 1 | 1 | 2 | 1 | 2 |
| Air pressure | bar | 6 | 6 | 6 | 6 | 6 |
| Lifting speed with full load | m/min | 14 | 9.3 | 4.5 | 17 | 8.5 |
| Lifting speed without load | m/min | 19 | 19 | 9.5 | 33 | 16.5 |
| Air consumption | l/s | 11.7 | 11.7 | 11.7 | 33 | 33 |
| Chain dimensions | mm | 4 x 12 | 4 x 12 | 4 x 12 | 6.3 x 19 | 6.3 x 19 |
| Control length | m | 2 | 2 | 2 | 2 | 2 |
| Min. Headroom (H) | mm | 305 | 305 | 365 | 414 | 456 |
| A (Dimensions) | mm | 230 | 230 | 230 | 365 | 365 |
| B | mm | 110 | 110 | 110 | 204 | 204 |
| C | mm | 120 | 120 | 120 | 161 | 161 |
| D | mm | 95 | 95 | 95 | 143 | 173 |
| G | mm | 130 | 130 | 130 | 151 | 173 |
| K | mm | 29 | 29 | 29 | 25 | 29 |
| L | mm | 15 | 15 | 15 | 15 | 29.5 |
| S | mm | 35 | 35 | 35 | 31 | 37 |
| T | mm | 60 | 60 | 60 | 112 | 136 |
| Weight with standard lift | kg | 7 | 7 | 8.5 | 15.9 | 16.8 |
| Weight for 1 m additional lift | kg | 0.35 | 0.35 | 0.7 | 0.9 | 1.8 |
| TCR/TCS... with 3 m lift and rope control | Order No. | H10070 | H10071 | H10072 | H10088 | H10108 |
| TCR/TCS... with 3 m lift and pendant control | Order No. | H10073 | H10074 | H10075 | H10098 | H10118 |
| Additional lift per meter | Order No. | H10076 | H10076 | H10077 | H10069 | H10128 |

* Equipped with chain case up to 4 m lifting height.



TCR 1000C2
with cable control
(Chain control)

Air chain hoist LIFTMASTER TCR

The areas of application

A hoist can not just be selected for its load bearing capacity. Easy operation, the type of task, the frequency of use, the required speed and precision of the control are important factors that must be considered. The LIFTMASTER compressed air hoist can basically be used wherever electric hoists are used. Furthermore, it is particularly suitable for explosive areas and corrosive atmospheres, as its motor is innately non-sparking and extremely resistant to environmental influences. Expensive protective measures are therefore not required.

Fault-free operation

Overloads cannot damage the LIFTMASTER, as there is no overheating and torsion that burns through. To protect the bearing structures and to conform with the CE Machinery Directive, as of a load bearing capacity of 1 t, adjustable overload cut-off devices are provided, which are also available as an option for smaller devices. Whether it's being stopped and started or operated continuously: you can expect reliable performance.

Compact and light

Small dimensions and a light structure make the LIFTMASTER ideal for low installation conditions.

Variable speed

Unlimited speed changes make it possible to position loads accurately and precisely. The knotted link control can be controlled very precisely thanks to its direct connection to the control rod.

Soft start and stop

The LIFTMASTER provides high operational safety. A soft start-up reduces wear, as gentle operation of the compressed air hoists leads to fewer vibrations and a longer device service life.

Best cost effectiveness

Thanks to the low air consumption and the low procurement cost, the LIFTMASTER is very cost-effective.

The flexibility

For loads of up to 120 kg that have to be moved frequently and precisely, the EHW compressed air hoist with a cable and a control on the device is the solution!

Standard

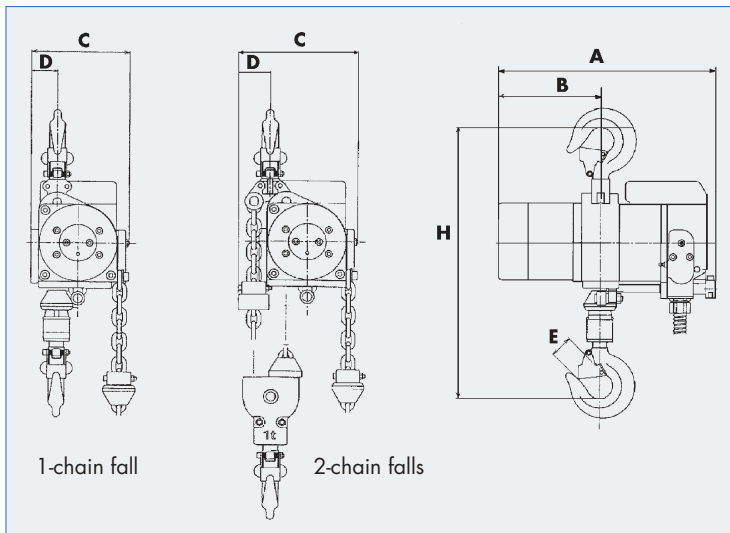
3 m lifting height, 2 m control length, up to **EX-Zone IIA 3 GD c T4/T5/T6**. Also see the "EX-protection information" part. Higher EX-protection upon request!

Air pressure

The LIFTMASTER achieves its specified performance data at 6 bar flow pressure. 4 or 5 bar is also sufficient, whereby only 70 or 85 % of the speeds are reached. The rated load is always lifted. The very comprehensive range of TCR compressed air hoists from 0.25 to 100 tonnes has a very convenient ratio of size to performance. The speeds of the hoists can be varied infinitely and they are designed for continuous use, a switch-on duration of 100 % is no problem. Smooth starts and stops prevent "shock" movements. The TCR compressed air hoists are particularly suitable for continuous and safe use thanks to their compact cast steel housing.

Equipment features:

- Drop-forged, high-strength **hook** made of tempered steel
- Stable, galvanised **hook aperture safeguards**
- Effective **noise suppressor**
- Precise **chain guide** with chain wiper
- Reliably starting **multi-disc motor** with 7 discs
- Control valve for precise speed control
- Robust **cast metal housing**
- Drive chain sprocket with accurately fitting, **milled** recesses
- Limit switches for top and bottom hook position, and rocker switch for knotted link chain control
- **Flexible** control hoses
- Round steel chain in accordance with DIN EN 818-7-T, with **rust protection coating**
- Three-stage **planetary gear**
- Automatic **disc brake**
- **EMERGENCY STOP button**, also for 4-fold button control with trolley, in accordance with EN 418.
- Rotatable hook bundle in axial ball bearing



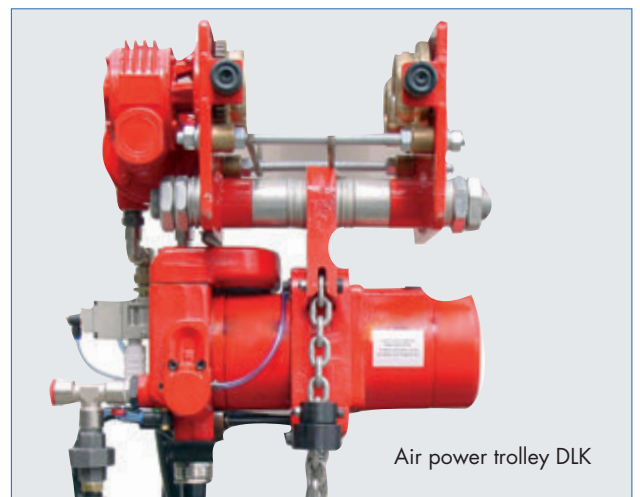
| TYP | TCR ... | A | B | C | D | E | H |
|----------------|---------|-----|-----|-----|-----|-----|-------|
| TCR 250 C/P | | 342 | 156 | 149 | 52 | 29 | 462 |
| TCR 500 C/P | | 342 | 156 | 149 | 52 | 29 | 462 |
| TCR 1000 C2/P2 | | 342 | 156 | 180 | 47 | 29 | 519 |
| TCR 1000 C/P | | 342 | 156 | 157 | 40 | 29 | 466 |
| TCR 2000 C2/P2 | | 342 | 156 | 194 | 50 | 29 | 580 |
| TCR 20 C4/P4 | | 549 | 247 | 230 | 200 | 100 | 1,350 |

| TYPE | LIFTMASTER TCR ... | 250C/P | 500C/P | 1000C2/P | 1000C/P | 2000C2/P | 20-C4/P4 |
|--|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity (Air pressure 6 bar - 1Bm) | kg | 250 | 500 | 1,000 | 1,000 | 2,000 | 20,000 |
| Lifting speed without load | m/min | 20.5 | 20.5 | 10.3 | 11.3 | 5.7 | 1.2 |
| Lifting speed with full load | m/min | 10.5 | 10.5 | 5.3 | 6 | 3 | 0.8 |
| Lowering speed without load | m/min | 13.4 | 13.4 | 6.7 | 6.8 | 3.4 | 0.9 |
| Lowering speed with full load | m/min | 17.9 | 17.9 | 9 | 10.3 | 5.2 | 1.2 |
| Air consumption with full load | l/sec | 25 | 25 | 25 | 25 | 25 | 90 |
| Number of chain falls | | 1 | 1 | 2 | 1 | 2 | 4 |
| Air inlet R | inch | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" | 1" |
| Chain size (diameter) | mm | 6.3 x 19.1 | 6.3 x 19.1 | 6.3 x 19.1 | 7.1 x 21 | 7.1 x 21 | 16 x 45 |
| Weight with standard lift | kg | 31 | 31 | 34 | 35 | 40 | 470 |
| TCR... with 3 m Lift with rope control | Order No. | H10001 | H10002 | H10003 | H10004 | H10005 | H10011 |
| TCR... with 3 m Lift with pendant control | Order No. | H10015 | H10016 | H10017 | H10018 | H10019 | H10025 |
| Add. lift per meter | Order No. | H10029 | H10029 | H10030 | H10031 | H10032 | H10038 |
| Maintenance unit | Order No. | H10054 | H10054 | H10054 | H10054 | H10054 | H10056 |
| Chain bag (plastic) to 3 m lift | Order No. | H10340 | H10341 | H10342 | H10343 | H10344 | - |
| Add. air powered trolley DLK | Order No. | H10044 | H10052 | H10053 | H10099 | H10045 | H10050 |
| Add. control length rope control / m | Order No. | H10042 | H10042 | H10042 | H10042 | H10042 | H10042 |
| Add. control length pendant control / m | Order No. | H10043 | H10043 | H10043 | H10043 | H10043 | H10043 |
| Pneumatic-Special-Oil (Content: 2.5 Liter) | Order No. | H20566 | H20566 | H20566 | H20566 | H20566 | H20566 |

Chain bag up 10 t (steel plate) on request.

Air power trolley DLK

Trolleys upon request!



LIFTMASTER TMH air chain hoist

The LIFTMASTER TMH compressed air chain hoist has the highest lifting speeds with the smallest installation height on the hoist market. With an M4 "Class of Mechanism", this new hoist has a long service life, which guarantees continuity in your work. The TMH hoists have been designed with a fastening eye on the housing for easy installation and to affix the hoist for additional safety (while working).

Equipment features:

- Very accurate speed control (cable and pushbutton operation)
- Optimum checks and exact positioning of the load
- Closing valve for the main air passage
- Mechanical limit stop shut-off
- Integrated load limiter without losing the construction height
- Operational air pressure (4 – 6.3 bar)
- Exhaust air through the hose



TMH 3000



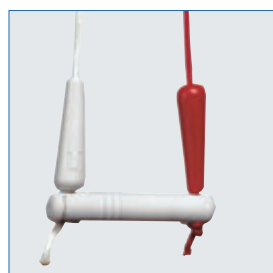
TMH 6000



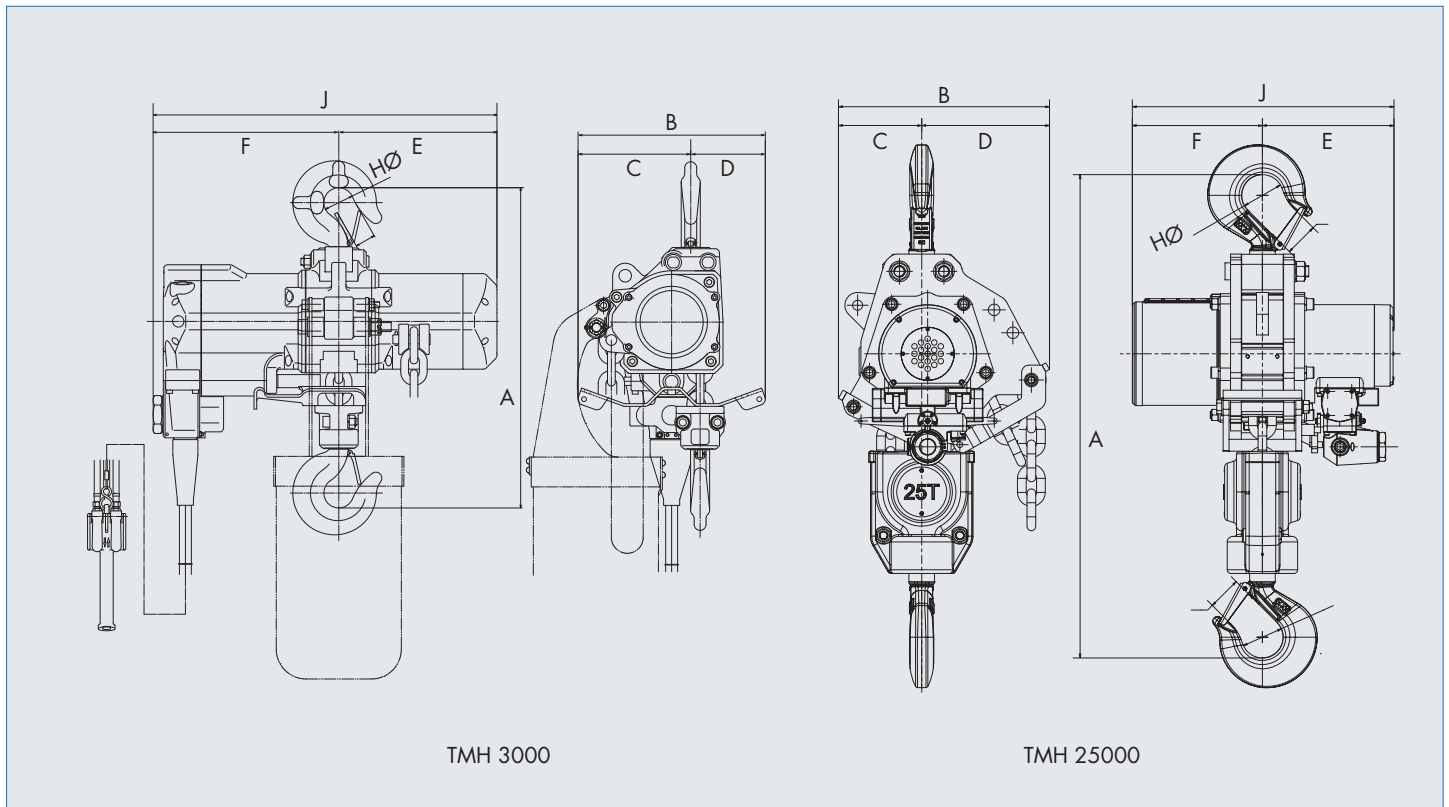
TMH 25000



Manual push-button control



Rope control



| TYPE | LIFTMASTER TMH ... | 3000 | 6000 | 9000 | 12000 | 15000 | 25000 |
|--|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity (Air pressure 6 bar - 1Bm) | kgf | 3,000 | 6,000 | 9,000 | 12,000 | 15,000 | 25,000 |
| Lifting speed without load | m/min | 10.8 | 5.4 | 3.6 | 2.7 | 2.16 | 2.7 |
| Lifting speed with full load | m/min | 5.4 | 2.7 | 1.8 | 1.35 | 1.08 | 1.4 |
| Lowering speed with full load | m/min | 10.2 | 5.1 | 5.1 | 2.5 | 2.04 | 3 |
| Air consumption with full load | l/sec | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 108 |
| Number of chain falls | | 1 | 2 | 3 | 4 | 5 | 2 |
| Air inlet R | Zoll | ¾" BSPT | ¾" BSPT | ¾" BSPT | ¾" BSPT | ¾" BSPT | 1½" BSPT |
| Chain size | mm | 13 x 36 | 13 x 36 | 13 x 36 | 13 x 36 | 13 x 36 | 23.5 x 66 |
| A (Dimensions) | mm | 537 | 742 | 800 | 856 | 855 | 1,290 |
| B | mm | 314 | 371 | 455 | 398 | 466 | 566 |
| C | mm | 189 | 245 | 295 | 249 | 313 | 223 |
| D | mm | 125 | 126 | 160 | 149 | 152 | 343 |
| E | mm | 265 | 265 | 310 | 266 | 275 | 356 |
| F | mm | 311 | 311 | 265 | 309 | 300 | 352 |
| H | ø mm | 50 | 65 | 53 | 83 | 84 | 100 |
| I | mm | 34 | 42 | 53 | 64 | 58 | 71 |
| J | mm | 576 | 576 | 576 | 575 | 575 | 708 |
| Weight with standard lift | kg | 99 | 124 | 170 | 190 | 280 | 581 |
| TMH... with 3 m Lift with rope control | Order No. | H10360 | H10362 | H10369 | H10371 | H10373 | H10366 |
| TMH... with 3 m Lift with pendant control | Order No. | H10361 | H10363 | H10370 | H10372 | H10374 | H10367 |
| Add. lift per meter | Order No. | H10364 | H10365 | H10377 | H10378 | H10379 | H10368 |
| Maintenance unit | Order No. | H10054 | H10054 | H10056 | H10056 | H10056 | H10090 |
| Chain bag (galvanised steel) to 3 m lift) | Order No. | H10345 | H10345 | H10345 | H10345 | H10345 | - |
| Add. air powered trolley DLK | Order No. | H10046 | H10047 | H10047 | H10047 | H10047 | H10051 |
| Add. control length rope control / m | Order No. | H10042 | H10042 | H10042 | H10042 | H10042 | H10042 |
| Add. control length pendant control / m | Order No. | H10043 | H10043 | H10043 | H10043 | H10043 | H10043 |
| Pneumatic-Special-Oil (Content: 2.5 Liter) | Order No. | H20566 | H20566 | H20566 | H20566 | H20566 | H20566 |

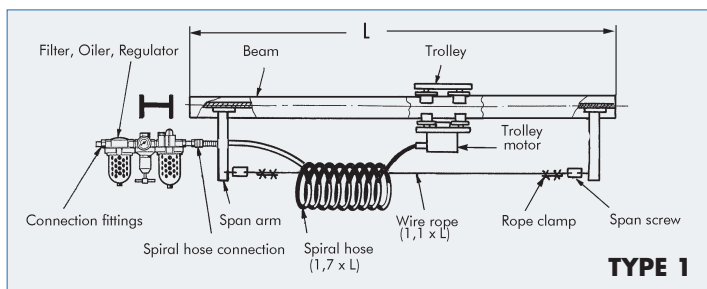
Other capacities on request!

TYPE 1: Spiral hose

Beam length up to 10 m are best to serve with a spiral hose for air supply. A rope is spanned parallel to the beam between two holding arms. The spiral hose winds around it. The plastic hose acts like a spiral spring, gets longer or shorter with the moving trolley.

Complete set for 3 meter beam drive:

Spiral hose with reserve (1.7 x L), twistable connections with male thread, 2 span arms, wire rope with reserve, 4 rope clamps and 2 span screws. The maintenance unit (filter, lubricator, regulator) should be fixed as near as possible to the trolley. Short beams may have it at the beginning of the beam.



TYPE 1

TYPE 2: Drag hose

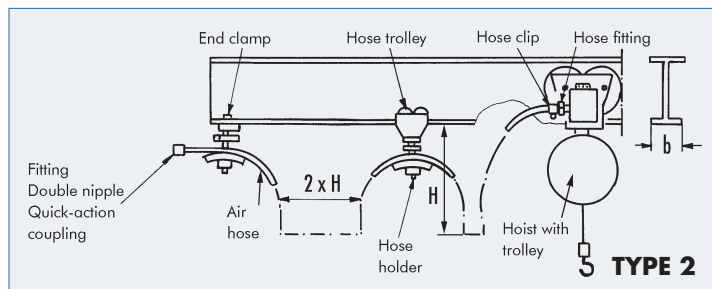
Pulling the air hose behind the trolley is the easiest way to bring air to the hoist. Small plastic trolleys carry the hose in certain distance behind the trolley. The hose hangs normally one meter down. So one hose carrier is needed each two meters. The hose is transparent with a strengthening textile inlet. It stands a pressure up to 15 bar. Water and oil cannot harm it. Since the trolleys are pushed together when the train comes into end position, the beam must be a little bit longer.

Complete set

The beside mentioned order number includes all accessory for a beam length of 3 m. In details: air hose plus 3 meter addition for leading down to the ground where a ball valve cuts air supply off. Plastic trolleys, end clamp, nipples end other fittings. If the hose shall be detachable, a quick-acting coupling shall be ordered.

ATTENTION:

Driving through curves need special equipment. Please inquire!



TYPE 2

TYPE 3: C-track

A C-track is the most comfortable air supply. The total beam length can be used for driving. This TYPE is mostly used with slewing cranes because the complete length of swing arm is necessary to

drive on. Here the holding arm of C-rack can be fixed easily what is difficult in opposite under the ceiling in case of a double T-beam. C-tracks are available in lengths of 6 m. They are added with combiners to longer rails.

Complete set

The beside mentioned order number includes all accessory for a beam length of 3 m. In details: air hose plus 3 meter addition for leading down to the ground, where a ball valve cuts air supply off. Three holding arms, connection clamps, screws, C-rail holder, C-rails in 2 m length, C-rail connectors, first trolley leading arm, hose clamps, fittings.

All metal parts are zinc plated.

Remind when ordering that hoses have the correct diameter.

Choose one size bigger in case that hoses are longer than 10 m.

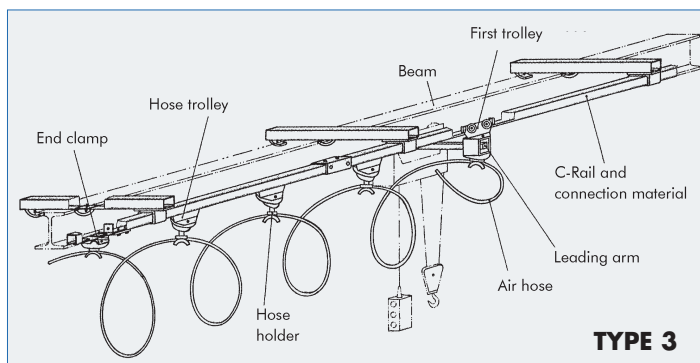
The longer the hose, the deeper the pressure drops.

Hoists need minimum 5 bar FLOWING pressure during operation.

Each quick-acting coupling, every pipe bow, all valves etc.

reduce flow pressure. Even when static pressure is 6 bar before operation, the flow pressure is a result of air friction in hoses and fittings and other users of the same ring pipe line. Keep an eye

on your pressure gauge! A bad performance of air hoist is for 99% a result of wrong air supply and too low flow pressure.



TYPE 3



Ball valve

Quick-action coupling

| TYPE | | 1 | 2 | 3 |
|--------------------------------|------------------|---------------|---------------|---------------|
| Standard driving length | m | 3 | 3 | 3 |
| Complete 1/2 inch | Order No. | H10180 | H10181 | H10182 |
| 1 m more rail length 1/2 inch | Order No. | H10183 | H10184 | H10185 |
| Complete 3/4 inch | Order No. | H10186 | H10187 | H10188 |
| 1 m more rail length 3/4 inch | Order No. | H10189 | H10190 | H10191 |
| Complete 1 inch | Order No. | - | H10193 | H10194 |
| 1 m more rail length 1 inch | Order No. | - | H10196 | H10197 |
| Special equipment: | | | | |
| Quick-action coupling 1/2 inch | Order No. | - | H10199 | H10200 |
| Quick-action coupling 3/4 inch | Order No. | - | H10202 | H10203 |
| Quick-action coupling 1 inch | Order No. | - | H10205 | H10206 |
| Air hose 1/2 inch - 6 bar | Order No. | - | H10208 | H10209 |
| Air hose 3/4 inch - 6 bar | Order No. | - | H10211 | H10212 |
| Air hose 1 inch - 6 bar | Order No. | - | H10214 | H10215 |
| Air hose 1 1/4 inch - 6 bar | Order No. | - | H10217 | H10218 |
| Air hose 1 1/2 inch - 6 bar | Order No. | - | H10220 | H10221 |

Electric chain hoist PEH-EX

Equipment:

- Lifting capacity PEH: up to 2,500 kg
- 3 x 400 V / 50 Hz
- 42 V low voltage control
- 3 phase motor: 2 speeds
- Control cable length 1.8 m
- Geared limit switches
- Ergonomic control switch with emergency-stop
- Protection class IP65
- Temperature monitoring by thermocouple (Klixon)
Lift movement is monitored

Classification

Ex II 3D Ex tc IIIA T130°C Dc

Accessories and options:

- Control switch in ATEX version
2 buttons or 4 buttons with emergency stop
- Other operating / control voltages on request
- Hook suspension / Safety load hook, self-closing
- Geared limit switches with high accuracy in positioning of the highest and lowest hook position
- Operating data counter
- 2nd brake
- External limit switch
- Compact design
- Manual trolleys
- Frequency control
- Corrosion-resistant design



| TYPE | Capacities in kg acc. ISO (FEM)* | | | | | Lifting speed with load m/min. 50 Hz | Number of chain falls | Chain size mm | Motor power kW | 3 x 400 V 50 Hz A | Weight with 3 m lift kg | Weight each meter add. lift kg | Order No. PEH with 3 m lift | Order No. Add lift per m |
|-----------------|----------------------------------|----------|---------|---------|---------|--------------------------------------|-----------------------|---------------|----------------|-------------------|-------------------------|--------------------------------|-----------------------------|--------------------------|
| | M3 (1Bm) | M4 (1Am) | M5 (2m) | M6 (3m) | M7 (4m) | | | | | | | | | |
| PEHM 250/1NF EX | - | 320 | 250 | 200 | - | 8/2 | 1 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 24 | 0.34 | H21520 | H21521 |
| PEHM 250/1SF EX | - | - | 125 | 100 | - | 16/4 | 1 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 24 | 0.34 | H21522 | H21521 |
| PEH 250/1NF EX | 400 | 320 | 250 | 200 | 160 | 8/2 | 1 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 24 | 0.34 | H21524 | H21521 |
| PEH 250/1SF EX | - | 160 | 125 | 100 | - | 16/4 | 1 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 24 | 0.34 | H21526 | H21521 |
| PEH 250/1N EX | 400 | 320 | 250 | 200 | 160 | 8 | 1 | 3.75 x 10.75 | 0.72 | 2.8/1.7 | 24 | 0.34 | H21528 | H21521 |
| PEH 250/2NF EX | - | 630 | 500 | 400 | 320 | 4/1 | 2 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 25 | 0.34 | H21534 | H21535 |
| PEH 250/2N EX | - | 630 | 500 | 400 | 320 | 4 | 2 | 3.75 x 10.75 | 0.72 | 2.8 | 25 | 0.34 | H21536 | H21535 |
| PEH 500/1NF EX | 800 | 630 | 500 | 400 | 320 | 8/2 | 1 | 5.25 x 15 | 0.72/0.18 | 2.8/1.7 | 26 | 0.69 | H21542 | H21543 |
| PEH 500/1SF EX | - | 320 | 250 | 200 | 160 | 16/4 | 1 | 5.25 x 15 | 0.72/0.18 | 2.8/1.7 | 26 | 0.69 | H21544 | H21543 |
| PEH 500/1N EX | 800 | 630 | 500 | 400 | 320 | 8 | 1 | 5.25 x 15 | 0.72 | 2.8 | 26 | 0.69 | H21546 | H21543 |
| PEH 500/2NF EX | - | 1,250 | 1,000 | 800 | 630 | 4/1 | 2 | 5.25 x 15 | 0.72/0.18 | 2.8/1.7 | 28 | 0.69 | H21552 | H21553 |
| PEH 500/2N EX | - | 1,250 | 1,000 | 800 | 630 | 4 | 2 | 5.25 x 15 | 0.72 | 2.8 | 28 | 0.69 | H21554 | H21553 |
| PEH 1000/1NF EX | 1,600 | 1,250 | 1,000 | 800 | 630 | 8/2 | 1 | 7.45 x 23 | 2.3/0.68 | 5.7/4.1 | 58 | 1.37 | H21600 | H21609 |
| PEH 1000/1SF EX | - | 630 | 500 | 400 | 320 | 16/4 | 1 | 7.45 x 23 | 2.3/0.68 | 5.7/4.1 | 58 | 1.37 | H21601 | H21609 |
| PEH 1000/1N EX | 1,600 | 1,250 | 1,000 | 800 | 630 | 8 | 1 | 7.45 x 23 | 2.3 | 6.5 | 57 | 1.37 | H21602 | H21609 |
| PEH 1000/NL EX | 1,600 | 1,250 | 1,000 | 800 | 630 | 4 | 1 | 7.45 x 23 | 1.5 | 6.5 | 62 | 1.37 | H21603 | H21609 |
| PEH 1000/2NF EX | - | 2,500 | 2,000 | 1,600 | 1,250 | 4/1 | 2 | 7.45 x 23 | 2.3/0.68 | 5.7/4.1 | 62 | 1.37 | H21604 | H21610 |
| PEH 1000/2N EX | - | 2,500 | 2,000 | 1,600 | 1,250 | 4 | 2 | 7.45 x 23 | 2.3 | 6.5 | 61 | 1.37 | H21605 | H21610 |
| PEH 1000/2NL EX | - | 2,500 | 2,000 | 1,600 | 1,250 | 2 | 2 | 7.45 x 23 | 1.5 | 6.5 | 66 | 1.37 | H21606 | H21610 |

* FEM classification:

Quantity of starts at pendant control per hour

M3 (1Bm) = 150 starts per hour, 25% duty cycle

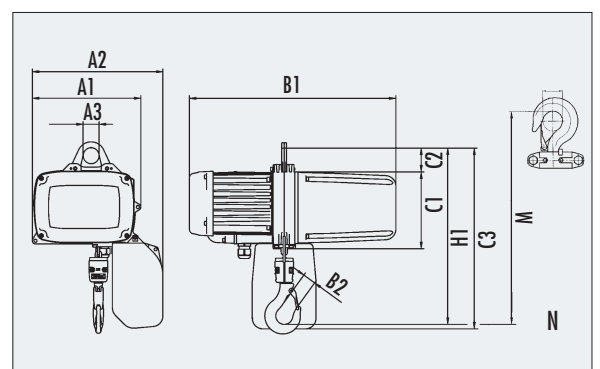
M4 (1Am) = 180 starts per hour, 30% duty cycle

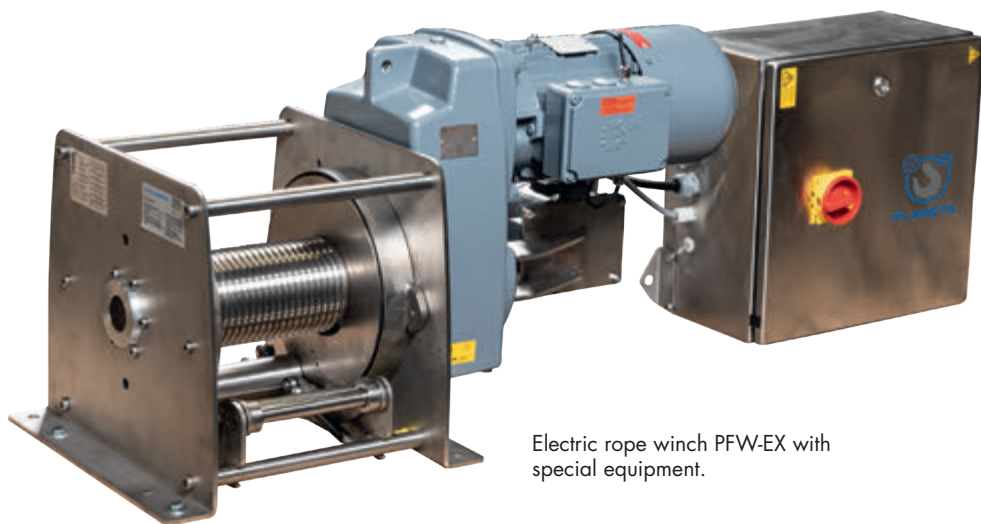
M5 (2m) = 240 starts per hour, 40% duty cycle

M6 (3m) = 300 starts per hour, 50% duty cycle

M7 (4m) = 360 starts per hour, 60% duty cycle

| TYPE PEH... | | 250/1 | 250/2 | 500/1 | 500/2 | 1000/1 | 1000/2 |
|-----------------|----|-------|-------|-------|-------|--------|--------|
| A1 (Dimensions) | mm | 246 | 246 | 246 | 246 | 328 | 328 |
| A2 | mm | 296 | 296 | 296 | 296 | 385 | 385 |
| A3 | mm | ∅ 40 | ∅ 40 | ∅ 40 | ∅ 40 | ∅ 52 | ∅ 52 |
| B1 | mm | 444 | 444 | 444 | 444 | 548 | 548 |
| B2 | mm | 24 | 24 | 24 | 24 | 33 | 33 |
| C1 | mm | 162 | 162 | 162 | 162 | 212 | 212 |
| C2 | mm | 49 | 49 | 49 | 49 | 85 | 85 |
| C3 | mm | 462 | 462 | 462 | 462 | 598 | 598 |
| H1 | mm | 400 | 414 | 414 | 453 | 519 | 578 |
| M | mm | 475 | 506 | 488 | 528 | 592 | 651 |
| N | mm | ∅ 42 | ∅ 42 | ∅ 42 | ∅ 42 | ∅ 51 | ∅ 51 |

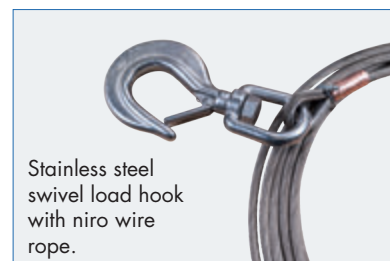




Electric rope winch PFW-EX with special equipment.



EX-proof wall-mounted switch



Stainless steel swivel load hook with wire rope.

Electric rope winch PFW-EX

With a load bearing capacity from 250 to 3000 kg this electrical rope winch with its modular construction principle is one of the most modern devices for pulling, lifting and moving loads. With its extensive range of configuration and finishing options it can be adapted to suit almost any installation situation. The PFW-EX version is built according to the CE directive 2006/42/EC and European ATEX-guidelines 2014/34/EU. With its special equipment and configuration these winches may be used in areas at risk of explosion.

Made in Germany

The PFW range combines a modern design, innovative technology and superlative components, which are produced exclusively in Germany. Prior to shipping, each winch is tested dynamically with 125% of the nominal load and leaves our factory with a 24 month guarantee.

Equipment

- Electrical control in pressure-resistant casing EX II 2 GD de IIB T4 T 135°C
- Standard Protection Classification IP55 with isolation F
- Standard ambient temperature from -10 °C to +40 °C
- Standard mechanism group acc. FEM 1,001: M3 (1Bm)
- Standard supply voltage of 3 PH / 400 Volt / 50 Hz Preisvorteil

- Contactor control available for areas at risk of explosion or standard version for installation in safe areas to combine safe equipment with price advantages
- Pendant remote control and radio remote control available for areas at risk of explosion

Available options

- Grooved drum with drum length on customer demand for higher rope storage and better spooling
- Different voltage and frequency
- Adjustable speed with frequency converter
- Free spooling clutch
- Special paintings and higher protection class of electrical equipment for outdoor and offshore applications
- Drum pressure roller
- Multi rope strands or drum divider
- Drum cover
- Limit switches according to ATEX guidelines
- Overload protection
- Special ropes with bronze coated hooks or solid steel version

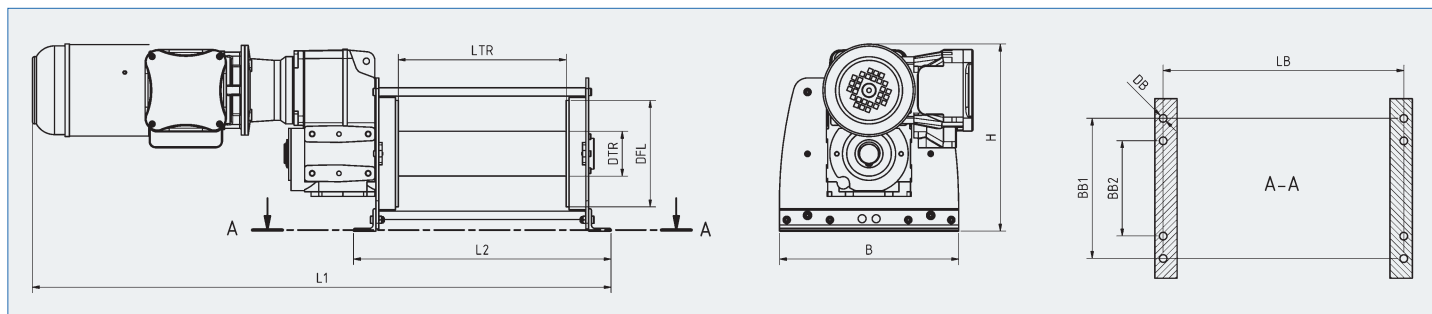
Classification

 II 2 GD de IIB T4 T 135 °C

Basic design

| TYPE | PFW-1D-EX | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
|--|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Lifting capacity in 1st rope layer | kg | 250 | 500 | 750 | 1,000 | 1,500 | 2,000 | 3,000 |
| Lifting capacity in 5th rope layer | kg | 160 | 320 | 480 | 640 | 950 | 1,270 | 1,920 |
| Rope diameter | mm | 5 | 6 | 7 | 8 | 10 | 12 | 14 |
| Rope length in 1st rope layer | m | 11 | 11 | 11 | 10 | 10 | 9 | 9 |
| Rope length in 5th rope layer | m | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Expansion every 100 mm extended drum 1st/5th layer | approx. m | 4/25 | 4/25 | 4/25 | 4/25 | 4/25 | 4/25 | 4/25 |
| Rope speed in 1st rope layer | approx. m/min | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Rope speed in 5th rope layer | approx. m/min | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Motor power | kW | 0.37 | 0.75 | 1.1 | 1.5 | 2.1 | 2.6 | 4 |
| PFW-1D-EX with standard speed | Order No. | H62401 | H62411 | H62421 | H62431 | H62441 | H62451 | H62461 |

Dimensions und weights – PFW-1D-EX



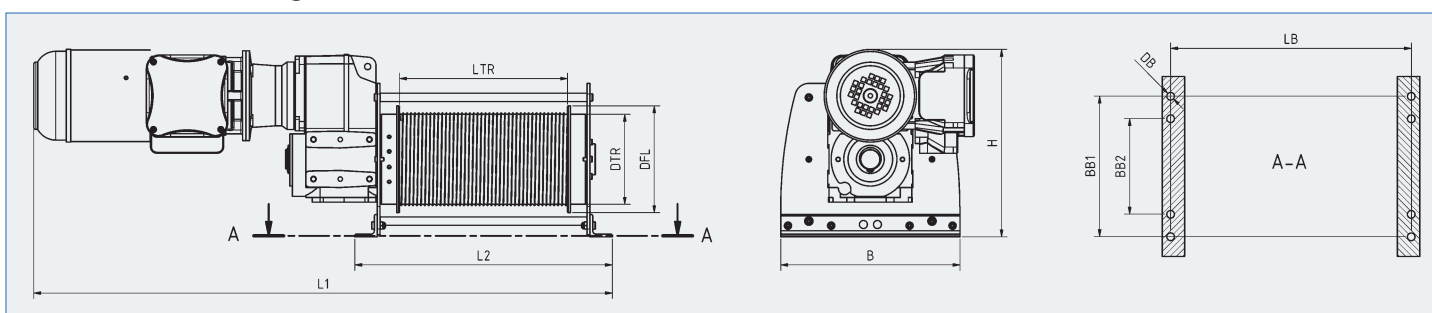
| TYPE | PFW-1D-EX | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
|----------------------------|------------|-------|-------|-------|-------|-------|-------|-------|
| L1 * | approx. mm | 1,000 | 1,050 | 1,070 | 1,160 | 1,180 | 1,300 | 1,350 |
| L2 | mm | 460 | 460 | 460 | 500 | 500 | 570 | 570 |
| B | mm | 270 | 320 | 360 | 400 | 460 | 550 | 620 |
| H | approx. mm | 310 | 340 | 420 | 460 | 550 | 630 | 690 |
| LTR | mm | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| DTR | mm | 65 | 80 | 92 | 105 | 130 | 155 | 185 |
| DFL | mm | 155 | 190 | 220 | 250 | 310 | 370 | 430 |
| LB | mm | 430 | 430 | 430 | 460 | 460 | 520 | 520 |
| BB1 | mm | 220 | 250 | 310 | 350 | 410 | 500 | 560 |
| BB2 | mm | – | – | – | 220 | 280 | 320 | 380 |
| DB | mm | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 17.5 | 17.5 |
| Weight without accessories | approx. kg | 35 | 60 | 75 | 110 | 155 | 240 | 380 |

* Length can vary according to configuration.

Double diameter drum

| TYPE | PFW-2D-EX | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
|--|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Lifting capacity in 1st rope layer | kg | 125 | 250 | 375 | 500 | 750 | 1,000 | 1,500 |
| Rope diameter | mm | 5 | 6 | 7 | 8 | 10 | 12 | 14 |
| Rope length in 1st rope layer | m | 20 | 20 | 20 | 20 | 19 | 18 | 17 |
| Expansion every 100 mm extended drum 1st layer | approx. m | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Rope speed in 1st rope layer | approx. m/min | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Motor power | kW | 0.37 | 0.75 | 1.1 | 1.5 | 2.1 | 2.6 | 4 |
| PFW-2D-EX with standard speed | Order No. | H62501 | H62511 | H62521 | H62531 | H62541 | H62551 | H62561 |

Dimensions und weights – PFW-2D-EX



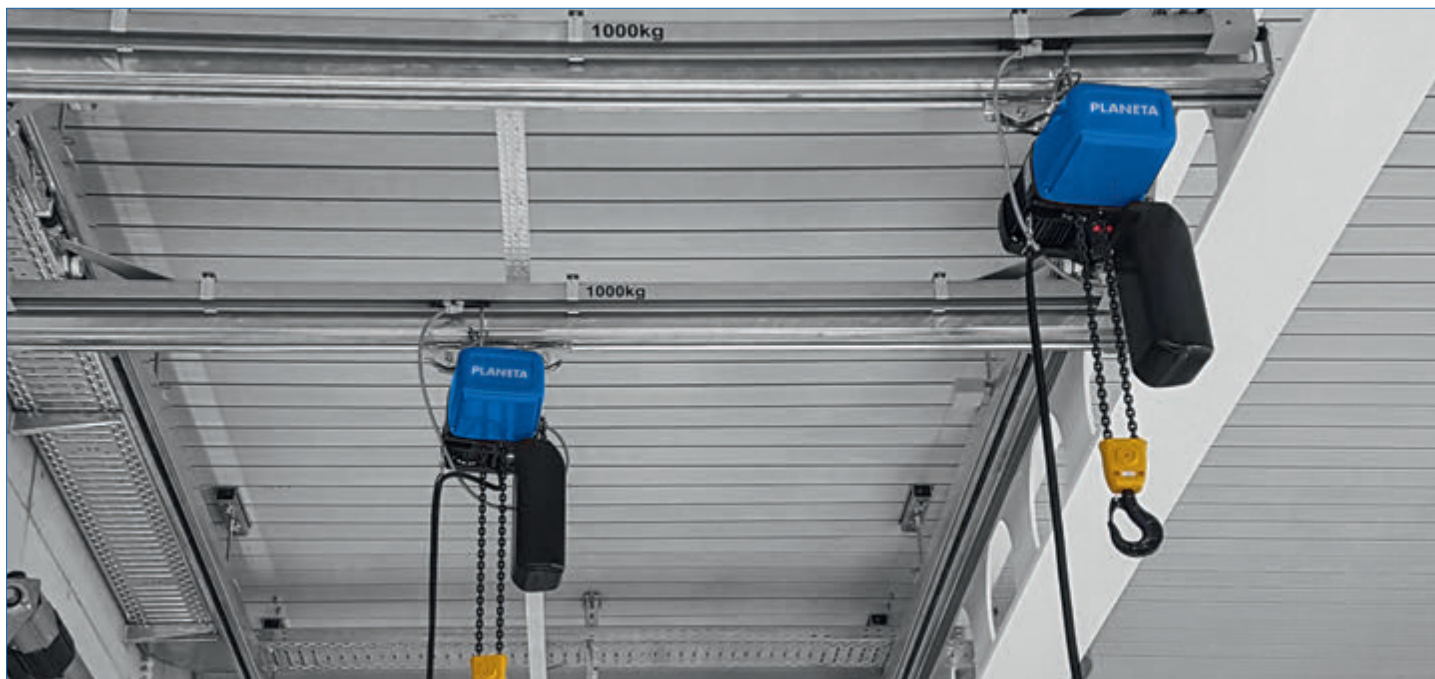
| TYPE | PFW-2D-EX | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
|----------------------------|------------|-------|-------|-------|-------|-------|-------|-------|
| L1 * | approx. mm | 1,000 | 1,050 | 1,070 | 1,160 | 1,180 | 1,300 | 1,350 |
| L2 | mm | 460 | 460 | 460 | 500 | 500 | 570 | 570 |
| B | mm | 270 | 320 | 360 | 400 | 460 | 550 | 620 |
| H | approx. mm | 300 | 340 | 420 | 460 | 550 | 630 | 660 |
| LTR | mm | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| DTR | mm | 130 | 160 | 185 | 210 | 260 | 310 | 350 |
| DFL | mm | 155 | 190 | 220 | 250 | 310 | 370 | 430 |
| LB | mm | 430 | 430 | 430 | 460 | 460 | 520 | 520 |
| BB1 | mm | 220 | 250 | 310 | 350 | 410 | 500 | 560 |
| BB2 | mm | – | – | 200 | 220 | 280 | 320 | 380 |
| DB | mm | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 17.5 | 17.5 |
| Weight without accessories | approx. kg | 40 | 65 | 85 | 120 | 170 | 280 | 425 |

* Length can vary according to configuration.



ELECTRIC CHAIN HOISTS



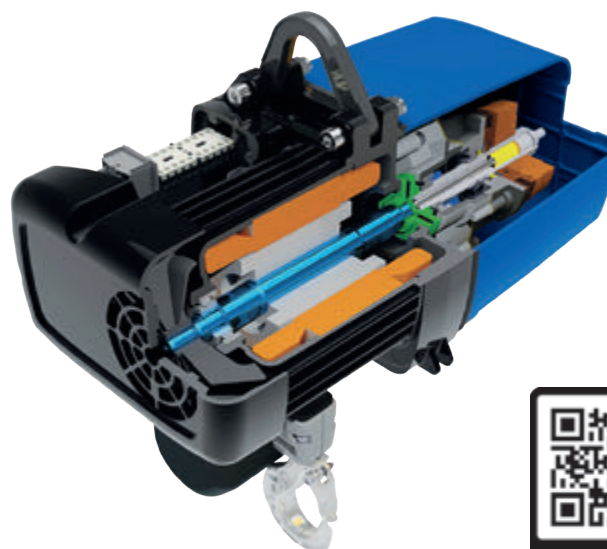


THE ENDURANCE RUNNER – Electric chain hoist PEH Capacities up to 6,300 kg

The PEH has a modular design and is equipped with a robust contactor control.

Robust design due to the use of die-cast aluminium for the housing and cover.

It is distinguished by its smooth running and is designed for a long and is designed for a long service life in tough applications.



YOUR BENEFITS:

Light and powerful.

The newest generation of PLANETA electrical chain hoists. Simple and easy to use – reliable and safe to operate – durable and maintenance-friendly.

Reliable and long-lasting

- No sensitive electronics used
- Aluminium casing and cover
- Minimum 1600 operating hours with 40% duty cycle, 240 s/h (FEM: 2 m, ISO M5)
- Dry-running slipping clutch
- Area of application –15 to +50 °C
- Gearbox with permanent lubrication
- High safety in operation
- Low-wear DC-spring-loaded brake
- Chain safety factor minimum 8-times (1-fall in FEM, 2 m, ISO, M5)
- Manganese phosphated profile steel chain with increased service life and improved dry-running properties

Easy to operate

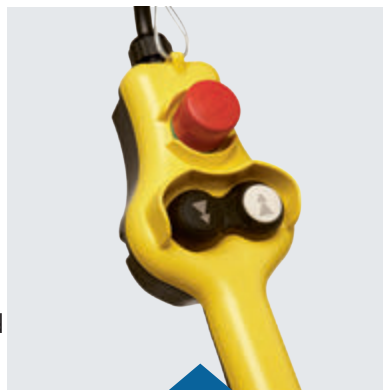
- Low dead weight from 14 kg
- Compact housing with low headroom
- Protection class IP65; suitable for outdoor use
- Geared limit switches with high accuracy in positioning of the highest and lowest hook position
- Ergonomic control switch with emergency stop
- 42 V low voltage control
- Quiet running with 3-step drive and helical gearing
- 2 speeds as standard
- Load hook rotated through 360 degrees, with locking safety catch and rubber buffer
- No special tools for maintenance needed
- Easy to maintain, wearing parts can be changed easily and quickly
- Short delivery time

Customer specific

- Three- or single-phase power
- Worldwide operation voltages
- Various control voltages
- Direct control, special control, radio remote control, frequency inverter
- Special speeds
- Special versions such as synchronised electric chain hoist, low headroom version, corrosion resistant version, ATEX
- Eyebolt or hook suspension
- Hook path with upper and lower end position individually adjustable
- Temperature monitoring
- Operating data counter
- Wide range of accessories and options
- **DGUV V17/18** model available
- UP-SIDE-DOWN model available



UP TO **60 %** MORE CAPACITY.



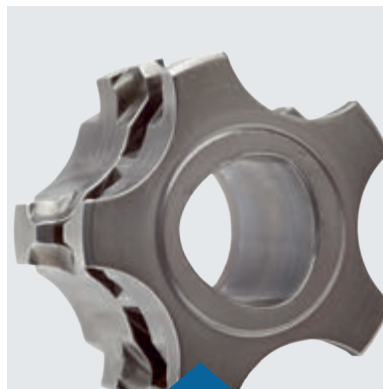
Control switch

The control switch fits comfortably in your hand and is ergonomically designed. It is robust, impact-resistant, safe to operate and controlled by 42V low voltage. Push buttons placed in parallel increase the ease of operation. The external strain relief protects the control cable.



Profile steel chain

The higher cross-sectional area reduces wear and increases the lifetime of the chain. The PEH has a chain safety factor of at least 8-times (FEM, 2 m, ISO, M5). The case hardened and manganese phosphated profile steel chain provides about 15% more capacity at an identical nominal diameter compared to the round steel chain.



Polygonal connection

The inner part of the modularly designed chain hoist embodies real innovation. All shaft-hub connections are built to a polygonal design. This allows significantly faster disassembly and assembly during maintenance and thus reduces service costs.



Protection class IP65

A feature of the hoist and the control switch is the protection class IP65. It is dust proof and protected against water jets. As it is compact and robust designed, the GP is best suited for dusty environments as well as for outdoor operation.



PEH 250/1
single fall



PEH 500/2
two fall



PEH 2500/2
two fall

Standard version with contactor control

Features:

- Lifting capacity: up to 6,300 kg
- 3 × 400 V / 50 Hz
- 42 V low voltage control
- 3 phase motor: 2 speeds
- 1 phase motor (1Ph): 1 speed
- Isolation class F (motor)
- DC spring-loaded brake
- Slipping clutch not in the flow of forces
- Geared limit switches

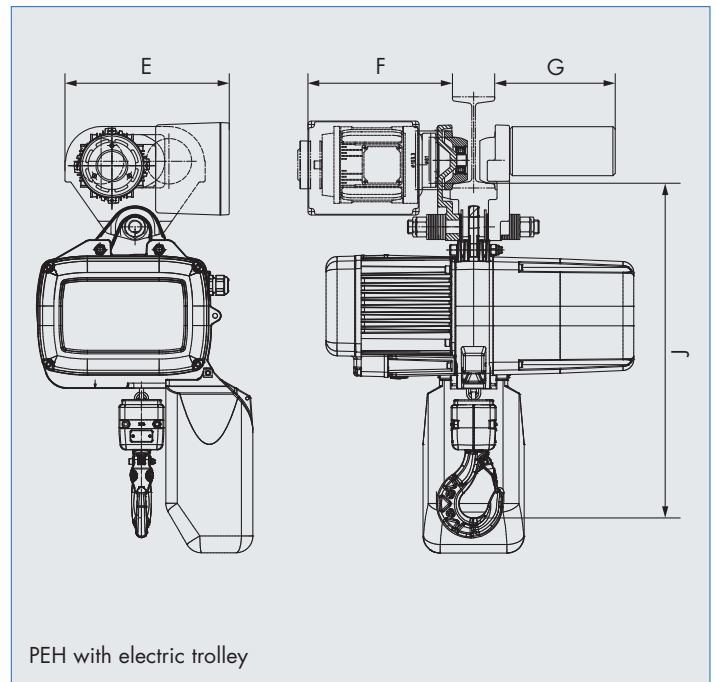
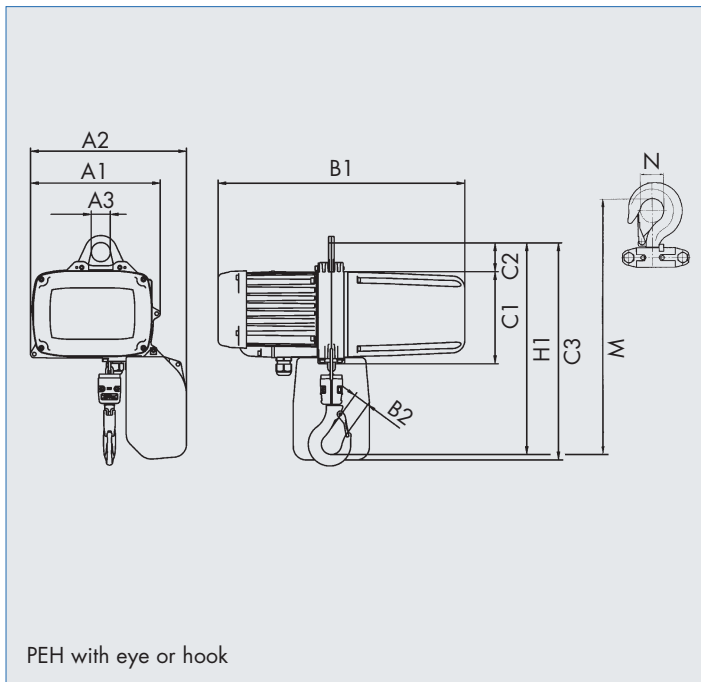
Accessories and options:

- Other operating voltages on request
- Other control voltages on request
- Single-handed operation with control on handle
- Hook suspension
- Safety load hook
- Gear limit switch with two additional emergency stop contacts
- Parallel connection of several chain hoists
- Operating hours and circuit counter
- Manual brake release
- Chain box for various lifting heights
- Lifting heights up to 160 m
- Manual and electric trolleys
- Gear grease for low-temperature use / food industry
- Version according to DGUV V17/18 available
- UP-SIDE-DOWN version available

| TYPE | Capacities in kg acc. ISO (FEM)* | | | | | Lifting speed with load m/min. 50 Hz | Number of chain falls | Chain size mm | Motor power kW | 3 x 400 V 50 Hz ** 1 x 230 V A | Weight with 3 m lift kg | Weight each meter add. lift kg | Order No. PEH with 3 m lift | Order No. Add lift per m |
|-----------------|----------------------------------|---------|-----------|-----------|---------|--------------------------------------|-----------------------|---------------|----------------|--------------------------------|-------------------------|--------------------------------|-----------------------------|--------------------------|
| | A3 (M3) | A4 (M4) | A5 (M5) | A6 (M6) | A7 (M7) | | | | | | | | | |
| PEHM250/1NF | - | 320 | 250 | 200 | - | 8/2 | 1 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 17 | 0.34 | H21520 | H21521 |
| PEHM250/1SF | - | - | 125 | 100 | - | 16/4 | 1 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 17 | 0.34 | H21522 | H21521 |
| PEH250/1NF | 400 | 320 | 250 | 200 | 160 | 8/2 | 1 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 24 | 0.34 | H21524 | H21521 |
| PEH250/1SF | - | 160 | 125 | 100 | - | 16/4 | 1 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 24 | 0.34 | H21526 | H21521 |
| PEH250/1N | 400 | 320 | 250 | 200 | 160 | 8 | 1 | 3.75 x 10.75 | 0.72 | 2.8/1.7 | 24 | 0.34 | H21528 | H21521 |
| PEH250/1N 1Ph | - | - | 250 | 200 | 160 | 8 | 1 | 3.75 x 10.75 | 0.55 | 4.7** | 24 | 0.34 | H21530 | H21521 |
| PEH250/1NL 1Ph | - | - | 250 | 200 | 160 | 4 | 1 | 3.75 x 10.75 | 0.55 | 4.7** | 24 | 0.34 | H21532 | H21521 |
| PEH250/2NF | - | 630 | 500 | 400 | 320 | 4/1 | 2 | 3.75 x 10.75 | 0.72/0.18 | 2.8/1.7 | 25 | 0.68 | H21534 | H21535 |
| PEH250/2N | - | 630 | 500 | 400 | 320 | 4 | 2 | 3.75 x 10.75 | 0.72 | 2.8 | 25 | 0.68 | H21536 | H21535 |
| PEH250/2N 1Ph | - | - | 500 | 400(M5) | 320(M5) | 4 | 2 | 3.75 x 10.75 | 0.55 | 4.7** | 25 | 0.68 | H21538 | H21535 |
| PEH250/2NL 1Ph | - | - | 500 | 400 M5) | 320(M5) | 2 | 2 | 3.75 x 10.75 | 0.55 | 4.7** | 25 | 0.68 | H21540 | H21535 |
| PEH500/1NF | 800 | 630 | 500 | 400 | 320 | 8/2 | 1 | 5.25 x 15 | 0.72/0.18 | 2.8/1.7 | 26 | 0.69 | H21542 | H21543 |
| PEH500/1SF | - | 320 | 250 | 200 | 160 | 16/4 | 1 | 5.25 x 15 | 0.72/0.18 | 2.8/1.7 | 26 | 0.69 | H21544 | H21543 |
| PEH500/1N | 800 | 630 | 500 | 400 | 320 | 8 | 1 | 5.25 x 15 | 0.72 | 2.8 | 26 | 0.69 | H21546 | H21543 |
| PEH500/1N 1Ph | - | - | 250 | 200(M5) | 160(M5) | 8 | 1 | 5.25 x 15 | 0.55 | 4.7** | 26 | 0.69 | H21548 | H21543 |
| PEH500/1NL 1Ph | - | - | 500 | 400(M5) | 320(M5) | 4 | 1 | 5.25 x 15 | 0.55 | 4.7** | 26 | 0.69 | H21550 | H21543 |
| PEH500/2NF | - | 1,250 | 1,000 | 800 | 630 | 4/1 | 2 | 5.25 x 15 | 0.72/0.18 | 2.8/1.7 | 28 | 1.38 | H21552 | H21553 |
| PEH500/2N | - | 1,250 | 1,000 | 800 | 630 | 4 | 2 | 5.25 x 15 | 0.72 | 2.8 | 28 | 1.38 | H21554 | H21553 |
| PEH500/2N 1Ph | - | - | 500 | 400(M5) | 320(M5) | 4 | 2 | 5.25 x 15 | 0.55 | 4.7** | 28 | 1.38 | H21556 | H21553 |
| PEH500/2NL 1Ph | - | - | 1,000 | 800(M5) | 630(M5) | 2 | 2 | 5.25 x 15 | 0.55 | 4.7** | 28 | 1.38 | H21558 | H21553 |
| PEH1000/1NF | 1,600 | 1,250 | 1,000 | 800 | 630 | 8/2 | 1 | 7.45 x 23 | 2.3/0.68 | 5.7/4.1 | 58 | 1.37 | H21600 | H21609 |
| PEH1000/1SF | - | 630 | 500 | 400 | 320 | 16/4 | 1 | 7.45 x 23 | 2.3/0.68 | 5.7/4.1 | 58 | 1.37 | H21601 | H21609 |
| PEH1000/1N | 1,600 | 1,250 | 1,000 | 800 | 630 | 8 | 1 | 7.45 x 23 | 2.3 | 6.5 | 57 | 1.37 | H21602 | H21609 |
| PEH1000/1NL | 1,600 | 1,250 | 1,000 | 800 | 630 | 4 | 1 | 7.45 x 23 | 1.5 | 6.5 | 62 | 1.37 | H21603 | H21609 |
| PEH1000/1N 1Ph | - | - | 500(M5) | 400(M5) | - | 8 | 1 | 7.45 x 23 | 1.5 | 6** | 56 | 1.37 | H21685 | H21609 |
| PEH1000/1NL 1Ph | - | - | 1,000(M5) | 800(M5) | 630(M5) | 4 | 1 | 7.45 x 23 | 1.5 | 6** | 56 | 1.37 | H21686 | H21609 |
| PEH1000/2NF | - | 2,500 | 2,000 | 1,600 | 1,250 | 4/1 | 2 | 7.45 x 23 | 2.3/0.68 | 5.7/4.1 | 62 | 2.74 | H21604 | H21610 |
| PEH1000/2N | - | 2,500 | 2,000 | 1,600 | 1,250 | 4 | 2 | 7.45 x 23 | 2.3 | 6.5 | 61 | 2.74 | H21605 | H21610 |
| PEH1000/2NL | - | 2,500 | 2,000 | 1,600 | 1,250 | 2 | 2 | 7.45 x 23 | 1.5 | 6.5 | 66 | 2.74 | H21606 | H21610 |
| PEH1000/2N 1Ph | - | - | 1,000(M5) | 800(M5) | - | 4 | 2 | 7.45 x 23 | 1.5 | 6** | 60 | 2.74 | H21687 | H21610 |
| PEH1000/2NL 1Ph | - | - | 2,000(M5) | 1,600(M5) | - | 2 | 2 | 7.45 x 23 | 1.5 | 6** | 60 | 2.74 | H21688 | H21610 |
| PEH1600/1NF | 2,500 | 2,000 | 1,600 | - | - | 8/2 | 1 | 9.4 x 27.4 | 3.7/0.93 | 9.5/5.5 | 93 | 2.22 | H21670 | H21611 |
| PEH1600/1SF | - | 1,000 | 800 | - | - | 16/4 | 1 | 9.4 x 27.4 | 3.7/0.93 | 9.5/5.5 | 93 | 2.22 | H21671 | H21611 |
| PEH1600/1NL | 2,500 | 2,000 | 1,600 | 1,250 | 1,000 | 4 | 1 | 9.4 x 27.4 | 2.2 | 5.7 | 88 | 2.22 | H21672 | H21611 |
| PEH1600/2NF | - | 4,000 | 3,200 | - | - | 4/1 | 2 | 9.4 x 27.4 | 3.7/0.93 | 9.5/5.5 | 102 | 4.44 | H21673 | H21612 |
| PEH1600/2NL | - | 4,000 | 3,200 | 2,500 | 2,000 | 2 | 2 | 9.4 x 27.4 | 2.2 | 5.7 | 97 | 4.44 | H21674 | H21612 |
| PEH2500/1NF | - | - | 2,500 | 2,000 | - | 8/2 | 1 | 11.75 x 32.9 | 3.7/0.93 | 9.5/5.5 | 100 | 3.53 | H21675 | H21613 |
| PEH2500/1SF | - | - | 1,250 | 1,000 | - | 16/4 | 1 | 11.75 x 32.9 | 3.7/0.93 | 9.5/5.5 | 100 | 3.53 | H21676 | H21613 |
| PEH 2500/1NL | - | - | 2,500 | 2,000 | - | 4 | 1 | 11.75 x 32.9 | 2.2 | 6.1 | 95 | 3.53 | H21677 | H21613 |
| PEH 2500/1BF | - | 3,200 | - | - | - | 6.4/1.6 | 1 | 11.75 x 32.9 | 3.7/0.93 | 9.5/5.5 | 100 | 3.53 | H21678 | H21613 |
| PEH 2500/1BL | - | 3,200 | - | - | - | 3.2 | 1 | 11.75 x 32.9 | 2.2 | 6.1 | 95 | 3.53 | H21679 | H21613 |
| PEH 2500/2NF | - | - | 5,000 | 4,000 | - | 4/1 | 2 | 11.75 x 32.9 | 3.7/0.93 | 9.5/5.5 | 117 | 7.06 | H21680 | H21614 |
| PEH 2500/2NL | - | - | 5,000 | 4,000 | - | 2 | 2 | 11.75 x 32.9 | 2.2 | 6.1 | 112 | 7.06 | H21681 | H21614 |
| PEH 2500/2BF | - | 6,300 | - | - | - | 3.2/0.8 | 2 | 11.75 x 32.9 | 3.7/0.93 | 9.5/5.5 | 117 | 7.06 | H21682 | H21614 |
| PEH 2500/2BL | - | 6,300 | - | - | - | 1.6 | 2 | 11.75 x 32.9 | 2.2 | 6.1 | 112 | 7.06 | H21683 | H21614 |

* ISO (FEM) classification: Quantity of starts at pendant control per hour
A3(M3) = 150 starts per hour, 25% ED
A4(M4) = 180 starts per hour, 30% ED

A5(M5) = 240 starts per hour, 40% ED
A6(M6) = 300 starts per hour, 50% ED
A7(M7) = 360 starts per hour, 60% ED



| TYPE (dimensions) | | PEH 250/1 | PEH 250/2 | PEH 500/1 | PEH 500/2 | PEH1000/1 | PEH1000/2 | PEH1600/1 | PEH1600/2 | PEH2500/1 | PEH2500/2 |
|-------------------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A1 | mm | 246 | 246 | 246 | 246 | 328 | 328 | 380 | 380 | 380 | 380 |
| A2 | mm | 296 | 296 | 296 | 296 | 385 | 385 | 452 | 452 | 452 | 452 |
| A3 | mm | Ø 40 | Ø 40 | Ø 40 | Ø 40 | Ø 52 | Ø 52 | Ø 75 | Ø 75 | Ø 62 | Ø 62 |
| B1 | mm | 444 | 444 | 444 | 444 | 548 | 548 | 650 | 650 | 650 | 650 |
| B2 | mm | 24 | 24 | 24 | 24 | 33 | 33 | 35 | 35 | 41 | 41 |
| C1 | mm | 162 | 162 | 162 | 162 | 212 | 212 | 237 | 237 | 237 | 237 |
| C2 | mm | 49 | 49 | 49 | 49 | 85 | 85 | 135 | 135 | 132 | 132 |
| C3 | mm | 462 | 462 | 462 | 462 | 598 | 598 | 870 | 870 | 870 | 870 |
| E | mm | 278 | 278 | 278 | 278 | 293 | 293 | 341 | 341 | 387 | 387 |
| F | mm | 250 | 250 | 250 | 250 | 253 | 253 | 337 | 337 | 343 | 343 |
| G | mm | 209 | 209 | 209 | 209 | 211 | 211 | 281 | 281 | 288 | 288 |
| H1 | mm | 400 | 414 | 414 | 453 | 519 | 578 | 659 | 727 | 692 | 781 |
| J | mm | 455 | 481 | 463 | 502 | 594 | 654 | 690 | 758 | 728 | 817 |
| M | mm | 475 | 506 | 488 | 528 | 592 | 651 | 688 | 756 | 785 | 874 |
| N | mm | Ø 42 | Ø 42 | Ø 42 | Ø 42 | Ø 51 | Ø 51 | Ø 35 | Ø 35 | Ø 41 | Ø 41 |



PEH Accessories & Options



Safety radio remote control

The 295 gram lightweight, very rugged handheld transmitter is powered by a rechargeable lithium ion battery and has a protection class of IP66. The receiver which is integrated in a stable housing has a protection class of IP65. With its certified STOP function the receiver meets the requirements of SIL 3 Performance Level PL e. The receiver connects with the chain hoist via a multi-pin plug.



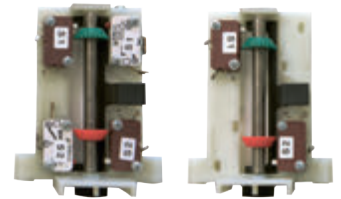
Safety load locking hook

The standard load hook has a spring mechanism that prevents the load from inadvertently detaching from the load hook. The mechanical interlocking of the hook lug of the 360° rotatable and 180° swivelling safety load hook secures the transported goods. The locking load hook closes automatically under load and must be manually unlocked for opening.



Operating data counter

The installation of an operating data counter gives the user additional safety during operation and can extend the life of the electric chain hoist when under-used. By analysing the operating hours and the number of circuits on a mobile reading device or a PC / laptop the optimum maintenance cycle can be set.



Geared limit switch

With the integrated geared limit switch (3 ph.) the upper and lower end position of the load hook can be set easily, precisely and are easily accessible. Optionally, to increase safety, two additional emergency stop contacts are available. High speed shutdown and external limit switch for high lifting heights are other options.



Frequency inverter

Electric chain hoist, motorised trolley or the complete crane system can be operated using frequency inverters. The soft start ensures the accurate and gentle start and positioning of goods and minimises oscillating motion. The speeds and ramps for lifting and travelling can be programmed to suit the application.



Rotating limit switch

Switches the direction of movement of the of the electric trolley as 1-stage pre-limit switch, as a 2-stage limit switch.



Switch controls

- Standard with strain relief
- 2-button: specially ergonomic
- Standard with EMERGENCY STOP
- Protection class: IP65 according to DIN 40050



GHF 1250 K

Manual trolley GHF/PHF

Manual trolley for steel girders, load capacity: up to 6,300 kg, manual shifting of manual or electric chain hoist

GHF 500 K

- Capacity: up to 500 kg
- Glass-fibre reinforced plastic castors
- Optimum smooth running
- High running smoothness
- Die-cast aluminium side shields with fall and climbing protection
- Low dead weight of only 2.5 kg
- Support bolts galvanised
- Flange width 50 - 149 mm
- Minimum curve radius 1,200 mm



PHF 1250

PHF 1250 - 6300

- Load capacity: 1,250 - 6,300 kg
 - Cast iron rollers, cylindrical for flat track supports track beams, ball bearing mounted
 - Cast iron side plates with guardrails and climbing protection
 - PHF 1250/2500 with 1 support pin
 - PHF 5000/6300 with 2 support bolts
 - Support bolts galvanised
 - Flange width infinitely variable
 - Optional parking brake for PHF 1250
 - Optional guide rollers
 - Optional crowned track rollers available
 - Optional stainless steel rollers*
 - Optional plastic rollers*
- * Load reduction



**Option:
Guide rollers**

| TYPW | Capacities in kg acc. ISO (FEM)* | | | | | Min. curve radius mm | Weight kg | Flange width mm | Order No. | Larger flange width mm | Order No. *** |
|-------------------|----------------------------------|-------|-------|-------|-------|----------------------|-----------|-----------------|---------------|------------------------|---------------|
| | A3/M3 | A4/M4 | A5/M5 | A6/M6 | A6/M6 | | | | | | |
| GHF 500K** | 500 | 500 | 500 | 400 | 320 | 1,200 | 2.5 | 50-99 | H20729 | 100-149 | H20735 |
| PHF 1250 | 1,250 | 1,000 | 800 | 630 | 500 | 1,000 | 10 | 70-140 | H20800 | 70-240 | H20745 |
| PHF 2500 | 2,500 | 2,000 | 1,600 | 1,250 | 1,000 | 1,500 | 19 | 88-200 | H20801 | 88-300 | H20746 |
| PHF 5000 | 5,000 | 4,000 | 3,200 | 2,500 | 2,000 | 1,800 | 32 | 91-300 | H20802 | 91-300 | H20802 |
| PHF 6300 | 6,300 | 5,000 | 4,000 | 3,200 | 2,500 | 1,800 | 47 | 91-300 | H20803 | 91-300 | H20803 |

Only in conjunction with PEH 250/500 *Bolt sets without trolley



PMF 1250

PMF 6300

Option:
Guide rollers

Electric trolley PMF

Electric trolleys for steel beams,
Capacities: up to 6,300 kg

- 3 × 400 V / 50 Hz, 3 × 230 V / 50 Hz
- 1 × 115 V / 50 Hz, 1 × 230 V / 50 Hz
- Control 42 V low voltage
- 3-phase motor (3 Ph): 1 or 2 speeds
- 1-phase motor (1 Ph): 1 speed
- Protection class IP54
- Cast iron side plates and castors
- Rollers for flat tread (IPE/HEA/HEB)
- Flange width continuously adjustable
- Support bolts galvanised
- Fall and climbing protection
- Ergonomic control switch 4-knob with emergency stop
- Control switch with external strain relief
- Insulation class F (motor)
- DC spring-applied brake
- Optionally with travel limit switch
- Optionally with radio control
- Optionally available with crowned rollers
- Optional food grease
- Optional guide rollers

| TYPE | Capacities in kg acc. ISO (FEM)* | | | | | Travel speed m/min. 50 Hz | Min. curve radius mm | Motor power kW | 3 × 400 V 50 Hz A | Weight kg | Flange width mm | Order No. | Larger flange width mm | Order No.** |
|----------------|----------------------------------|-----------|-----------|-----------|-----------|---------------------------------|-------------------------|-------------------|-------------------------|--------------|--------------------|-----------|---------------------------|-------------|
| | A3/ M3 | A4/ M4 | A5/ M5 | A6/ M6 | A6/ M6 | | | | | | | | | |
| PMF 1250/NF | 1,250 | 1,000 | 800 | 630 | 500 | 12/4 | 1,000 | 0.15/0,045 | 0.65/0.75 | 30 | 70–140 | H20804 | 70–240 | H20745 |
| PMF 1250/N | 1,250 | 1,000 | 800 | 630 | 500 | 12 | 1,000 | 0.25 | 0.8 | 30 | 70–140 | H20806 | 70–240 | H20745 |
| PMF 1250/SF | 1,250 | 1,000 | 800 | 630 | 500 | 24/6 | 1,000 | 0.3/0,075 | 1.0/0.9 | 30 | 70–140 | H20805 | 70–240 | H20745 |
| PMF 1250/N 1Ph | 1,250 | 1,000 | 800 | 630 | 500 | 12 | 1,000 | 0.25 | 1.0 (1x 230 V) | 30 | 70–140 | H20807 | 70–240 | H20745 |
| PMF 2500/NF | 2,500 | 2,000 | 1,600 | 1,250 | 1,000 | 12/4 | 1,500 | 0.15/0,045 | 0.65/0.75 | 38 | 88–200 | H20809 | 88–300 | H20746 |
| PMF 2500/N | 2,500 | 2,000 | 1,600 | 1,250 | 1,000 | 12 | 1,500 | 0.25 | 0.8 | 38 | 88–200 | H20811 | 88–300 | H20746 |
| PMF 2500/SF | 2,500 | 2,000 | 1,600 | 1,250 | 1,000 | 24/6 | 1,500 | 0.3/0,075 | 1.0/0.9 | 38 | 88–200 | H20810 | 88–300 | H20746 |
| PMF 2500/N 1Ph | 2,500 | 2,000 | 1,600 | 1,250 | 1,000 | 12 | 1,500 | 0.25 | 1.0 (1x 230 V) | 38 | 88–200 | H20812 | 88–300 | H20746 |
| PMF 4000/NF | 4,000 | 3,200 | 2,500 | – | – | 12/4 | 1,800 | 0.15/0,045 | 0.65/0.75 | 55 | 91–300 | H20814 | – | – |
| PMF 4000/SF | 4,000 | 3,200 | 2,500 | – | – | 24/6 | 1,800 | 0.3/0,075 | 1/0.9 | 55 | 91–300 | H20815 | – | – |
| PMF 5000/NF | 5,000 | 4,000 | 3,200 | 2,500 | 2,000 | 12/4 | 1,800 | 2×0.15/0,045 | 2×0.65/0.75 | 63 | 91–300 | H20816 | – | – |
| PMF 5000/SF | 5,000 | 4,000 | 3,200 | 2,500 | 2,000 | 24/6 | 1,800 | 2×0.3/0,075 | 2×1.0/0.9 | 63 | 91–300 | H20817 | – | – |
| PMF 6300/NF | 6,300 | 5,000 | 4,000 | 3,200 | 2,500 | 12/4 | 1,800 | 2×0.15/0,045 | 2×0.65/0.75 | 78 | 91–300 | H20818 | – | – |
| PMF 6300/SF | 6,300 | 5,000 | 4,000 | 3,200 | 2,500 | 24/6 | 1,800 | 2×0.3/0,075 | 2×0.3/0,075 | 78 | 91–300 | H20819 | – | – |

* ISO (FEM) classification: Quantity of starts at pendant control per hour
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A4(M4) = 180 starts per hour, 30% ED

A5(M5) = 240 starts per hour, 40% ED
A6(M6) = 300 starts per hour, 50% ED
A7(M7) = 360 starts per hour, 60% ED

** Bolt sets without trolley

ROPE WINCHES



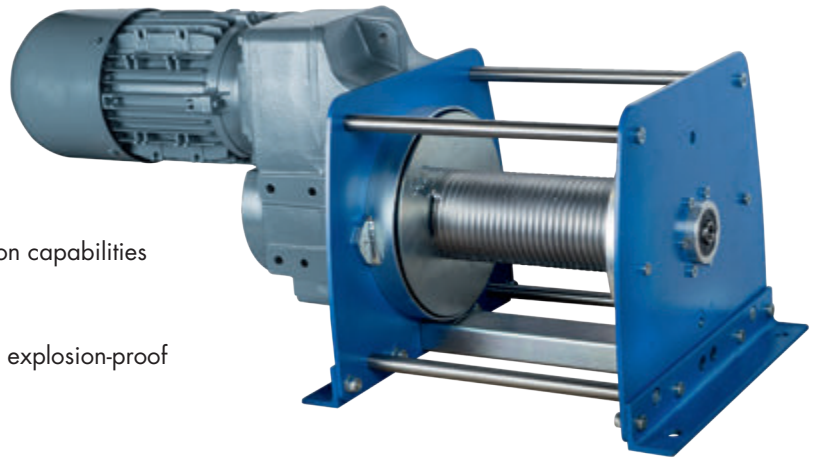
PLANETA-PFW electrical rope winch

Load bearing capacity to 3,000 kg

The PFW electrical rope winch with its modular construction principle is one of the most modern devices for pulling, lifting and moving loads.

In addition, the PFW rope winch can be adapted to further and more specific applications through the varied fabrication capabilities and many other options and parameters.

This includes multiple rope applications and applications in explosion-proof areas and on ships, or for platforms and studios.



PLANETA-PHW rope winch

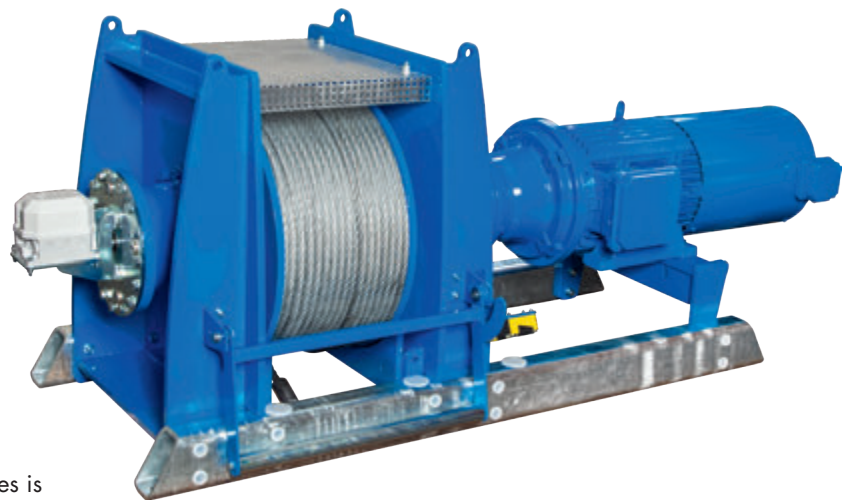
Load bearing capacity to 37,000 kg in the standard

The PHW type rope winch forms the basis for many designs and variants used for the lifting and pulling of loads, even for loads of more than 37,000 kg. The PHW series is modular by design.

One drum side is retained by a pillow block bearing and its drive shaft penetrates the flange-mounted planetary gear, which is installed upstream of a three-phase braking motor.

Where installation length poses a problem, the PHW series is also available with an angular drive on request. Selection of the rope is dependent on the pulling force on the 5th rope layer, whereby the drum diameter must be a min. 16 times the rope diameter (drive mechanism group 1Am).

However, we are only illustrating some of the options here because alternative flange and drum sizes, additional gear stages and numerous types of motor can be incorporated, in order to configure winches precisely in accordance with your requirements.

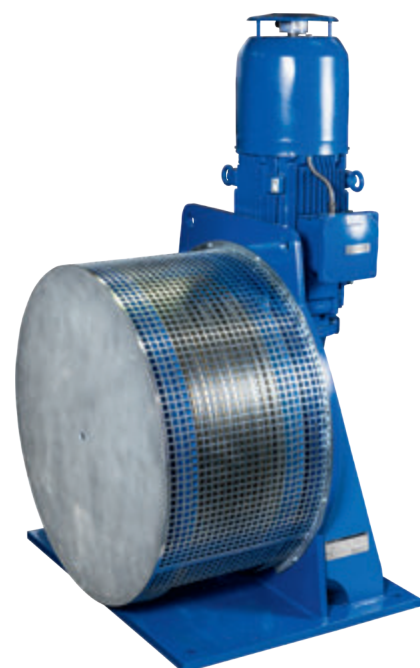


PLANETA-PCW compact rope winch

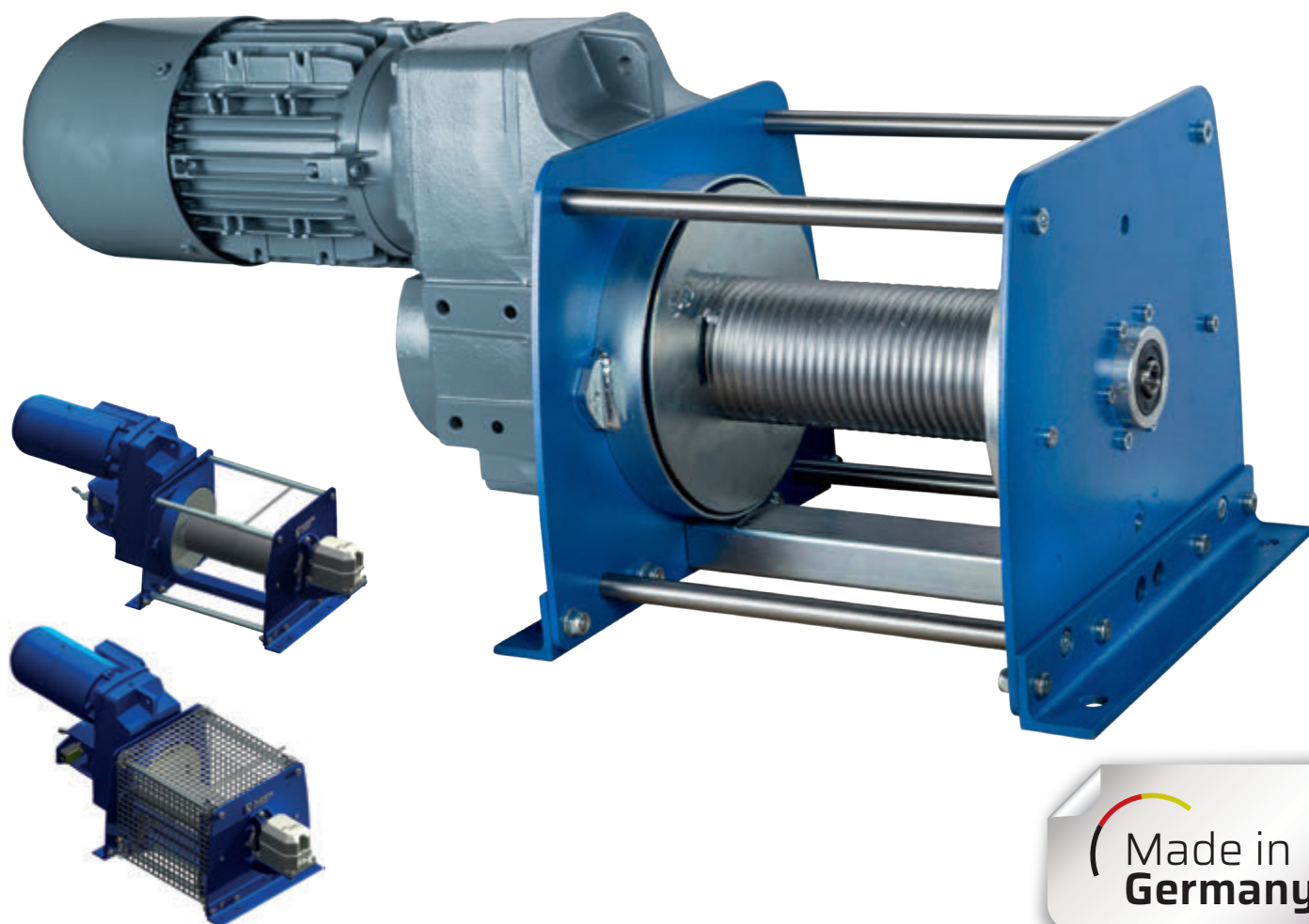
Capacity up to 5,250 kg

The PCW winch has compact multi-stage planetary gear, installed inside the drum. As such, the installation length of the winch is very short. The PCW is primarily used when the required rope length is short and the drum is therefore only small. This saves the second outer bearing, because all of the forces are absorbed by the transmission bearing.

The PCW is available with an electric, hydraulic or compressed air motor. In special cases, special gears are also an option.



More information can be found in our catalogue "Rope winches - production program and special solutions".



Electric rope winch PFW

With a load bearing capacity from 250 to 3,000 kg this electrical cable winch with its modular construction principle is one of the most modern devices for pulling, lifting and moving loads. With its extensive range of configuration and finishing options it can be adapted to suit almost any installation situation.

Drive

In standard form the spur gear transmission is equipped with a 3-phase braked motor. The standard operating voltage is 3 Ph / 400 V / 50 Hz. The duty cycle is around 60% thus enabling operation to continue almost without a break in the most difficult of conditions. For unprotected use outdoors the braked motor fulfils **protection class IP55**. Other operating voltages, alternative types of drive, higher duty cycles and protection classes are also available on request.

End position switch-off

In standard configuration the end switch is

installed on the drive side to save space. If desired, or when using the manual free-wheeling coupling, it can be installed on the opposite side, mounted above the drum bearing. Alongside the standard design as emergency end switch, we also offer the end switch as an option with 4 contacts as an operational end switch, in order to be sure that the emergency end switch is not reached during normal operation, as required in the machinery directive. When operating the **PFW**, for example, in combination with a frequency converter controller, the end switch can be equipped with an integrated incremental sensor at the factory. **Protection class IP 65** as well as the high quality manufacturing of the end switch enables deployment in almost any environment.

Cable drum

In the basic version your **PFW** is delivered with a smooth drum surface. If desired we can deliver the cable drum with scoring in order to achieve a longer service life for the

cable and quieter running for the cable. You can select between two cable drum diameters. The standard diameter is based on a D/d ratio of 14 and thus fulfils the requirements of drive mechanism group 1Bm. There is also a double drum diameter version available for single layer, high precision applications. The modular construction of the cable drum even enables your **PFW** drum to be retrofitted from smooth to scored by us in the factory. Special versions with multiple cable out-flows, drum separators or versions in rust-free stainless steel are also available on request!

Base frame

Torsionally rigid and yet flexible, it is well suited to almost any sub-structure. Many accessory parts can be retrofitted and can thus be changed throughout the course of the use of the winch. In standard form the winch has side guards that effectively prevent the cable jumping off. Alongside the facility to allow the cable to

run in almost any direction from the drum, the rust-proof frame bars also enable easy handling during transportation or mounting.

Options

Thanks to the modular construction, for the first time it is possible to retrofit or change many options. Foremost of these is the manual **free-wheeling coupling**, which de-couples the cable drum from the drive and the brake for a rapid reeling off of the cable.

Simply select **scored or extended drums, end switches, cable contact rollers, slack cable switches, protective drum covers, two or more cable outflows, manual brake venting**, with or without **emergency hand crank** and **various protective paint systems** from our options catalogue.

Thus with our C5 painting per ISO 12944. in combination with a higher protection class for the motor and connecting elements made from rustproof stainless steel, the offshore variant of the **PFW** can also be

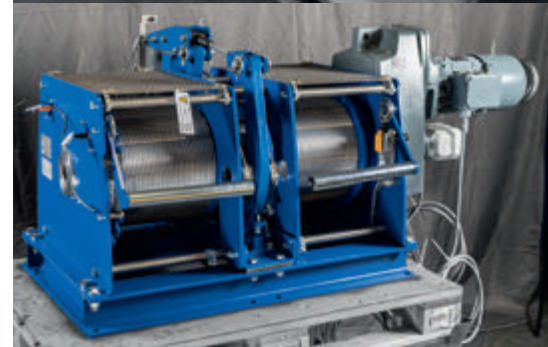
used in salty sea-air environments or on ships. Other custom solutions are also possible on request. In standard configuration the end switch is installed on the drive side. If desired, or when using the manual free wheeling coupling, it can be installed on the opposite side, mounted above the drum bearing.

Versions

The cable winch can also be appropriately equipped to allow use in explosive atmospheres or for use in theatres, stages and studios where persons can be underneath the load whilst the hoist is operating. Special versions such as two or multiple cable applications and transverse winches are likewise available from the standard range.

Made in Germany

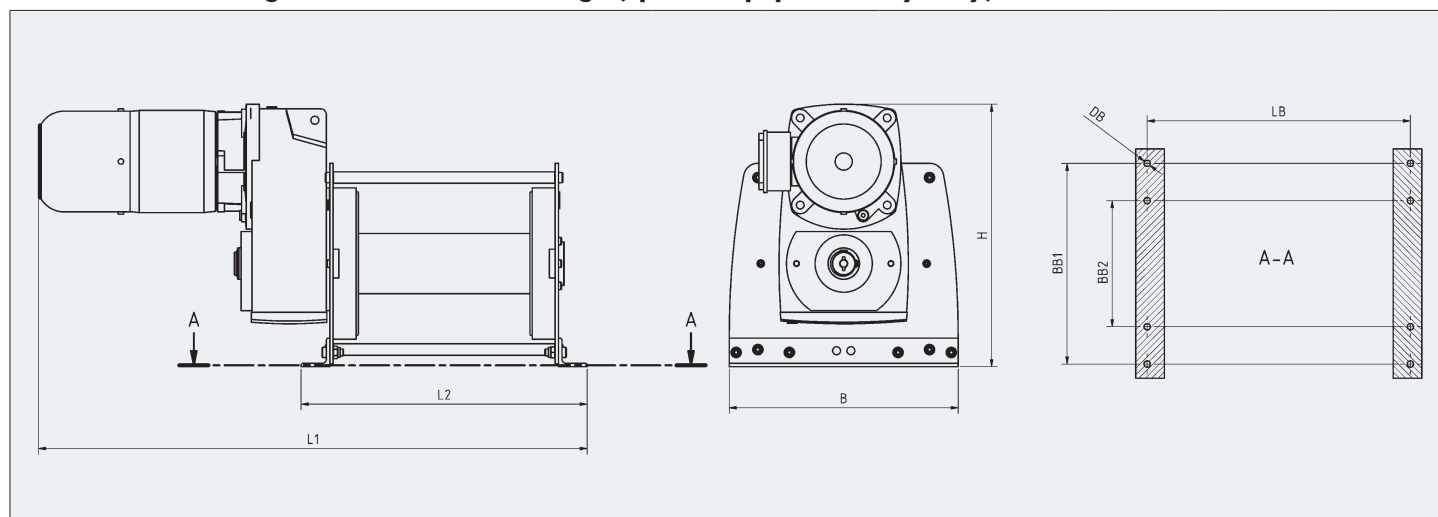
The **PFW** range combines a modern design, innovative technology and superlative components, which are produced exclusively in Germany. Prior to shipping, each winch is tested dynamically with 125% of the nominal load and leaves our factory with a 24 month guarantee.



Basic design

| TYPE | PFW-1D | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
|---|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Lifting capacity in 1st rope layer | kg | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
| Lifting capacity in 5th rope layer | kg | 160 | 320 | 480 | 640 | 950 | 1270 | 1920 |
| Rope diameter | mm | 5 | 6 | 7 | 8 | 10 | 12 | 14 |
| Rope length in 1st rope layer | m | 11 | 11 | 11 | 10 | 10 | 9 | 9 |
| Rope length in 5th rope layer | m | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Expansion every 100 mm extended drum 1st/5th layer | approx. m | 4/25 | 4/25 | 4/25 | 4/25 | 4/25 | 4/25 | 4/25 |
| Rope speed in 1st rope layer | approx. m/min | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Rope speed in 5th rope layer | approx. m/min | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Motor power | kW | 0.37 | 0.75 | 1.1 | 1.5 | 2.1 | 2.6 | 4 |
| PFW-1D with standard speed | Order No. | H62101 | H62111 | H62121 | H62131 | H62141 | H62151 | H62161 |
| Rope speed in 1st rope layer | approx. m/min | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Rope speed in 5th rope layer | approx. m/min | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Motor power | kW | 0.18 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 |
| PFW-1D with half speed | Order No. | H62104 | H62114 | H62124 | H62134 | H62144 | H62154 | H62164 |
| Rope speed in 1st rope layer | approx. m/min | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Rope speed in 5th rope layer | approx. m/min | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| Motor power | kW | 0.55 | 1.1 | 1.5 | 2.1 | 3.2 | 4 | 5.5 |
| PFW-1D with faster speed | Order No. | H62103 | H62113 | H62123 | H62133 | H62143 | H62153 | H62163 |
| Options | | | | | | | | |
| Grooved drum | Order No. | H62800 | H62801 | H62802 | H62803 | H62804 | H62805 | H62806 |
| Longer drum each 100 mm | Order No. | H62810 | H62810 | H62811 | H62811 | H62812 | H62812 | H62813 |
| Second rope outflow | Order No. | H62820 | H62821 | H62822 | H62823 | H62824 | H62825 | H62826 |
| Manual free-wheeling coupling | Order No. | - | H62831 | H62832 | H62833 | H62834 | H62835 | H62836 |
| Protective drum cover | Order No. | H62840 | H62841 | H62842 | H62843 | H62844 | H62845 | H62846 |
| Drum pressure roller | Order No. | H62850 | H62851 | H62852 | H62853 | H62854 | H62855 | H62856 |
| Emergency limit switch | Order No. | H62861 | H62861 | H62861 | H62862 | H62862 | H62863 | H62863 |
| Operational limit switch | Order No. | H62865 | H62865 | H62865 | H62865 | H62865 | H62865 | H62865 |
| Emergency limit switch with incremental sensor | Order No. | H62866 | H62866 | H62866 | H62866 | H62866 | H62866 | H62866 |
| Slack wire switch | Order No. | H62870 | H62871 | H62872 | H62873 | H62874 | H62875 | H62876 |
| Manual brake release | Order No. | H62881 | H62881 | H62881 | H62882 | H62882 | H62882 | H62883 |
| Manual brake release with crank | Order No. | H62884 | H62884 | H62884 | H62885 | H62885 | H62885 | H62886 |
| Protective paint per ISO12944 C4 (high) | Order No. | H62891 | H62891 | H62892 | H62892 | H62893 | H62893 | H62894 |
| Protective paint per ISO12944 C5 (very high / marine) | Order No. | H62895 | H62895 | H62896 | H62896 | H62897 | H62897 | H62898 |

Dimensions and weights of the standard design (special equipment may vary)



| | | | | | | | | |
|----------------------------|------------|------|------|------|------|------|------|------|
| L1 | mm | 900 | 910 | 910 | 1020 | 1060 | 1200 | 1300 |
| L2 | mm | 460 | 460 | 460 | 500 | 500 | 570 | 570 |
| B | mm | 270 | 320 | 360 | 400 | 460 | 550 | 620 |
| H | mm | 325 | 360 | 420 | 460 | 550 | 630 | 690 |
| LTR | mm | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| DTR | mm | 65 | 80 | 92 | 105 | 130 | 155 | 185 |
| DFL | mm | 155 | 190 | 220 | 250 | 310 | 370 | 430 |
| LB | mm | 430 | 430 | 430 | 460 | 460 | 520 | 520 |
| BB1 | mm | 220 | 250 | 310 | 350 | 410 | 500 | 560 |
| BB2 | mm | - | - | - | 220 | 280 | 320 | 380 |
| DB | mm | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 17.5 | 17.5 |
| Weight without accessories | approx. kg | 35 | 60 | 75 | 110 | 155 | 240 | 380 |

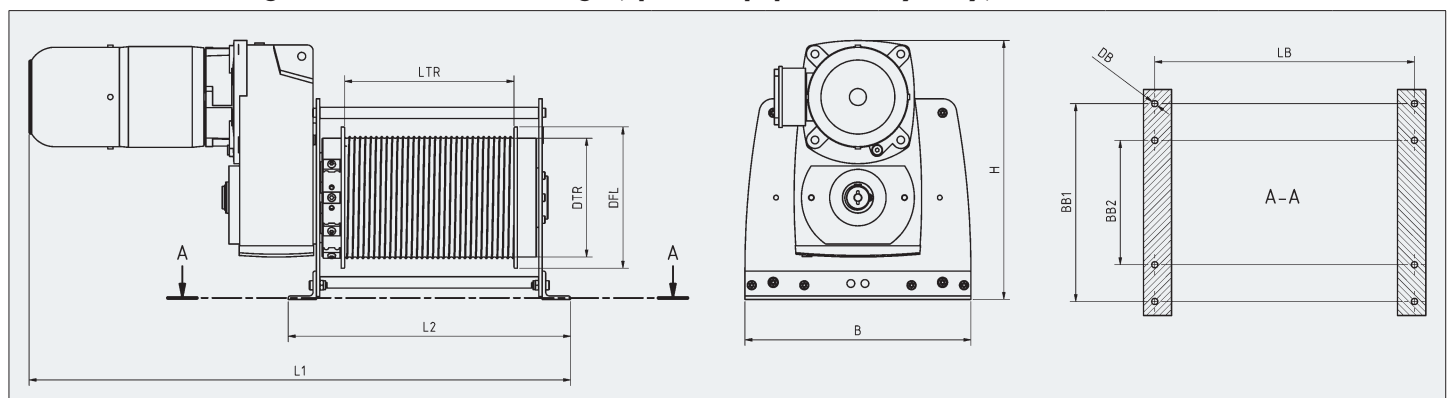
Double diameter drum, stage & studios

| TYPE | PFW-2D | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
|--|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Lifting capacity in 1st rope layer | kg | 125 | 250 | 375 | 500 | 750 | 1000 | 1500 |
| Rope diameter | mm | 5 | 6 | 7 | 8 | 10 | 12 | 14 |
| Rope length in 1st rope layer | m | 20 | 20 | 20 | 20 | 19 | 18 | 17 |
| Expansion every 100 mm extended drum 1st layer | approx. m | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Rope speed in 1st rope layer | approx. m/min | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Motor power | kW | 0.37 | 0.75 | 1.1 | 1.5 | 2.1 | 2.6 | 4 |
| PFW-2D with standard speed | Order No. | H62201 | H62211 | H62221 | H62231 | H62241 | H62251 | H62261 |
| Rope speed in 1st rope layer | approx. m/min | 7 | 7 | 8 | 9 | 8 | 7 | 7 |
| Motor power | kW | 0.18 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 |
| PFW-2D with half speed | Order No. | H62204 | H62214 | H62224 | H62234 | H62244 | H62254 | H62264 |
| Rope speed in 1st rope layer | approx. m/min | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Motor power | kW | 0.55 | 1.1 | 1.5 | 2.1 | 3.2 | 4 | 5.5 |
| PFW-2D with faster speed | Order No. | H62203 | H62213 | H62223 | H62233 | H62243 | H62253 | H62263 |

| TYPE | PFW stages and studios | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
|--|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Lifting capacity in 1st rope layer | kg | 100 | 200 | 300 | 400 | 630 | 900 | 1200 |
| Rope diameter | mm | 5 | 6 | 7 | 8 | 10 | 12 | 14 |
| Rope length in 1st rope layer | m | 19 | 19 | 19 | 19 | 18 | 17 | 16 |
| Expansion every 100 mm extended drum 1st layer | approx. m | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Rope speed in 1st rope layer | approx. m/min | 7/15 | 7/15 | 7/15 | 7/15 | 7/15 | 7/15 | 7/15 |
| Motor power | kW | 0.18/0.25 | 0.37/0.55 | 0.4/0.75 | 0.55/1.0 | 1.0/1.6 | 1.5/2.5 | 2.2/3.4 |
| | Order No. | H62301 | H62311 | H62321 | H62331 | H62341 | H62351 | H62361 |

| Options | Order No. | inkl. | inkl. | inkl. | inkl. | inkl. | inkl. | inkl. |
|--|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Grooved drum | Order No. | inkl. | inkl. | inkl. | inkl. | inkl. | inkl. | inkl. |
| Longer drum | Order No. | H62814 | H62814 | H62815 | H62815 | H62816 | H62816 | H62817 |
| Second rope outflow | Order No. | H62820 | H62821 | H62822 | H62823 | H62824 | H62825 | H62826 |
| Manual free-wheeling coupling (not for stages and studios) | Order No. | - | H62831 | H62832 | H62833 | H62834 | H62835 | H62836 |
| Protective drum cover | Order No. | H62840 | H62841 | H62842 | H62843 | H62844 | H62845 | H62846 |
| Drum pressure roller | Order No. | H62850 | H62851 | H62852 | H62853 | H62854 | H62855 | H62856 |
| Emergency limit switch | Order No. | H62861 | H62861 | H62861 | H62862 | H62862 | H62863 | H62863 |
| Operational limit switch | Order No. | H62865 | H62865 | H62865 | H62865 | H62865 | H62865 | H62865 |
| Emergency limit switch with incremental sensor | Order No. | H62866 | H62866 | H62866 | H62866 | H62866 | H62866 | H62866 |
| Slack wire switch | Order No. | H62870 | H62871 | H62872 | H62873 | H62874 | H62875 | H62876 |
| Manual brake release | Order No. | H62881 | H62881 | H62881 | H62882 | H62882 | H62882 | H62883 |
| Manual brake release with crank | Order No. | H62884 | H62884 | H62884 | H62885 | H62885 | H62885 | H62886 |
| Protective paint per ISO12944 C4 (high) | Order No. | H62891 | H62891 | H62892 | H62892 | H62893 | H62893 | H62894 |
| Protective paint per ISO12944 C5 (high) | Order No. | H62895 | H62895 | H62896 | H62896 | H62897 | H62897 | H62898 |

Dimensions and weights of the standard design (special equipment may vary)



| | | | | | | | | |
|----------------------------|------------|------|------|------|------|------|------|------|
| L1 | mm | 880 | 920 | 920 | 1040 | 1080 | 1200 | 1200 |
| L2 | mm | 460 | 460 | 460 | 500 | 500 | 570 | 570 |
| B | mm | 270 | 320 | 360 | 400 | 460 | 550 | 620 |
| H | mm | 315 | 360 | 420 | 460 | 550 | 630 | 660 |
| LTR | mm | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| DTR | mm | 130 | 160 | 185 | 210 | 260 | 310 | 350 |
| DFL | mm | 155 | 190 | 220 | 250 | 310 | 370 | 430 |
| LB | mm | 430 | 430 | 430 | 460 | 460 | 520 | 520 |
| BB1 | mm | 220 | 250 | 310 | 350 | 410 | 500 | 560 |
| BB2 | mm | - | - | 200 | 220 | 280 | 320 | 380 |
| DB | mm | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 17.5 | 17.5 |
| Weight without accessories | approx. kg | 40 | 65 | 85 | 120 | 170 | 280 | 425 |

Electric rope winch PLANETA – PFW-C

With a load bearing capacity from 250 to 2,000 kg this electrical rope winch with its modular construction principle is one of the most modern devices for pulling, lifting and moving loads. With its extensive range of configuration and finishing options it can be adapted to suit almost any installation situation.



Standard equipment

- Disk brake and spur gear motor
- Grooved drum
- Safety contactor control with low control voltages
- Electric overload protection (over 1,000 kg load capacity)
- Pendant remote control with 3 m cable
- Power supply cable with 3 m cable
- Documentation in German or English
- Test certificate and EC installation declaration

Technical data

- Operating voltage 3 Phases / 400 Volt / 50 Hz or 1 Phases / 230 Volt / 50 Hz (alternating current)
- Duty cycle 60% (reference cycle 10 min.)
- Up to 150 starts per hour
- Protection class: IP 55 (jet-water from all sides)
- FEM classification: M3 (1Bm)
(e.g. 10 years one hour daily with medium loads)
- Ambient temperature during operation: -10 °C to +40 °C

Winch control system

Out standard contactor control with control voltage of 42 V combines a lot of security features in a compact housing. By using low control voltage the operator is protected in a case of possible damages like a contact with a broken cable isolation. Generally the control will be delivered with a separate control of the brake. Because of that down sliding of the load will be prevented in a case of emergency stop.

Additional versions

Thanks to the modular construction, for the first time it is possible to retrofit or change many options.

Foremost of these is the manual free-wheeling coupling, which de-couples the rope drum from the drive and the brake for a rapid reeling off of the rope.



Figure shows optional equipment

Optional equipment

- Lifting- or pulling rope with security hook
- Operational limit switch
- Protective drum cover
- Drum pressure roller
- CE-Label by full equipment

Spindle limit switch

The spindle limit switch is coupled directly to the rope drum and determines the drum's revolutions. You can determine the rope winch's shut-off positions as required by adjusting the switching cam inside the switch. As standard, our spindle limit switches have two contacts, in order to limit the top and bottom hook position for example.

Drum protection

Covering the rope drum prevents objects or items of the operator's clothing entering the rope drive. This reduces the risk of accidents and damage to the winch.

Drum pressure roller

The rope keeps tight on the drum as long as it is under tension. But if it becomes slack, e.g. during shunting applications, when the waggon runs faster than the winch is able to store, a drum pressure roller can help. It presses the rope onto the drum core and maintains it in a tidy condition. The drum pressure roller is also recommended if a free spooling clutch is used.



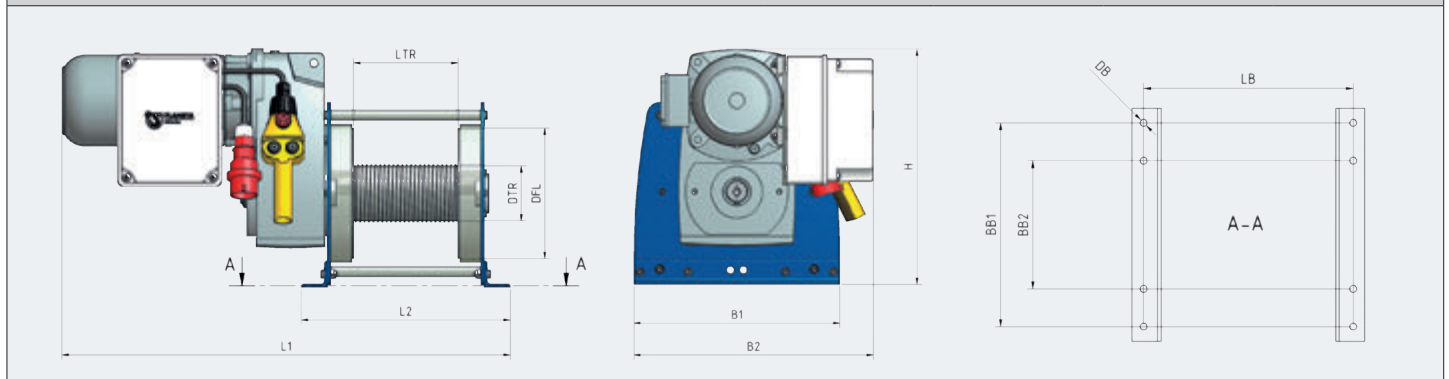
Made in Germany

The PFW range combines a modern design, innovative technology and superlative components, which are produced exclusively in Germany. Prior to shipping, each winch is tested dynamically with 125% of the nominal load and leaves our factory with a 24 month guarantee.

| TYPE | PFW-C ... | 250 | 500 | 990 | 2000 |
|---|------------------|---------------|---------------|---------------|---------------|
| Lifting capacity in 1st rope layer to max. hoisting-/pulling distance | kg/m | 250/7 | 500/7 | 990/6 | 2000/5 |
| Lifting capacity in 2nd rope layer to max. hoisting-/pulling distance | kg/m | 220/16 | 440/16 | 865/16 | 1750/14 |
| Lifting capacity in 3rd rope layer to max. hoisting-/pulling distance | kg/m | 195/27 | 390/27 | 770/26 | 1550/24 |
| Lifting capacity in 4th rope layer to max. hoisting-/pulling distance | kg/m | 175/38 | 350/39 | 695/39 | 1400/35 |
| Lifting capacity in 5th rope layer to max. hoisting-/pulling distance | kg/m | 160/51 | 320/52 | 630/51 | 1270/48 |
| Lifting capacity in 6th rope layer to max. hoisting-/pulling distance | kg/m | 145/65 | 295/65 | 580/65 | 1165/61 |
| Lifting capacity in 7th rope layer to max. hoisting-/pulling distance | kg/m | 135/81 | 270/81 | 535/80 | 1075/75 |
| Rope diameter | mm | 5 | 6 | 8 | 12 |
| Required rope length remaining on drum | m | 1.0 | 1.2 | 1.6 | 2.4 |
| Rope speed 1st rope layer | approx. m/min | 8 | 8 | 8 | 8 (4)* |
| Rope speed 2nd rope layer | approx. m/min | 9 | 9 | 9 | 9 (4)* |
| Rope speed 3rd rope layer | approx. m/min | 10 | 10 | 10 | 10 (5)* |
| Rope speed 4th rope layer | approx. m/min | 11 | 11 | 11 | 11 (5)* |
| Rope speed 5th rope layer | approx. m/min | 12 | 12 | 12 | 12 (6)* |
| Rope speed 6th rope layer | approx. m/min | 13 | 13 | 13 | 13 (6)* |
| Rope speed 7th rope layer | approx. m/min | 14 | 14 | 14 | 14 (7)* |
| Motor power | kW | 0.37 | 0.75 | 1.5 | 2.6 (1.5)* |
| PFW-C with 3PH / 400 V | Order No. | H62100 | H62110 | H62130 | H62150 |
| PFW-C with 1PH / 230 V (*) | Order No. | H62109 | H62119 | H62139 | H62159 |

| Options | | | | | |
|--|-----------|--------|--------|--------|--------|
| Protective drum cover | Order No. | H62840 | H62841 | H62843 | H62845 |
| Operational limit switch | Order No. | H62861 | H62861 | H62862 | H62863 |
| Drum pressure roller | Order No. | H62850 | H62851 | H62853 | H62855 |
| Pulling rope not rotation-resistant with eye hook 8 m * | Order No. | C62101 | C62111 | C62131 | C62151 |
| Additional pulling rope per m | Order No. | C05619 | C06619 | C08619 | C12636 |
| Hoisting rope rotation resistant with swivel hook 8 m ** | Order No. | C62102 | C62112 | C62132 | C62152 |
| Additional hoisting rope per m | Order No. | C05177 | C06177 | C08177 | C12177 |

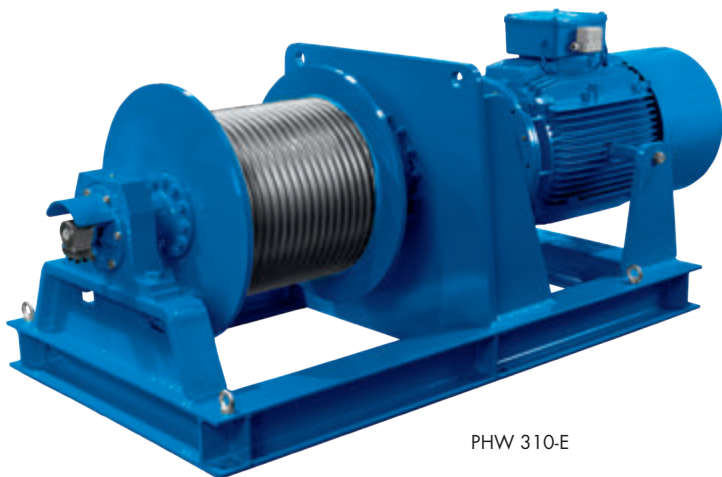
Dimensions and weights of the standard designs (Special equipment may vary).



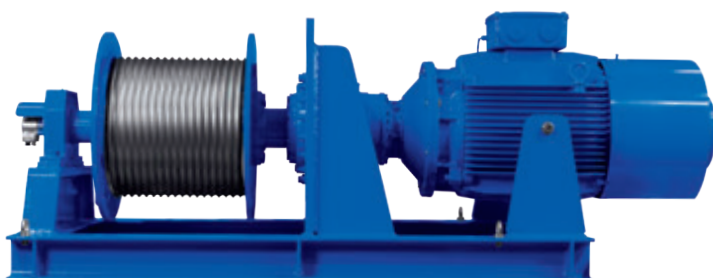
| | | | | | |
|----------------------------|------------|-----|-----|-----|--------------|
| L1 | mm | 740 | 770 | 860 | 1000 (1050)* |
| L2 | mm | 360 | 360 | 400 | 470 |
| B1 | mm | 270 | 320 | 400 | 550 |
| B2 | mm | 380 | 420 | 470 | 550 |
| H | mm | 315 | 355 | 460 | 620 |
| LTR | mm | 200 | 200 | 200 | 200 |
| DTR | mm | 65 | 80 | 105 | 155 |
| DFL | mm | 155 | 190 | 250 | 370 |
| LB | mm | 330 | 330 | 360 | 420 |
| BB1 | mm | 220 | 250 | 350 | 500 |
| BB2 | mm | - | - | 220 | 320 |
| DB | mm | 11 | 12 | 12 | 16 |
| Weight without accessories | approx. kg | 40 | 65 | 110 | 240 (250)* |

** Rope supplied loose as a coil

More capacities and options on request.



PHW 310-E



PHW-Series

The standard build PHW type winch provides the basis of the solution to many pulling and lifting winch applications. The winch is constructed in the conventional manner with motor, gearbox and drum in line. When it comes to the need of a shorter design the PHW winch is available with a angular gearbox. The choice of the rope complies with the pulling force in the 5th rope layer. The drum is build according classification 1Am. The drum diameter is at least 16-times bigger than the diameter of the indicated rope diameter. Although the name of this winch indicates different, these winches are very suitable to fit to your specific winch application and can be equipped with different drums, other gearboxes or motors. Many options can be offered on these highly versatile winches. The standard version comes without a rope and control.

Standard winch features:

- Heavy duty planetary gearbox
- PHW-E; IP 54 aluminium braked motor 400 VAC/3 phase/50 Hz
- PHW-H; orbit or radial piston type hydraulic motor complete with brake valve
- PHW-LPR; radial piston type air motor complete with hand control valve and mufflers
- PHW-LG; gear type air motor complete with hand or remote control valve and mufflers
- Steel drum with cable fixing point at flange
- Two drum supports
- Double layer 2 component conversation, colour RAL 5010

Available winch options

- IP 56 TENV cast iron motor for marine applications
- Alternative drum dimensions / split drums /additional rope anchors /etc.
- Explosion proof motors
- Protective steel motor cover
- Drum pressure roller, spooling gears, grooved drums
- Band brakes (manual or failsafe automatic)
- Manual disengaging clutch
- Alternative speeds
- Alternative supply voltages
- Drum guards
- Manual emergency crank
- Slip ring mounting
- Warping head
- Angular gear

Available control options

- Control box IP 55 with pushbuttons and emergency stop
- Control box IP 55 with low voltage IP 65 remote control
- Load limiter (required by CE for applications exceeding 1000 kg W.L.L.)
- Frequency inverter for variable speed control
- Wireless radio remote control systems
- Limit switches (electric, pneumatic)
- Slack wire switches (electric, pneumatic)
- Proportional local or remote control valve (pneumatic or hydraulic)
- Motor overheating protection

Electric rope winch PHW-E

| TYPE | Max. Hubkraft 1. Seillage kg | Max. Hubkraft 5. Seillage kg | Empfohlener Seildurchmesser mm | Geschwindigkeit 1. Seillage m/min | Geschwindigkeit 5. Seillage m/min | Seilaufnahme 1. Seillage m | Seilaufnahme 5. Seillage m | Motor- leistung kW | Order No. |
|-----------|------------------------------------|------------------------------------|--------------------------------------|---|---|----------------------------------|----------------------------------|--------------------------|-----------|
| PHW 300-E | 1250 | 875 | 9 | 8.5 | 12.5 | 24 | 155 | 2.2 | H50091 |
| PHW 301-E | 2000 | 1400 | 11 | 8.5 | 12.5 | 24 | 155 | 3 | H50092 |
| PHW 304-E | 3000 | 2100 | 14 | 8.5 | 12.5 | 24 | 155 | 5.5 | H50175 |
| PHW 305-E | 4000 | 2800 | 16 | 8 | 11.5 | 24 | 155 | 5.5 | H50071 |
| PHW 306-E | 5500 | 3800 | 19 | 8 | 11.5 | 24 | 155 | 7.5 | H50072 |
| PHW 307-E | 7000 | 4900 | 22 | 8 | 11.5 | 24 | 155 | 11 | H50073 |
| PHW 309-E | 9000 | 6300 | 24 | 10 | 14 | 24 | 155 | 15 | H50074 |
| PHW 310-E | 12000 | 8400 | 28 | 8 | 11.5 | 24 | 155 | 18.5 | H50093 |
| PHW 311-E | 15000 | 10400 | 32 | 7.5 | 11 | 23 | 154 | 22 | H50075 |
| PHW 313-E | 18000 | 12400 | 34 | 6 | 9 | 22 | 153 | 22 | H50076 |
| PHW 314-E | 23000 | 16000 | 38 | 6 | 9 | 22 | 153 | 30 | H50177 |
| PHW 315-E | 30000 | 20400 | 44 | 6 | 9 | 20 | 145 | 30 | H50094 |
| PHW 316-E | 37000 | 24500 | 48 | 6 | 9 | 18 | 137 | 45 | H50095 |

TYPE PHW-Series pneumatic

| TYPE | Max. capacity 1st layer kg | Max. capacity 5th layer kg | Recomm. rope diam. mm | Rope speed 1st layer m/min. | Rope speed 5th layer m/min. | Drum storage 1st layer m | Drum storage 5th layer m | Air pressure drop in bar | Air flow in l/min. | Order No. |
|--------------|----------------------------------|----------------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------|--------------|
| PHW 300-LPR2 | 1200 | 845 | 10 | 11 | 16 | 26 | 168 | 7 | 90 | H50119 |
| PHW 301-LPR2 | 2100 | 1435 | 12 | 7 | 10 | 24 | 157 | 7 | 90 | H50121 |
| PHW 303-LPR2 | 2500 | 1740 | 14 | 6 | 9 | 26 | 165 | 7 | 90 | H50084 |
| PHW 303-LPR3 | 2500 | 1740 | 14 | 12 | 17 | 26 | 165 | 7 | 140 | H50122 |
| PHW 305-LPR3 | 4000 | 2770 | 16 | 9 | 13 | 25 | 161 | 7 | 150 | H50085 |
| PHW 305-LPR4 | 4000 | 2770 | 16 | 15 | 21 | 25 | 161 | 7 | 240 | H50123 |
| PHW 306-LPR4 | 5500 | 3970 | 18 | 10 | 14 | 28 | 181 | 7 | 240 | H50086 |
| PHW 307-LPR4 | 7000 | 4960 | 22 | 8 | 11 | 26 | 171 | 7 | 240 | H50087 |
| PHW 307-LG6 | 7000 | 4960 | 22 | 13 | 18 | 26 | 171 | 7 | 350 | H50124 |
| PHW 309-LPR4 | 9000 | 6285 | 26 | 6 | 9 | 24 | 163 | 7 | 220 | H50125 |
| PHW 309-LG6 | 9000 | 6285 | 26 | 10 | 14 | 24 | 163 | 7 | 350 | H50088 |
| PHW 310-LG6 | 12000 | 8460 | 28 | 7 | 10 | 24 | 168 | 7 | 350 | H50126 |
| PHW 311-LG6 | 16000 | 10655 | 34 | 5 | 7.5 | 19 | 144 | 7 | 350 | H50089 |
| PHW 313-LG6 | 20000 | 13610 | 38 | 4 | 6 | 19 | 151 | 7 | 350 | H50090 |

TYPE PHW-Series hydraulic

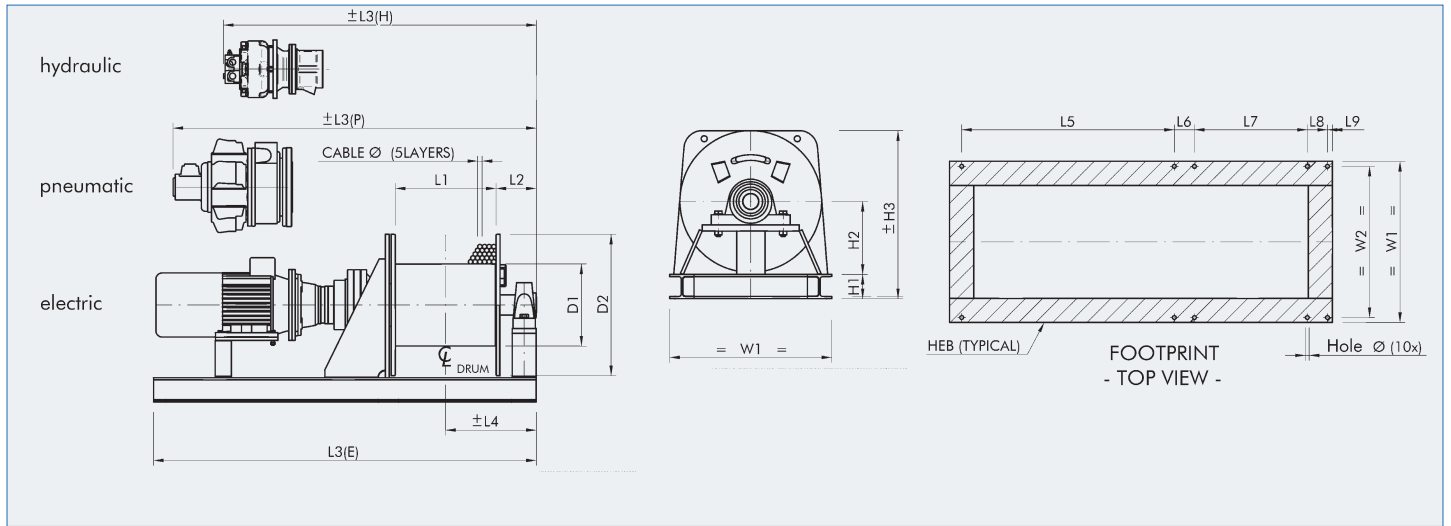
| TYPE | Max. capacity 1st layer kg | Max. capacity 5th layer kg | Recomm. rope diam. mm | Rope speed 1st layer m/min. | Rope speed 5th layer m/min. | Drum storage 1st layer m | Drum storage 5th layer m | Oil pressure drop in bar | Oil flow in l/min. | Order No. |
|-----------|----------------------------------|----------------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------|--------------|
| PHW 303-H | 2500 | 1740 | 14 | 18 | 26 | 26 | 165 | 140 | 60 | H50077 |
| PHW 305-H | 4000 | 2770 | 16 | 18 | 26 | 25 | 161 | 160 | 80 | H50078 |
| PHW 306-H | 5500 | 3970 | 18 | 25 | 35 | 28 | 181 | 225 | 95 | H50079 |
| PHW 307-H | 7000 | 4960 | 22 | 20 | 28 | 26 | 171 | 230 | 100 | H50080 |
| PHW 309-H | 9000 | 6285 | 26 | 13 | 18 | 24 | 163 | 190 | 100 | H50081 |
| PHW 310-H | 12000 | 8460 | 28 | 11 | 16 | 24 | 168 | 230 | 95 | H50096 |
| PHW 311-H | 16000 | 10655 | 34 | 10 | 15 | 19 | 144 | 230 | 110 | H50082 |
| PHW 313-H | 20000 | 13610 | 38 | 8 | 12 | 19 | 151 | 210 | 120 | H50083 |
| PHW 315-H | 30500 | 20800 | 44 | 8 | 12 | 19 | 151 | 235 | 165 | H50097 |
| PHW 316-H | 37000 | 24570 | 48 | 6 | 9 | 17 | 141 | 225 | 160 | H50098 |

Options

| TYPE | Grooved drum | Cable tensioning device with scored cable drum | Longer cable drum, up to 500 mm | Electric rope winch PHW-E | | |
|-------------------|-----------------|--|------------------------------------|---------------------------|------------|---|
| | | | | 3-layer paint coating* | Drum cover | Spindle limit switch (as an operating limit switch) |
| PHW 300 Order No. | H50206 | H50208 | H50231 | H50450 | H50454 | H50210 |
| PHW 301 Order No. | H50207 | H50209 | H50232 | H50450 | H50454 | H50210 |
| PHW 303 Order No. | H50219 | H50217 | H50212 | H50450 | H50454 | H50210 |
| PHW 305 Order No. | H50219 | H50217 | H50238 | H50450 | H50454 | H50210 |
| PHW 306 Order No. | H50220 | H50217 | H50213 | H50451 | H50455 | H50210 |
| PHW 307 Order No. | H50220 | H50218 | H50239 | H50451 | H50455 | H50210 |
| PHW 309 Order No. | H50221 | H50218 | H50214 | H50452 | H50456 | H50210 |
| PHW 310 Order No. | H50222 | H50218 | H50215 | H50452 | H50456 | H50210 |
| PHW 311 Order No. | H50222 | H50218 | H50247 | H50452 | H50456 | H50210 |
| PHW 313 Order No. | H50223 | H50392 | H50216 | H50452 | H50456 | H50210 |
| PHW 315 Order No. | H50390 | H50233 | H50393 | H50453 | H50457 | H50210 |
| PHW 316 Order No. | H50391 | H50233 | H50394 | H50453 | H50457 | H50210 |

We can offer an adapted control for the PHW winches according to your directions!

* Acc. ISO 12944 C4 (high) – System C5-M-Marine (very high), quoted price x 2 according to your directions!



| TYPE | Weight kg | Dimensions (mm) | | | | | | | | | | | | | | | | | | |
|----------------|--------------|-----------------|------|-----|-----|-------|-------|-------|-----|-----|-----|-----|----|-----|-----|------|------|------|-----|--------|
| | | D1 | D2 | L1 | L2 | L3(E) | L3(H) | L3(L) | L4 | L6 | L7 | L8 | L9 | H1 | H2 | H3 | W1 | W2 | HEB | Hole-Ø |
| PHW 300 | 250 | 152 | 325 | 500 | 135 | 1450 | - | 1450 | 385 | 80 | 540 | 80 | 20 | 100 | 215 | 520 | 500 | 460 | 100 | 14 |
| PHW 301 | 250 | 191 | 375 | 500 | 155 | 1450 | - | 1450 | 405 | 80 | 540 | 80 | 20 | 100 | 215 | 520 | 500 | 460 | 100 | 14 |
| PHW 304 | 400 | 241 | 430 | 500 | 155 | 1600 | 1350 | 1650 | 405 | 80 | 550 | 80 | 20 | 100 | 260 | 610 | 600 | 560 | 100 | 14 |
| PHW 305 | 400 | 273 | 490 | 500 | 155 | 1650 | 1350 | 1800 | 405 | 80 | 550 | 80 | 20 | 100 | 260 | 610 | 600 | 560 | 100 | 14 |
| PHW 306 | 510 | 324 | 580 | 500 | 165 | 1800 | 1450 | 1850 | 415 | 80 | 560 | 80 | 20 | 100 | 310 | 710 | 700 | 660 | 100 | 18 |
| PHW 307 | 790 | 394 | 680 | 500 | 200 | 1950 | 1550 | 1900 | 450 | 100 | 560 | 100 | 25 | 120 | 360 | 830 | 800 | 750 | 120 | 20 |
| PHW 309 | 1100 | 419 | 730 | 500 | 230 | 2000 | 1550 | 1900 | 480 | 110 | 560 | 110 | 30 | 140 | 435 | 1000 | 1000 | 940 | 140 | 22 |
| PHW 310 | 1420 | 495 | 860 | 500 | 235 | 2100 | 1600 | 1950 | 485 | 120 | 590 | 120 | 40 | 160 | 460 | 1070 | 1100 | 1040 | 160 | 26 |
| PHW 311 | 1740 | 546 | 960 | 500 | 259 | 2150 | 1600 | 1950 | 509 | 120 | 590 | 120 | 40 | 160 | 510 | 1170 | 1150 | 1090 | 160 | 30 |
| PHW 313 | 2320 | 572 | 1020 | 500 | 260 | 2150 | 1700 | 1950 | 510 | 120 | 590 | 120 | 40 | 180 | 585 | 1340 | 1350 | 1280 | 180 | 32 |
| PHW 315 | 3400 | 711 | 1350 | 500 | 299 | 2600 | 2050 | - | 549 | 140 | 590 | 140 | 40 | 200 | 685 | 1560 | 1550 | 1470 | 200 | 36 |
| PHW 316 | 2900 | 711 | 1400 | 500 | 299 | 2650 | 2100 | - | 549 | 140 | 590 | 140 | 40 | 200 | 710 | 1610 | 1600 | 1520 | 200 | 36 |





PLANETA
winches are
unique.

Individual
and for the
toughest use
designed.



SB-E 306 as a surveying winch with 1,800 m data cable



MC-E 2200 as a hoist winch for lane milling on ski jumps



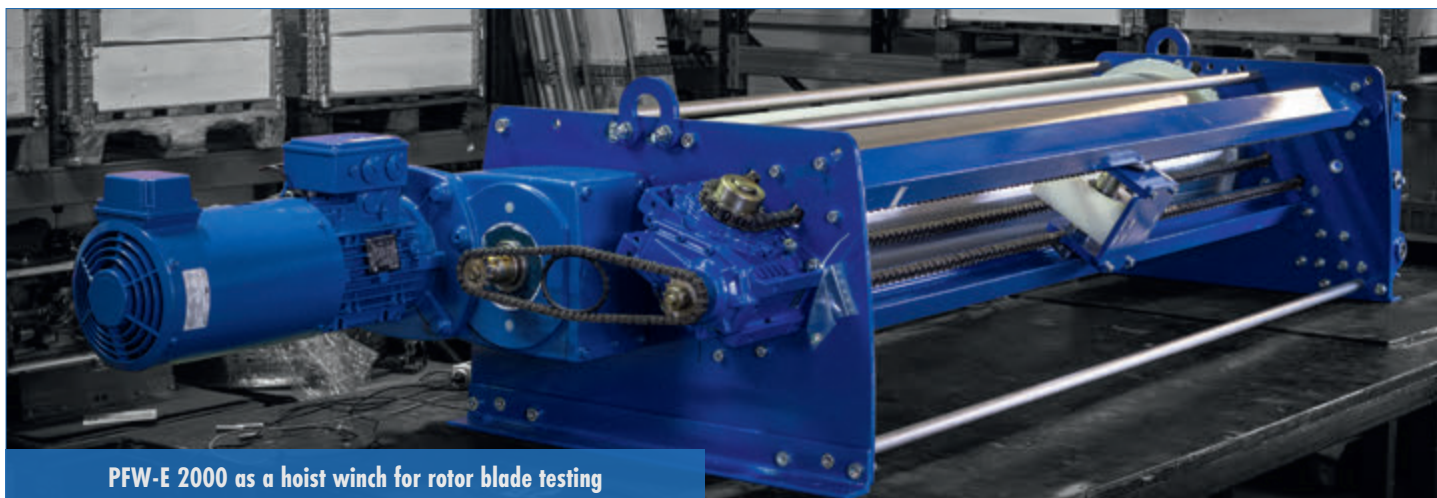
SB-E 304 as a traversing winch for a water treatment plant



PFW-E 1000 as a pulling winch for railway carriages



PFW-E 1000 as a double winch block for a test bench



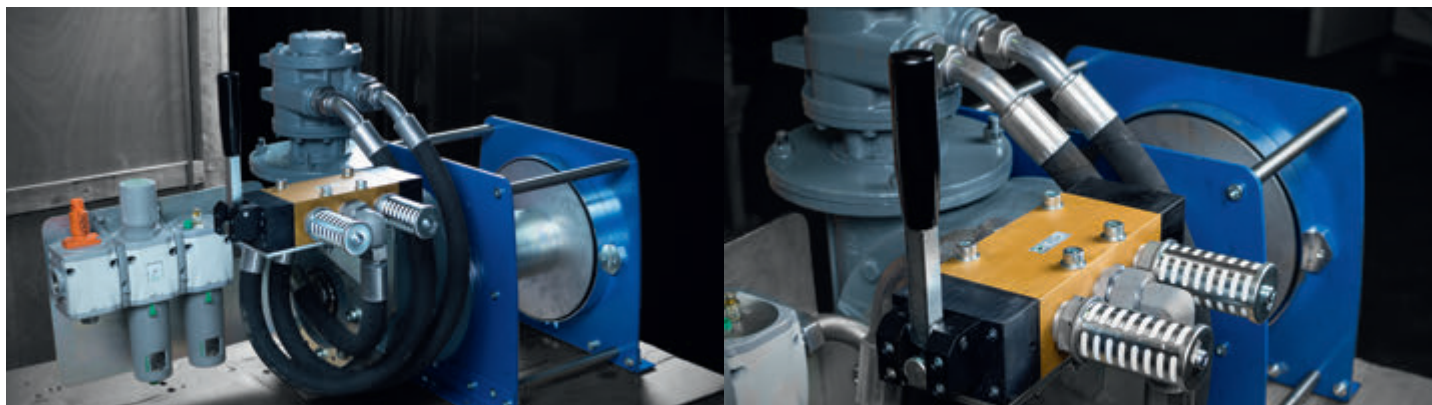
PFW-E 2000 as a hoist winch for rotor blade testing



PFW-E 1000 as the drive of an inclined elevator



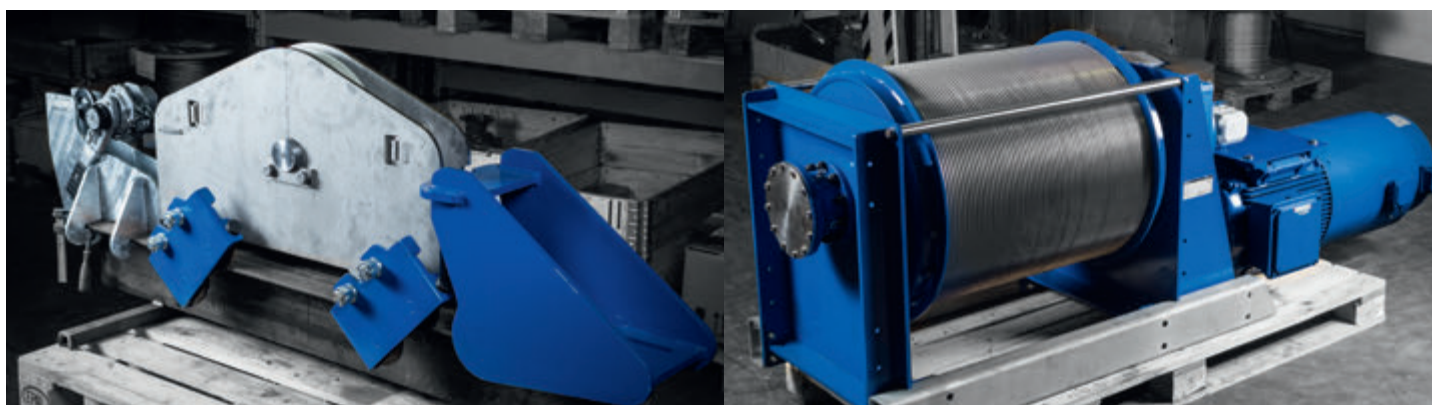
PHW-E 305 as a traversing winch on a wagon filling station



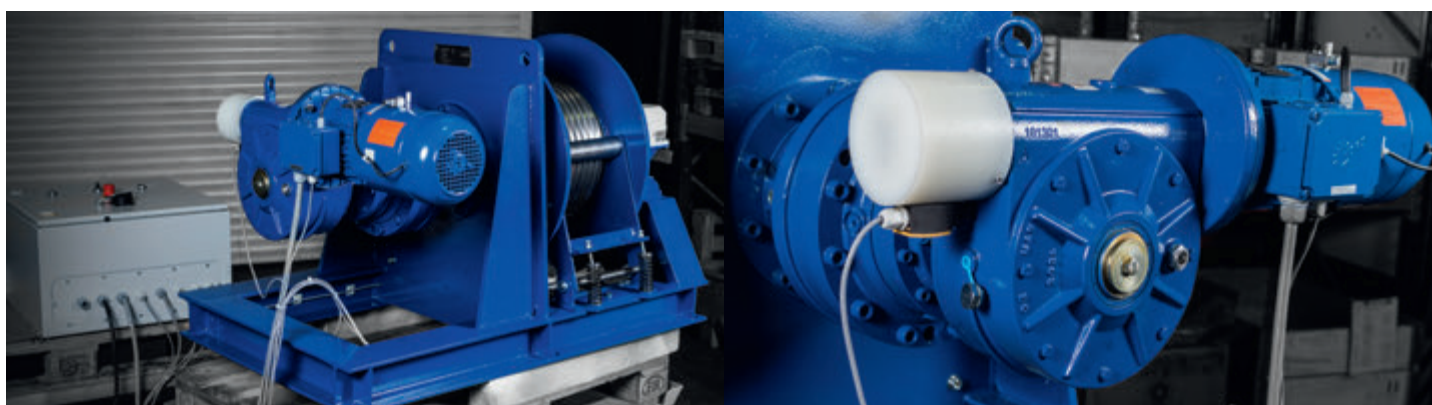
PFW-L 1500 V12 as a pulling winch for the steel industry



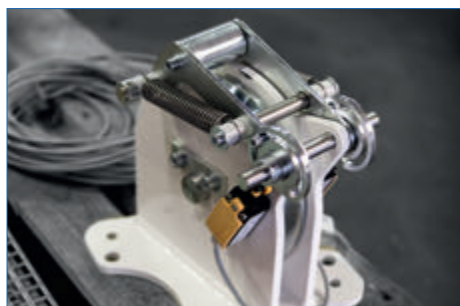
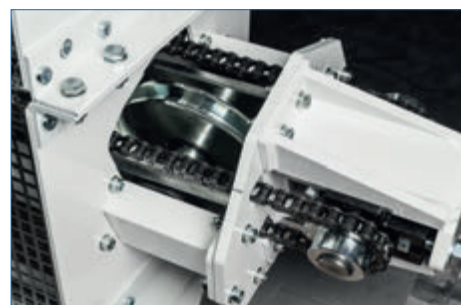
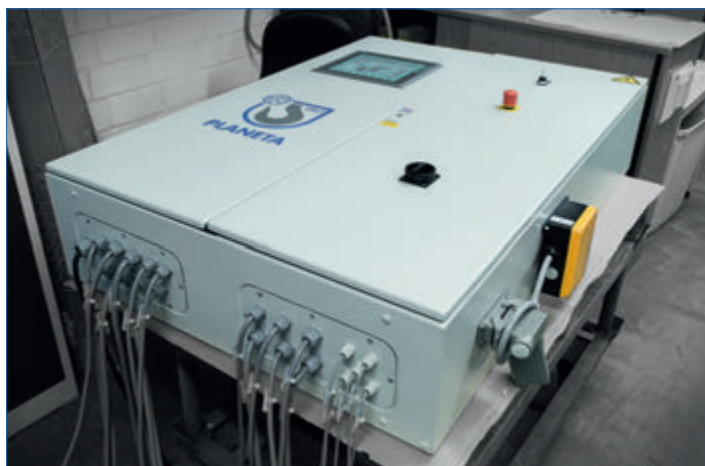
PKW-E 1500 V04 as a hatch opener on a cruise ship



SK-E 07 as a traversing winch and deflection roller block for an endurance test bench for cable entries on port cranes



PHW-E 307 as a hoist / traversing winch for regulating the flow rate at a dam



Complete group drive system in accordance with BGV-C1 including installation and commissioning.
Consisting of five rope winches and spool winders, synchronous control, programmable via touch panel for a shopping centre in Macau



PFW-E 3000 as a mobile pulling winch for railway maintenance



SB-E 309 as a slipway winch for sports boats



SB-E307 as a mobile rope hoist



SB-E 316 as a hoist winch for a pump line

PLANETA HEAVY LIFTING

Manuelle Hebezeuge:

bis 50 Tonnen

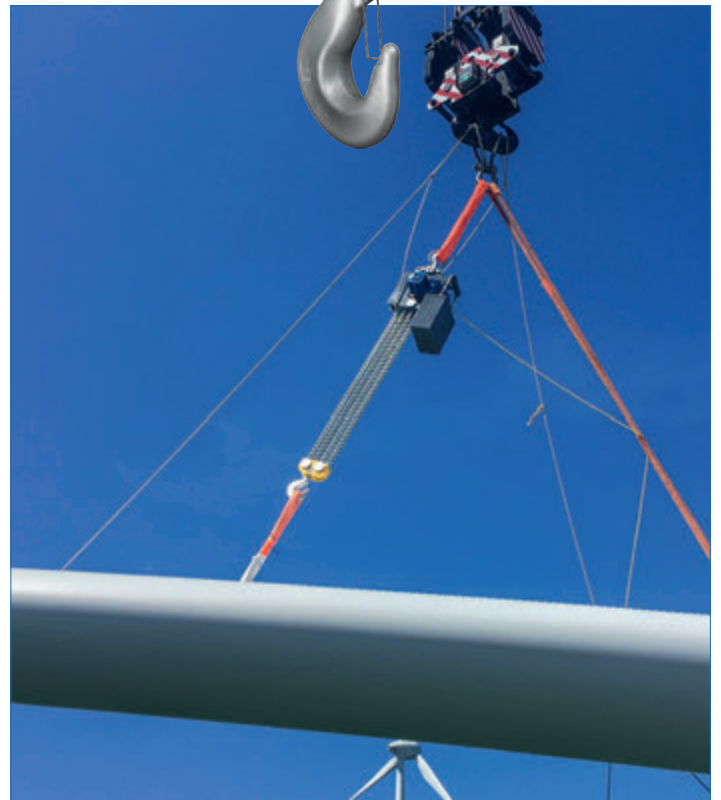
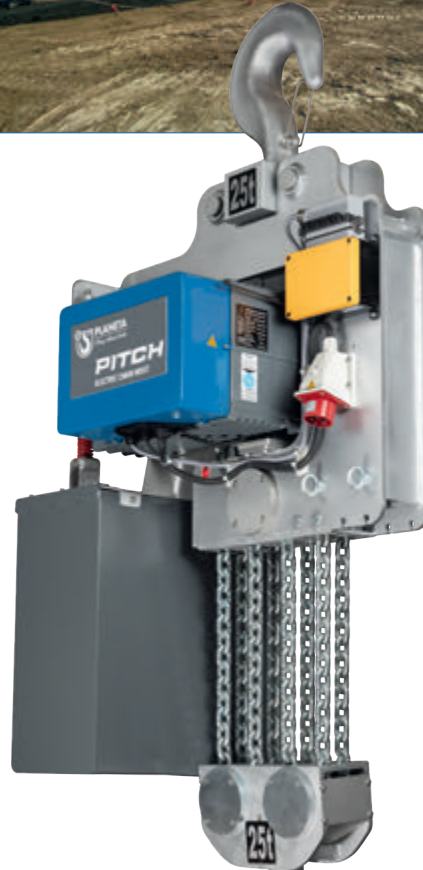
Für schwierige Umgebungen bieten wir spezielle Produkte an, die so konstruiert und gebaut sind, dass sie den Belastungen standhalten, denen sie ausgesetzt sind: Salz, Chemikalien, Staub, Hitze, Kälte, Feuchtigkeit. Wir sorgen dafür, dass unsere Lösung sicher und voll funktionsfähig bleibt und die erwartete Lebensdauer erfüllt. Dies kann die Verwendung spezieller Materialien wie Duplexstahl oder Edelstahl oder einen zusätzlichen Oberflächenschutz durch Beschichtung oder chemische Verfahren beinhalten.

Elektrische Hebezeuge:

bis 37 Tonnen

Im Grunde haben wir für alle Anforderungen eine Lösung.

Schwere Umgebungsbedingungen können auch bedeuten, dass wir den Arbeitsbereich für den Einsatz des Hebezeugs schützen müssen. So erfordern z. B. die Lebensmittelindustrie, die pharmazeutische Industrie, LCD-Panels oder die Halbleiterindustrie besondere Maßnahmen, um eine Verunreinigung der Produkte zu vermeiden.





CRANE SYSTEMS



PLANETA-EMXKB system

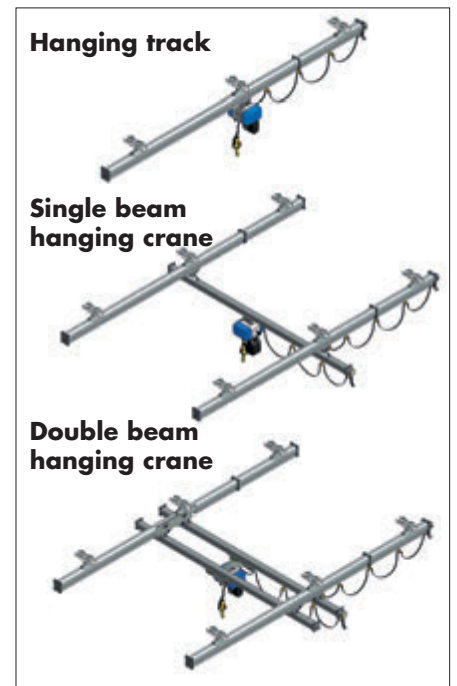
The flexible modular small crane system offers you an ideal solution for open hall transportation of your goods. Solid hollow profiles in four different sizes guarantee light, nearly frictionless movement. Rolling devices featuring lateral guide rollers prevent all tilting. The profiles are produced in the rolling process and enable low-noise transport of loads up to 1,600 kg. Especially high strength properties enables clamping widths of up to 7.5 m. Standard profiles enable any hanging tracks and hanging cranes to be planned and implemented. Together with PLANETA electric chain hoists (pages 32 – 35), three-dimensional movement of your goods becomes child's play.

Choose a single or double beam hanging crane according to your needs. Goods may be moved across all surfaces using both crane systems.

For line transportation, these are operated best of all using a hanging track. Flexibly combinable EMXKB profiles ensure that your system can be expanded or converted at any time.

A sophisticated hanging concept enables simple assembly of the crane system tailored to your existing ceiling and supporting structure.

Loads may be transported manually or electrically.



Optimal profile size

The following table is used for determining the optimal profile size, which depends on the load, P, and the clamping width, W.

The calculations in the tables below are based on a permissible deflection of W/400.

The crane systems are classified according to EN 13001: HC4; U2-U3; Q0-Q4; S0-S2 and in accordance with EN 15018: H2/H3; B3/B4.

| Capacity kg | EMXKB I span (m) | | | | | | | | EMXKB II span (m) | | | | | | | | Capacity kg |
|-------------|------------------|-----|---------|-----|---------|-----|---------|-----|-------------------|-----|---------|-----|---------|-----|---------|-----|-------------|
| | ▽ | ▽ | INP 120 | | INP 160 | | INP 180 | | ▽ | ▽ | INP 120 | | INP 160 | | INP 180 | | |
| 80 | 5.1 | 6.3 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.6 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 80 |
| 100 | 4.8 | 6.0 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.2 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 100 |
| 125 | 4.5 | 5.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 6.9 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 125 |
| 160 | 4.1 | 5.4 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 6.4 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 160 |
| 200 | 3.8 | 5.0 | 7.6 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 6.0 | 7.4 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 200 |
| 250 | 3.5 | 4.7 | 7.2 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 5.6 | 7.1 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 250 |
| 320 | 3.1 | 4.3 | 6.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 5.1 | 6.6 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 320 |
| 400 | 2.8 | 3.9 | 6.3 | 7.7 | 7.7 | 7.8 | 7.8 | 7.8 | 4.7 | 6.1 | 7.5 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 400 |
| 500 | 2.6 | 3.6 | 5.8 | 7.3 | 7.3 | 7.8 | 7.8 | 7.8 | 4.3 | 5.7 | 7.0 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 500 |
| 630 | 2.2 | 3.2 | 5.0 | 6.8 | 6.5 | 7.8 | 7.3 | 7.8 | 3.8 | 5.2 | 6.4 | 7.8 | 7.8 | 7.8 | 7.3 | 7.8 | 630 |
| 800 | 1.6 | 2.9 | 4.0 | 6.3 | 5.0 | 7.8 | 5.7 | 7.8 | 2.9 | 4.7 | 5.1 | 7.5 | 6.2 | 7.8 | 6.9 | 7.8 | 800 |
| 1,000 | - | 2.6 | - | 5.8 | - | 7.3 | - | 7.8 | 2.8 | 4.3 | 5.4 | 7.0 | 6.7 | 7.8 | 7.3 | 7.8 | 1,000 |
| 1,250 | - | 2.3 | - | 5.3 | - | 6.7 | - | 7.4 | 2.3 | 3.9 | 4.1 | 6.5 | 5.2 | 7.8 | 5.6 | 7.8 | 1,250 |
| 1,600 | - | 1.7 | - | 3.9 | - | 5.2 | - | 5.8 | 1.7 | 3.4 | 3.0 | 5.9 | 3.7 | 7.3 | 4.2 | 7.8 | 1,600 |

Single crane beam Double crane beam ▽ ▽ = without reinforcement ▽ ▽ ▽ = with reinforcement

Single beam hanging crane with clamping width W (m)

| Capacity (kg) | EMXKB III ▽ ▽ | EMXKB IV ▽ ▽ |
|---------------|---------------|--------------|
| 80 | 10.2 | 11.8 |
| 100 | 9.8 | 11.8 |
| 125 | 9.4 | 11.8 |
| 160 | 9.0 | 11.8 |
| 200 | 8.5 | 11.2 |
| 250 | 8.0 | 10.7 |
| 320 | 7.3 | 10.0 |
| 400 | 6.8 | 9.4 |
| 500 | 6.2 | 8.7 |
| 630 | 5.6 | 7.9 |
| 800 | 4.1 | 5.8 |
| 1,000 | 4.6 | 6.5 |
| 1,250 | 3.5 | 4.9 |
| 1,600 | 2.4 | 3.4 |
| 2,000 | - | - |

Double beam hanging crane with clamping width W (m)

| Capacity (kg) | EMXKB III ▽ ▽ | EMXKB IV ▽ ▽ |
|---------------|---------------|--------------|
| 80 | 11.3 | 11.8 |
| 100 | 11.1 | 11.8 |
| 125 | 10.8 | 11.8 |
| 160 | 10.5 | 11.8 |
| 200 | 10.1 | 11.8 |
| 250 | 9.7 | 11.8 |
| 320 | 9.2 | 11.8 |
| 400 | 8.6 | 11.4 |
| 500 | 8.1 | 10.9 |
| 630 | 7.4 | 10.1 |
| 800 | 6.8 | 9.4 |
| 1,000 | 6.3 | 8.7 |
| 1,250 | 5.7 | 8.0 |
| 1,600 | 5.1 | 7.2 |
| 2,000 | 4.6 | 6.6 |

Hanging fixtures

Short, rigid (fig. 4)

- The rigid hanging fixture is available as a short model
- Small structural dimensions

Short, swinging and adjustable (fig. 1)

- Ball pins and ball nut screw-fastened directly together
- Swinging movement of max. 10°
- Height adjustable ± 7.5 mm

Distanced, swinging and adjustable (fig. 2)

- Hanging distance, variable length
- Height differences adjustable by ± 15 mm

Distanced, swinging, adjustable, anchored (fig. 3)

- > 0.5 m distance: Anchoring required
- Lengthwise anchoring: both track ends
- Cross-wise anchoring: one-sided, every 2nd hanging fixture

Lateral hanging fixture

- Lateral assembly on wooden or concrete beam

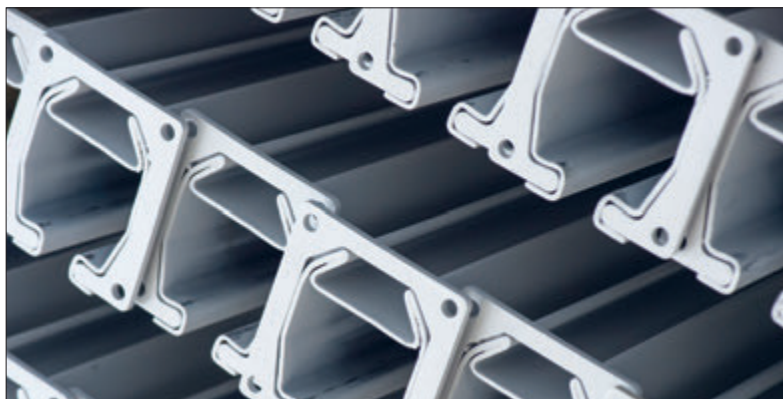


Fig. 4



Fig. 1



Fig. 2



Fig. 3

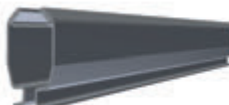
Steel profiles

EMXKB 1 + 2

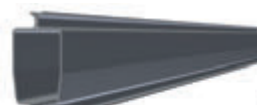
Maximum profile length of 8 m
 EMXKB 1: max. 800 kg capacity
 EMXKB 2: max. 1,600 kg capacity



EMXKB 1



EMXKB 2



EMXKB 3



EMXKB 4

EMXKB 3 + 4

Maximum profile length of 12 m
 EMXKB 3: max. 2,000 kg capacity
 EMXKB 4: max. 2,000 kg capacity

Trolleys

- Galvanised steel structure
- Use for lengthwise and cross-wise travel ensured
- Load distribution ensured by 2 trolleys
- 4 trolleys in use for the yoke of the double crane support
- Drive: manual or electrical

Your benefits:

- Maximum running silence thanks to plastic rollers
- Ideal for tricky, critical loads
- Convertible from manual to electrical
- Gentle start-up and braking thanks to frequency inverter



Trolley, capable of curving



Rolling device with tilt protection



Rail drive, infinitely mobile



Electric drive



4 trolleys with yoke



Long curve

Short curve

Curves and deflectors

Curves

- Available with 30° and 45° angles
- Radius: 1 m
- End plate on both ends
- Hanging fixture on 2 points
- Conductor rail curve available in identical angles as the profile curve



Sliding deflectors
Connection between individual lines



Spider
90° direction change

Sliding deflectors/spiders

- Manual or electrical movement of profiles
- Manually: via pull cable
- Electrically: via 2-button control switch
- Hanging fixture on 2 points
- Optional: Delivery including conductor rails



Trailing cable



Conventional conductor rail

Electrics

Power types

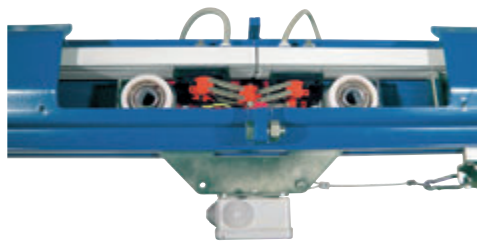
- 3-phase, 380/400 V 50 Hz
- or tailored to your company's electrical system

EMXKB complete power supplies

- Cable trolley, travel limiter, connector, rail stopper, ...
- ... and around 30 additional elements

4 types of length and power supply

- Trailing cable
- C-rail
- Conventional conductor rail
- Profile-interior conductor rail



The elegant solution

EMXKB II ST interior power rail

- Flexible, universal
- Attractive design
- Universally usable
- Load 25 A at max. 100 m profile length

Example

Including ceiling attachments, power supply and PEH-O electric hoist, trailing cable, 3 m lift (without assembly).

| Hanging track | | |
|---------------|----|--------|
| Capacity | kg | 500 |
| Length | m | 8 |
| Order No. | | J00190 |

| Single beam hanging crane | | |
|---------------------------|----|--------|
| Capacity | kg | 500 |
| Length | m | 8 |
| Width | m | 6 |
| Order No. | | J00191 |

| Double beam hanging crane | | |
|---------------------------|----|--------|
| Capacity | kg | 1000 |
| Length | m | 7 |
| Width | m | 6 |
| Order No. | | J00192 |

**Customer data**

Company: Date:
 Street: Client number:
 Zip code: Phone:
 Location: Fax:
 Contact person: Position:

KB crane system

Single beam hanging crane Double beam hanging crane Hanging track

Capacity: kg
 Beam length B: mm Track length T: mm
 Span W: mm Room height: mm
 Required lifting height: mm *Sketch: see right side*

Hanging fixture

Hanging type: Short, swinging Distanced, swinging: mm Rigid
 Ceiling construction: Concrete ceiling Steel beam Wooden truss
 Hanging gap: variabel actual: mm

Movements

Trolley movement (diagonal): manual electrically
 1 speed 2 speeds m/min
 Crane movement (longitudinal): manual electrically
 1 speed 2 speeds m/min

Hoist

Electric chain hoist Manual chain hoist
 Type: Capacity: kg
 Lifting speed: 1 speed 2 speeds m/min
 Lift (standard 3 m):m Period of use/day hours

Control / electric

Control: Operating the electric hoist's control switch
 Ideal control (control switches can be pushed independently)
 Power type: 3-phase 400V, 50Hz 1-phase 230V, 50Hz
 Longitudinal power supply: without Trailing cable C-rail
 Conductor rail
 Diagonal power supply: without Trailing cable C-rail
 Conductor rail

Crane location

Factory Outdoors Close to acids/bases

Installation

By PLANETA By the customer Forklift available on-site

Additional technical specifications/customer requests

.....

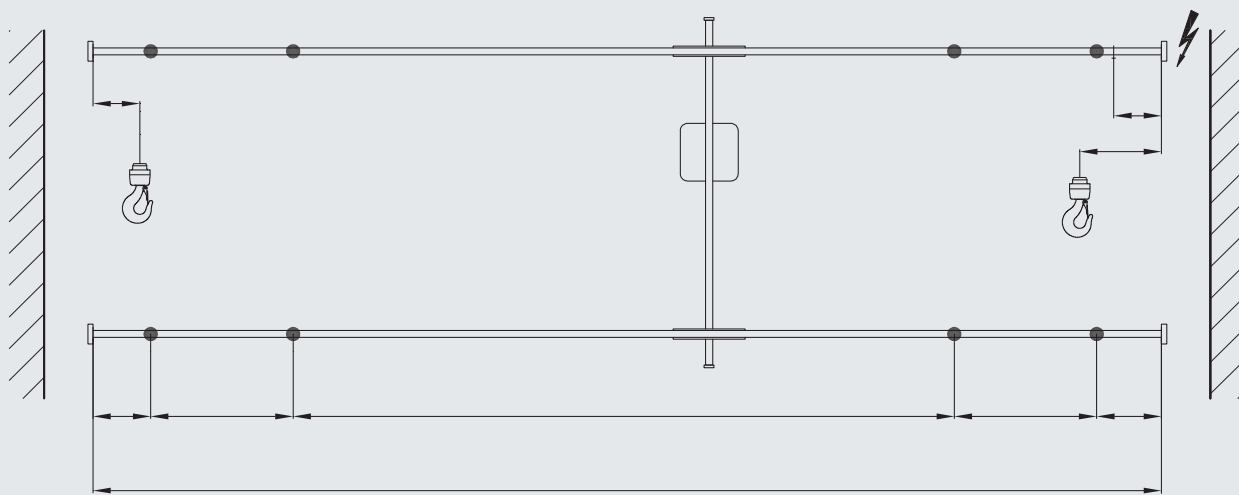
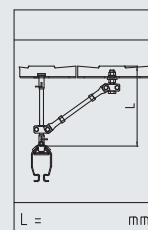
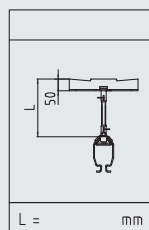
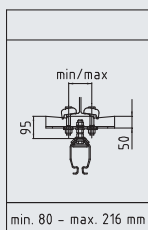
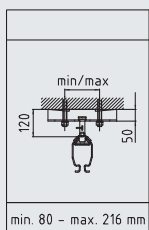
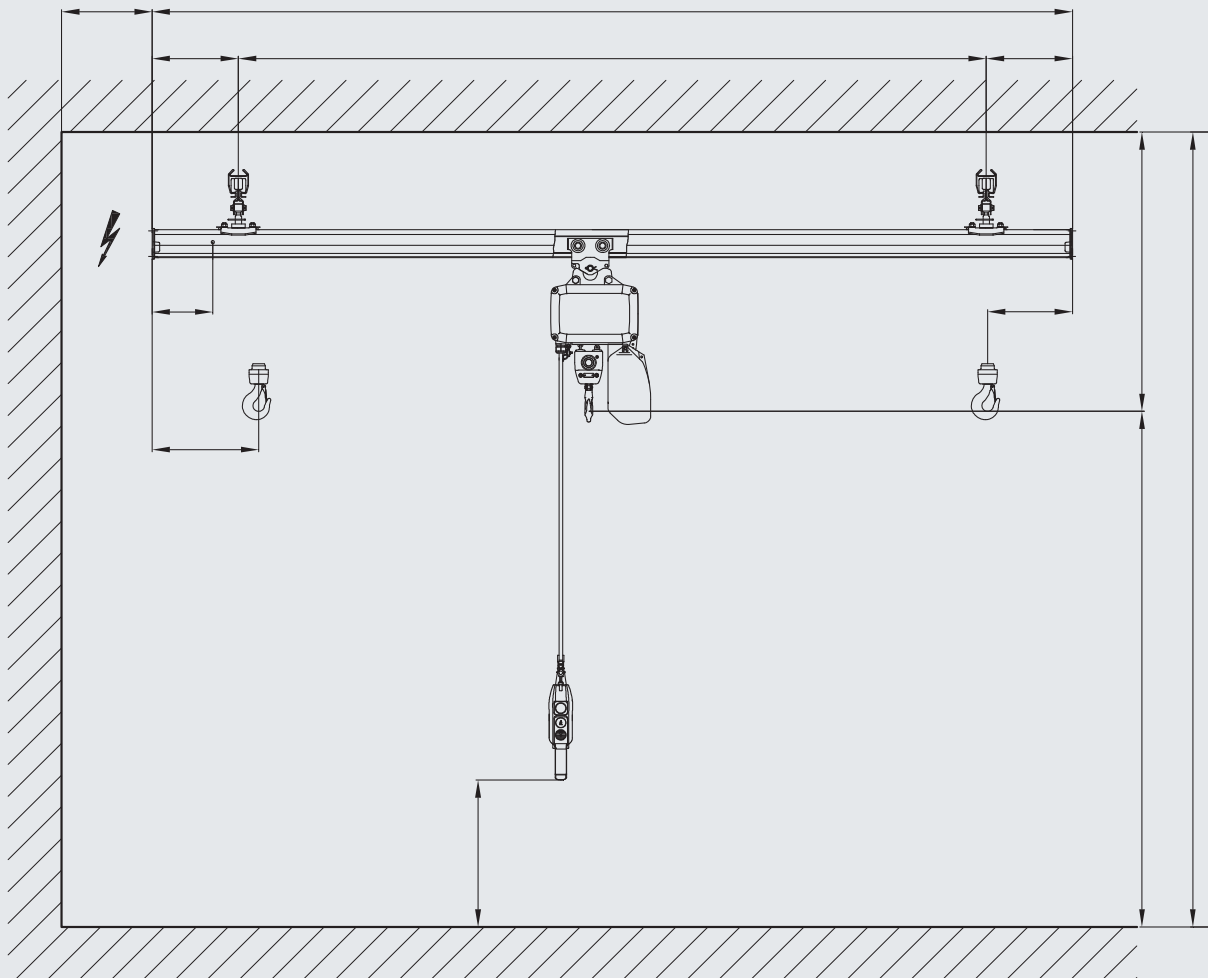
Requested quote

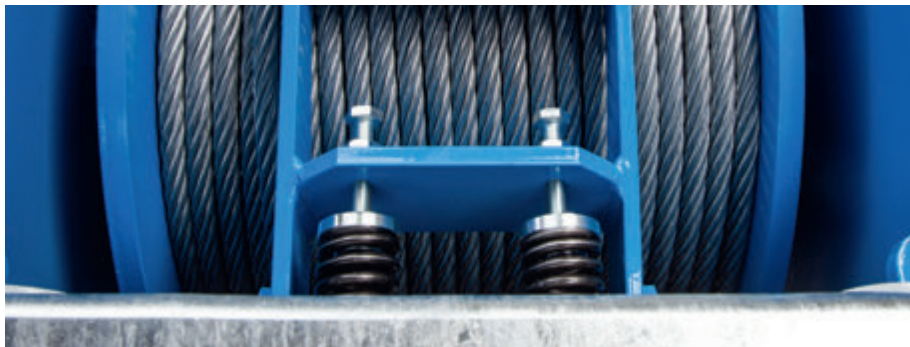
Quick quote Budget price Quote by by
 Detailed quote Time of implementation or delivery date.....

Attachments

Sketch Plot/draft version







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