PLANETA

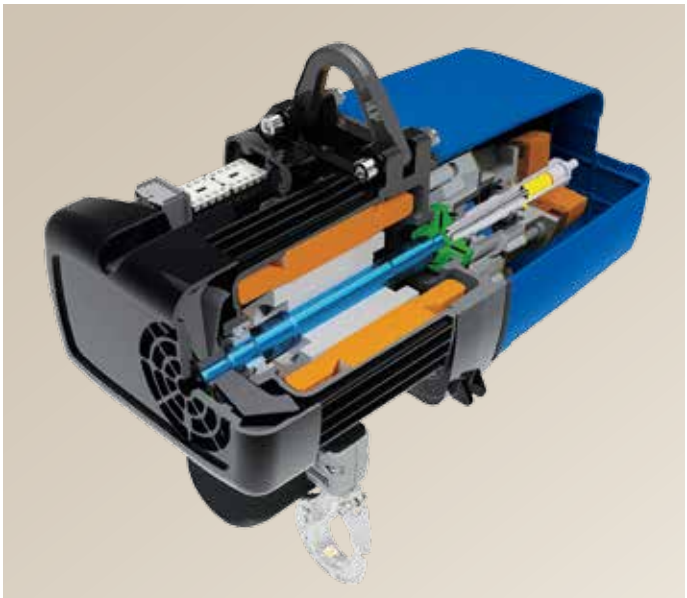
PLANETA
Electric Chain Hoist and Crane Rail System

PLANETA-PEH
ELECTRIC CHAIN HOIST

THE ENDURANCE HOIST -
Electric chain hoist PLANETA-PEH

The PEH is simple in its structure and does not contain any sensitive electronics, which minimises the risk of operational interruptions. It is characterised by quiet running and is made for longevity whilst working hard.

The ergonomic control switch with 42 V low voltage allows convenient and safe working. Maintenance is easy, quick and needs no special tools



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
- **BGV-D8Plus** model available
- UP-SIDE-DOWN model available
- One-handed operation with controls on hand grip

UP TO **60%** MORE CAPACITY.

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 phospha-ted profile steel chain provides about 15% more capacity at an identical nominal diameter compared to the round steel chain.

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.

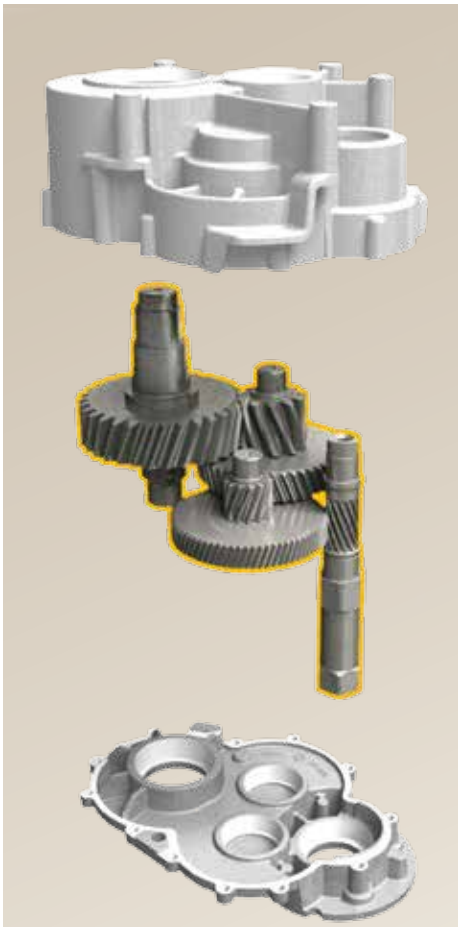
Protection class IP65

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.

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.

LOW SERVICE COSTS
THANKS TO MODULAR DESIGN



Transmission

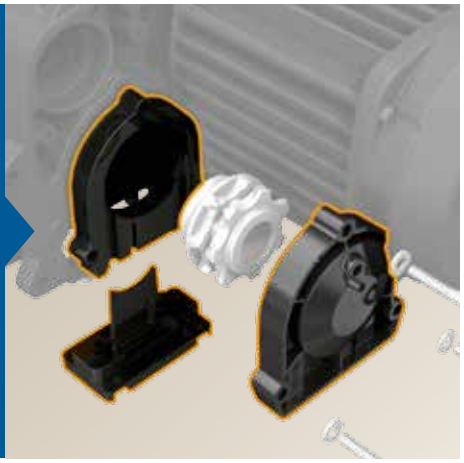
The 3-stage gear has helical gearing and lifetime permanent lubrication which provides smooth running and is maintenance free. Replacement is simple and clean, as the gearbox is self-contained and closed. The chain hoist can simply be converted to a different speed by changing the gear box.

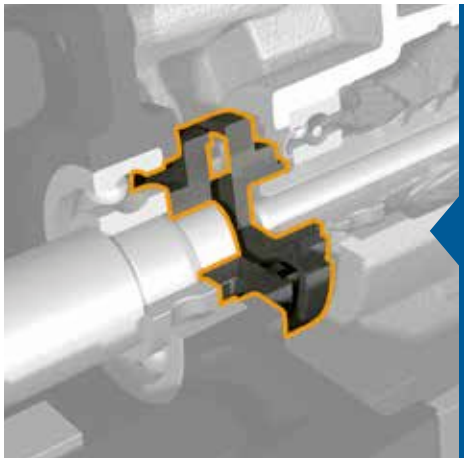
Spare parts

The modular design of the electric chain hoist means that wearing parts can quickly and easily be removed and replaced. This requires no special tools. We guarantee customers rapid availability of spare parts through our worldwide distribution partners.

Chain guidance

Chain and chain guidance are wearing parts, which must be regularly checked and replaced if necessary. The chain guidance is easily and laterally disassembled with a few movements without complete dismounting of the chain hoist. This results in considerable time savings.

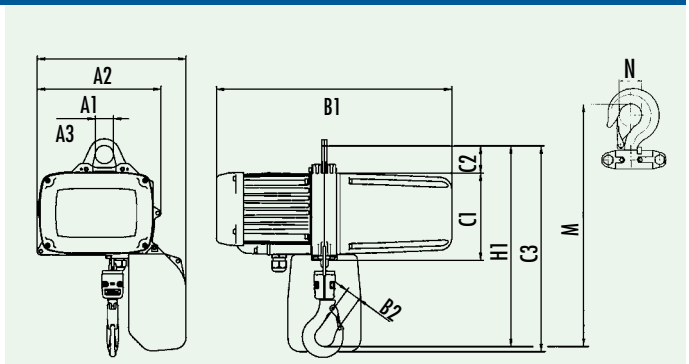




Slipping clutch

The slipping clutch serves as an overload protection and protects the motor and the crane system against overloading. It is located in front of the brake, outside the flow of forces and runs dry with very low maintenance. The slipping clutch is easily accessible and adjustable.

PLANETA-PEH
WITH CONTACTOR CONTROL



TYP (dimensions)	PEH 250/1	PEH 250/2	PEH 500/1	PEH 500/2
A1 mm	246	246	246	246
A2 mm	296	296	296	296
A3 mm	Ø 40	Ø 40	Ø 40	Ø 40
B1 mm	444	444	444	444
B2 mm	24	24	24	24
C1 mm	162	162	162	162
C2 mm	49	49	49	49
C3 mm	462	462	462	462
H1 mm	400	414	414	453
M mm	475	506	488	528
N mm	Ø 42	Ø 42	Ø 42	Ø 42

Equipment:

- Lifting capacity PEH: up to 1250 kg
- Lifting capacity GCH: up to 5000 kg
- 3 × 400 V / 50 Hz
- 42 V low voltage control
- 3 phase motor: 2 speeds
- 1 phase motor (1Ph): 1 speed
- Standard lifting height 3 m
- Control cable lenght 1,8 m
- Eyebolt suspension
- Geared limit switches
- Ergonomic control switch with emergency-stop
- Protection class IP65
- Isolation class F (motor)
- DC spring-loaded brake
- Slipping clutch not in the flow of forces

TYP	Capacities in kg acc. ISO (FEM)* M3 (1Bm)	M4 (1Am)	M5 (2m)	M6 (3m)	M7 (4m)	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
PEHM 250/1NF	–	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	–	–	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	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	–	160	125	100	–	16/4	1	3,75 x 10,75	0,72	2,8/1,7	24	0,34	**H21526**	**H21521**
PEH 250/1N	400	320	250	200	160	8	1	3,75 x 10,75	0,72	2,8	24	0,34	**H21528**	**H21521**
PEH 250/1N 1Ph	–	–	250	200 (M5)	160 (M5)	8	1	3,75 x 10,75	0,55	4,7 (1 x 230 V)	24	0,34	**H21530**	**H21521**
PEH 250/1NL 1Ph	–	–	250	200 (M5)	160 (M5)	4	1	3,75 x 10,75	0,55	4,7 (1 x 230 V)	24	0,34	**H21532**	**H21521**
PEH 250/2NF	–	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	–	630	500	400	320	4	2	3,75 x 10,75	0,72	2,8	25	0,34	**H21536**	**H21535**
PEH 250/2N 1Ph	–	–	500	400 (M5)	320 (M5)	4	2	3,75 x 10,75	0,55	4,7 (1 x 230 V)	25	0,34	**H21538**	**H21535**
PEH 250/2NL 1Ph	–	–	500	400 (M5)	320 (M5)	2	2	3,75 x 10,75	0,55	4,7 (1 x 230 V)	25	0,34	**H21540**	**H21535**
PEH 500/1NF	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**
PEH 500/1SF	–	320	250	200	160	16/4	1	5,25 x 15	0,72/0,18	2,8/1,7	26	0,69	**H21544**	**H21543**
PEH 500/1N	800	630	500	400	320	8	1	5,25 x 15	0,72	2,8	26	0,69	**H21546**	**H21543**
PEH 500/1N 1Ph	–	–	250	200 (M5)	160 (M5)	8	1	5,25 x 15	0,55	4,7 (1 x 230 V)	26	0,69	**H21548**	**H21543**
PEH 500/1NL 1Ph	–	–	500	400 (M5)	320 (M5)	4	1	5,25 x 15	0,55	4,7 (1 x 230 V)	26	0,69	**H21550**	**H21551**
PEH 500/2NF	–	1250	1000	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	–	1250	1000	800	630	4	2	5,25 x 15	0,72	2,8	28	0,69	**H21554**	**H21553**
PEH 500/2N 1Ph	–	–	500	400 (M5)	320 (M5)	4	2	5,25 x 15	0,55	4,7 (1 x 230 V)	28	0,69	**H21556**	**H21553**
PEH 500/2NL 1Ph	–	–	1000	800 (M5)	630 (M5)	2	2	5,25 x 15	0,55	4,7 (1 x 230 V)	28	0,69	**H21558**	**H21553**

* 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

PLANETA-PEH
ACCESSORIES & OPTIONS

Safety radio remote control

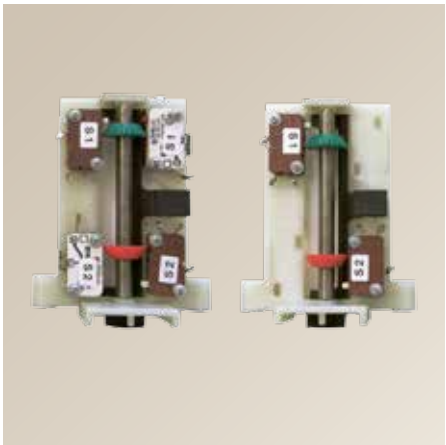
The 295 gram lightweight, very rugged handheld transmitter is powered by a rechargeable lithium ion battery and has a protection class of IP66. The receiver which is integrated in a stable housing has a protection class of IP65. With its certified STOP function the receiver meets the requirements of 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.

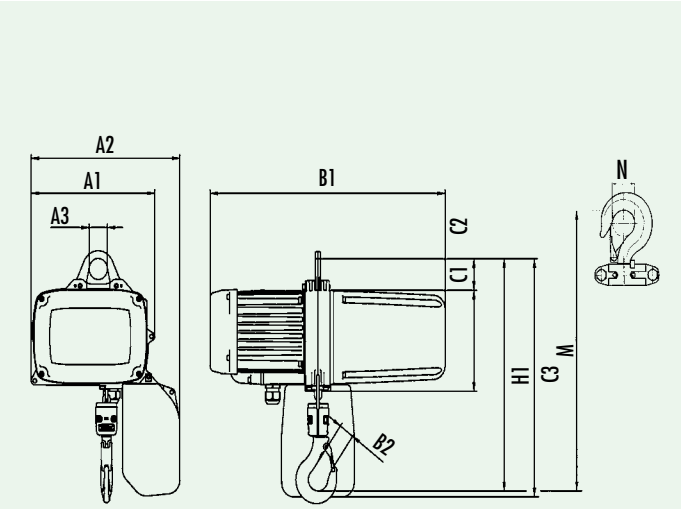
Frequency inverter

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.

Raincover

of textile material, protects the chain hoist during outdoor use

PLANETA-PEH-O
WITH DIRECT CONTROL



TYP (dimensions)	PEH-O 250/1	PEH-O 250/2	PEH-O 500/1	PEH-O 500/2
A1 mm	246	246	246	246
A2 mm	296	296	296	296
A3 mm	Ø 40	Ø 40	Ø 40	Ø 40
B1 mm	444	444	444	444
B2 mm	24	24	24	24
C1 mm	162	162	162	162
C2 mm	49	49	49	49
C3 mm	462	462	462	462
H1 mm	400	414	414	453
M mm	475	506	488	528
N mm	Ø 42	Ø 42	Ø 42	Ø 42

Equipment:

- Lifting capacity: up to 1250 kg
- Lifting capacity up to 2000 kg as GCH-O
- 3 × 400 V / 50 Hz
- Direct control: 400 V
- 3 phase motor: 2 speeds
- Standard lifting height 3 m
- Control cable lenght 1,8 m
- Ergonomic control switch with emergency-stop
- Eyebolt suspension
- Protection class IP65
- Isolation class F (motor)
- DC spring-loaded brake
- Slipping clutch not in the flow of forces

TYP	Capacities in kg acc. ISO (FEM)* M3 (1Bm)	M4 (1Am)	M5 (2m)	M6 (3m)	M7 (4m)	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. GCH with 3 m lift	Order No. Add. lift per m
PEHM-O 250/1NF	–	320	250	200	–	8/2	1	3,75 x 10,75	0,72/0,18	2,8/1,7	24	0,34	**H21560**	**H21561**
PEH-O 250/1NF	400	320	250	200	160	8/2	1	3,75 x 10,75	0,72/0,18	2,8/1,7	24	0,34	**H21562**	**H21563**
PEH-O 250/2NF	–	630	500	400	320	4/1	2	3,75 x 10,75	0,72/0,18	2,8/1,7	25	0,34	**H21564**	**H21565**
PEH-O 500/1NF	800	630	500	400	320	8/2	1	5,25 x 15	0,72/0,18	2,8/1,7	26	0,69	**H21566**	**H21567**
PEH-O 500/2NF	–	1250	1000	800	630	4/1	2	5,25 x 15	0,72/0,18	2,8/1,7	28	0,69	**H21568**	**H21569**

* FEM classification:
Quantity of starts of pendant control per hour

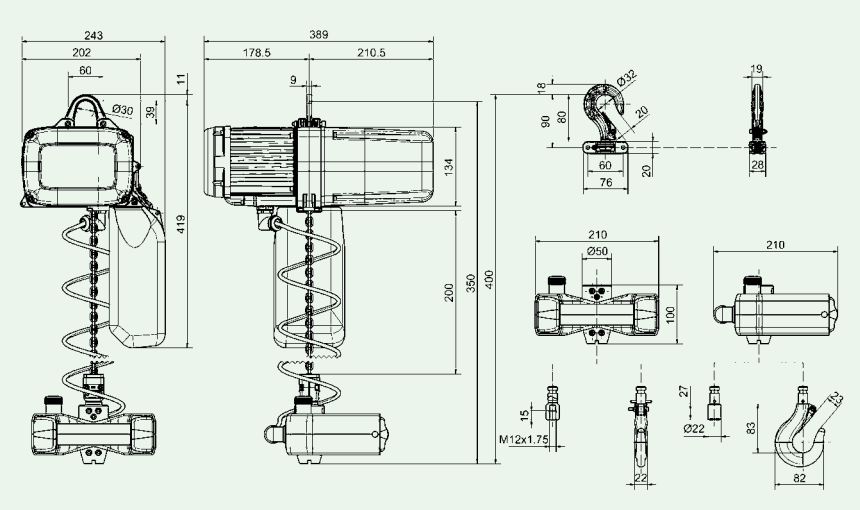
M3 (1Bm) = 150 starts per hour, 25% duty cycle
M4 (1Am) = 180 starts per hour, 30% duty cycle
M5 (2m) = 240 starts per hour, 40% duty cycle
M6 (3m) = 300 starts per hour, 50% duty cycle
M7 (4m) = 360 starts per hour, 60% duty cycle

PLANETA
PEH-KH-LIFT
ELECTRIC CHAIN HOIST

Electric chain hoist PLANETA PEH-KH-Lift

The PLANETA PEH-KH-Lift is based on the PEH and optimally suited to safe and speedy handling of loads with single-handed operation.
The load (hook or other receptacle upon request) is permanently connected with the controller. In this way, the operator only needs one hand to operate the chain hoist and to guide the load.

- The controller is suitable for right and left-handed users.
- Standard equipment including two lifting speeds.
- A frequency control is optionally available.
- The PEH-KH-Lift may be equipped in place of the load hook with individually developed load handling devices.



TYP	Capacities in kg acc. ISO (FEM)* M5 (2m)	M6 (3m)	M6 (3m)	M6 (3m)	M6 (3m)	Lifting speed with load m/min.	Chain size mm	Motor power kW (2m)	3 x 400 V 50 Hz A (2m)	Weight with 3 m lift kg	Order No.
PEH-KH Lift 250/1NF3	250	200	160	125	100	8/2	3,7 x 10,75	0,37/0,1	2,0/1,2	19	**H20680**
PEH-KH Lift 250/1SF3	125	100	80	–	–	16/4	3,7 x 10,75	0,37/0,1	2,0/1,2	19	**H20681**
PEH-KH Lift 250/1N1Ph	125	–	–	–	–	8	3,7 x 10,75	0,59/0,1	2,0/1,2	19	**H20682**
PEH-KH Lift 250/1NL1Ph	250	–	–	–	–	4	3,7 x 10,75	0,59/0,1	2,0/1,2	19	**H20683**

* FEM classification: Quantity of starts at pendant control per hour
M5 (2m) = 240 starts per hour, 40% duty cycle
M6 (3m) = 300 starts per hour, 50% duty cycle

Operation

Comfortable one-handed operation for speedy and precise positioning of the load.

Hanging fixtures

Optional eyelets and hook hanging fixtures for stationary use.

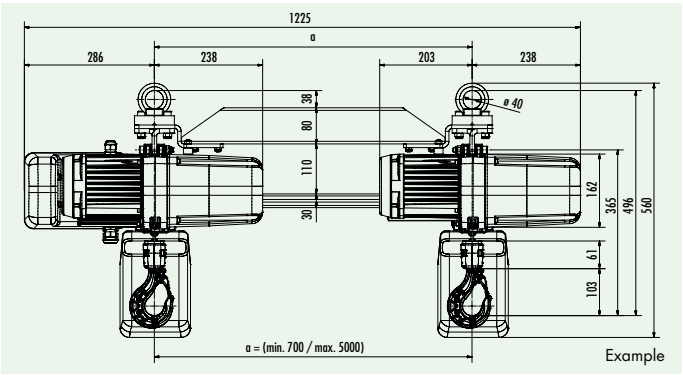
Mains connection

Optional CEE plug connector with cable.

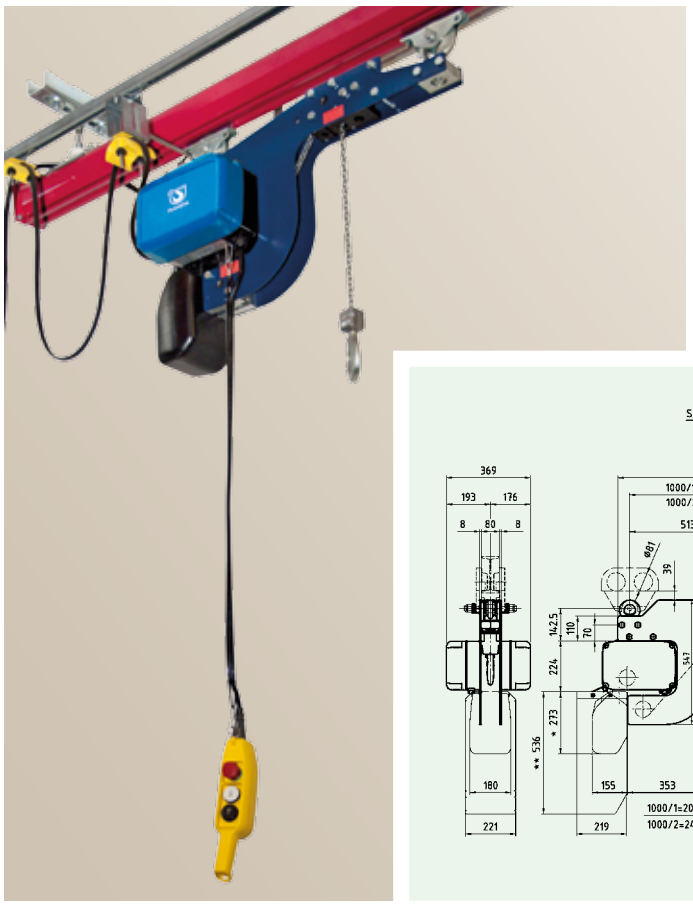
PLANETA-GCH LOW HEADROOM VERSION & SYNCHRONIC LIFTING ELECTRIC CHAIN HOIST

Synchronic lifting technology with PLANETA-GCHS electric chain hoist

- **Capacities up to 3200 kg**
- **Clearance between the load hook and lifting system freely selectable**

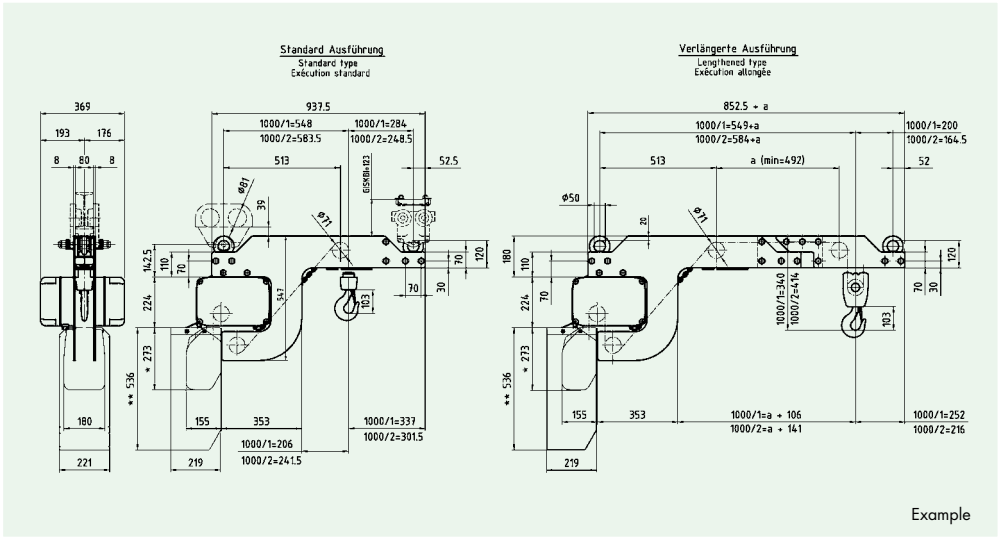


Example



Low headroom version with PLANETA-GCHK Electric chain hoist

- **Capacities up to 4000 kg**
- **Clearance between the load hook and lifting system freely selectable via extended model, e.g. for BIG-BAG transport**

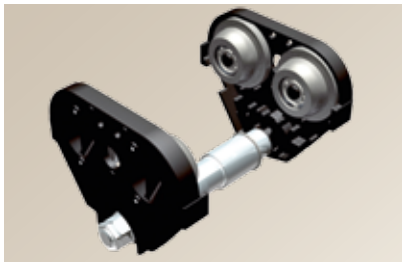


Example

PLANETA-EHF & EMF
TROLLEYS

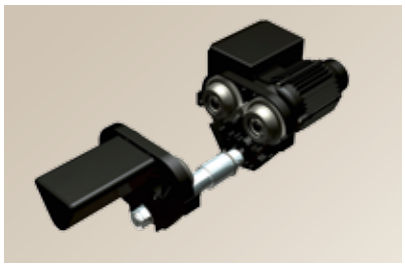
EHF and EMF trolleys are simple in design and allow smooth transportation of loads on steel beams.

Together with the new PLANETA-PEH electrical chain hoist, they offer a number of combination options specific to the lifting capacity and the local conditions.



EHF 50 – 500 Lifting capacity up to 5000 kg

- Manual trolley for steel beams
- Manual or electric chain hoist moved manually
- Load wheels made of cast iron, with ball bearings
- Side plates made of cast iron with fall and climbing protection
- EHF 50/150 with 1 support bolt
  EHF 300/500 with 2 support bolts
- Zinc-plated support bolts
- Flange width 50 - 320 mm



EMFE 50 – 500 Lifting capacity up to 5000 kg

- Motorised trolley for steel beams
- Long-lasting and low wearing
- Speeds 12, 12/4 or 20/6 m/min.
- Side plates made of cast iron with fall and climbing protection
- EMFE 50/150 with 1 support bolt
  EMFE 300/500 with 2 support bolts
- EMFE 500 with 2 motors
- Zinc-plated support bolts
- Adjustable for flange widths 50 - 320 mm
- Protection class IP55 / **OPTION:** Protection class IP65

PLANETA-EMXKB
CRANE SYSTEM

The flexible small crane module system offers you an optimal 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 up to 7.5 m. Standard profiles enable any hanging tracks and hanging cranes to be planned and implemented. Together with PLANETA electrical and manual chain hoists, 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 is able to be expanded or converted at any time.

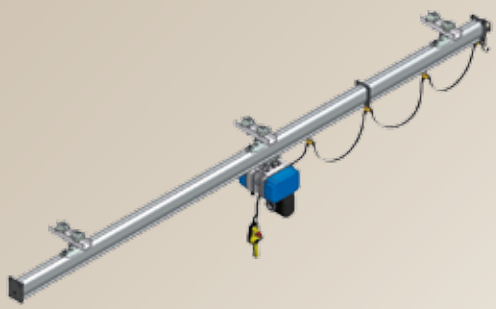
A sophisticated hanging concept enables simple assembly of the crane system tailored to your existing ceiling and supporting structure.

Loads may be transported manually or electrically.

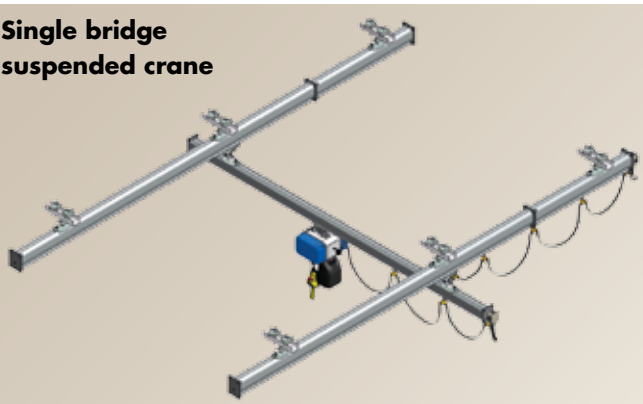
The profiles featuring a primer coat as standard.

OPTION: • Top coat
• Hot galvanising

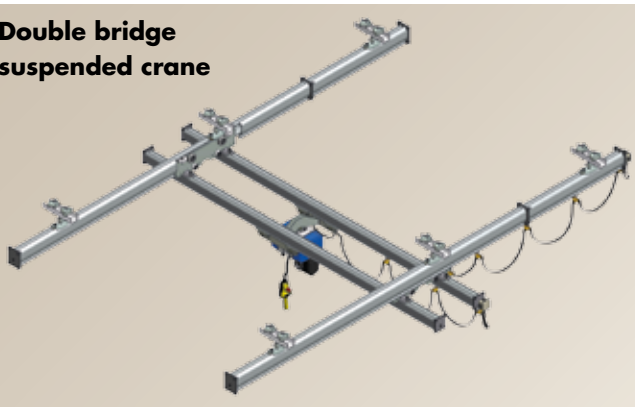
Monorail



Single bridge suspended crane



Double bridge suspended crane



PLANETA-EMXKB
SUSPENSIONS

Fig. 1

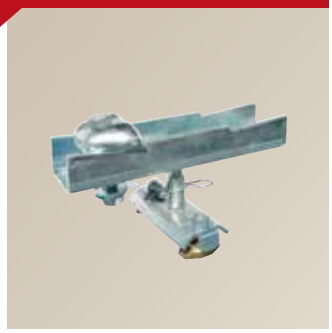


Fig. 2

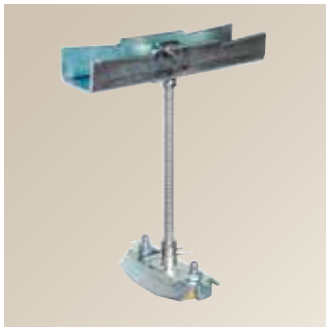


Fig. 3

Fig. 4

Short, rigid (Abb. 1)

- The rigid hanging fixture is available as a low model
- Small installation dimension

Short, pendulating (Abb. 2)

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

Distanced, pendulating (Abb. 3)

- Hanging distance, length variable up to 1,000 mm
- Height differences adjustable by ± 15 mm

Distanced, pendulating, tensioned (Abb. 4)

- > 0.5 m distance: Anchoring required
- Lengthwise anchoring: both track ends
- Cross-wise anchoring: one-sided, every 2nd hanging fixture as lateral hanging fixture
- Lateral assembly on wooden or concrete supports via special hanging fixture
- Direct assembly under concrete ceilings with dynamic pegs and special hanging fixture

PLANETA-EMXKB
STEEL BEAMS

EMXKB I

EMXKB II

EMXKB I + II

Profile length max. 8 m

EMXKB 1: max. 800 kg lifting capacity

EMXKB 2: max. 1600 kg lifting capacity

EMXKB III

EMXKB IV

EMXKB III + IV

Profile length max. 12 m

EMXKB 3: max. 2000 kg lifting capacity

EMXKB 4: max. 2000 kg lifting capacity

Long bend

Short bend

Bend

- 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

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 according to EN 15018: H2/H3; B3/B4.

Lifting capacity kg	EMXKB I span (m)								EMXKB II span (m)								Lifting 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
1000	–	2,6	–	5,8	–	7,3	–	7,8	2,8	4,3	5,4	7,0	6,7	7,8	7,3	7,8	1000
1250	–	2,3	–	5,3	–	6,7	–	7,4	2,3	3,9	4,1	6,5	5,2	7,8	5,6	7,8	1250
1600	–	1,7	–	3,9	–	5,2	–	5,8	1,7	3,4	3,0	5,9	3,7	7,3	4,2	7,8	1600

Single crane bridge Double crane bridge without reinforcement with reinforcement

Single bridge suspended crane with span W (m)

Lifting 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
1000	4,6	6,5
1250	3,5	4,9
1600	2,4	3,4
2000	–	–

Double bridge suspended crane with span W (m)

Lifting 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
1000	6,3	8,7
1250	5,7	8,0
1600	5,1	7,2
2000	4,6	6,6

PLANETA-EMXKB
TROLLEY

- 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

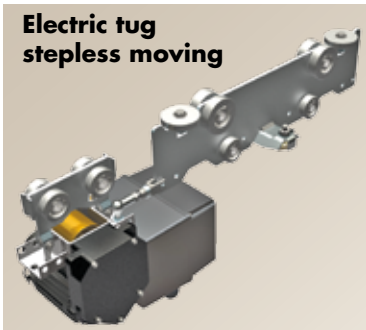
Your benefits:

- 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, curve-going

Rolling apparatuses with tilt protection

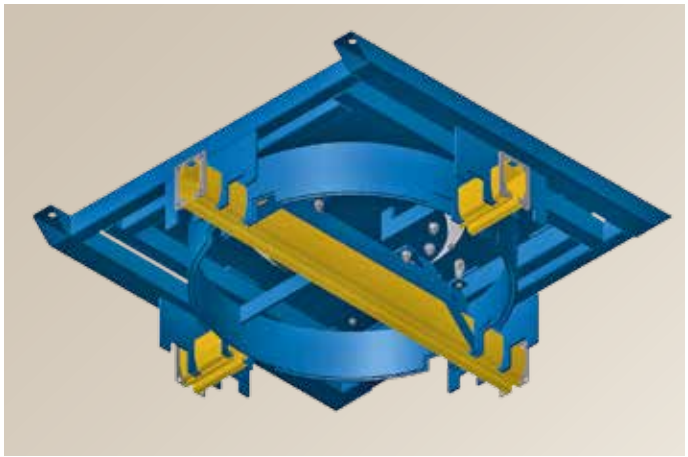
Electric tug stepless moving



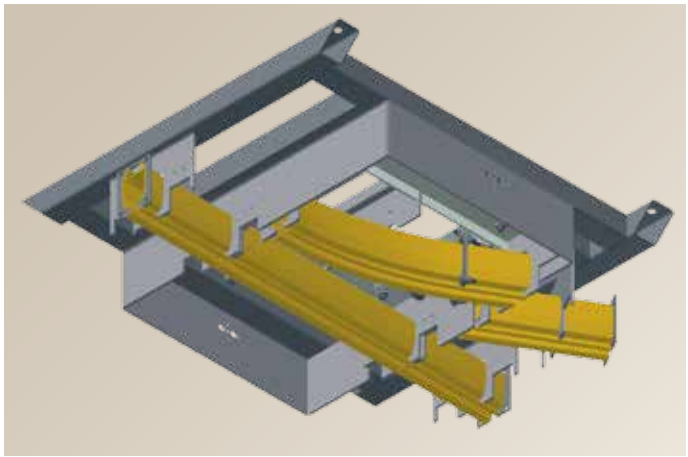
PLANETA-EMXKB
TURNTABLE/SLIDE SWITCHES

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

Turntable / 90° change of direction



Slide switches / connecting single lines



PLANETA-EMXKB
ELECTRIC

Current 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, etc.
- ... and around 30 additional elements

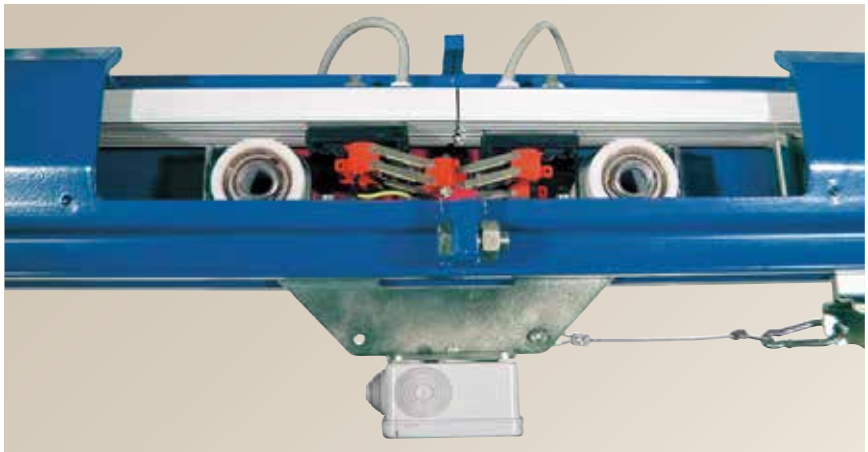
4 types of length and power supply

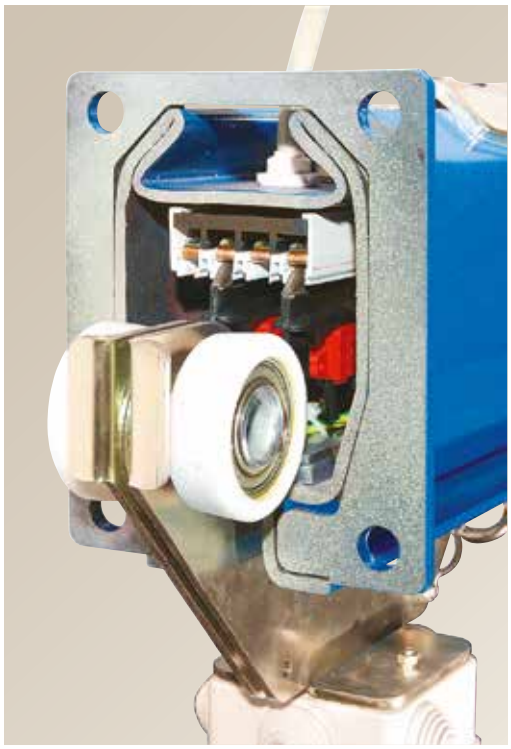
- trailing cable
- C-rail
- conductor line
- Profile-interior conductor rail

THE ELEGANT SOLUTION

EMXKB II ST interior power rail

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





PLANETA-EMXKB
ALUMINIUM

Due to a good balance between the weight of the aluminium profiles and the load capacity, manually moving loads up to 630 kg is effortless.

The even load distribution on all rollers prevents jamming of the trolleys, even in case of diagonal pulling. A large working area and diverse combination possibilities ensure highest flexibility.

The construction kit allows mounting the crane system to an existing steel construction, a concrete or wooden ceiling or a customised upper construction.

Simple installation

Thanks to the low weight of the aluminium profiles and the flexible connection options equipment installation is carried out quickly and easily. The modular construction-kitsystem allows smooth retrofitting or extension of an existing system at any time.

Perfect smooth running

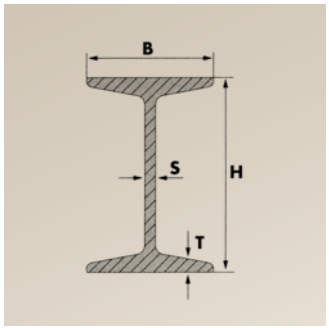
Due to the excellent running properties of the low moving mass the working speed is increased while positioning is precise. This leads to significantly shorter cycle times, which has a positive effect on the production costs.

Functional design

The modular construction-kit system can be configured flexibly and can easily be integrated into every existing or new infrastructure. The natural-coloured anodised crane rails make the crane system appear sophisticated. Height differences can be compensated easily.

OVERVIEW OF TRACK SUPPORTS

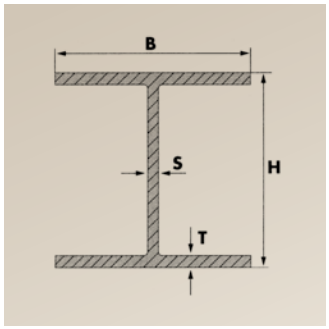
Track supports as single-rail trolleys. DIN 4132 and DIN 15018 B2 H2 (vH = 10 m/min.) as basis of calculation including bottom flange deflection (support material St 37) bending f= < 1/500 of distance between supports.



INP No.	Dimensions mm H	B	S	T	Weight kg/m
80	80	42	3,9	5,9	6
100	100	50	4,5	6,8	8,3
120	120	58	5,1	7,7	11,1
140	140	66	5,7	8,6	14,3
160	160	74	6,3	9,5	17,9
180	180	82	6,9	10,4	21,9
200	200	90	7,5	11,3	26,2
220	220	98	8,1	12,2	31,1
240	240	106	8,7	13,1	36,2
260	260	113	9,4	14,1	41,9
280	280	119	10,1	15,2	48
300	300	125	10,8	16,2	54,2
320	320	131	11,5	17,3	61
340	340	137	12,2	18,3	68
360	360	143	13	19,5	76,1
380	380	149	13,7	20,5	84
400	400	155	14,4	21,6	92,4
450	450	170	16,2	24,3	115
500	500	185	18	27	141
550	550	200	19	30	166

Distance between supports in metres

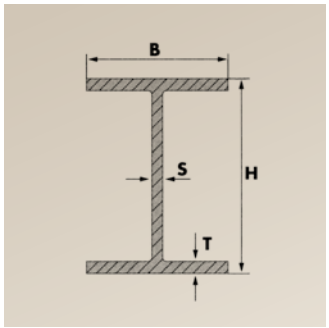
Profile	Lifting capacity t 0,5	1	1,6	2	2,5	3,2	5	6,3	8	10
80										
100	2,2									
120	3,1	1,4								
140	4,1	2,4	1							
160	5,1	3,7	1,8	1						
180	6,3	4,6	2,8	1,8	1,1					
200	7,5	5,6	4	2,8	1,8	1				
220	8,7	6,6	5,2	4	2,8	1,7				
240	9,9	7,6	6,2	5,4	3,9	2,7				
260	11,1	8,7	7,2	6,5	5,2	3,6	1,2			
280	12,3	9,8	8	7,4	6,7	4,8	2			
300	13,4	10,9	9,1	8,3	7,5	5,9	2,9	1,7		
320	14,5	12	10,1	9,3	8,4	7,3	3,9	2,4	1,2	
340	15,6	13,1	11,1	10,2	9,3	8,2	5	3,3	1,8	
360	16,6	14,2	12,2	11,3	10,3	9,2	6,3	4,3	2,7	1,4
380		15,2	13,2	12,3	11,3	10,2	7,5	5,4	3,5	2
400		16,3	14,3	13,3	12,2	11,1	8,8	6,6	4,5	2,8
450			16,8	15,8	14,7	13,5	11,3	9,7	7,2	5
500					17,1	15,9	13,5	12,2	10,2	7,6
550							15,7	14,4	13,1	10,6



HEB No.	Dimensions mm H	B	S	T	Weight kg/m
100	100	100	6	10	20,4
120	120	120	6,5	11	26,7
140	140	140	7	12	33,7
160	160	160	8	13	42,6
180	180	180	8,5	14	51,2
200	200	200	9	15	61,3
220	220	220	9,5	16	71,5
240	240	240	10	17	83,2
260	260	260	10	17,5	93
280	280	280	10,5	18	103
300	300	300	11	19	117
320	320	300	11,5	20,5	127
340	340	300	12	21,5	134
360	360	300	12,5	22,5	142
400	400	300	13,5	24	155
450	450	300	14	26	171
500	500	300	14,5	28	187
550	550	300	15	29	199
600	600	300	15,5	30	212
650	650	300	16	31	225

Distance between supports in metres

Profile	Lifting capacity t 0,5	1	1,6	2	2,5	3,2	5	6,3	8	10
100	3,6	2,6	1,4							
120	4,9	3,5	2,7	1,8	1,1					
140	6,2	4,6	3,6	3,1	2,1	1,2				
160	7,7	5,9	4,7	4,3	3,4	2,2				
180	9,1	7,1	5,8	5,3	4,7	3,4	1,1			
200	10,5	8,4	7	6,3	5,7	4,8	2			
220	11,8	9,7	8,2	7,5	6,8	6	3,1	1,7		
240	13,1	11	9,4	8,6	7,9	7,1	4,5	2,7	1,2	
260	14,3	12,3	10,6	9,8	8,9	8,1	5,6	3,6	2,8	
280	15,4	13,4	11,7	10,9	10	9	6,9	4,6	2,5	
300	16,6	14,7	13	12,1	11,2	10,2	8,5	6,1	3,7	1,8
320		15,7	14	13,1	12,2	11,1	9,3	7,7	5,2	3,1
340		16,6	14,9	14	13,1	12	10,1	8,9	6,3	4
360			15,8	14,9	14	12,7	10,8	9,8	7,4	5
400				16,7	15,7	14,5	12,3	11,2	9,4	6,7
450						16,6	14,2	13	11,8	9
500							16,1	14,8	13,5	11,5
550								16,5	15	13,3
600									16,6	15,1
650										16,7



IPE No.	Dimensions mm H	B	S	T	Weight kg/m
80	80	46	3,8	5,2	6
100	100	55	4,1	5,7	8,1
120	120	64	4,4	6,3	10,4
140	140	73	4,7	6,9	12,9
160	160	82	5	7,4	15,8
180	180	91	5,3	8	18,8
200	200	100	5,6	8,5	22,4
220	220	110	5,9	9,2	26,2
240	240	120	6,2	9,8	30,7
270	270	135	6,6	10,2	36,1
300	300	150	7,1	10,7	42,2
330	330	160	7,5	11,5	49,1
360	360	170	8	12,7	57,1
400	400	180	8,6	13,5	66,3
450	450	190	9,4	14,6	77,6
500	500	200	10,2	16	90,7
550	550	210	11,1	17,2	106
600	600	220	12	19	122

Distance between supports in metres

Profile	Lifting capacity t 0,5	1	1,6	2	2,5	3,2	5	6,3	8	10
80										
100	1,8									
120	3,1	0,7								
140	4	1,5								
160	5	2,5								
180	6,1	3,8	1,3							
200	7,2	5,3	2,2	1						
220	8,4	6,3	3,5	2						
240	9,7	7,4	5	3,2	1,7					
270	11,4	8,8	6,7	4,5	2,7					
300	13,1	10,4	8,3	6,3	4	1,8				
330	14,7	12	9,9	8,5	6	3,5				
360	16,4	13,6	11,5	10,5	8,6	5,7	1,1			
400		15,5	13,4	12,3	11,2	8	2,6			
450			15,6	14,4	13,3	10,9	4,8			
500				16,6	15,4	13,8	7,7	4,5	1,4	
550						16	10,6	7	3,5	
600							14,2	10,4	6,6	3,3

The information indicated above is provided as an overview. Specification and selection of your track support must be completed by a structural engineer.

Information from regulations

PLANETA lifting gear and crane systems are produced according to the valid machine directive 2006/42 EC and the applicable EN standards and technical regulations.

We deliver every lifting device and crane system including an EC declaration of conformity and an EC manufacturer's declaration.
For load-supporting parts like chain and hook, you will also receive a factory certificate as per EN 102014-2.2

In Germany and at the time of printing, we possess a dual industrial safety system that consists of state ordinances (occupational safety ordinance) and the regulations of the German statutory accident insurance (DGUV):

- DGUV regulation 52 (cranes)
- DGUV regulation 54 (winches, hoisting, and pulling devices)
- BetriSichV

In accordance with these regulations and rules, lifting devices and crane systems must be checked by authorised persons and inspection experts prior to commissioning and at regular intervals. The tables in BetriSichV section 1 cranes provide information about the inspection conditions and inspection periods.

The operator is obligated according to BetriSichV section 3 to create a risk assessment for each lifting device and crane system, including specification of the regular inspection intervals.

If required, we would be pleased to support you with the risk assessment.

If PLANETA lifting devices and crane systems are used in other countries, then the applicable regulations in the respective country concerning industrial safety must be taken into account.

Power unit classification according to FEM 9.755 / ISO 4301/1

Power unit groups	**1Dm/ M1**	**1Cm/ M2**	**1Bm/ M3**	**1Am/ M4**	**2m/ M5**	**3m/ M6**	**4m/ M7**	**5m/ M8**
Load collective/factor of the load spectrum	Theoretical use D (h) until general overhaul							
light 1/L1: K = 0.5 Km1 = 0.125 = 0.5^3	800	1600	3200	6300	12500	25000	50000	100000
medium 2/L2: 0.5 < K < 0.63 Km2 = 0.25 = 0.63^3	400	800	1600	3200	6300	12500	25000	50000
strong 3/L3: 0.63 < K < 0.8 Km3 = 0.5 = 0.8^3	200	400	800	1600	3200	6300	12500	25000
very strong 4/L4: 0.8 <K < 1 Km4 = 1 = 1^3	**100**	**200**	**400**	**800**	**1600**	**3200**	**6300**	**12500**

IP protection classes according to DIN EN 60529

First code number	**Type of protection**	**Second code number**	**Type of protection**
0	no protection	**0**	no protection
1	Protection against penetration of solid foreign objects **larger than 50 mm**	**1**	Protection against dripping water (vertical)
2	Protection against penetration of solid foreign objects **larger than 12 mm**	**2**	Protection against dripping water (up to 15° angle)
3	Protection against penetration of solid foreign objects **larger than 2.5 mm**	**3**	Protection against spraying water (up to 60° angle)
4	Protection against penetration of solid foreign objects **larger than 1 mm**	**4**	Protection against spraying water (angle-independent)
5	dust-protected	**5**	Protection against jet of water
6	dust-tight	**6**	Protection against very strong jet of water
7		**7**	Protection against brief submersion
8		**8**	Protection against permanent submersion
9K		**9K**	Protection against very strong waster jet (high-pressure steam cleaner)

Would you like to know more?

We would be delighted to talk to you personally.

Company: _____
Contact: _____
Street: _____
Postal Code: _____
City: _____

Phone: _____
Fax: _____
E-Mail: _____

Further information on the PLANETA range

Would you like to order one of our printed catalogues?

We have the following subjects areas available for you:

PLANETA „Product catalogue No. 14" ☐
Catalogue „Rope Winches" ☐
Catalogue „Compact" ☐
Catalogue „ATEX-Lifting equipment" ☐

We would be delighted to send you our catalogues in the post.

Address, e-mail, and fax number - see back page.

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!

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