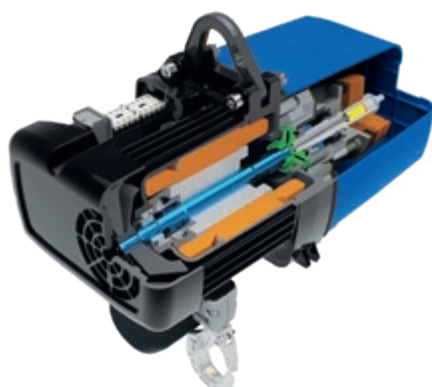




PEH 250/1  
single-  
stranded



### ELECTRIC CHAIN HOIST | **PEH**

The PEH has a modular design and is equipped with a robust contactor control. Robust design thanks to the use of die-cast aluminium for the housing and cover. It is characterised by very smooth running 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**

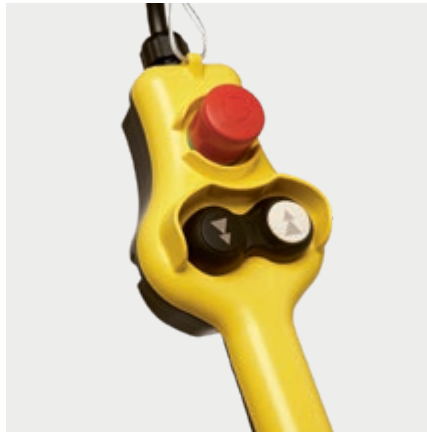
- No sensitive electronics used
- Aluminium casing and cover
- Minimum 1,600 operating hours with 40 % duty cycle, 240 s/h (FEM: 2 m, ISO M5)
- Dry-running slipping clutch
- Area of application –15 to +50 °C
- Gearbox with permanent lubrication
- High safety in operation
- Low-wear DC-spring-loaded brake
- 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
- 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
- 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
- Temperature monitoring
- Operating data counter
- Wide range of accessories and options
- DGUV V17/18 model available
- UP-SIDE-DOWN model available



### 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 42 V 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-  
stranded



PEH 500/2  
two-strand



PEH 2500/2  
two-strand

## Basic version with contactor control

### Equipment:

- Lifting capacity: to 6.300 kg
- 3 × 400 V / 50 Hz
- 42 V low voltage control
- 3-phase motor (3 ph): 2 speeds
- 1-phase motor (1 ph): 1 speed
- Isolation class F (motor)
- DC spring-loaded brake
- Slipping clutch not in the flow of forces
- Geared limit switches

### Accessories and options:

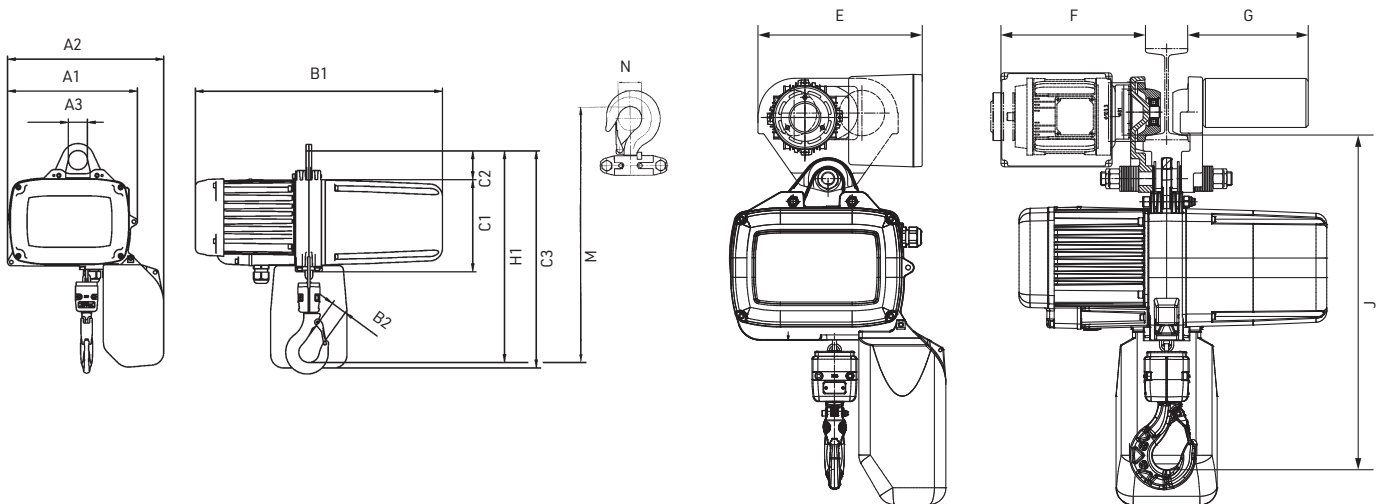
- Other operating voltages on request
- Other control voltages on request
- Single handed operation with controls on the handle
- Hook suspension
- Safety load hook
- Gearbox limit switch with two additional emergency stop contacts
- Synchronized hoists
- Operating hours and circuit counter
- Manual brake release
- Chain container for various lifting heights
- Lifting heights up to 160 m
- Manual and electric trolleys
- Gear grease for low temperature use / food industry
- DGUV V17/18 model available
- UP-SIDE-DOWN model 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 × 400 V 50 Hz **1 × 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 × 10.75	0.72/0.18	2.8/1.7	17	0.34	H21520	H21521
PEHM250/1SF	-	-	125	100	-	16/4	1	3.75 × 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 × 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 × 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 × 10.75	0.72	2.8/1.7	24	0.34	H21528	H21521
PEH250/1N 1Ph	-	-	250	200	160	8	1	3.75 × 10.75	0.55	4.7**	24	0.34	H21530	H21521
PEH250/1NL 1Ph	-	-	250	200	160	4	1	3.75 × 10.75	0.55	4.7**	24	0.34	H21532	H21521
PEH250/2NF	-	630	500	400	320	4/1	2	3.75 × 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 × 10.75	0.72	2.8	25	0.68	H21536	H21535
PEH250/2N 1Ph	-	-	500	400(M5)	320(M5)	4	2	3.75 × 10.75	0.55	4.7**	25	0.68	H21538	H21535
PEH250/2NL 1Ph	-	-	500	400 M5	320(M5)	2	2	3.75 × 10.75	0.55	4.7**	25	0.68	H21540	H21535
PEH500/1NF	800	630	500	400	320	8/2	1	5.25 × 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 × 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 × 15	0.72	2.8	26	0.69	H21546	H21543
PEH500/1N 1Ph	-	-	250	200(M5)	160(M5)	8	1	5.25 × 15	0.55	4.7**	26	0.69	H21548	H21543
PEH500/1NL 1Ph	-	-	500	400(M5)	320(M5)	4	1	5.25 × 15	0.55	4.7**	26	0.69	H21550	H21543
PEH500/2NF	-	1,250	1,000	800	630	4/1	2	5.25 × 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 × 15	0.72	2.8	28	1.38	H21554	H21553
PEH500/2N 1Ph	-	-	500	400(M5)	320(M5)	4	2	5.25 × 15	0.55	4.7**	28	1.38	H21556	H21553
PEH500/2NL 1Ph	-	-	1,000	800(M5)	630(M5)	2	2	5.25 × 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 × 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 × 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 × 23	2.3	6.5	57	1.37	H21602	H21609
PEH1000/1NL	1,600	1,250	1,000	800	630	4	1	7.45 × 23	1.5	6.5	62	1.37	H21603	H21609
PEH1000/1N 1Ph	-	-	500(M5)	400(M5)	-	8	1	7.45 × 23	1.5	6**	56	1.37	H21685	H21609
PEH1000/1NL 1Ph	-	-	1,000(M5)	800(M5)	630(M5)	4	1	7.45 × 23	1.5	6**	56	1.37	H21686	H21609
PEH1000/2NF	-	2,500	2,000	1,600	1,250	4/1	2	7.45 × 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 × 23	2.3	6.5	61	2.74	H21605	H21610
PEH1000/2NL	-	2,500	2,000	1,600	1,250	2	2	7.45 × 23	1.5	6.5	66	2.74	H21606	H21610
PEH1000/2N 1Ph	-	-	1,000(M5)	800(M5)	-	4	2	7.45 × 23	1.5	6**	60	2.74	H21687	H21610
PEH1000/2NL 1Ph	-	-	2,000(M5)	1,600(M5)	-	2	2	7.45 × 23	1.5	6**	60	2.74	H21688	H21610
PEH1600/1NF	2,500	2,000	1,600	-	-	8/2	1	9.4 × 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 × 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 × 27.4	2.2	5.7	88	2.22	H21672	H21611
PEH1600/2NF	-	4,000	3,200	-	-	4/1	2	9.4 × 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 × 27.4	2.2	5.7	97	4.44	H21674	H21612
PEH2500/1NF	-	-	2,500	2,000	-	8/2	1	11.75 × 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 × 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 × 32.9	2.2	6.1	95	3.53	H21677	H21613
PEH 2500/1BF	-	3,200	-	-	-	6.4/1.6	1	11.75 × 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 × 32.9	2.2	6.1	95	3.53	H21679	H21613
PEH 2500/2NF	-	-	5,000	4,000	-	4/1	2	11.75 × 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 × 32.9	2.2	6.1	112	7.06	H21681	H21614
PEH 2500/2BF	-	6,300	-	-	-	3.2/0.8	2	11.75 × 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 × 32.9	2.2	6.1	112	7.06	H21683	H21614

\* ISO (FEM) classification: Number of actuations on the control switch per hour: A3(M3) = 150 actuations per hour, 25 % duty cycle, A4(M4) = 180 actuations per hour, 30 % duty cycle  
A5(M5) = 240 actuations per hour, 40 % ED, A6(M6) = 300 actuations per hour, 50 % ED, A7(M7) = 360 actuations per hour, 60 % ED



# Electric chain hoist



PEH with eye or hook

PEH with electric trolley

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



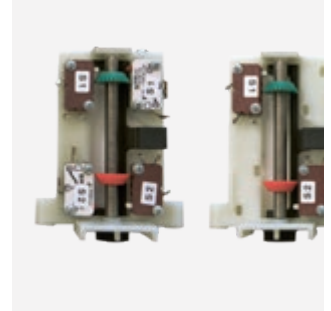
### Safety load locking hook

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.



### Rotating limit switch

Switches the direction of movement of the electric trolley as a 1-stage pre-limit switch and 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



### 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.