

LTM

LIFT | TURN | MOVE | LTD

INDUSTRIAL PRODUCTS

THE SUPPLY OF HOISTING EQUIPMENT
FOR INDUSTRIAL APPLICATIONS



VERSION
2018



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LTM – LIFT TURN MOVE LTD

Lift Turn Move Ltd (LTM) supply hoisting, travelling & control equipment/components for industrial and entertainment applications.

Established in 2004 and based in Bromborough- Wirral, we are an independent company, owned by the people who run the business day. By day, this ensures decisions are made swiftly and customer service is top priority.

WHY USE LTM

We offer fast response and delivery.

Our staff have lifting equipment and application experience and hold LEEA qualifications relating to the products and services we supply.

An extensive range and stock of equipment/ spare parts are held at our UK premises, this means we have the support that you need.

When you deal with LTM, you get experience, problem solving and most of all flexibility – free of charge.

PRODUCTS & CLIENTS

Our industrial clients are lifting equipment trade companies, original equipment manufacturers and equipment rental companies.

We offer Products from:

GIS AG, Switzerland - Electric Chain Hoists, Light Crane & Monorail Tracks and Vacuum Lifting Systems - a brand with global recognition, the number one choice for quality lifting products.

Planeta Hebetchnik GmbH, Germany - Hand Chain Blocks, Lever Hoists, Beam Clamps and Trolleys in standard and ATEX versions plus Electric Winches

Van Leusden, Netherlands - A specialised manufacturer of specialised hoists and trolleys for special applications like low headroom, curved beams, rack & pinion drives etc

All with a reputation for value, performance and quality engineering.

OUR VISION

To be the leading supplier of Industrial Electric Chain Hoists, Trolleys and Hoist Control Systems in the United Kingdom and Ireland.

COMPANY CONTACT DETAILS

LTM - Lift Turn Move Ltd
Unit 2 Stadium Court
Wirral International Business Park
Plantation Road, Bromborough
Wirral, UK CH62 3QG

SALES AND GENERAL CONTACTS

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Fax: +44 (0)151 649 0099
Email: sales@LiftTurnMove.co.uk
Email: accounts@LiftTurnMove.co.uk
Website: www.liftturnmove.co.uk

OPENING HOURS

Mon-Thur: 8:30 - 5:00
Friday: 8:30 - 2:30

The office is often open outside these times.

DELIVERIES

We use various methods of delivery and can deliver more or less whenever you need.

To stay up to date with the latest events at LTM please follow us on Facebook, Twitter and LinkedIn



[liftturnmove](https://www.facebook.com/liftturnmove)



[@LiftTurnMove](https://twitter.com/LiftTurnMove)



[@Lift Turn Move Ltd](https://www.linkedin.com/company/liftturnmove)

GIS ELECTRIC CHAIN HOIST TYPE GPM/GP - NEW RANGE

- » 60% increased lifting capacity
- » Powerful, robust and durable
- » Polygonal connections
- » Made in Switzerland
- » TÜV certified

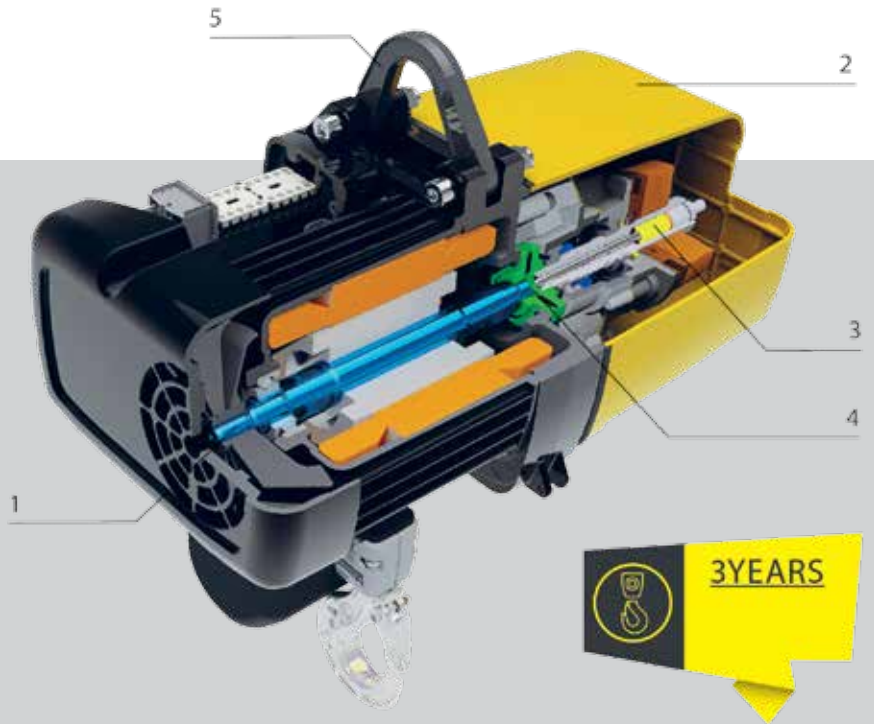
1 - Powerful built-in motor with low operating temperature and cooling (60 °C in ISO M5/FEM 2m)

2 - Modular and simple in its structure, Casing and cover made of aluminium

3 - Reliable DC-spring loaded brake, safe holding of the load

4 - Dry-running slipping clutch, very low maintenance

5 - Eyebolt suspension hinged, easy disassembly and reassembly



Protection class IP65

- » Dust proof
- » Protected against water jets
- » Suited for outdoor operation and dusty environment



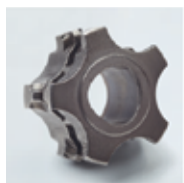
Transmission

- » Smooth running (65 dB)
- » 3-step gear with helical gearing
- » Permanent lubrication
- » Self-contained gearbox



Maintenance

- » Easy to maintain
- » Good accessibility of wearing parts
- » Quick and simple replacement
- » No special tools required



Polygonal connections

- » All shaft-hub connections are built in a self-centring polygonal design
- » Quick disassembly and reassembly



Swissness

- » Swiss Development
- » Made in Switzerland
- » Reliable
- » Safe
- » Durable
- » Since 1957



Hooks

- » Skeleton load and suspension hooks
- » Hook with guided safety catch made of cast iron
- » Safe holding of the load



Profile steel chain

- » Case hardened and manganese phosphated
- » Less wear
- » Increased life
- » Chain safety factor min. 8:1 (ISO M5/FEM 2m)
- » Corrosion resistance



Geared limit switch

- » The upper and lower end position of the load hook can be set easily and precisely
- » Optionally two additional emergency stop contacts available



Special products

- » Corrosion resistant
- » Explosion proof
- » Frequency driven
- » Handy chain and telescope models
- » Synchronised chain hoist

GIS ELECTRIC CHAIN HOIST TYPE GPM/GP - NEW RANGE



The GIS GPM/ GP hoists are simple in the assembly and with options in duty and lifting capacity.

It can have: higher lifting capacity than the previous model for lighter duty or the same lifting capacity as the previous model for heavier duty.

The hoist is characterised by quiet running and is Swiss made for hard work and long life. Improvements such as polygonal shaft connections make maintenance easy, quick and with no special tools.



RELIABLE AND LONG-LASTING

- » Made in Switzerland
- » 3 year warranty
- » Chain safety factor minimum 8:1, (1-fall in FEM, 2m, ISO, M5)
- » Manganese phosphate protected profile (square) steel chain with increased service life and improved dry-running properties
- » Gearbox with permanent lubrication, quiet running with 3-step drive and helical gearing
- » High safety in operation
- » Low-wear DC-spring-loaded brake
- » Contactor control- no sensitive electronics used
- » Aluminium casing and covers
- » Designed and manufactured to FEM group 2m, minimum 1,600 operating hours with 40 % duty cycle, 240 s/h (ISO M5).
- » This allows a higher lifting capacity with lower operating hours or lower lifting capacity with higher operating hours and lifetime
- » Dry-running slipping clutch
- » Area of application -15° to +50°C

EASY TO OPERATE

- » Protection class IP65; weather resistant
- » Low weight from 14kg with 3m lift
- » Compact housing with low headroom
- » Geared limit switches with accuracy in stopping at the highest and lowest hook position

- » Ergonomic control switch with emergency stop
- » 42 V low voltage control
- » Load hook rotates through 360 degrees, with guided safety catch and rubber buffer
- » No special tools for maintenance
- » Easy to maintain, wearing parts can be changed easily and quickly

OPTIONS

- » Three- or single-phase power-worldwide operation
- » Various control voltages
- » Special speeds
- » Special versions such as synchronised electric chain hoist, low headroom version, corrosion resistant version, ATEX and twin lift
- » Eyebolt or hook suspension
- » Lifting heights up to 200 m
- » Wide range of accessories and options
- » Direct control, special control, radio remote control,
- » Frequency inverter- variable speed and higher duty
- » Safety locking hook
- » Geared limit switch with two additional emergency stops
- » External limit switch / multiple limit switches
- » Parallel connection of multiple chain hoists
- » Operating data counter/ hour meter
- » Temperature monitoring to prevent the Motor from overheating
- » Manual brake release / second brake
- » Chain container for various lifting heights
- » Gear grease for low temperature or food industry use
- » Tropicalised insulation
- » Slack chain shutdown

ELECTRIC CHAIN HOISTS

GPM250 AND GP250/500/1000 - SPECIFICATION

GIS GP/ GPM hoists are simple in design and contain no sensitive electronics, this minimises the risk of operational interruptions. The hoists are characterised by quiet running and made for long life whilst working hard. The ergonomic control switch with 42 V low voltage controls allows convenient and safe working. Maintenance is easy, quick and needs no special tools.

SCOPE OF SUPPLY

- » 3 metre height of lift as standard, additional lift height available
- » Power – 400V, 3Ph, 50Hz, option for 110 or 220V, 1Ph, 50Hz, see page 17
- » Protection class IP 65 – see page 14 for more details on weatherproofing
- » 2 or 4 button pendant plus E stop (IP65) & 1.8m cable included in price
- » Opening eye (standard) or hook (optional) body suspension
- » Supplied with Pewag G80 profile link load chain
- » Geared limit switch for highest and lowest hook position

SPECIFICATIONS

Duty	Lifting capacity (kg) / duty class - M3/ FEM class 1Bm, 150 s/h, 25% duty	Lifting capacity (kg) / duty class - M4/ FEM class 1Am, 180 s/h, 30% duty	Lifting capacity (kg) / duty class - M5/ FEM class 2m, 240 s/h, 40% duty	Lifting capacity (kg) / duty class - M6/ FEM class 3m, 300 s/h, 50% duty	Lifting capacity (kg) / duty class - M7/ FEM class 4m, 360 s/h, 60% duty	Speed - 50 Hz	Motor power	Current 400 V, 3 Ph, 50Hz	Number of chain falls	Chain size	Weight equipped 3m lift	Chain weight per meter	Protection class	Sound pressure level in hall @1m distance
Hoist Type	Load capacity (kg)					(m/min)	(kW)	(A)		(mm)	(kg)	(kg)		(dBA)
SINGLE SPEED HOISTS														
GP250/1N	400	320	250	200	160	8	0.72	2.8	1	3.75x10.75	24	0.34	IP65	70
GP250/2N	-	630	500	400	320	4	0.72	2.8	2	3.75x10.75	25	0.68	IP65	70
GP500/1N	800	630	500	400	320	8	0.72	2.8	1	5.25x15	26	0.69	IP65	70
GP500/2N	-	1250	1000	800	630	4	0.72	2.8	2	5.25x15	28	1.38	IP65	70
GP1000/1N	1600	1250	1000	800	630	8	2.3	6.4	1	7.45x23	57	1.37	IP65	80
GP1000/2N	-	2500	2000	1600	1250	4	2.3	6.4	2	7.45x23	61	2.74	IP65	80
TWO SPEED HOISTS- STANDARD SPEEDS														
GPM250/1NF	-	320	250	200	-	8/2	0.37/0.1	2.0/0.1	1	3.75x10.75	17	0.34	IP65	65
GP250/1NF	400	320	250	200	160	8/2	0.72/0.18	2.8/1.7	1	3.75x10.75	24	0.34	IP65	70
GP250/2NF	-	630	500	400	320	4/1	0.72/0.18	2.8/1.7	2	3.75x10.75	25	0.68	IP65	70
GP500/1NF	800	630	500	400	320	8/2	0.72/0.18	2.8/1.7	1	5.25x15	26	0.69	IP65	70
GP500/2NF	-	1250	1000	800	630	4/1	0.72/0.18	2.8/1.7	2	5.25x15	28	1.38	IP65	70
GP1000/1NF	1600	1250	1000	800	630	8/2	2.3/0.68	5.7/4.1	1	7.45x23	58	1.37	IP65	80
GP1000/2NF	-	2500	2000	1600	1250	4/1	2.3/0.68	5.7/4.1	2	7.45x23	62	2.74	IP65	80
TWO SPEED HOISTS- SPECIAL SPEEDS														
GPM250/1SF	-	-	125	100	-	16/4	0.37/0.1	2.0/0.1	1	3.75x10.75	17	0.34	IP65	65
GP250/1SF	-	160	125	100	-	16/4	0.72/0.18	2.8/1.7	1	3.75x10.75	24	0.34	IP65	70
GP500/1SF	-	320	250	200	160	16/4	0.72/0.18	2.8/1.7	1	5.25x15	26	0.69	IP65	70
GP1000/1SF	-	630	500	400	320	16/4	2.3/0.68	5.7/4.1	1	7.45x23	58	1.37	IP65	80



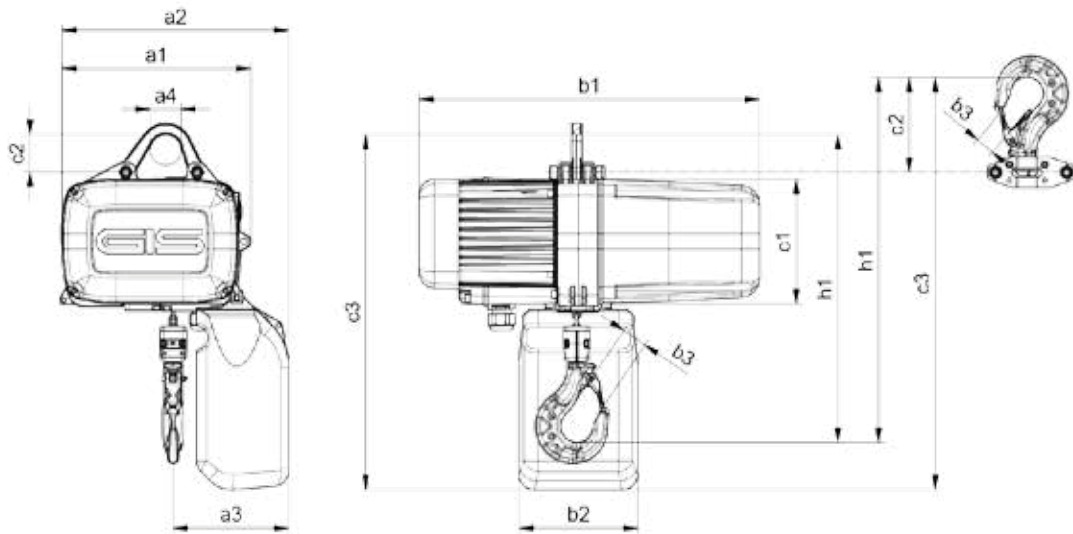
IP65 PROTECTION AS STANDARD



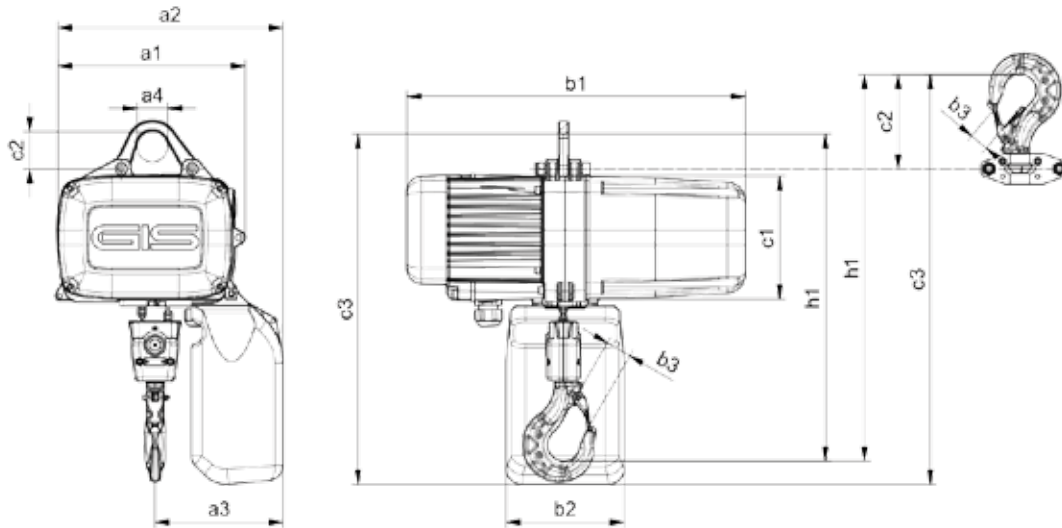
NEW PEWAG PROFILE LINK CHAIN

ELECTRIC CHAIN HOISTS GPM250 AND GP250/500/1000 – DIMENSIONS

GPM250, GP250/500/1000, 1-FALL



GP250/500/1000, 2-FALLS



Errors and omissions excluded

DIMENSIONS

Type	a1	a2*	a3*	a4	b1	b2*	b3	c1	c2 eye	c2 hook	c3 eye*	c3 hook*	h1 eye	h1 hook	Schematic drawing
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
GPM250/1	202	243	122	Ø30	389	120	20	134	39	90	419	470	330	381	9500.9201.5
GP250/1	246	296	151	Ø40	444	155	24	162	49	124	462	537	406	480	9510.9201.5
GP250/2	246	296	168	Ø40	444	155	24	162	49	124	462	537	432	506	9510.9202.5
GP500/1	246	296	151	Ø40	444	155	24	162	49	124	462	537	414	488	9511.9201.5
GP500/2	246	296	175	Ø40	444	155	24	162	49	124	462	537	453	528	9511.9202.5
GP1000/1	328	385	198	Ø52	548	180	33	212	58	132	598	672	519	593	9515.9201.5
GP1000/2	328	385	235	Ø52	548	180	33	212	58	132	598	672	578	652	9515.9202.5

*Chain bucket for lifting height 3 m

ELECTRIC CHAIN HOISTS TYPE GCH1600/2000/2500 - FEATURES

ELECTRIC CHAIN HOISTS (LIFTING CAPACITY 1600 - 5000 KG)

GIS are specialists in chain hoist manufacture since 1963. The GIS manufacturing facility in Switzerland contains some of the most modern machining centres and the hoist embodies the latest manufacturing techniques and technology

- » Lifting capacity from 1600- 5000kg
- » Designed and manufactured to operate in the most extreme conditions
- » Cast aluminium housing and end covers using the latest casting technology - maximum solidity (no plastics)
- » Reliable, low wear, easy to maintain
- » 42V contactor control system- simple electrics with electric geared limit switches fitted as standard,
- » Single or dual speeds available with different speed options
- » Permanent gear lubrication for wear resistant operation
- » Advanced brake design provides maximum safety with minimum maintenance
- » Five pocket chain wheel giving extremely quiet running
- » Mechanical stops to prevent over travel
- » Ergonomic design 2 or 4 button control pendant with E stop
- » Available with eye or hook suspension, push or electric trolley or combined with GIS crane system
- » All Hoists and Electric Trolleys are available with a Frequency Inverter drive - this offers variable speeds and higher duty factors. Please consult us for further information. A 1t hoist normally running at 8m/min will give 40% duty at speeds between 2.4-13.92 m/ min (15- 87Hz)



GIS HOIST USED IN AN EQUINE VETERINARY TO TRANSPORT HORSES FOR SURGERY

GIS GCH ELECTRIC CHAIN HOISTS - FEATURES

CHAIN GUIDES

- » 2-part construction to optimize maintenance
- » Reinforced polyoxymethylene material (POM) highly wear resistant
- » Safe operation-jamming excluded

CHAIN WHEEL

- » Hardened steel
- » 5 & 6 chain pockets, quiet running with improved running properties
- » With double bearing Support

INTERNAL GEARED LIMIT SWITCH

- » Simple adjustment
- » Exact positioning
- » Lifting heights up to 220 m
- » Accuracy for repetition assured
- » Option- 4 position switches available (up/down plus 2 emergency limits)

CONTROL SWITCH

- » With built-in support wire
- » 2 or 4 button pendant: ergonomic design
- » Emergency stop as standard
- » Protection: IP 65 to DIN 40050
- » Option: with integrated working hour counter

CONTACTOR CONTROL SYSTEM

- » Reliable and simple technology (no electronics susceptible to interference)
- » Emergency stop as standard
- » 42V control system allowing highest safety of operation

HOISTING CHAIN

- » Calibrated especially for GIS
- » Zinc plated
- » Surface-hardened
- » Quality class DAT (8SS) to FEM 9.671
- » Stainless Steel chain available

BRAKE

- » Advanced brake design
- » Maximum safety with brake after slipping clutch
- » Maintenance free

TRANSMISSION

- » Helical-toothed first and second gear step for quiet running
- » Permanent lubrication for wear resistant operation

SLIPPING CLUTCH

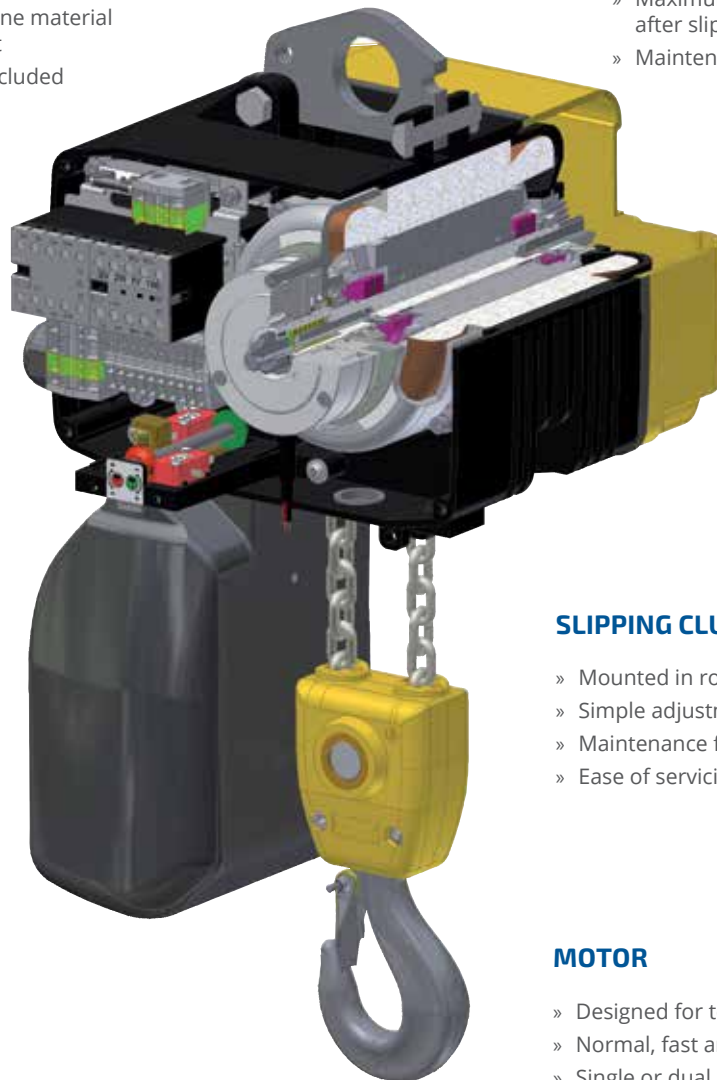
- » Mounted in rotor - outside the drive train
- » Simple adjustment
- » Maintenance free and highly resistant to wear
- » Ease of servicing thanks to comfortable access

MOTOR

- » Designed for tough working conditions
- » Normal, fast and super- fast speed models
- » Single or dual speed
- » Standard power supply 400V, 3 Ph, 50Hz
- » Option: with temperature control system
- » Option: with insulation for the tropics
- » Option: special power supplies

HOUSING

- » Cast aluminium housing with maximum solidity (no plastics)
- » For extreme working conditions: cast cooling fins
- » Easily changed from 1- fall to 2-fall operation: no need to dismantle the hoist



ELECTRIC CHAIN HOISTS

TYPE GCH1600/2000/2500 - SPECIFICATION

SCOPE OF SUPPLY

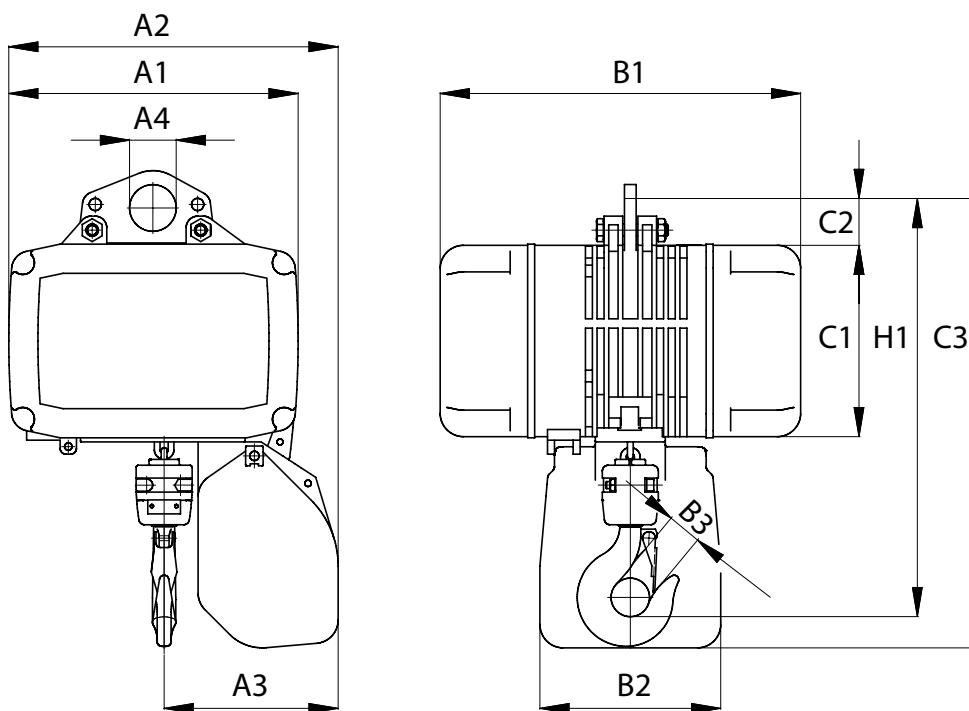
- » Power – 400V, 3Ph, 50Hz
- » Protection class IP 55 – see page 14 for more details on weatherproofing
- » 2 or 4 button pendant plus E stop (IP65) & 1.8m cable included in price
- » Eye (standard), hook (optional) or suspension to GIS trolley as body suspension units
- » Supplied with Pewag G80 zinc plated load chain
- » Geared limit switch for highest and lowest hook position

Hoist type	Lifting capacity (kg) / duty class - M3/FEM class 1Bm, 150 s/h, 25% duty	Lifting capacity (kg) / duty class - M4/FEM class 1Am, 180 s/h, 30% duty	Lifting capacity (kg) / duty class - M5/FEM class 2m, 240 s/h, 40% duty	Lifting capacity (kg) / duty class - M6/FEM class 3m, 300 s/h, 50% duty	Lifting capacity (kg) / duty class - M7/FEM class 4m, 360 s/h, 60% duty	Lifting Speed- 50 Hz	Motor power	Current 400V, 3Ph, 50Hz	Number of chain falls	Chain Size	Weight equipped, 3m lift, hoist only	Weight of extra chain per meter lift	Protection class	Trolley beam widths- standard price	Trolley beam widths- (extra price)	Trolley beam widths- (extra price)	Trolley beam widths- (extra price)
						(m/min)	(kW)	(A)		(mm)	(kg)	(kg)		(mm)	(mm)	(mm)	(mm)
SINGLE SPEED HOISTS- STANDARD SPEEDS																	
GCH1600/1N	1600	1250	1000	800	630	8	2.44	6	1	9x27	63	1.75	IP55	56-119	120-179	180-239	240-300
GCH1600/2N	3200	2500	2000	1600	1250	4	2.44	6	2	9x27	73	1.75	IP55	56-119	120-179	180-239	240-300
GCH2000/1N-	2000	1600	1250	1000	800	8	3.05	7.3	1	10x28	65	2.25	IP55	56-119	120-179	180-239	240-300
GCH2000/2N	4000	3200	2500	2000	1600	4	3.05	7.3	2	10x28	76	4.5	IP55	56-119	120-179	180-239	240-300
GCH2500/1N	2500	2000	1600	1250	1000	6.4	3.05	7.7	1	10x28	65	2.25	IP55	56-119	120-179	180-239	240-300
GCH2500/2N	5000	4000	3200	2500	2000	3.2	3.05	7.7	2	10x28	76	4.5	IP55	56-119	120-179	180-239	240-300
TWO SPEED HOISTS - STANDARD SPEEDS																	
GCH1600/1NF	1600	1250	1000	800	630	8.0/2.0	2.44/0.61	6.6/4.2	1	9x27	65	1.75	IP55	56-119	120-179	180-239	240-300
GCH1600/2NF	3200	2500	2000	1600	1250	4.0/1.0	2.44/0.61	6.6/4.2	2	9x27	75	1.75	IP55	56-119	120-179	180-239	240-300
GCH2000/1NF	2000	1600	1250	1000	800	8.0/2.0	3.05/0.77	8.0/4.5	1	10x28	67	2.25	IP55	56-119	120-179	180-239	240-300
GCH2000/2NF	4000	3200	2500	2000	1600	4.0/1.0	3.05/0.77	8.0/4.5	2	10x28	78	4.5	IP55	56-119	120-179	180-239	240-300
GCH2500/1NF	2500	2000	1600	1250	1000	6.4/1.6	3.05/0.77	8.2/4.4	1	10x28	67	2.25	IP55	56-119	120-179	180-239	240-300
GCH2500/2NF	5000	4000	3200	2500	2000	3.2/0.8	3.05/0.77	8.2/4.4	2	10x28	78	4.5	IP55	56-119	120-179	180-239	240-300
TWO SPEED HOISTS - FAST SPEEDS																	
GCH1600/1SF	1000	800	630	500	400	12.5/3.0	2.39/0.58	6.6/4.2	1	9x27	65	1.75	IP55	56-119	120-179	180-239	240-300
GCH1600/2SF	2000	1600	1250	1000	800	6.25/1.5	2.39/0.58	6.6/4.2	2	9x28	75	3.5	IP55	56-119	120-179	180-239	240-300
GCH2000/1SF	1250	1000	800	630	500	12.5/3.0	2.98/0.72	8.0/4.5	1	10x28	67	2.25	IP55	56-119	120-179	180-239	240-300
GCH2000/2SF	2500	2000	1600	1250	1000	6.25/1.5	2.98/0.72	8.0/4.5	2	10x28	78	4.5	IP55	56-119	120-179	180-239	240-300
GCH2500/1SF	1600	1250	1000	800	630	10.0/2.5	3.05/0.77	8.2/4.4	1	10x28	67	2.25	IP55	56-119	120-179	180-239	240-300
GCH2500/2SF	3200	2500	2000	1600	1250	5.0/1.25	3.05/0.77	8.2/4.4	2	10x28	78	4.5	IP55	56-119	120-179	180-239	240-300



Photo courtesy of FLGS, Essex

ELECTRIC CHAIN HOISTS TYPE GCH1600/2000/2500 - DIMENSIONS



DIMENSIONS (mm)

Hoist types	A1	A2	A3	A4	B1	B2	B3	C1	C2	C3	H1- Eye	H1- Hook
GCH 1600/1	345	424	221	75	389	180	37	230	135	696	608	646
GCH 1600/2	345	424	263	75	389	180	37	230	135	696	690	728
GCH 2000/1	345	424	221	75	389	180	37	230	135	696	608	646
GCH 2000/2	345	424	263	75	389	180	37	230	135	696	690	728
GCH 2500/1	345	424	221	75	389	180	37	230	135	696	608	646
GCH 2500/2	345	424	263	75	389	180	37	230	135	696	690	728



Product data and CAD drawings are available on request to our sales office by email: sales@liftturnmove.co.uk
Errors and omissions excluded

GIS TROLLEYS

TYPE GHF, EHF AND EMF, PUSH AND ELECTRIC TRAVEL

GIS TROLLEYS

GIS trolleys are simple in design and allow smooth transportation of loads up to 5000 kg on steel beams. The electric chain hoist serves as the lifting device.

The travel movement, tailored to the load capacity and conditions is either manually or electrically driven.

The integrated fall and climbing protection ensures maximum safety.

Due to their good handling characteristics and longevity GIS trolleys are often used as components for end carriages for underslung travelling cranes.

SCOPE OF SUPPLY

- » Push trolleys type GHF and EHF consist of 2 side plates and support bolt(s)
- » Electric trolleys type EMFE consist of 2 side plates, support bolt(s), counterweight, motor & DC-spring loaded brake with control equipment
- » Connection cable to hoist - now with plug and socket connections
- » 2 or 4-button control switch with E- stop
- » Control cable length dependant on lifting height



GHF500
Lifting capacity up to 500 kg



EHF50 - 500
Lifting capacity up to 5000 kg



EMFE50 - 500 3-PH
Lifting capacity up to 5000 kg

Classification ISO (FEM) Type	M3 (1Bm) 150 s/h, 25 % duty Load capacity	M4 (1Am) 180 s/h, 30 % duty	M5 (2m) 240 s/h, 40 % duty	M6 (3m) 300 s/h, 50 % duty	M7 (4m) 360 s/h, 60 % duty	Speed 50 Hz	Motor power	Current 3 x 400 V 50 Hz	Protection class	Weight, for standard flange width	Flange width	Minimum curve radius	Maximum flange thickness
	(kg)					(m/min)	(kW)	(A)		(kg)	(mm)	(mm)	(mm)
GHF500	500	500	500	400	320	-	-	-	-	2.5	50 - 149	1200	24
EHF50	1000	800	630	630	500	-	-	-	-	7.5	50 - 240	1200	24
EMFE50/N	1000	800	630	630	500	12	0.25	0.8	IP55	27	50 - 240	1200	24
EMFE50/NF	1000	800	630	630	500	12/4	0.15/0.045	0.65/0.75	IP55	27	50 - 240	1200	24
EMFE50/SF	800	800	630	630	500	20/6	0.15/0.045	0.65/0.75	IP55	27	50 - 240	1200	24
EMFE50/N FU	1000	800	630	630	500	2-20	0.25	0.8	IP55	27	50 - 240	1200	24
EHF150	2000	2000	1600	1600	1250	-	-	-	-	13.5	76 - 320	1500	27
EMFE150/N	2000	2000	1600	1600	1250	12	0.25	0.8	IP55	31	76 - 320	1500	27
EMFE150/NF	2000	2000	1600	1600	1250	12/4	0.15/0.045	0.65/0.75	IP55	31	76 - 320	1500	27
EMFE150/SF	1600	1600	1600	1600	1250	20/6	0.15/0.045	0.65/0.75	IP55	31	76 - 320	1500	27
EMFE150/N FU	2000	2000	1600	1600	1250	2-20	0.25	0.8	IP55	31	76 - 320	1500	27
EHF300	4000	4000	3200	2500	2500	-	-	-	-	27.5	56 - 300	1800	30
EMFE300/N	4000	4000	3200	2500	2500	12	0.25	0.8	IP55	50	56 - 300	1800	30
EMFE300/NF	4000	4000	3200	2500	2500	12/4	0.15/0.045	0.65/0.75	IP55	50	56 - 300	1800	30
EMFE300/SF	3200	3200	3200	2500	2500	20/6	0.15/0.045	0.65/0.75	IP55	50	56 - 300	1800	30
EMFE300/N FU	4000	4000	3200	2500	2500	2-20	0.25	0.8	IP55	50	56 - 300	1800	30
EHF500	5000	4000	3200	3200	2500	-	-	-	-	27.5	56 - 300	1800	30
EMFE500/N	5000	4000	3200	3200	2500	12	2x0.25	2x0.8	IP55	57	56 - 300	1800	30
EMFE500/NF	5000	4000	3200	3200	2500	12/4	2x0.15/0.045	2x0.65/0.75	IP55	57	56 - 300	1800	30
EMFE500/SF	4000	4000	3200	3200	2500	20/6	2x0.15/0.045	2x0.65/0.75	IP55	57	56 - 300	1800	30
EMFE500/N FU	5000	4000	3200	3200	2500	2-20	2x0.25	2x0.8	IP55	57	56 - 300	1800	30

- » Standard power: 400 V, 3Ph, 50 Hz, 110/220V, 1 Ph, 50 Hz available on request
- » 42 V low voltage control
- » EHF and EMFE - side plates and load wheels made of cast iron
- » GHF - Side plates made of die-cast aluminium and load wheels made of glass fibre reinforced plastic (GHF)
- » Support bolts zinc-plated
- » Anti drop protection

WIDER BEAM WIDTHS ON TROLLEYS - PUSH OR ELECTRIC

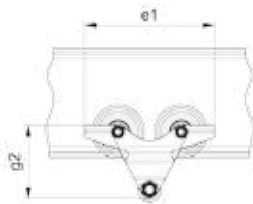
Hoist Type	Trolley Type	Lifting capacity	Beam Width
		kg	mm
GP250/ 500	EHF50+ EMFE50	1000	50- 99
GP250/ 500	EHF50+ EMFE50	1000	100-149
GP250/ 500	EHF50+ EMFE50	1000	150-200
GP250/ 500	EHF50+ EMFE50	1000	201-240
GCH1000	EHF150+ EMFE150	2000	76-139
GCH1000	EHF150+ EMFE150	2000	140-199
GCH1000	EHF150+ EMFE150	2000	200-259
GCH1000	EHF150+ EMFE150	2000	260-320
GCH1600/2000/2500	EHF300/500 + EMFE300/500	5000	56-119
GCH1600/2000/2500	EHF300/500 + EMFE300/500	5000	120-179
GCH1600/2000/2500	EHF300/500 + EMFE300/500	5000	180-239
GCH1600/2000/2500	EHF300/500 + EMFE300/500	5000	240-300

Wider beam widths available on request

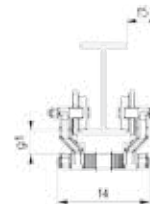
TYPE GHF, EHF AND EMF, PUSH AND ELECTRIC TRAVEL - DIMENSIONS

GHF500 PUSH TRAVEL WITH GLASS FIBRE WHEELS, 500KG LIFTING CAPACITY

GHF500

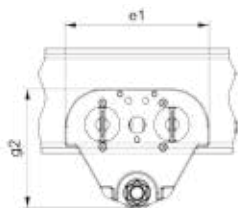


GHF500

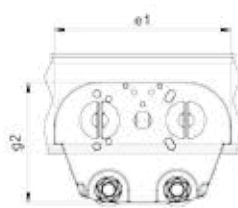


EHF50/ 150/ 300/ 500 PUSH TRAVEL WITH STEEL WHEELS, 250 - 5000KG LIFTING CAPACITY

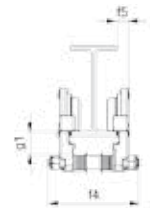
EHF50/150



EHF300/500

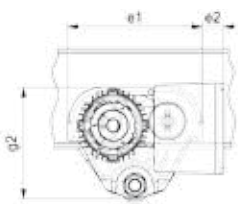


EHF50 - 500

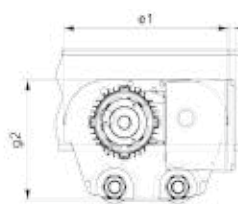


EHFE50/ 150/ 300/ 500 PUSH OR ELECTRIC TRAVEL WITH STEEL WHEELS, 250 - 5000KG LIFTING CAPACITY

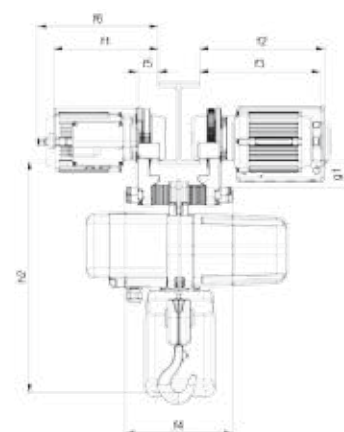
EMFE50/150



EMFE300/500



EMFE50 - 500



DIMENSIONS (mm)

Type	e1	e2	f1	f2	f3	f4	f5	f6	g1	g2	h2				Standard Flange width	Schematic drawing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)				(mm)	
Hoist Type											GP250/1	GP250/1	GP250/2	GP500/1		
GHF300	215	-	-	-	-	183	64	-	48	122	378	454	480	482	50 - 99	9248.9251.3
Hoist Type											GP250/1	GP250/2	GP500/1	GP500/2		
EHF50	215	-	-	-	-	183	23	-	49	167	455	481	463	502	50 - 99	9248.9200.5
EMFE50	215	62	209	250	241	183	23	-	49	167	455	481	463	502	50 - 99	9248.9217.5
Hoist Type											GP1000/1	GP1000/2				
EHF150	250	-	-	-	-	230	27	-	60		595	655			76 - 139	9248.9202.5
EMFE150	250	43	211	253	242	230	27	-	60		595	655			76 - 139	9248.9218.5
Hoist Type											GCH1600/1	GCH1600/2	GCH2000/1	GCH2000/2		
EHF300	311	-	-	-	-	290	31	-	55	218	637	719	637	719	120 - 179	9248.9204.5
EMFE300	311	12	217	259	249	290	31	-	55	218	637	719	637	719	120 - 179	9248.9219.5
Hoist Type											GCH2500/1	GCH2500/2				
EHF500	311	-	-	-	-	290	31	-	55	218	637	719			120 - 179	9248.9204.5
EMFE500	311	12	-	259	249	290	31	249	55	218	637	719			120 - 179	9248.9220.5

Errors and omissions excluded

GIS ELECTRIC CHAIN HOISTS CONSIDERATIONS AND CUSTOM



When assessing an electric hoist application it is advisable to consider the following:

POWER SUPPLY

We offer hoists for 400V 3Ph 50Hz or 220V or 110V 1Ph 50Hz from transformers. We offer power supplies to suit almost any used. Note that a 3 phase hoist will last longer than a single phase unit.

HOISTS WORKING OUTSIDE OR IN AGGRESSIVE CONDITIONS

GENERAL - If a hoist is used or parked outside then consideration must be given to the level of protection provided. They should be stored under a kennel type cover for longevity. Textile weather covers for hoists and trolleys will protect the hoist from the worst of the elements - we can supply these. Hoists should be moved indoors for storage when not in use.

GP HOIST has IP (Ingress Protection), rating of IP65- protected against dust ingress and low pressure water jets from any direction. The controls are protected in a sealed enclosure and little else can be affected by water ingress, outdoor hoists are subject to chain corrosion, GP chain is black manganese phosphate protected -this provides high corrosion resistance and improved dry running properties, regular oiling is required and protects it further.

GCH HOIST has IP rating of IP55- protected against dust ingress and low pressure water jets from any direction. There are a number of additional features which can be fitted including upgrading the hoist to IP65.

- » Galvanised chain is standard on GCH hoists – chain will corrode when used outside. Galvanised chain protects against the elements and regular oiling protects and is required
- » Stainless Steel Chain can be provided
- » Release & Over Pressure Valves – when a hoist is hot from running or from being in the sun all day, the pressure built up inside the hoist will evacuate some of the air causing under pressure, as the hoist cools it naturally draws in whatever is in the atmosphere. The valve equalises this pressure and prevents moisture from entering, if this protection is selected we also dip the transformer in varnish, a wax that coats the transformer and provides tropical protection.
- » Textile weather cover- this will protect the hoist from the worst of the elements



LOCKING HOOK

GIS ELECTRIC CHAIN HOISTS CONSIDERATIONS AND CUSTOM SOLUTIONS WE CAN OFFER

UPPER OR LOWER SUSPENSIONS

- » Upper suspension can be an eye (opening eye on GP, fixed on GCH) or swivel hook with safety catch
- » Connections into trolleys are eye or swivel hook or a custom plate for larger hoists into push or electric trolleys or into GISKB track trolleys

Option - locking hooks- body or chain type, these lock automatically and do not release under load

HANDLES

- » Carrying handles can be added to the chain hoist body

GEARED LIMIT SWITCHES - ARE STANDARD

These limits are set to the highest and lowest positions before the hoist leaves us. These can be easily re-set. Mechanical stops, fitted on chain are standard

Options include:

- » Two emergency limits in addition to working units
- » Proximity Limit Switches

CONTROLS

- » Pendant control - GIS control switches 2 or 4 button type (plus E stop) are standard but other types can be supplied
- » Option - Portable or wall mounted control units to operate multiple chain hoist systems
- » Option - Radio control (wireless) – for single or multiple hoist systems see page 16

POSITIONAL ENCODERS

Encoders can be fitted to the load chain wheel and can give accurate positional information to a control system. Two types are available incremental or absolute, control systems are needed for feedback from the encoders (LTM can provide).

STANDARD HOOK WITH GUIDED SAFETY CATCH



LOAD CELLS

- » External units can be supplied within shackles etc.
- » Separate control panels with monitoring system and cabling is required (LTM can provide, see pages 37 & 38)

FREQUENCY INVERTERS

- » Hoists and Electric Trolleys are available with frequency inverter drive - this offers variable speeds and higher duty factors, a 1t hoist normally running at 8m/min will give high duty at speeds between 1.28-13.92 m/min.

OTHER HOIST OPTIONS

- » Second brake
- » Operating data counter to monitor operational time
- » PTC resistor to detect overheating

OTHER GIS HOIST VARIATIONS

- » GIS Single Phase Hoists - 110 or 220V power
- » GIS Food and Pharmaceutical grade hoists with stainless steel components and special coating on body
- » GIS Handy for mounting on manipulator arms - chain or telescopic type
- » GIS Low headroom hoists
- » GIS Synchron with twin lifting hooks
- » GIS Hoists for wind turbine applications
- » GIS ATEX hoists for dust or gas
- » GIS Hoists for Entertainment applications, see pages 24 - 26
- » If you have any questions regarding GIS electric hoist or options please ask a member of the LTM sales team - we are always happy to offer advice

RADIO REMOTE CONTROL FOR GIS HOISTS

FEATURES:

- » The radio remote control allows you to operate hoists remotely
- » The hoist has a plug in unit to connect with the handset
- » Handset has either 2, 4 or 6 buttons plus E-stop
- » Control of various travel or lifting units and tandem operation is possible, operation of 1 or 2 hoists or both at the same time (for synchronous lifting)
- » PIN code to prevent unauthorized use, up to 10 PIN codes can be programmed in order to prevent the unauthorized use of the remote control.
- » The code will be entered into the hand transmitter at start-up.
- » An LED display (green, red) shows the current battery condition of the transmitter
- » It is possible to set an automatic disconnection after 2, 6 or 12 minutes to conserve battery power on the transmitter.
- » At low battery condition or if an error occurs, an audible warning signal is triggered
- » Auto switch-off to save battery
- » Available with plastic covers as protection
- » Approved according to SIL3 IEC 61508 and PL e standard
- » Plug in pendant & cable also supplied in case of problems



GIS HOIST ON A GANTRY BEAM APPLICATION, SUSPENDED FROM SCAFFOLD

GIS GP ELECTRIC CHAIN HOIST – SINGLE PHASE 110/220V

GIS GP ELECTRIC CHAIN HOIST- SINGLE PHASE 110/220V

- » Standard GIS hoist & trolleys with 110V or 220V single phase power supply
- » Lifting Capacities 125 - 2000kg
- » Light weight
- » Carrying handles fitted
- » Fitted with CEE Power connector (32A) and 2m of feed cable
- » Protected to IP65, suitable for outside use when a weather cover is used
- » Control cable length depending on lifting height
- » 110 V or 230 V control voltage on GPM250
- » 42 V low voltage control on GP250/500
- » Profile steel chain according to EN818-7 case hardened and manganese phosphated
- » Utilisation period 1600 h (ISO 4301-1:D, M5, 40% duty factor)

SCOPE OF SUPPLY

- » GIS electric chain hoist with hook suspension, 2-button control switch with emergency-stop,
- » Trip limit switch for highest and lowest hook position,

Options include

- » Fabric Chain containers
- » Eye (opening) suspension



SPECIFICATION

Hoist Type	Lifting capacity/ duty classification- FEM class 2m, 240 s/h, 40% duty	Lifting speed-	Motor power	Current	Number of chain falls	Chain size	Weight equipped 3m lift	Chain weight per meter	Protection class
		50Hz							
		(m/min)	(kW)	(A)		mm	(kg)	(kg)	
GPM250/1N1Ph	125	8	0.25	2.9	1	3.75 x 10.75	17	0.34	IP65
GPM250/1NL1Ph	250	4	0.25	2.9	1	3.75 x 10.75	17	0.34	IP65
GP250/1N1Ph	250	8	0.55	4.7	1	3.75 x 10.75	24	0.34	IP65
GP250/1NL1Ph	250	4	0.55	4.7	1	3.75 x 10.75	24	0.34	IP65
GP250/2N1Ph	500	4	0.55	4.7	2	3.75 x 10.75	25	0.68	IP65
GP250/2NL1Ph	500	2	0.55	4.7	2	3.75 x 10.75	25	0.68	IP65
GP500/1N1Ph	250	8	0.55	4.7	1	5.25 x 15	26	0.69	IP65
GP500/1NL1Ph	500	4	0.55	4.7	1	5.25 x 15	26	0.69	IP65
GP500/2N1Ph	500	4	0.55	4.7	2	5.25 x 15	28	1.38	IP65
GP500/2NL1Ph	1000	2	0.55	4.7	2	5.25 x 15	28	1.38	IP65
GP1000/1NL1Ph	1000	4	1.5		1	7.45 x 23	57	1.37	IP65
GP1000/2NL1Ph	2000	2	1.5		2	7.45 x 23	61	2.74	IP65

GIS ELECTRIC TROLLEYS EMFE50 - 150

Electric travel trolleys EMFE are available in a 1-phase version for workshop use

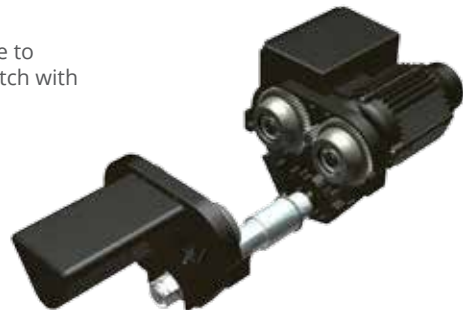
SCOPE OF SUPPLY

- » Electric trolley consisting of 2 side plates, wheels made of cast iron, support bolt- zinc plated, counterweight, motor/gearbox and DC-spring loaded brake,
- » Standard GIS trolley with 110V or 220V single phase power supply

- » Plug & socket connection cable to hoist and 4-button control switch with emergency stop
- » 42 V low voltage control

Options include

Weather cover for drive unit



SPECIFICATION

Trolley type	Lifting capacity (kg)/ duty classification- M3/FEM class 1Bm, 150 s/h, 25% duty	Travel speed-	Motor power	Current	Weight, standard beam width	Protection class	Flange width	Minimum curve radius	Maximum flange thickness
		50Hz							
		(m/min)	(kW)	(A)	(kg)		(mm)	(mm)	(mm)
EMFE50/N 1Ph	1000	12	0.25	1	27	IP55	50- 240	1200	24
EMFE150/N 1Ph	2000	12	0.25	1	31	IP55	76- 320	1500	24

GIS GP-R ELECTRIC CHAIN HOIST WITH STAINLESS STEEL COMPONENTS

The GIS GP-R food grade hoists are suited for lifting applications in food or pharmaceutical production or when operating in washdown, environmentally-controlled, harsh corrosive processing environments or for outside use in water industry or marine applications.

Available in versions up to 1250kg lifting capacity. The hoist features highly sealed IP65 bearings, food grade lubrication, stainless steel components and a special Electrophoresis KTL plated hoist body and covers- food grade.

Chain lubrication – CALOR USDA H1, this is resistant to water washout and ensures excellent lubrication for machinery over a wide range of operating temperatures. This lubrication is a semifluid grease suitable for use in food factory applications where the risk of food contact exists.

GIS GCHR - FOOD GRADE HOISTS AND TROLLEYS, UP TO 1250KG LIFTING CAPACITY

- » Stainless steel chain, single or double fall hook clamps, load hook, chain guide, suspension unit- hook or eyebolt and bolts/screws
- » High alloy steel components- chain wheel, guide roller
- » Aluminium components- casing, limit stop assembly
- » Body, black KTL plated, resistant against flaking and water, oils, scant alkalis and acids
- » Gear grease - food grade
- » Geared limit switches for highest and lowest hook position
- » Control pendant- Fully Sealed
- » Fitted with stainless steel link type load chain
- » IP65 Protection as standard

OPTIONS

Push or Electric Trolleys available in various protection levels with optional stainless steel or polyamide wheels



SPECIFICATION

Classification	Lifting capacity (kg)/duty classification- M4/FEM class 1Am, 180 s/h, 30% duty	Lifting capacity (kg)/duty classification- M5/FEM class 2m, 240 s/h, 40% duty	Lifting speed - 50 Hz (m/min)	Motor power (kW)	Current 400 V, 3 Ph, 50Hz (A)	Number of chain falls	Chain size (mm)	Weight equipped 3m lift (kg)	Chain weight per meter (kg)	Protection class	Sound pressure level in hall @1m distance (dBA)
SINGLE SPEED HOISTS											
GP500/1N	320	250	8	0.72	2.8	1	5 x 15	26	0.52	IP65	70
GP500/1NL	320	250	4	0.55	1.8	1	5 x 15	26	0.52	IP65	70
GP500/2N	630	500	4	0.72	2.8	2	5 x 15	28	1.04	IP65	70
GP500/2NL	630	500	2	0.55	1.8	2	5 x 15	26	0.52	IP65	70
GP1000/1N	630	500	8	2.3	6.4	1	7 x 22	57	1.37	IP65	80
GP1000/2N	1250	1000	4	2.3	6.4	2	7 x 22	61	1.37	IP65	80
TWO SPEED HOISTS - STANDARD SPEEDS											
GP500/1NF	320	250	8/2	0.72/0.18	2.8/1.7	1	5 x 15	26	0.52	IP65	70
GP500/2NF	630	500	4/1	0.72/0.18	2.8/1.7	2	5 x 15	28	1.04	IP65	70
GP1000/1NF	630	500	8/2	2.3/0.68	5.7/4.1	1	7 x 22	57	1.37	IP65	80
GP1000/2NF	1250	1000	4/1	2.3/0.68	5.7/4.1	2	7 x 22	60	1.37	IP65	80
TWO SPEED HOISTS - SPECIAL SPEEDS											
GP500/1SF	320	250	16/4	0.72/0.18	2.8/1.7	1	5 x 15	26	0.52	IP65	70

GIS ELECTRIC CHAIN HOIST - ATEX DUST / GAS PROOF

GIS ATEX electric chain hoist is suitable for use in dust and gaseous areas. Ideal for atmospheres such as paper, paint, petrochemical, refineries, mining, milling and where gas or dust is present.

Dustproof Execution	Gasproof Execution
<p>II 3D EX TC IIIB T130 °C DC</p> <p>Equipment group II Equipment category 3 Zone 22 (D) Temperature = <130°C</p> <p>IP 65 Temperature monitoring¹ Geared limit switches Cable connections EEx</p>	<p>II 3 D IP 65 T 130°C II 3 G EEx II nZ T3</p> <p>Equipment group II Equipment category 3 Zone 22 (G) 22 (D) Temperature class T3</p> <p>IP 65 Temperature monitoring¹ Geared limit switch Cable connections EEx Overpressure monitoring² (required air pressure, connection plug ø 6mm)</p>

¹**Safety:** Main and creep speed of the electric chain hoist are separately monitored.

²**Safety:** In case of an air pressure drop within the hoist casing the control voltage is interrupted immediately.



Note - It is the responsibility of the purchaser/user to identify the classification of hoist required for the application.



ATEX PENDANTS



GIS GP-H, CHAIN & TELESCOPIC HANDY LIFTING HOIST



GIS HANDY CHAIN TYPE



GIS HANDY TELESCOPIC TYPE

GIS GP- H, CHAIN & TELESCOPIC HANDY LIFTING HOIST

These hoists are designed to ease repetitive manual handling, the Chain & Telescopic Handy work perfectly with articulated jib cranes and GISKB Track Crane Systems for quick & easy positioning of loads.

These are versatile hoisting appliances that have been designed with a clamp for easy mounting of lower hook, manipulator arms, vacuum lifting systems etc for repetitive handling of many types of loads.

THE GIS CHAIN HANDY allows positioning through the 2 speed rocker switch and flexible hand control in a comfortable and efficient way.

It has standard left and right hand operation and is available for safe lifting up to 500kg loads

THE GIS TELESCOPIC HANDY allows accurate positioning through the rigid telescopic guide system and 2 speed rocker switch . It has standard left and right hand operation and is available for

safe lifting up to 250kg loads

Rigid and smooth, Handy will even transport liquids.

Three standard telescopic lifting heights are available 1200, 1500 and 2000mm, all of which can have some eccentric loads (please consult us).

The control unit with rocker arms is mounted just below the lift chain to provide safe handling and maximum operator control- using one hand.

The push button station will accept a load hook or a variety of other suspension units.

All Handy hoists have fast two-speed lifting, high duty factors and are fitted with electrical limit switches and a slipping clutch to prevent overloading.

OPTIONS

- » Frequency inverter
- » Customised devices for load handling
- » Safety switch for slack chain shutdown on telescopic unit

Duty	Lifting capacity (kg)/ duty classification- M5/ FEM 2m, 240 s/h, 40% duty	Lifting capacity (kg)/ duty classification- M6/ FEM 3B, 300 s/h, 50% duty	Lifting capacity (kg)/ duty classification- M7, FEM 4m, 360 s/h, 60% duty	Lifting speed- 50 Hz	Motor power	Current 400 V, 3 Ph, 50Hz	Number of chain falls	Chain size	Weight equipped	Chain weight per meter	Protection class	Chain safety factor
Chain Type	(kg)	(kg)	(kg)	(m/min)	(kW)	(A)		(mm)	(kg)	(kg)		
GP- H 500/NF	500	400	320	8/2	0.72/0.18	2.8/1.7	1	5.25x15	25*	0.69	IP65	8:1
GP- H 500/SF	250	200	160	16/4	0.72/0.18	2.8/1.7	1	5.25x15	25*	0.69	IP65	8:1
* Based on 4m lift height												
Telescopic Type												
GP- HT500/NF	250	200	160	8/2	0.72/0.18	2.8/1.7	1	5.25x15	52		IP65	8:1
GP- HT500/SF	200	160	125	16/4	0.72/0.18	2.8/1.7	1	5.25x15	52		IP65	8:1

GIS ELECTRIC CHAIN HOISTS - LOW HEADROOM VERSIONS

TYPE GP-K AND GCH-K, UP TO 4000 KG



These electric chain hoists are designed for low-headroom buildings.
The chain is diverted through an additional block to decrease the headroom
Available with lengthened frame for large and bulky loads
Optionally with trolleys- push or electrically driven

STANDARD VERSIONS, GP-K AND GCH-K

- » Maximum load capacity (2 falls):
GP- K 500: 1000 kg;
GCH- K 1600 - 2500, 4000 kg
- » Power 400V, 3 Ph, 50Hz
- » Control 42 V low voltage
- » 1 or 2 lifting speeds
- » Standard lifting height 3 m, extra lift on request
- » Control cable length 1.8 m
- » Eyebolt suspensions
- » Geared limit switch
- » Ergonomic control switch with emergency stop
- » Protection class IP65 or IP55
- » Isolation class F (motor)
- » DC spring brake
- » Slipping clutch outside the drive train

ACCESSORIES & OPTIONS

- » Lengthened frame for large and bulky loads
- » Automatic chain oiling system
- » Other operating voltages
- » Other control voltages
- » Geared limit switch with two additional emergency stops
- » Operating hours and switching counter
- » Frequency inverter
- » Temperature monitoring to protect the motor against overheating
- » Brake with manual release
- » Chain bucket for various lifting heights
- » Lifting heights up to 20 m
- » Hook suspensions
- » Safety load hook- locking type
- » Electric and push trolleys
- » Radio remote control

GIS ELECTRIC CHAIN HOIST - SYNCHRON VERSION, TYPE GP-S AND GCH-S - WITH TWIN HOOKS



Synchron is ideal for transporting long bulky loads on 2 hooks.

The synchronous lifting of the hoist and the accurate levelling of the two load hooks assure precise positioning of the load without hook rotation.

This hoist is used in the automotive and printing industries among other applications.

- » Type GP- S and GCH- S, up to 2 x 1600 kg
- » Distance between load hooks according to requirements
- » Hook position individually adjustable using geared limit switch
- » GP- S has 2 hoists connected mechanically and electrically
- » GCH- S has 1 hoist with a dual load chain wheel and 2 separate chains

STANDARD VERSION

- » Load capacity: maximum 2 x 1600 kg (2-falls)
- » Power 400V, 3Ph, 50 Hz
- » Control 42 V low voltage
- » 1 or 2 lifting speeds
- » Standard lifting height 3 m
- » Control cable length 1.8 m
- » Eyebolt suspensions
- » Geared limit switches
- » Ergonomic control switch with emergency stop
- » Protection class IP65 or IP55
- » Isolation class F (motor)
- » DC spring brake
- » Slipping clutch outside the drive train

ACCESSORIES & OPTIONS

- » Hook centres according to requirements
- » Automatic chain oiling system
- » Mechanical connection between hoists for 4 synchronized chain falls (GP models only)
- » Different operating voltages
- » Different control voltages
- » Geared limit switch with two additional emergency stops
- » Operating hours and switching counter
- » Frequency inverter
- » Temperature monitoring to protect the motor against overheating
- » Brake with manual release
- » Chain bucket for various lifting heights
- » Lifting heights up to 20 m
- » Hook suspensions
- » Safety locking hook
- » Electric and push trolleys
- » Radio remote control

GIS ELECTRIC CHAIN HOIST TYPE GP-W - FOR WIND TURBINE USE

GIS electric chain hoists for wind power are used for transportation of spare parts and tools to the nacelle. The small body size and a lifting height of up to 200 metres makes this hoist ideal for wind turbine use.

Because of the long lifting height these hoists are equipped with some special features:

Dual speed- there is an automatic switch from normal to slow speed before the end position is reached, this function stops the load hook running against the hoist housing at high speed as this could cause damage.

The protection cone over the load hook eliminates the risk of the load hook snagging unintentionally.

High dual lifting speeds and a safety clutch as overload protection guarantee safe and efficient operation.

The chain guide is manufactured from weather resistant material to ensure long life in harsh environments.

The tail/ slack end of chain can be guided out of the way via a reinforced tube; this allows lower headroom with the chain diverted safely.

High duty motors- specially developed for an industry leading wind turbine manufacturer makes the GP- W ideal for extremely high lifts up to 200 metres.

The GCH Wind can be customised for almost any wind turbine lifting application

SPECIFICATION

- » Lifting capacity up to 1000kg on 1 chain fall
- » Lifting height up to 200 m
- » Temperature monitoring with shutdown function of the motor in case of overheating
- » Standard power supply 400V, 3Ph, 50Hz
- » Two lifting speeds 16/4 m/min.
- » Automatic switching from high to low lifting speed shortly before the stroke end by geared limit switch
- » Low voltage 42 V with control pendant with 1m cable
- » With hook cone to prevent accidental hook-up
- » With connecting cable with CEE connector
- » Slipping clutch outside the drive train
- » Special grade chain
- » Hook suspension

OPTIONS

- » Manual or motorised trolley
- » Chain container
- » Safety locking hook
- » Operating hours and switching counter
- » Brake with manual release



LIFTING APPLICATIONS IN ENTERTAINMENT VENUES

We have a specialised range of GIS and LoadGuard electric chain hoists for lifting applications in entertainment venues.

Hoists for normal rigging operation are offered together with hoists with higher safety factors and features to allow loads to be suspended above people or to lift above people.

We offer hoists and control panels for portable use or as wall mounted units for permanent installations. These operate a single hoist or many hoists together. Stage boxes, cable sets etc are also offered.

Please contact us to discuss your needs



GIS ENTERTAINMENT HOIST IN INVERTED MODE



GIS ENTERTAINMENT HOIST IN UPRIGHT MODE

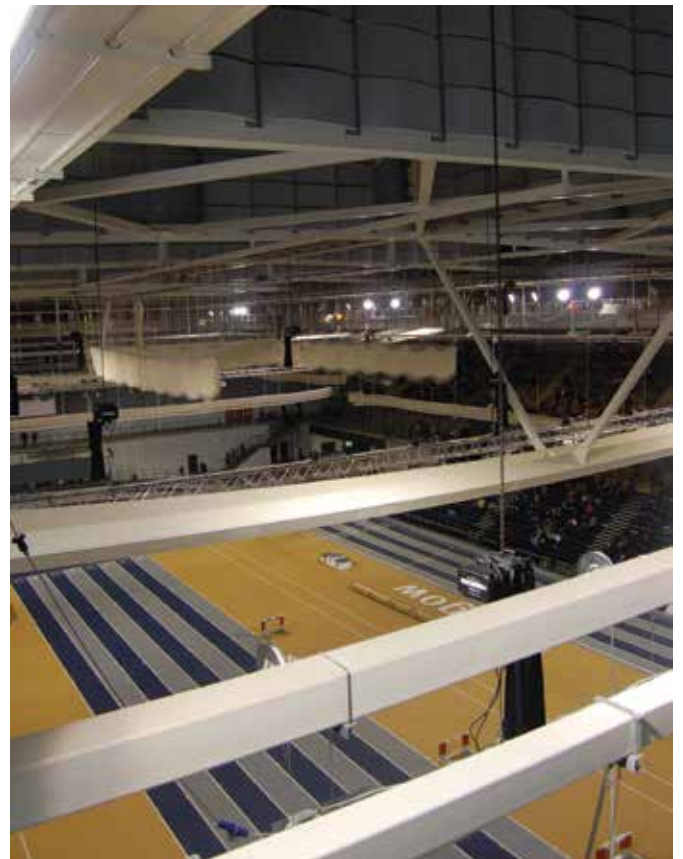


GUARDIAN WALL MOUNTED HOIST CONTROLLER FOR MULTIPLE HOIST OPERATION

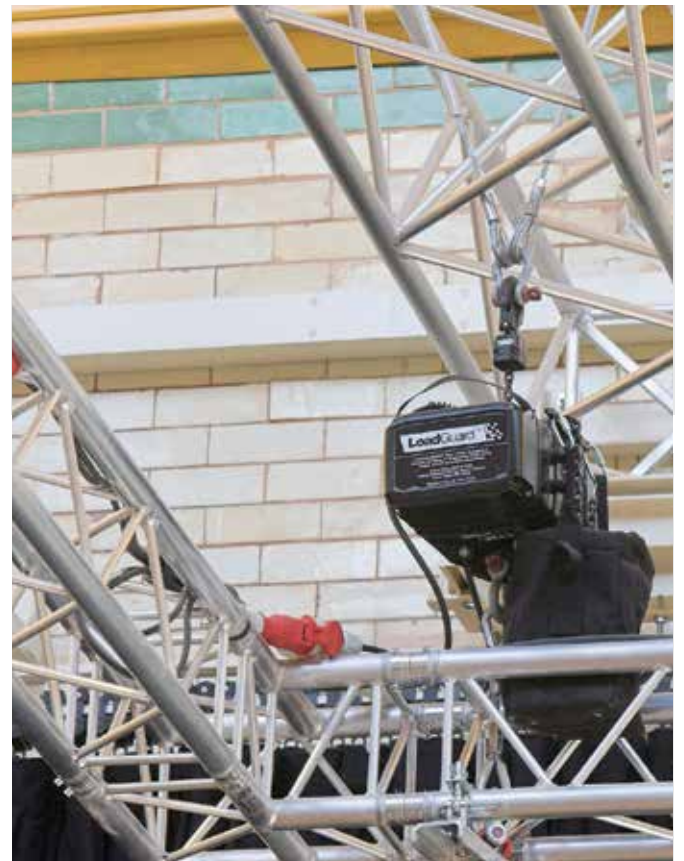


G-PRO PORTABLE HOIST CONTROLLER FOR MULTIPLE HOIST OPERATION

GIS & LOADGUARD ENTERTAINMENT LIFTING APPLICATIONS



GIS & LOADGUARD ENTERTAINMENT LIFTING APPLICATIONS

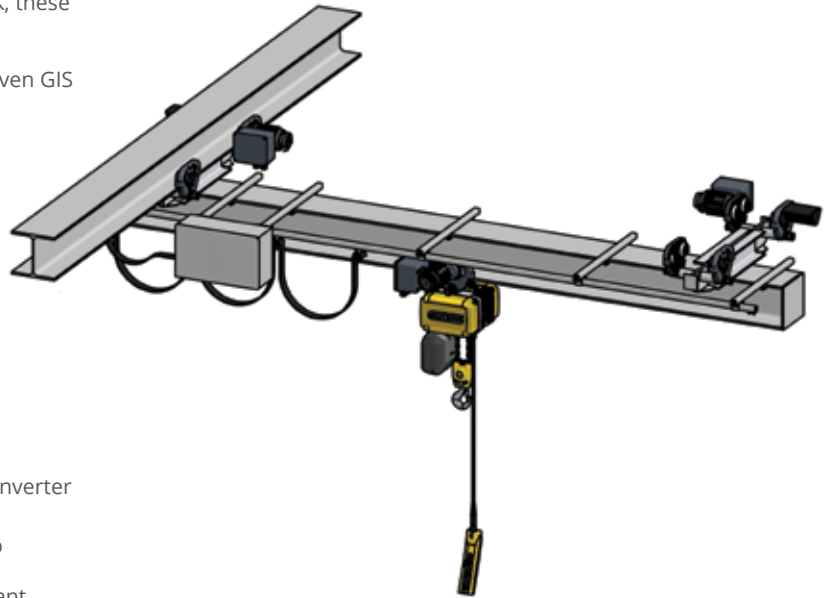


GIS CRANE END CARRIAGES - FOR UNDERSLUNG CRANES



We offer sets of GIS Underslung Crane End Carriages Type ERK, these consist of:

- » Two steel channel frames which connect driven and non-driven GIS hoist trolleys mounted in each end carriage
- » Total carriage load up to 6300kg, crane span up to 12.5m
- » Wheel centres between 800- 2000 mm
- » Drilled for mounting of a single crane beam
- » Supplied with grey primer finish in RAL7035



OPTIONS

- » GIS electric chain hoists
- » Control panel for crane travel
- » Pendant push button boxes and cable
- » Conductor systems to transfer power and control
- » Two speed as standard or variable speeds using frequency inverter

This allows the construction of simple underhung cranes up to 5t lifting capacity. You supply the crane beam and as much equipment as you want.

SPECIFICATION

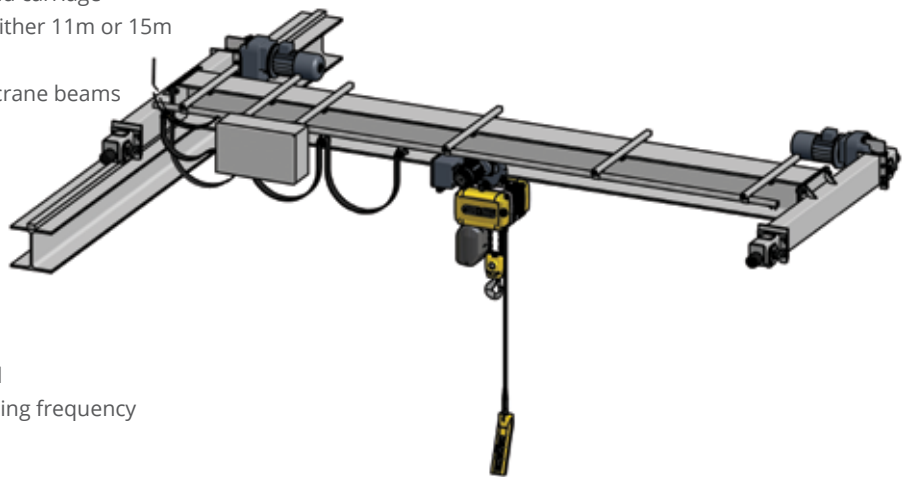
Product Code	Max. Crane Lifting Capacity (kg)	Max. load each end carriage (kg)	Wheel centres (mm)	Max. Crane Span (m)
ERK50-800	1000	1250	800	5.00
ERK50-1200	1000	1250	1200	7.50
ERK50-1600	1000	1250	1600	10.00
ERK50-2000	1000	1250	2000	12.50
ERK150-800	2000	2500	800	5.00
ERK150-1200	2000	2500	1200	7.50
ERK150-1600	2000	2500	1600	10.00
ERK150-2000	2000	2500	2000	12.50
ERK300-800	4000	5000	800	5.00
ERK300-1200	4000	5000	1200	7.50
ERK300-1600	4000	5000	1600	10.00
ERK300-2000	4000	5000	2000	12.50
ERK500-800	5000	6300	800	5.00
ERK500-1200	5000	6300	1200	7.50
ERK500-1600	5000	6300	1600	10.00
ERK500-2000	5000	6300	2000	12.50

GIS CRANE END CARRIAGES - FOR TOP RUNNING CRANES



We offer sets of GIS Top-Running Crane End Carriages, these consist of:

- » Box frames with driven and non- driven double flanged wheels in each end carriage, a geared motor drives each end carriage
- » Maximum wheel load 3500kg, crane span up to either 11m or 15m
- » Wheel centres 1800 or 2300 mm
- » Drilled for mounting of single and double girder crane beams
- » Wheels suit a 50mm wide rail
- » Supplied with grey primer finish in RAL7035



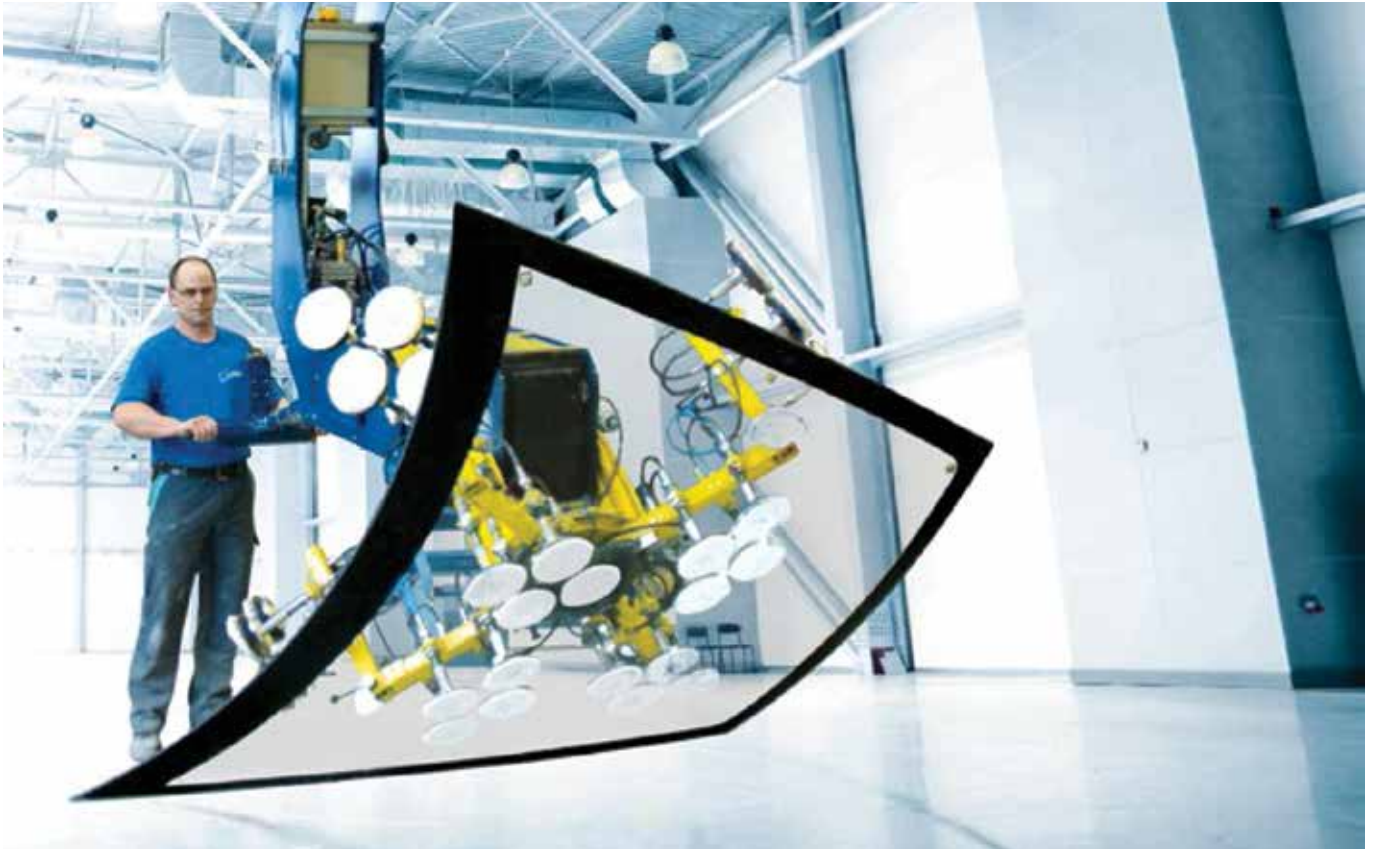
OPTIONS

- » GIS electric chain hoists
- » Control panel for crane travel
- » Pendant push button boxes and cable
- » Conductor systems to transfer power and control
- » Two speed or variable speeds up to 42 m/ min using frequency Inverters

This allows the construction of simple top running cranes up to around 5t lifting capacity. You supply the crane beam and as much equipment as you want.

SPECIFICATION

Product Code	Max. Crane Lifting Capacity	Max.wheel load	Wheel centres	Max. Crane Span	Weight per pair incl. drive unit	Travel Speed	Motor Power	Rail Width
	(kg)	(kg)	(mm)	(m)	(kg)	(m/min)	(kW)	(mm)
RTO 500- 1800mm	5000	3500	1800	11.00	255	25/ 6	0.34/ 0.09	50
RTO 500- 2300mm	5000	3500	2300	15.00	290	25/ 6	0.34/0.09	50



GIS VACUUM LIFTERS

GIS Vacuum Lifters guarantee gentle handling of materials like wood, glass, stone, metal or plastic. Flat, convex and concave shapes with smooth or porous surfaces can be safely, effortlessly and gently transported with the appropriate GIS Vacuum Lifter and GIS Lifting System.

USAGE

Irregularly shaped, heavy or porous goods?
Wood, metal, food, glass or general industry?
What previously took many operators can be done easily by one person now.
The optimum vacuum handling system, tailored to the particular requirement, brings productivity benefits and helps to reduce costs and reduce accidents.
Safe, convenient and ergonomic.

APPLICATIONS AND SOLUTIONS

Every application is assessed individually.
From standard products for sacks, cardboard boxes or panels, to customer-specific versions with porous wooden panels or heavy boards in furniture assembly, large sheets in the metal industry or convex or concave glass panes in vehicle construction.
Small loads with frequent handling or heavy, unwieldy goods with unusual handling requirements – every vacuum system is tailored to the application and assures gentle load handling.
For nearly all goods we can offer the best handling solution and build on 45 years of experience in the manufacture of vacuum handling systems.

YOUR BENEFITS

The Vacuum unit and all lifting and travelling movements are controlled from a central operating unit.
The devices are robust, durable and need little maintenance. They can be operated longitudinal or crossways depending on the requirement to move the load.
GIS Vacuum Lifters are equipped with an optical warning device as standard.
Vacuum as a complete solution- We offer GIS vacuum handling systems as a total solution including electric chain hoists, crane systems or jib cranes. The GIS suspended and slewing cranes are robust, simple to install and designed following the latest EC machine guidelines.

Complete systems - For optimum work place design, a crane system can be tailored to the vacuum device and the operational space available.

For smaller loads up to 250 kg, an overhead or jib crane with aluminium profile track is suitable due to its smooth running and light weight.

For loads over 250 kg, we recommend a more cost effective solution with steel profile GISKB track.

Specials and Accessories - A variety of special versions and a large range of accessories ensure practical solutions for every application. Whether the load has to be lifted or tilted/ turned, we support you with a customer-specific handling solution.

GIS VACUUM LIFTERS



GN/GNK

Load up to 500 kg
Larger loads on request

- » For slightly permeable goods: wooden panels and boards, concrete slabs, cardboard, textiles, cheese
- » Central operating unit for complete crane system. With mounting for customer's existing control system on request
- » Suction surfaces, traverses and operation can be tailored to customer needs
- » Fully complies with EN 13155 (flywheel mass, warning system, two-handed operation)
- » Diverse options and accessories are available
- » Versions for turning and shelf storage operation units available

YOUR BENEFITS

The vacuum production and all lifting and travelling movements can be controlled from a central operating unit. The devices are robust, durable and need little maintenance.

They can be operated longitudinal or crossways, depending on the operation required.

GIS Vacuum Lifters are equipped with an optical warning device as standard.



GHG/GHGE

Load up to 320 kg
Larger loads on request

- » For glass and other airtight goods
- » Central operating unit for the complete crane system.
- » With mounting for customer's existing control system on request
- » Small and lightweight devices with low purchase costs
- » Vacuum production with compressed air (no electrical cables necessary)
- » Suction surfaces, traverses and operation can be tailored to customer needs.
- » Various options and accessories are available
- » Fully complies with EN 13155 (vacuum tank, non-return valve etc)

GH /GHK

Load up to 1000 kg
Larger loads on request

- » Optionally with tilting device
- » For airtight goods: metal, plastic, glass, stone...
- » Central operating unit for complete crane system. With mounting for customer's existing control system on request
- » Weight-saving construction with low installation height
- » Suction surfaces, traverses and operation can be tailored to customer needs
- » Diverse options and accessories are available
- » Fully complies with EN 13155 (warning system, two-handed operation, vacuum tank, non-return valve etc)



GHG/ GHGE



GN/ GNK

GIS VACUUM LIFTERS



GISKB CRANE & MONORAIL SYSTEMS - OVERVIEW



**SINGLE BRIDGE
SUSPENDED CRANE**



**DOUBLE BRIDGE
SUSPENDED CRANE**



MONORAIL

SINGLE BRIDGE SUSPENDED CRANE

- » All-round load transportation up to 1250 kg (optional 2000 kg)
- » For normal headroom

DOUBLE BRIDGE SUSPENDED CRANE

- » All-round load transportation, up to 1250 kg (optional 2000 kg)
- » For lower headroom

MONORAIL WITH OPTIONAL BENDS, SWITCHES AND TURNABLES

- » To link work areas, up to 1550 kg load
- » Flexible line routing thanks to bends
- » Individual tracks can be connected using slide switches and turntables

GIS TRACK SWITCH/TURNTABLE

- » For accurate transition between tracks
- » Option: slide switches/turntables with internal or external conductor lines



BENDS

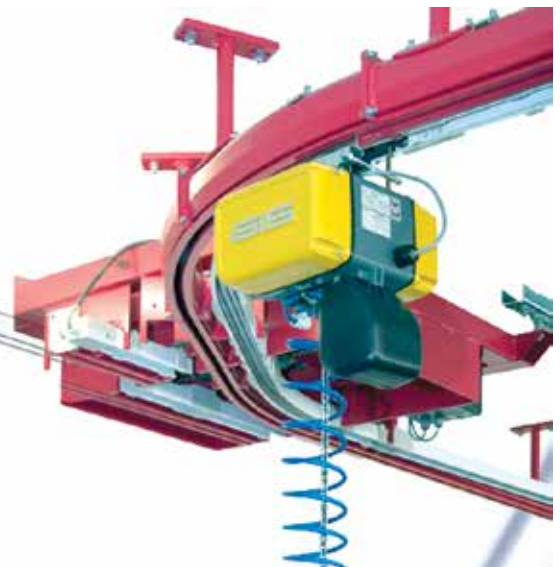
- » To reach individual work areas with accuracy
- » Optimum use of confined space

LOCKING SWITCHES

- » Cost-saving technology to cover partial working areas
- » No need for a complete crane system
- » Function: locking and moving into a lateral monorail

INTERNAL CONDUCTOR SYSTEM

- » The elegant alternative to trailing cables or looped wires
- » Placed inside the profile (for mechanical protection)
- » Ideal in confined spaces



BENEFITS TO YOU:

- » Reasonably priced, thanks to series-produced standard parts and rolled profiles
- » Simple to install, all components can be screwed/bolted
- » Manual or electrical crane/ trolley movement
- » Low noise level thanks to plastic guide rollers
- » Various power supplies
- » Guaranteed conversion or extension of existing crane systems

GISKB CRANE & MONORAIL SYSTEMS - TRACKS



TRACK

- » Four profile sizes
- » Connection plates on each end for bolting
- » Standard profile lengths, between 1m and 8 m
- » Special lengths to order

YOUR BENEFITS:

- » Excellent performance thanks to high load-carrying capacity
- » Simple to install, thanks to optimised design
- » Competitively priced, thanks to standard rolled profiles

OPTIMAL PROFILE SIZE

Use the table below to determine the optimal profile size, depending on the load and the span W.

» Without reinforcement

» With reinforcement

Basis: Max. permissible deflection = W/400, Max stress = 180 N/M2.

Hoist weight: 25 kg (up to load capacity of 500 kg), 50 kg (for load capacity over 500 KG)

MONORAILS

Lifting Capacity (kg)	GIS KB I Span (m)								GIS KB II Span (m)									
	Track only		NP 120		NP 160		NP 180		MR	Track only		NP 120		NP 160		NP 180		MR
100	4.7	5.9	7.8	7.8	7.8	7.8	7.8	7.8	7.5	7.2		7.8	7.8	7.8	7.8	7.8	7.8	7.8
125	4.4	5.6							6.9	6.9								
160	4.0	5.3							6.1	6.4	7.8							
200	3.7	4.9							5.6	6.0	7.5							
250	3.4	4.6	7.4						5.0	5.6	7.1							
320	3.1	4.2	6.8						4.2	5.1	6.6							7.6
400	2.8	3.8	6.3						3.3	4.7	6.2	7.6						6.8
500	2.5	3.5	5.5	7.5	7.5				2.9	4.3	5.7	7.1						5.8
630	2.0	3.2	4.5	7.0	6.3		7.3		2.3	3.8	5.2	6.4						4.5
800		2.8		6.4						3.2	4.8	5.2	7.7	7.0				3.6
1,000		2.5		5.6		7.5				2.7	4.3	4.3	7.1	5.8		6.6		3.1
1,250		2.1		4.6		6.4	7.4			2.7	3.9	3.5	6.5	4.7		5.4		2.6

SINGLE CRANE WITH BRIDGE SPAN W (M)

Lifting Capacity (kg)	GISKBIII - Span (m)	GISKBIV - Span (m)
100	8.2	10.5
125	7.8	10.2
160	7.4	9.9
200	7.0	9.3
250	6.5	8.9
320	6.0	8.2
400	5.5	7.7
500	5.1	7.2
630	4.6	6.6
800	4.1	5.9
1000	3.6	5.4
1250	2.9	4.9
1600	2.4	4.0

DOUBLE CRANE WITH BRIDGE SPAN W (M)

Lifting Capacity (kg)	GISKBIII - Span (m)	GISKBIV - Span (m)
100	9.4	11.8
125	9.1	11.6
160	8.7	11.3
200	8.5	11.0
250	8.1	10.8
320	7.6	10.1
400	7.2	9.7
500	6.7	9.3
630	6.2	8.5
800	5.7	8.0
1000	5.2	7.2
1250	4.7	6.7
1600	4.2	6.0

GISKB CRANE & MONORAIL SYSTEMS - SUSPENSION OPTIONS

SHORT RIGID (FIG 1)

- » Reduced headroom
- » The rigid suspension can only be supplied in the short version

SHORT, PENDULATING, ADJUSTABLE (FIG 2)

- » Ball pins and nuts are screwed together directly
- » Pendulation movements max. 10°
- » Height adjustable by ± 7.5 mm

DISTANCED, PENDULATING, ADJUSTABLE (FIG 3)

- » Distanced suspension, variable length
- » Height adjustable by ± 15 mm

DISTANCED, PENDULATING, ADJUSTABLE, BRACED (FIG 4)

- » Distance up to 0.5 m: bracing is mandatory
- » Longitudinal bracing: both ends of track
- » Transverse bracing: on one side, every 2nd suspension

LATERAL SUSPENSION

- » Lateral installation on wooden or concrete beam



2 TROLLEYS WITH TRAVERSE



**ROLLING APPARATUS
(CRANE CARRIAGE)**

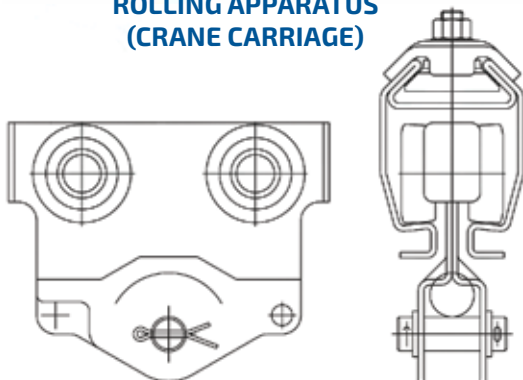


FIG 1



FIG 2



FIG 3



FIG 4

TROLLEYS

Components designed in galvanized steel

- » Use is guaranteed for longitudinal and transverse movements
- » Load sharing is ensured by 2 trolleys
- » On the saddle of a double crane bridge: 4 trolleys in use
- » Drive: manual or electrical tug

BENEFITS TO YOU:

- » Silent running thanks to plastic guide rollers
- » Ideal for awkward and critical loads
- » Easily converted from manual to electrical operation
- » Gentle start-up and braking thanks to the optional frequency inverter



ELECTRICAL DRIVE



**4 TROLLEYS WITH SADDLE
(TO REDUCE HEADROOM)**

GISKB CRANE & MONORAIL SYSTEMS - ELECTRICS, BENDS & SWITCHES



TRAILING CABLE



C-RAIL



ENCLOSED CONDUCTOR LINE

POWER SUPPLY

- » 400V, 3Ph, 50Hz or 220V, 1Ph, 50Hz
- » Or for your power supply

GISKB POWER SUPPLIES COMPLETE

- » Cable carriage, traction limit, connector, C-rail stop

4 TYPES OF LONGITUDINAL AND TRANSVERSE POWER SUPPLY:

- » Trailing cable
- » C-rail
- » Enclosed conductor line
- » Conductor line inside GISKB track

GISKB II ST INTERNAL CONDUCTOR LINE

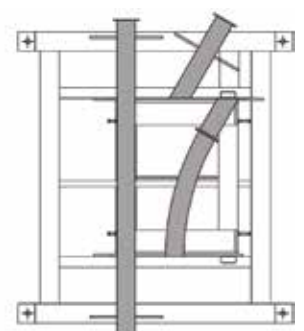
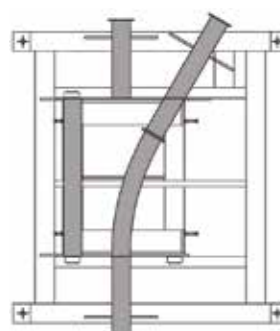
- » Flexible, universal
- » Attractive design
- » For universal use
- » Power: 25A with max.100 m profile length
- » Trolley design as for GISKB I (up to 800 kg)

BENDS

- » Can be supplied with angles of 30° and 45°
- » Radius: 1m
- » End plate at each end
- » Suspension from 2 points
- » Conductor line bends can be supplied with same angles as profile bends

SLIDE SWITCHES & TURNTABLES

- » Profiles are moved manually or electrically
- » Manual: with traction cable
- » Electrical: with 2-button control switch
- » Option: supplied with conductor lines
- » Trailing cable C-rail



INTERNAL CONDUCTOR SYSTEM

- » Internal conductor bars mounted inside the GISKB track
- » Maximum 40A for maximum 40m length
- » Current collector trolley available - independent from load carrying trolley
- » Modular construction
- » Neat & tidy - the conductor system is hidden

GUARDIAN INDUSTRIAL CONTROLLER RANGE - WALL MOUNTED



LTM build a range of controllers in wall mounted enclosures for a wide range of permanent installations.

We have supplied industrial wall mounted control panels which have served many areas of industry. These have included multi floor lift systems, elevator lifts, pit lifts & winch control.

We can supply encoders and PLC panels to suit any operation, working closely with Schneider UK we are able to integrate their components into our designs to suit your needs.

As standard the power input is hard wired, we can fit any suitable connector for easy installation.

The opening door of the controller has a green power on LED, lockable E-stop, a door isolator and a multipin ILME connector to connect the removable handset.

Available for 400V, 3Ph, 50Hz and 220V, 1Ph, 50Hz power supplies.

CONTROL HANDSET

Our controllers are supplied with a remote hand set with illuminated run buttons and lockable E-stop & reset button. We can also supply custom handsets to suit any installation.

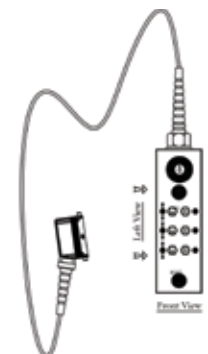
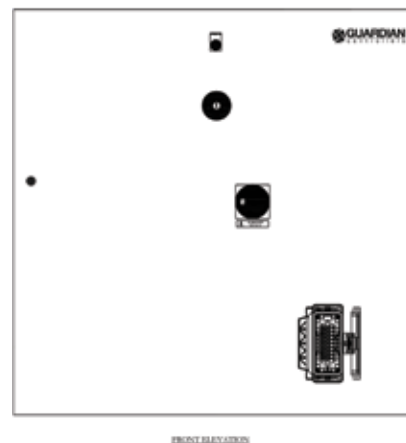
15 metres of cable is supplied as standard between the handset and the plug-in point on the controller.

FEATURES

- » Highly robust enclosure protection class IP66
- » Pendant connection point on front of panel with robust ILME connector to avoid damage
- » Acrylic stove finish
- » Wago push terminal connections for quick and easy termination of cables into main panel
- » Front mounted isolator and E-stop for easy access if required.
- » Quality and robust components from Schneider and Wago for a quality and long lasting control system
- » Schneider safety relay fitted as standard
- » CE certified

OPTIONS:

- » Powder coated enclosures
- » Additional control connection boxes (see separate datasheet)
- » Additional intermediate hoist connection boxes (see separate datasheet)
- » Controller upgrade to include PLC control, with handheld touchscreen controller
- » Loadcell overload/ underload monitoring (requires PLC upgrade module)
- » Absolute & incremental encoder positional monitoring option (requires PLC upgrade module)
- » Additional E-stop station boxes (see separate datasheet)
- » Custom control systems (see separate section below)



Typical Technical Drawing (Full Drawing Available on Request)



GUARDIAN INDUSTRIAL CONTROLLER RANGE - WALL MOUNTED

SPECIFICATIONS

Product Code	Control Specification Type	Maximum Terminal CSA (mm ²)	Max Control Voltage	Panel Dimensions (WxHxD)	Maximum Hoist Control	Enclosure Rating	Plug (Control) Specification	Input Supply (A)	Enclosure Finish
LOW VOLTAGE CONTROLLERS									
G2RLV3WMHW	Low Voltage	2.5mm ²	42V	400 x 500 x 200mm	2	IP66	ILME 27 PIN SQUICH CONNECTOR	16	RAL 7035 Stove finish
G4RLV3WMHW	Low Voltage	2.5mm ²	42V	500 x 500 x 200mm	4	IP66	ILME 27 PIN SQUICH CONNECTOR	32	RAL 7035 Stove finish
G6RLV3WMHW	Low Voltage	2.5mm ²	42V	600 x 600 x 200mm	6	IP66	ILME 27 PIN SQUICH CONNECTOR	32	RAL 7035 Stove finish
G8RLV3WMHW	Low Voltage	2.5mm ²	42V	600 x 800 x 200mm	8	IP66	ILME 27 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
G10RLV3WMHW	Low Voltage	2.5mm ²	42V	600 x 800 x 200mm	10	IP66	ILME 42 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
G12RLV3WMHW	Low Voltage	2.5mm ²	42V	800 x 800 x 200mm	12	IP66	ILME 42 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
DIRECT CONTROL CONTROLLERS									
G2RDC3WMHW	Direct Control	2.5mm ²	415V	400 x 500 x 200mm	2	IP66	ILME 27 PIN SQUICH CONNECTOR	16	RAL 7035 Stove finish
G4RDC3WMHW	Direct Control	2.5mm ²	415V	500 x 500 x 200mm	4	IP66	ILME 27 PIN SQUICH CONNECTOR	32	RAL 7035 Stove finish
G6RDC3WMHW	Direct Control	2.5mm ²	415V	600 x 600 x 200mm	6	IP66	ILME 27 PIN SQUICH CONNECTOR	32	RAL 7035 Stove finish
G8RDC3WMHW	Direct Control	2.5mm ²	415V	600 x 800 x 200mm	8	IP66	ILME 27 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
G10RDC3WMHW	Direct Control	2.5mm ²	415V	600 x 800 x 200mm	10	IP66	ILME 42 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
G12RDC3WMHW	Direct Control	2.5mm ²	415V	800 x 800 x 200mm	12	IP66	ILME 42 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish



ELECTRIC ROPE WINCH TYPE PFW



Lifting capacities from 250 to 3000 kg make this electric wire rope winch one of the most modern devices for pulling, lifting and moving loads. With an extensive range of configurations and finishing options it can be adapted to suit almost any installation, many options are available.

MADE IN GERMANY

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

STANDARD EQUIPMENT

- » Power supply 400V, 3Ph, 50 Hz
- » Protection class IP55 with class F Insulation
- » Ambient temperature from -10°C to +40 °C
- » Mechanism group acc. FEM 1.001: M3 (1Bm)
- » Contactor control 42V to combine safe equipment with price advantages
- » Pendant, wall mounted button box control

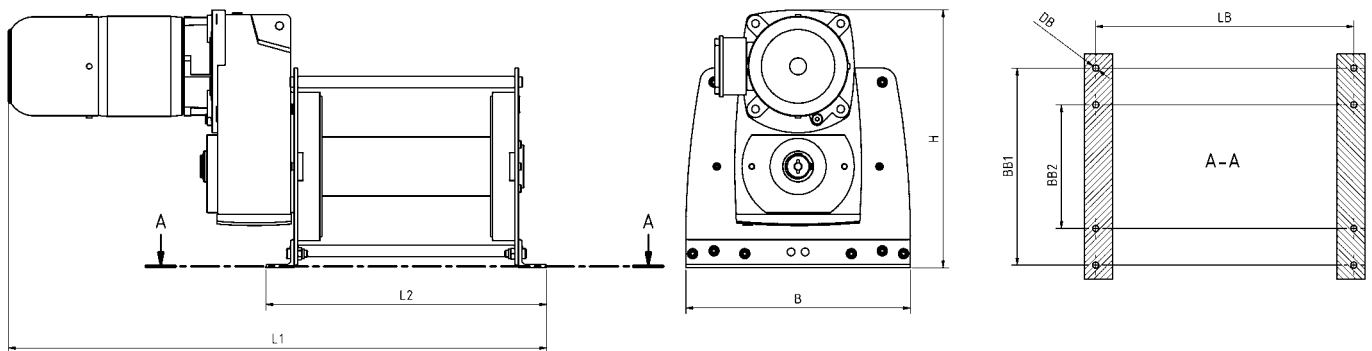
OPTIONS

- » Grooved drum with length to your requirements for higher rope storage or better spooling
- » Different power supply
- » 2 speeds or adjustable speed with frequency inverter
- » Free spooling clutch
- » Special painting and higher protection class of electrical equipment for outdoor and offshore applications
- » Drum pressure roller
- » Multiple ropes or drum dividers
- » Drum protection cover
- » Geared limit switches
- » Overload protection
- » Radio remote control
- » ATEX winches available

ELECTRIC ROPE WINCH TYPE PFW

SPECIFICATIONS

TYPE PFW-1D		250	500	750	1000	1500	2000	3000"
Lifting capacity- 1st rope layer	kg	250	500	750	1000	1500	2000	3000"
Lifting capacity- 5th rope layer	kg	160	320	480	640	950	1270	1920"
Rope diameter	mm	5	6	7	8	10	12	14"
Rope length- 1st rope layer	m	11	11	11	10	10	9	9"
Rope length- 5th rope layer	m	75	75	75	75	75	75	75"
Expansion every 100 mm of extended drum 1st/5th layer (approx.)	m	4/25	4/25	4/25	4/25	4/25	4/25	4/25"
Rope speed - 1st rope layer	approx. m/min	8	8	8	8	8	8	8"
Rope speed - 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"



DIMENSIONS

L1	L2	B	H	LTR	DTR	DFL	LB	BB1	BB2	DB	Weight without accessories approx. kg
860	460	270	310	300	65	155	430	220	-	13.5	35
910	460	320	340	300	80	190	430	250	-	13.5	60
910	460	360	420	300	92	220	430	310	-	13.5	75
1020	500	400	460	300	105	250	460	350	220	13.5	110
1060	500	460	550	300	130	310	460	410	280	13.5	155
1200	570	550	630	300	155	370	520	500	320	17.5	240
1300	570	620	690	300	185	430	520	560	380	17.5	380



WIRE ROPE WINCHES - CHECKLIST

For a quotation please fill in as much information as you can provide and return to us.

Company Name:	<input type="text"/>	Address:	<input type="text"/>
Contact:	<input type="text"/>		
Job Title:	<input type="text"/>	Email Address:	<input type="text"/>
		Phone:	<input type="text"/>

REQUIREMENTS

<input type="checkbox"/>	Hoisting (vertical)	<input type="text"/>	kg
<input type="checkbox"/>	Pulling (horizontal)	<input type="text"/>	kg
<input type="checkbox"/>	Rope capacity	<input type="text"/>	m
<input type="checkbox"/>	Line speed	<input type="text"/>	m/min
<input type="checkbox"/>	BGV D8 ¹		
<input type="checkbox"/>	Operating Temperature	<input type="text"/>	°C

MOTOR

<input type="checkbox"/>	Electric		
<input type="checkbox"/>	400V,3Ph,50Hz	<input type="checkbox"/>	230V,1Ph,50Hz
<input type="checkbox"/>	Protection IP	<input type="text"/>	Duty ratio <input type="text"/>
<input type="checkbox"/>	Indoor use		
<input type="checkbox"/>	Outdoor use		
<input type="checkbox"/>	Pneumatic		
<input type="checkbox"/>	Air pressure	<input type="text"/>	bar
<input type="checkbox"/>	Air capacity	<input type="text"/>	l/sec

¹ German Accident Prevention Regulations (BG) for winches, lifting and pulling equipment

² German Accident Prevention Regulations (BG) for event areas, studios and scenes

LTM - LIFT TURN MOVE LTD

Unit 2 Stadium Court, Wirral International Business Park
Plantation Road, Bromborough, Wirral, UK CH62 3QG

Tel: +44 (0)151 649 0467 Fax: +44 (0)151 649 0099
sales@LiftTurnMove.co.uk accounts@LiftTurnMove.co.uk

OPTIONS

<input type="checkbox"/>	Limit switches - upper/lower
<input type="checkbox"/>	Slack wire switch
<input type="checkbox"/>	Load limiter
<input type="checkbox"/>	Disengager / clutch (applicable for pulling winches only)
<input type="checkbox"/>	Pressure roller
<input type="checkbox"/>	Grooved drum
<input type="checkbox"/>	Divided drum
<input type="checkbox"/>	Other <input type="text"/>

CONTROLS

<input type="checkbox"/>	Pendant remote control	<input type="text"/>	m cable
<input type="checkbox"/>	Wall mounted control box with push-buttons		
<input type="checkbox"/>	Radio remote control		
<input type="checkbox"/>	Other <input type="text"/>		

PAINTING

<input type="checkbox"/>	Standard RAL 5010 Gentian blue
<input type="checkbox"/>	Special RAL-N°.: <input type="text"/>

DOCUMENTATION/TYPE PLATE

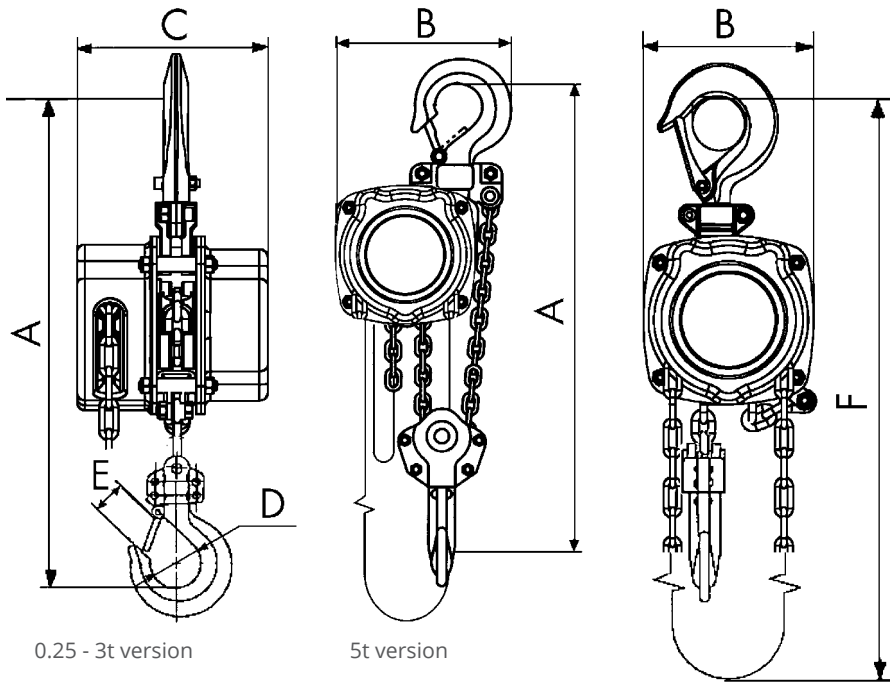
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<input type="checkbox"/>	German
<input type="checkbox"/>	French
<input type="checkbox"/>	Other <input type="text"/>

PLANETA – PREMIUM PRO HAND CHAIN BLOCK

The PREMIUM PRO Hand Chain Block is fitted with galvanised load chain
 Made in Germany according to EN 818-7-T
 Powder coated finish
 Range is available from 0.5t to 10t

FEATURES

- » Compact design – light weight
- » Despite the weight saving, it has improved working stability thanks to the clever construction
- » The Premium Pro Hand Chain Block comes with a premium powder coated housing for corrosion protection
- » Easily-accessible chain mounting
- » Grade 8 Load Chain used on all hoists except 10t – 3 chain falls which is grade 10. Chain conforms with DIN EN 818-7-T Standard (RUD supply)
- » Overload protection as standard
- » Hoist up to 3t on a single chain fall
- » Standard hoist with 3m lift, other heights on request



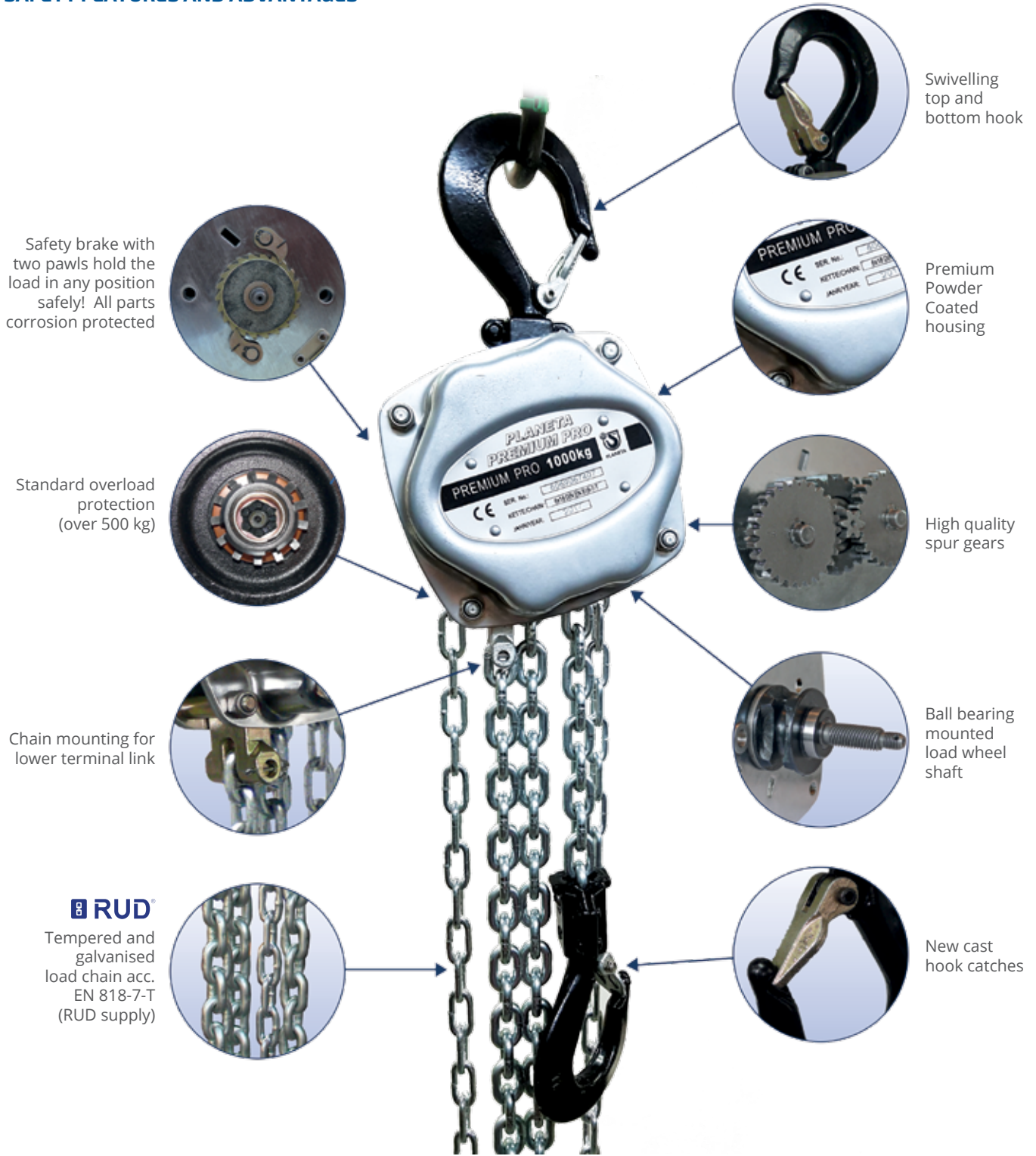
1t version
RUD

SPECIFICATION & DIMENSIONS

TYPE		PL/PLSPRO/050	PL/PLSPRO/010	PL/PLSPRO/020	PL/PLSPRO/030	PL/PLSPRO/500	PL/PLSPRO/100
Lifting Capacity	t	0.5	1	2	3	5	10
Standard lift	m	3	3	3	3	3	3
Min. headroom (A)	mm	309	373	460	553	630	900
Effort on hand chain	daN	24	30.5	36	37	39	39.5
Hand chain operation length	m	2.5	2.5	2.5	2.5	2.5	2.5
Number of chain falls		1	1	1	1	2	4
Load Chain size	mm	5 x 15	6 x 18	8 x 24	10 x 30	10 x 30	10 x 30
B	mm	114	152	190	240	240	391
C	mm	110	139	150	158	158	166
D	mm	33	40	52	62	72	85
E	mm	22	28	33	37	44	60
F	m	2.5	2.5	2.5	2.5	2.5	2.5
Weight with 3 m lift	kg	5.7	10.8	17.1	26.2	40	62
Weight for 1 m additional lift	kg	0.55	0.78	1.4	2.2	4.4	8.8

PLANETA – PREMIUM PRO HAND CHAIN BLOCK

SAFETY FEATURES AND ADVANTAGES



PLANETA – PREMIUM PRO RATCHET LEVER HOIST

SPECIFICATION & DIMENSIONS

The PREMIUM PRO Lever Hoist is fitted with galvanised load chain according to EN 818-7-T

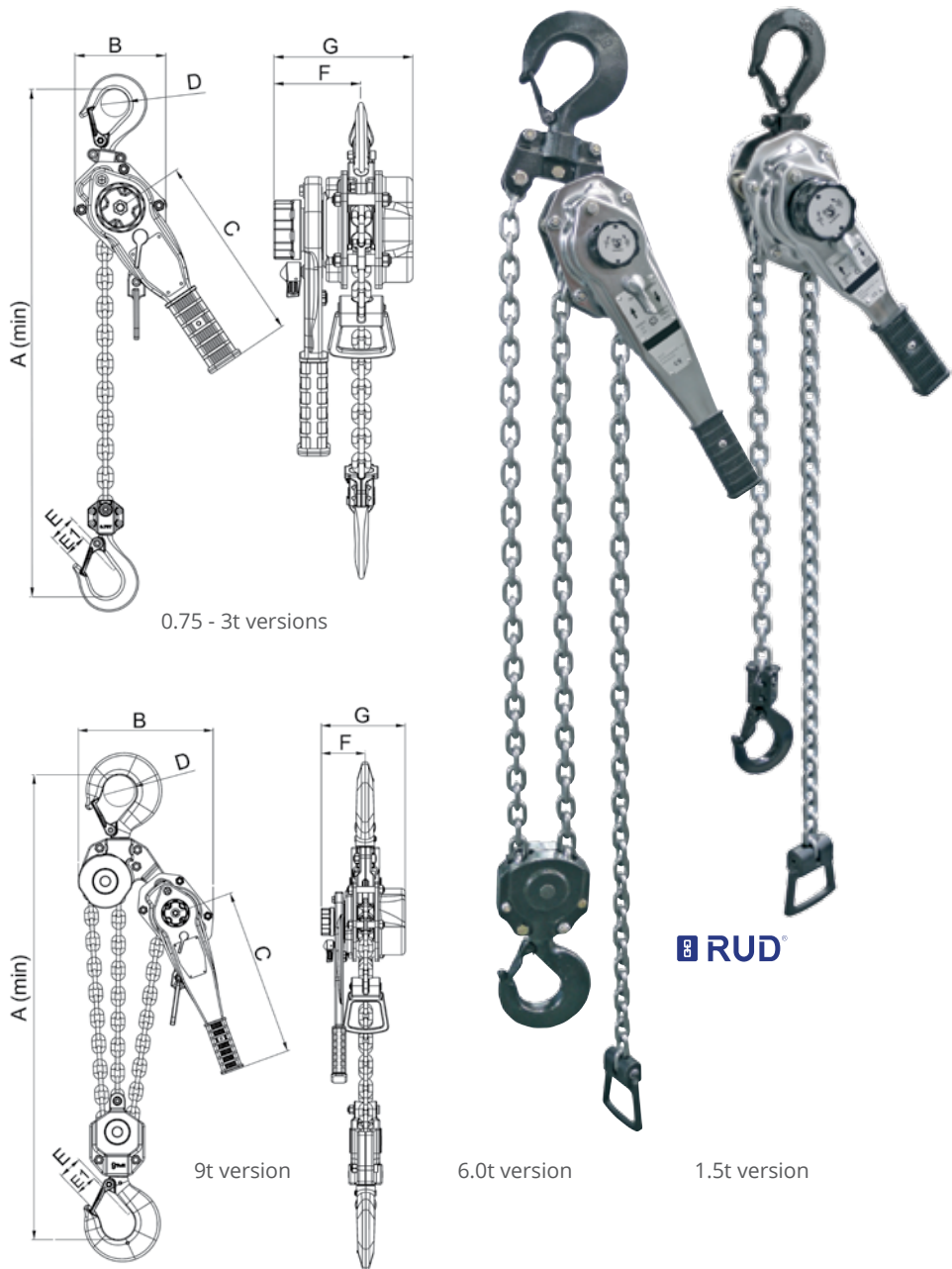
Range is available from 0.75t to 6t

BENEFITS

- » Robust design, proven quality ensuring longevity
- » Significant weight saving
- » Operating lever can be used in any position thanks to the ratchet
- » **Up to 3.0t capacity on single chain fall**

FEATURES

- » Galvanised load chain according to EN 818-7-T (RUD supply) is used on all hoists, the standard lifting height is 1.5 m; any length required for higher lifting is possible
- » Free-running mode allows the unladen chain to be easily pulled through the device to the required position when the operating switch is moved to the centre point
- » New chain end stop provides additional safety, this cannot be pulled through the hoist
- » The ergonomic rubber handle protects the user against injury and is screwed in place to prevent slippage
- » Safety automatic mechanical brake; galvanised connecting parts; cast hook; catch, large non-slip and closed hand wheel; safety chain end piece

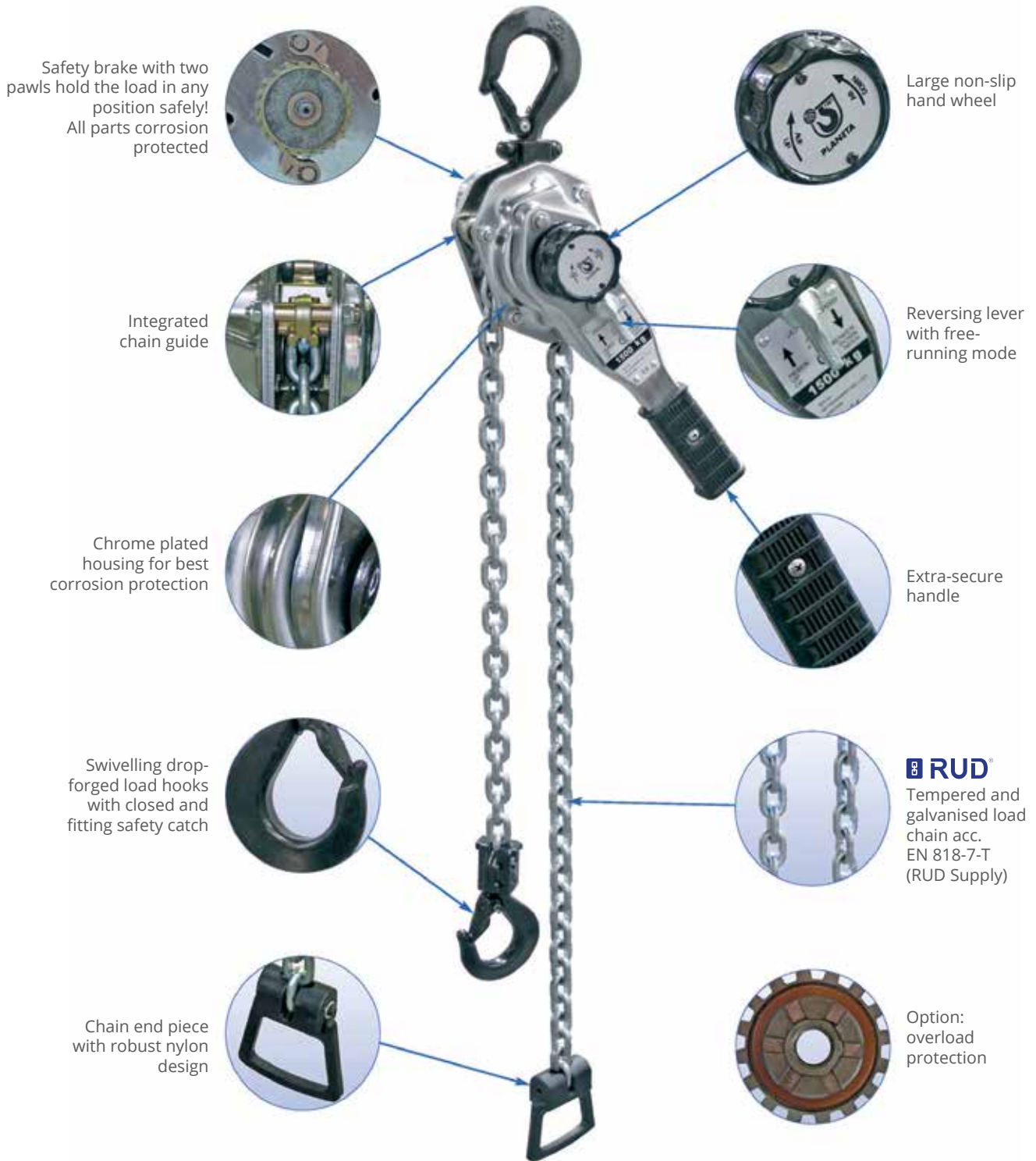


SPECIFICATION & DIMENSIONS

TYPE		PL/PLH/075	PL/PLH/150	PL/PLH/300	PL/PLH/600
Capacity	t	0.75	1.5	3.0	6.0
Standard lift	m	1.5	1.5	1.5	1.5
Min. headroom (A)	mm	320	360	431	500
Effort on Lever	daN	22	24	33	36
Number of chain falls		1	1	1	2
Chain size	mm	5.6 x 17	7.1 x 21	9 x 27	9 x 27
B	mm	115	137	169	238
C	mm	239	259	374	374
D	mm	35	42	48	60
E	mm	35	38	46	59
E1	mm	23	28.5	33	39
F	mm	91	67	98	98
G	mm	146	162	187	187
Weight with 1.5m Chain	kg	5.3	8.6	15.2	23
Weight for 1m additional lifting height	kg	0.7	1.1	1.8	3.6

PLANETA – PREMIUM PRO RATCHET LEVER HOIST

SAFETY FEATURES AND ADVANTAGES



PLANETA LOW HEADROOM TROLLEY HOIST TYPE LHT

The PLS PREMIUM Hand Chain Block and L87 trolley are combined in an integrated combination to save headroom, this is a perfect solution if space is tight.

Available from 0.5t to 20t lifting capacity

ADVANTAGES OF TROLLEY HOIST

- » The close combination of hoist and trolley with low headroom offers a unit that is both functional and versatile.
- » Optimal space utilisation
- » Combined power

FEATURES

- » Smooth trolley operation on ball bearing wheels plus surface protection offers the user outstanding reliability
- » Standard overload protection

STANDARD VERSION

- » PREMIUM chain hoist with 3 m lift and 2.5 m hand chain operation length, other lengths available
- » Available as manual push trolley (TYPE-H) or geared trolley (TYPE-G)
- » Contoured trolley wheel design provides maximum beam contact on flat or tapered beams
- » Tilting and climbing protection according to CE-regulations
- » High tensile and galvanised load chain to EN 818-7-T (RUD supply)

OPTIONS

- » Chain bag for holding chain as it comes out of the hoist
- » Zinc plated surfaces, for corrosive environments
- » Special non-corrosive and non-sparking steel for chain
- » Special protection with bronze parts and galvanisation
- » Trolley parking brake

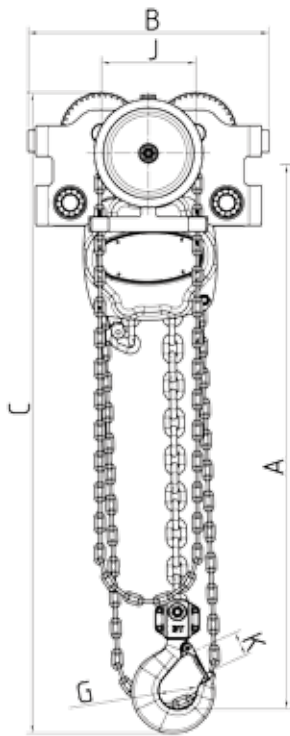


SPECIFICATIONS

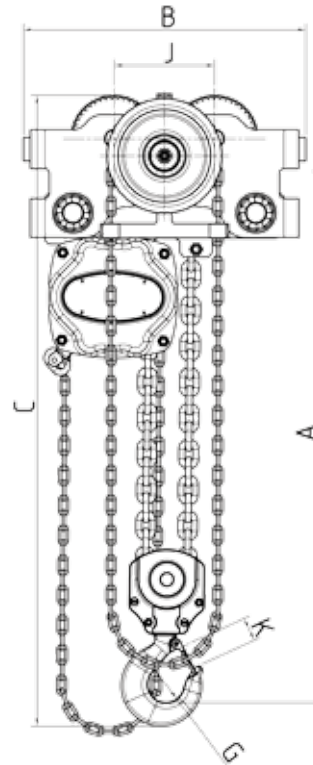
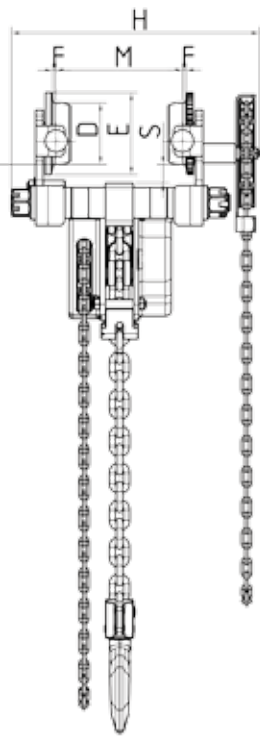
Lifting Capacity	t	0.5	1	1.5	2	3	5	7.5	10	15	20
Standard lift	m	3	3	3	3	3	3	3	3	3	3
Number of chain falls		1	1	1	1	1	2	3	4	6	8
Load Chain size	mm	5 x 15	6.3 x 19	8 x 24	8 x 24	10 x 28	9 x 27	9 x 27	9 x 27	9 x 27	9 x 27
Min. headroom (A)	mm	299	331	424	424	486	636	760	780	930	965
Beam Flange width	min. - max. mm	50 - 152	64 - 203	88 - 203	88 - 203	100 - 203	114 - 203	124 - 203	124 - 203	136 - 203	136 - 203
Larger flange width	min. - max. mm	50 - 203	64 - 305	88 - 305	88 - 305	100 - 305	114 - 305	124 - 305	124 - 305	136 - 305	136 - 305
Min. curve radius	m	0.85	1	1.1	1.1	1.3	1.4	2	2	3.5	3.5
Dimension H min. LHT-H	mm	236	303	317	317	333	355	372	378	449	449
Dimension H min. LHT-G	mm	272	334	343	343	356	373	416	423	498	498
B	mm	258	292	358	358	434	448	628	636	757	891
C	mm	385	451	551	551	633	808	965	990	1130	1165
F	mm	3	3	3	3	3	3	3	3	3	3
S	mm	30	37	38	38	40	42	45	45	56	58
Z	mm	7.5	10.5	12	12	14	15	16	17	20	25
Weight with 3 m lift LHT-H	kg	15	24	46	46	61	86	130	147	278	331
Weight with 3 m lift LHT-G	kg	19	28	44	44	65	91	135	153	286	353

*Chain bag (plastic) up to 3m lift

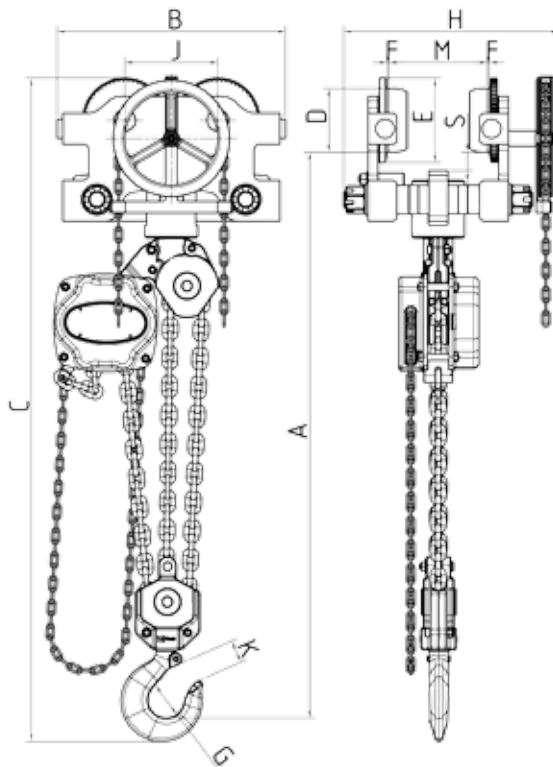
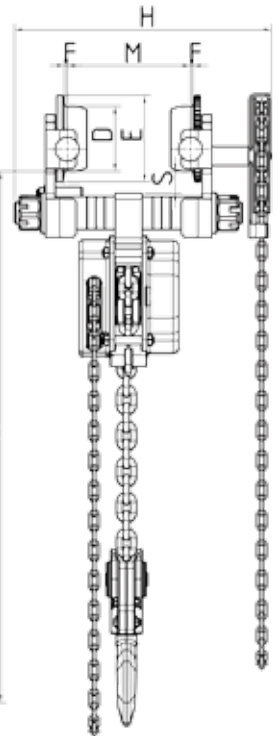
PLANETA LOW HEADROOM TROLLEY HOIST



3000kg - 0.5 - 3t MODEL



3000kg - 0.5 - 3t MODEL



10000kg - 10t MODEL

PLANETA GIRDER TROLLEYS PUSH OR GEARED TYPE

Push trolleys are suited for lighter loads. Geared trolleys will move heavier loads easily using a hand chain, the chain transmission brings the power to the wheels. The load is balanced on four wheels. Chain hoists with the same capacity rating can be hooked into the trolley.

The hand chains are zinc coated for long life. The trolley can be mounted simply by pushing it on an open girder or disassembling the unit.

FEATURES

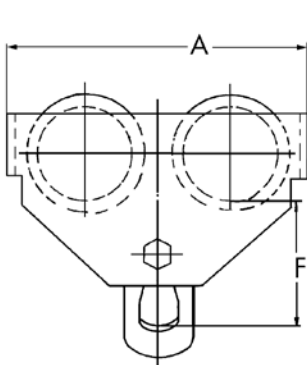
- » The central load suspension system and the robust side plates allow the demands of big jobs
- » The suspension system works to divide the load evenly among the four wheels
- » The large forged steel side plates enhance tilting protection
- » The cast iron wheels are quiet and safe due to lifetime lubricated sealed ball bearings
- » Adjustable for various beam sizes by simply changing the number of spacers. The standard bolts are for small flange widths. Longer bolts allow the use on wider flanges up to 300 mm width
- » The contour trolley wheel design provides maximum beam contact on flat or tapered beams.



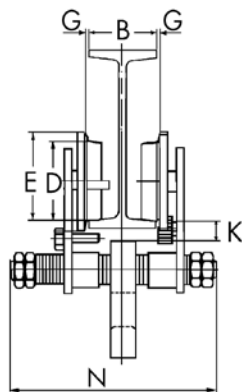
Geared type trolley GTM



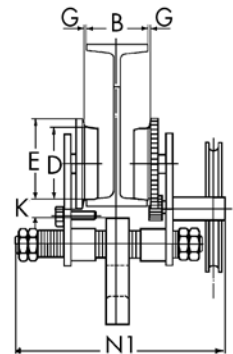
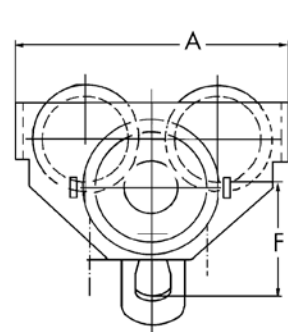
Push trolley PTM



PUSH TROLLEY PTM



GEARED TYPE TROLLEY GTM



SPECIFICATIONS

TYPE Push trolley	PTM...	PL/PTM/0.5T	PL/PTM/1.0T	PL/PTM/2.0T	PL/PTM/3.0T	PL/PTM/5.0T	PL/PTM/10.0T
TYPE Geared type trolley	GTM...	PL/GTM/0.5T	PL/GTM/1.0T	PL/GTM/2.0T	PL/GTM/3.0T	PL/GTM/5.0T	PL/GTM/10.0T
Capacity	t	0.5	1.0	2.0	3.0	5.0	10.0
Flange width B min. - max. PTM / GTM	mm	50 - 203 / 64 - 203	64 - 203	88 - 203	100 - 203	114 - 203	124 - 203
Min. Curve radius	m	0.8	0.9	1	1.2	1.3	1.7
Hand chain operation length GTM	m	2.5	2.5	2.5	2.5	2.5	2.5
A	mm	199	246	276	332	377	389
D	mm	55	68	80	100	110	136
E	mm	67	81.5	94	115.5	127	156
F	mm	105	125	150	171	196	285
G	mm	2	2	2	3	3	3
K	mm	30	38	38	40	42	22
N	mm	295	311	327	343	355	403
N1	mm	326	338	349	362	374	480
Weight PTM	kg	7	10.5	17.5	27	41	48
Weight GTM	kg	14.5	14.5	21.5	31	46	95

PLANETA PUSH TRAVEL BEAM TROLLEY WITH LOCKING DEVICE

The PTM Push Travel Beam Trolleys are suited for the movement of chain hoists and other items of lifting equipment when the requirement is for the lifting point to move along a beam.

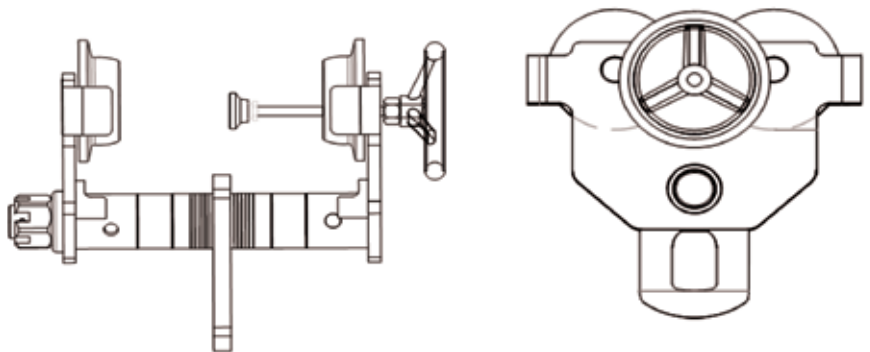
This Trolley comes with a manual locking device which will stop horizontal movement once locked in place.

The locking device has a handwheel which rotates and locks a robust foot onto the beam.

The trolley comes in capacities from 0.5t to 10t and is capable of adjustment to fit beam sizes from 50mm to 203mm (minimum depth changes depending on capacity).

FEATURES

- » Central load suspension system to keep the weight central and distribute the load between the wheels
- » Fits onto a variety of beams by moving spacers on the central spindle to increase and decrease the width
- » Contoured wheel design provides capability to work on flat and tapered beams
- » Robust cast iron wheels with sealed ball bearings for quiet and safe operation
- » Forged steel side plates with anti-drop stops for added protection
- » Easy to use locking system, with handwheel and locking foot, to enable trolley to be locked in a horizontal position



SPECIFICATIONS

Product Code	Self Weight (Kg)	Minimum Beam Radius Curve (m)	Beam Flange Width Range (mm)	External Dimensions	Minimum Bow Shackle Size Fit	Minimum Chain Hoist Hook Size Fit	Safe Working Load (at FOS 4:1)	Safe Working Load (at FOS 8:1)	Colour Finish
PL/PTM/0.5T-LD	7.45	0.8	50-203	280mm x 198mm x 193mm	2.0t Shackle	LPM250	0.5t	0.25t	RAL 5005 Side Plates & Hook Plates Spindle Zinc Plated
PL/PTM/1.0T-LD	10.95	0.9	64-203	288mm x 236mm x 237mm	2.0t Shackle	LPM250	1.0t	0.5t	RAL 5005 Side Plates & Hook Plates Spindle Zinc Plated
PL/PTM/2.0T-LD	17.95	1	88-203	300mm x 276mm x 283mm	2.0t Shackle	LP500	2.0t	1.0t	RAL 5005 Side Plates & Hook Plates Spindle Zinc Plated
PL/PTM/3.0T-LD	27.45	1.2	100-203	321mm x 326mm x 329mm	3.25t Shackle	LP500	3.0t	1.5t	RAL 5005 Side Plates & Hook Plates Spindle Zinc Plated
PL/PTM/5.0T-LD	41.45	1.3	114-203	328mm x 380mm x 385mm	6.5t Shackle	LG20	5.0t	2.5t	RAL 5005 Side Plates & Hook Plates Spindle Zinc Plated
PL/PTM/10.0T-LD	48.45	1.7	124-203	455mm x 568mm x 533mm	12.0t Shackle	None	10.0t	5.0t	RAL 5005 Side Plates & Hook Plates Spindle Zinc Plated

GIRDER TROLLEYS - FOR SPECIAL APPLICATIONS



OUTSIDE USE

Push and geared trolleys are available with outstanding corrosion protection, all parts are electrolytically zinc plated providing longevity for equipment used outside or in wet rooms

FEATURES

- » Lifting capacities up to 25t on request
- » Push or geared travel available
- » The central load suspension system and the robust side plates allow for a trolley that can take the demands of big jobs and enhance tilting protection
- » Wheels are quiet and safe due to lifetime lubricated sealed ball bearings



TROLLEY IN STAINLESS STEEL

- » Adjustable for various beam sizes by simply changing the number of spacers. Longer spindles allow the use on flanges up to 300 mm widths
- » The contoured trolley wheels provide maximum beam contact on flat or tapered beams

IN ADDITION WE CAN SUPPLY TROLLEYS- MANUAL OR POWERED WITH THE FOLLOWING FEATURES

- » Flexible bogey trolleys for curved beams
- » Trolleys with rack & pinion drives
- » Trolleys for transporting people to EN 1808



ARTICULATED TROLLEYS - PUSH/GEARED



TROLLEY WITH RACK & PINION DRIVE - MANUAL



TROLLEY WITH RACK & PINION DRIVE - ELECTRIC



ARTICULATED TROLLEYS - ELECTRIC DRIVE

PLANETA BEAM CLAMP TYPE BK

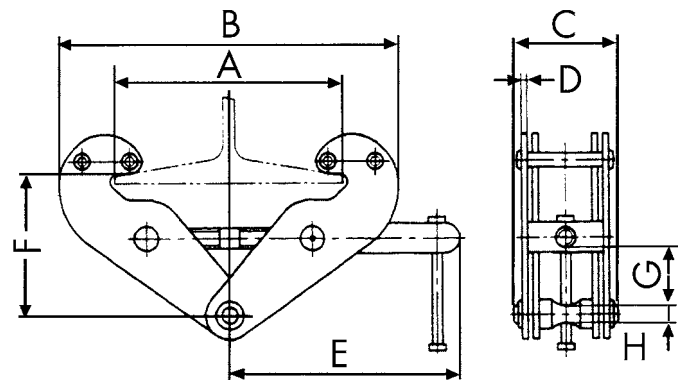


The frame of the Beam Clamp is made from solid steel plate and the spindle from high tensile galvanized steel that normally forgives strong tightening.

Range is available from 1t to 10t

FEATURES

- » Simple and safe load attachment tool for hand or electric hoists
- » Easy two-step operation makes it ideal for urgent tasks and assembly jobs
- » Can also be used for the lifting and transfer of steel beams and as a pulling clamp
- » Suitable for attachment to horizontal beams or beams up to 5 degrees from horizontal
- » Fits a wide range of beam widths
- » Easily fixed using threaded handle



BEAM CLAMP - SPECIFICATION & DIMENSION TABLE

TYPE	PL/BK	PL/BK/1.0T	PL/BK/2.0T	PL/BK/3.0T	PL/BK/5.0T	PL/BK/10.0T
Lifting Capacity t	t	1.0	2.0	3.0	5.0	10.0
Grip range A min.	mm	75	75	80	90	90
Grip range A max.	mm	230	230	320	320	320
B min.	mm	180	180	220	220	250
B max.	mm	375	375	498	498	514
C	mm	80	90	117	127	139
D	mm	5	5	8	10	16
E	mm	220	220	271	271	280
F min.	mm	102	102	168	168	172
F max.	mm	160	160	240	240	242
G min.	mm	29	28	60	57	55
H	mm	20	22	24	30	40
Weight	kg	4	5	9	11	18

PLANETA PREMIUM PRO-E MANUAL CHAIN HOIST



The new PLANETA Premium Pro E series hoist is a further development of our reliable manual chain hoist the Premium Pro. Available in lifting capacities of 250 kg and 500 kg. Instead of a hand chain, this hoist is driven by a cordless screwdriver. Corrosion protection and material are on the same high level. The lifting job can now be done with less effort.

FEATURES

- » Galvanized load chain to EN 818-7-T
- » Corrosion protection
- » Closed housing against dust and dirt
- » Rotatable hooks
- » Driven by cordless screwdriver

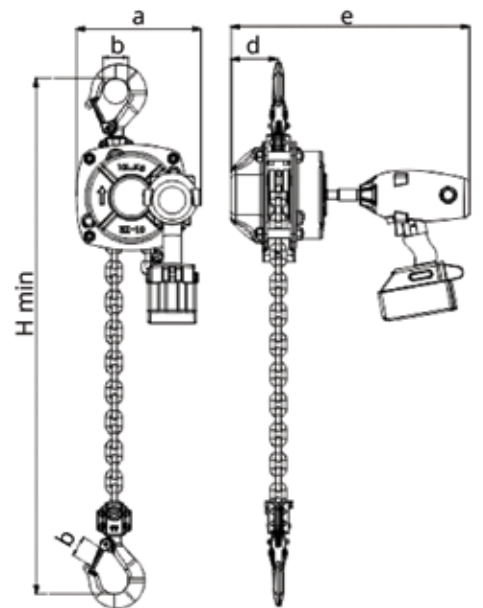
SPECIFICATIONS

Capacity (Kg)	chain size (mm)	Number of chain falls	Maximum propulsion speed (r/min)	Lifting speed (m/min)	Full load torque (n)	Min. Headroom (Hmin)	Net weight (Kg)
250	5 x 15	1	2500	3,2	60	318	6,6
500	6 x 18	1	2500	2,39	72	318	9,3

DIMENSIONS (MM)

Capacity (Kg)	A	B	C	D	E
250	151	35	27	55	339
500	151	44	27	55	339

Capacity 125, 1000, 2000, 3000 kg on request



ELECTRIC HOIST AND WINCH INFORMATION

IP PROTECTION RATINGS (INGRESS PROTECTION) & FEM DATA

A two-digit number established by the International Electro Technical Commission which is used to provide an Ingress Protection rating to a piece of electrical equipment or to an enclosure for electronic equipment.

The protection class after EN60529 are indicated by short symbols that consist of the two code letters IP and a code numeral for the amount of the protection.

Example: IP65 (NEMA 4)

The two digits represent different forms of environmental influence:

- » The first digit represents protection against ingress of solid objects.
- » The second digit represents protection against ingress of liquids.

The larger the value of each digit, the greater the protection. As an example, a product rated IP54 would be better protected against environmental factors than another similar product rated as IP42.

	First digit: Ingress of solid objects	Second digit: Ingress of liquids
0	No protection	No protection
1	Protected against solid objects over 50mm e.g. hands, large tools.	Protected against vertically falling drops of water or condensation.
2	Protected against solid objects over 12.5mm e.g. hands, large tools.	Protected against falling drops of water, if the case is disposed up to 15° from vertical.
3	Protected against solid objects over 2.5mm e.g. wire, small tools.	Protected against sprays of water from any direction, even if the case is disposed up to 60° from vertical.
4	Protected against solid objects over 1.0mm e.g. wires.	Protected against splash water from any direction.
5	Limited protection against dust ingress. (no harmful deposit)	Protected against low pressure water jets from any direction. Limited ingress permitted.
6	Totally protected against dust ingress.	Protected against high pressure water jets from any direction. Limited ingress permitted.
7	N/A	Protected against short periods of immersion in water.
8	N/A	Protected against long, durable periods of immersion in water.

CLASSIFICATION OF GIS ELECTRIC CHAIN HOISTS (ISO 4301-1)

The classification of GIS Electric chain hoists to a mechanism group according ISO 4301-1 has to be calculated as follows.

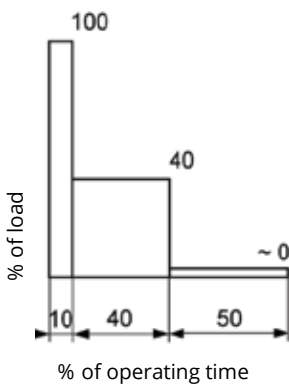
a/. Average operating time per day (in hours)

$T = \frac{2 \times \text{medium lifting height (m)} \times \text{number of cycles/h} \times \text{working time (hours per day)}}{60 \times \text{Lifting speed (m/min)}}$
 (1 cycle is one lifting movement and one lowering movement)

b/. Load spectrum

Four load spectra are distinguished (K = cubic mean value relating to the load capacity). Dead weight and weight of load chain are (assumed very low), otherwise it has to be calculated according to ISO 4301-1.

1 - light $K \leq 0,5$	2 - medium $0,5 < K \leq 0,63$	3 - heavy $0,63 < K \leq 0,8$	4 - very heavy $0,8 < K \leq 1$
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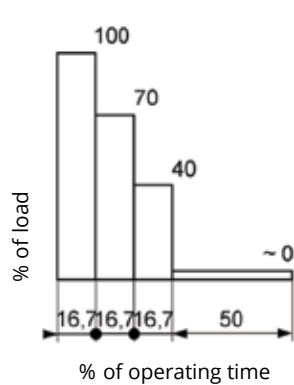


Mechanisms or parts thereof, usually subject to very small loads and in exceptional cases to max. loads.

10% operating time 100% load

40% operating time 40% load

50% operating time without load



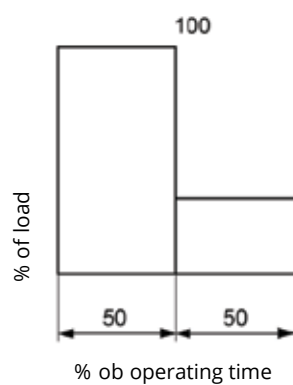
Mechanisms or parts thereof, usually subject to very small loads and but rather often to maximum loads

16.7% operating time 100% load

16.6% operating time 70% load

16.7% operating time 40% load

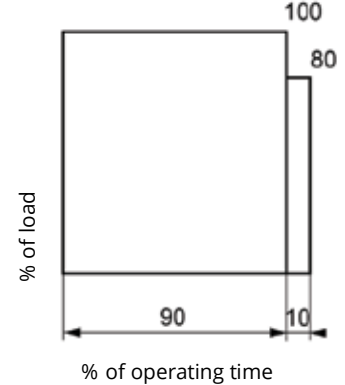
50% operating time without load



Mechanisms or parts thereof, usually subject to medium loads but frequently to maximum loads

50% operating time 100% load

50% operating time 33% load



Mechanisms or parts thereof, usually subject to maximum or almost maximum loads

90% operating time 100% load

10% operating time 80% load

CLASSIFICATION OF MECHANISMS INTO GROUPS

Load spectrum	Average operating time per day in hours							
	- 0,25	- 0,5	0,5 - 1	1-2	2-4	4-8	8 - 16	über 16
	Class of operation time							
	T1	T2	T3	T4	T5	T6	T7	T8
1 - light ($K \leq 0,5$)	-	-	-	M3	M4	M5	M6	M7
2 - medium ($0,5 < K \leq 0,63$)	-	-	M3	M4	M5	M6	M7	-
3 - heavy ($0,63 < K \leq 0,8$)	-	M3	M4	M5	M6	M7	-	-
4 - very heavy ($0,8 < K \leq 1$)	M3	M4	M5	M6	M7	-	-	-

PROCEDURE FOR CLASSIFICATION

1. Determine the average operating time per working day according to 'a' above
2. Determine the load spectrum according to 'b' above
3. Determine the mechanism group according to mechanisms table
4. Choose the hoist according to the hoist data sheet

GUIDELINE FOR THE CLASSIFICATION

The following guideline may be a help to classify the hoist.
 M3 normal workshop use
 M4 medium heavy workshop use
 M5 heavy duty
 M6 very heavy duty
 M7 extremely heavy duty

GOODS RETURN POLICY

When incorrect goods are ordered, when goods are dispatched but later cancelled or are unwanted we will levy a standard handling charge - this is deducted from the credit note issued. This handling charge is to cover administration costs, inspection and restocking of the returned goods, we need goods to be returned in the "as supplied" condition

The standard product return charge is 15% of the net value, transport costs are not refunded. (this covers standard products in this brochure which are stocked at LTM).

Non-standard products or specially manufactured items cannot be returned for credit

NOTE - we can send goods out on a Sale or Return basis for inspection, full credit is allowed if then allowed if goods are returned in the "as supplied" condition. Carriage is not refunded.

RETURNS AUTHORISATION SYSTEM

Before any goods are returned you must contact our sales team to obtain a returns authorisation number/ form (RAN).

Goods that arrive without a returns authorisation number/ form will not be accepted and will be refused by our goods inward department, delaying any credits due.

Upon the accepted return of goods, each item will be inspected and if on inspection refurbishment is required before it can be returned into general stock we will charge for this refurbishment or return the goods to you. This work will be done at our standard repair charge rate and we will inform you of the faults or damage noted and the work required to reinstate the item to a saleable condition.

All returned goods are to be returned by the distributor at their cost with a copy of the RAN number clearly marked on the goods and the completed form.

WARRANTY CLAIMS

All equipment complies with the high standards of quality in respect of materials and workmanship and as the sole and exclusive remedy in discharge of this warranty the company undertakes to replace free of charge within 12 months from date of dispatch from its works any components which are proved to the satisfaction of the company (whose decision shall be final and binding) to be defective in materials and workmanship.

This is provided notice in writing is given to the company within 5 days of the defect occurring and provided the component which is the subject of the complaint is returned pre-paid to our works in Wirral.

In the case of defective components or parts not of the company's manufacture the company's liability shall be limited to such adjustment or allowance as the manufacturer shall offer.

NOTE - Lift Turn Move Ltd will not accept responsibility for any work done or expense incurred by the buyer in connection with any repair or replacement unless the company's prior written authorisation has been obtained.

This warranty is in lieu and excludes all other conditions and warranties whatsoever, whether expressed or implied and whether under common law or statute law otherwise and apart from this the company hereby expressly excludes all liability for any loss or damage whatsoever arising and howsoever caused.

The purchaser warrants that it will pass on to all third parties to whom it may supply the goods all information as to the use and safe handling of the goods, as may have been passed onto the buyer by LTM.



GEARED FOR YOUR PERFORMANCE

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