

ELECTRIC CHAIN HOISTS
GPM 250 AND GP 250/500/1000



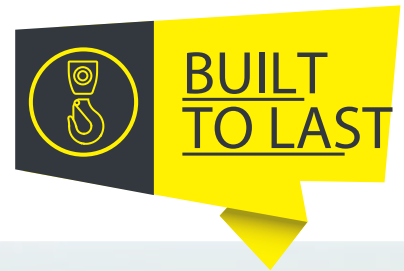
POWERFUL AND LONG-LASTING



Simple and easy to use – reliable and safe in operation
– long-lasting and easy to maintain. GIS electric chain
hoists have been developed and manufactured in Switzerland
for more than 50 years. Hundreds of thousands of
them are in operation worldwide – stationary or mobile.

Electric chain hoist GP - the endurance hoist

GP



Reliable and long-lasting

- _____ Made in Switzerland
- _____ Chain safety factor minimum 8-times (1-fall in FEM, 2m, ISO, M5)
- _____ Manganese phosphated profile steel chain with increased service life and improved dry-running properties
- _____ Gearbox with permanent lubrication
- _____ High safety in operation
- _____ Low-wear DC-spring-loaded brake
- _____ No sensitive electronics used
- _____ Aluminium casing and cover
- _____ Minimum 1,600 operating hours with 40 duty cycle, 240 s/h (FEM: 2m, ISO M5) %
- _____ Dry-running slipping clutch
- _____ Area of application -15° to +50°C

Easy to operate

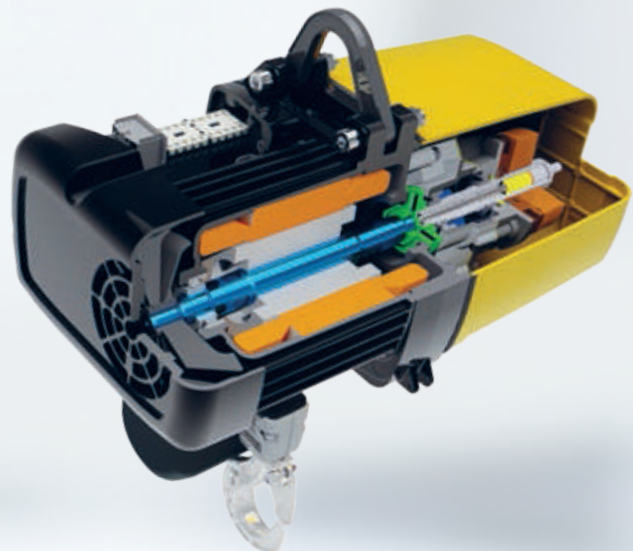
- _____ Low dead weight from 14 kg
- _____ Compact housing with low headroom
- _____ Protection class IP65; suitable for outdoor use
- _____ Geared limit switches with high accuracy in positioning of the highest and lowest hook position
- _____ Ergonomic control switch with emergency stop
- _____ 42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

Customer specific

- _____ Three- or single-phase power
- _____ Worldwide operation voltages
- _____ Various control voltages
- _____ Direct control, special control, radio remote control, frequency inverter
- _____ Special speeds
- _____ Special versions such as synchronised electric chain hoist, low headroom version, corrosion resistant version, ATEX
- _____ Eyebolt or hook suspension
- _____ Lifting heights up to 200 m
- _____ Hook path with upper and lower end position individually adjustable
- _____ Temperature monitoring
- _____ Operating data counter
- _____ Wide range of accessories and options

YOUR BENEFITS

The GP is simple in its structure and does not contain any sensitive electronics, which minimises the risk of operational interruptions. It is characterised by quiet running and is made for longevity whilst working hard. The ergonomic control switch with 110 V low voltage allows convenient and safe working. Maintenance is easy, quick and needs no special tools.





Profile steel chain

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

Control switch

The control switch fits comfortably in your hand and is ergonomically designed. It is robust, impact-resistant, safe to operate and controlled by 110 V low voltage. Push buttons placed in parallel increase the ease of operation. The external strain relief protects the control cable.

Polygonal connection

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

Protection class IP65

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



USE



GIS - electric chain hoists are used everywhere, where process safety of crane systems is important: in the hard three-shift operations in the automotives and other high production industries, in dusty or chemical aggressive environments, for outdoor use, for the entertainment industry or for extreme lifting heights in wind power plants. GIS - electric chain hoists and trolleys are made to high standards. The safety factor of the load chain is at least 8 (1-fall in FEM 2m, ISO 5M) which reduces wear and tear and increases the service life.



VICTORINOX

VICTORINOX AG

Edwin Schuler, Ibach, Switzerland
Head of Maintenance

GIS electric chain hoists and crane systems have been in use in our production plant for years, because we rely on the Swiss quality and proximity to the manufacturer and appreciate the corresponding expertise. We have already tested the new GP electric chain hoist as a prototype and it has fully lived up to our expectations. At a workplace with a long service life and high switching frequency, it has proved itself throughout the entire test cycle and we can recommend it accordingly.





Applications

Sewage treatment plants
Agriculture / farming
Automotive industry
Construction industry
Chemical and pharmaceutical
Wire / cable / rubber processing
Power supply / distribution
Transportation and storage
Glass processing industry
Home technology / building automation
Woodworking
Municipal tasks

Kitchen building
Plastics industry
Paints and coatings
Air transport / aviation
Machine industry
Medical technology
Measuring and control technology
Metal / steel processing
Furniture / furnishings
Food industry
Surface technology
Public transport

Paper / cardboard industry
Transport and logistics
Horology
Entertainment industry
Packaging
Wind / hydroelectric power
Oil industry
Gas industry
Shipyards / Shipbuilding



ACCESSORIES & OPTIONS

Standard version

Lifting capacity of electric chain hoists: max. 2500 kg (2-falls, FEM 1 Am, ISO M4)
Standard voltages: 230 V 3ph / 60 Hz 460 V 3ph / 60 Hz 575 V 3ph / 60 Hz 115 V 1ph / 60 Hz
110 V low voltage control
1 phase motor: 1 speed
3 phase motor: 1 or 2 speeds
Protection class IP65
Eyebolt suspension
Standard lifting height 3 m
Minimum 8-fold chain safety factor (1 fall, FEM 2m, ISO M5)
Control cable length 1.8 m
Ergonomic control switch with emergency-stop
Control switch with external strain relief
Geared limit switches for highest and lowest hook position (3 ph.)
Isolation class F (motor)
DC spring-loaded brake
Slipping clutch adjustable and not in the flow of forces

Accessories and options

Direct control, special control
Radio remote control
Frequency inverter
Other operating voltages on request
Other control voltages on request
Other speeds available on request
Single handed operation with controls on the handle
Hook suspension
Safety load 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
Press-on and press-off control switch
Temperature monitoring to prevent the motor from overheating
Manual brake release / Second brake
Overpressure release valve
Chain container for various lifting heights (lifting heights up to 200 m)
Gear grease for low temperature use / food industry
Tropicalised insulation
Slack chain shutdown

YOUR BENEFITS

For many applications, our standard versions provide a suitable lifting solution. A wide range of accessories and options is available. Extremely effective in repetitive goods handling is the single-handed operation of load management directly at the load. This allows quick and precise positioning of the load in left or right hand operation. As a handy chain or telescopic model this accessory can be retrofitted to a GIS electric chain hoist.



Safety radio remote control

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



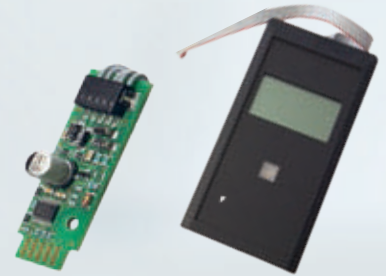
Frequency inverter

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



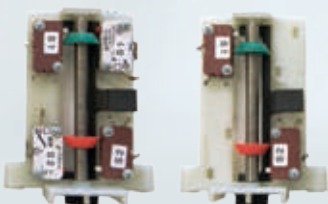
Operating data counter

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



Geared limit switch

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



Safety load locking hook

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



Temperature monitoring

To secure the motor against overheating temperature monitoring is available. A thermocouple cuts off the power supply when reaching the given maximum temperature and prevents the motor from being damaged. This is extremely useful with long lifting heights or very high duty cycles.



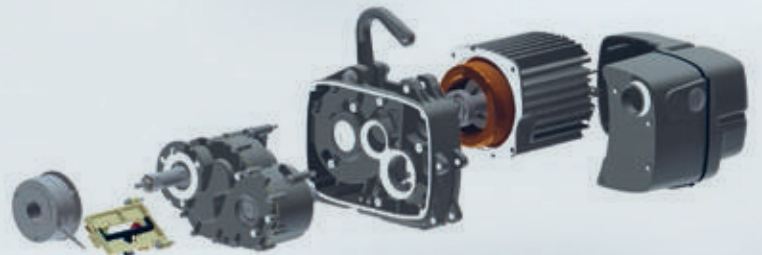
SERVICE & MAINTENANCE

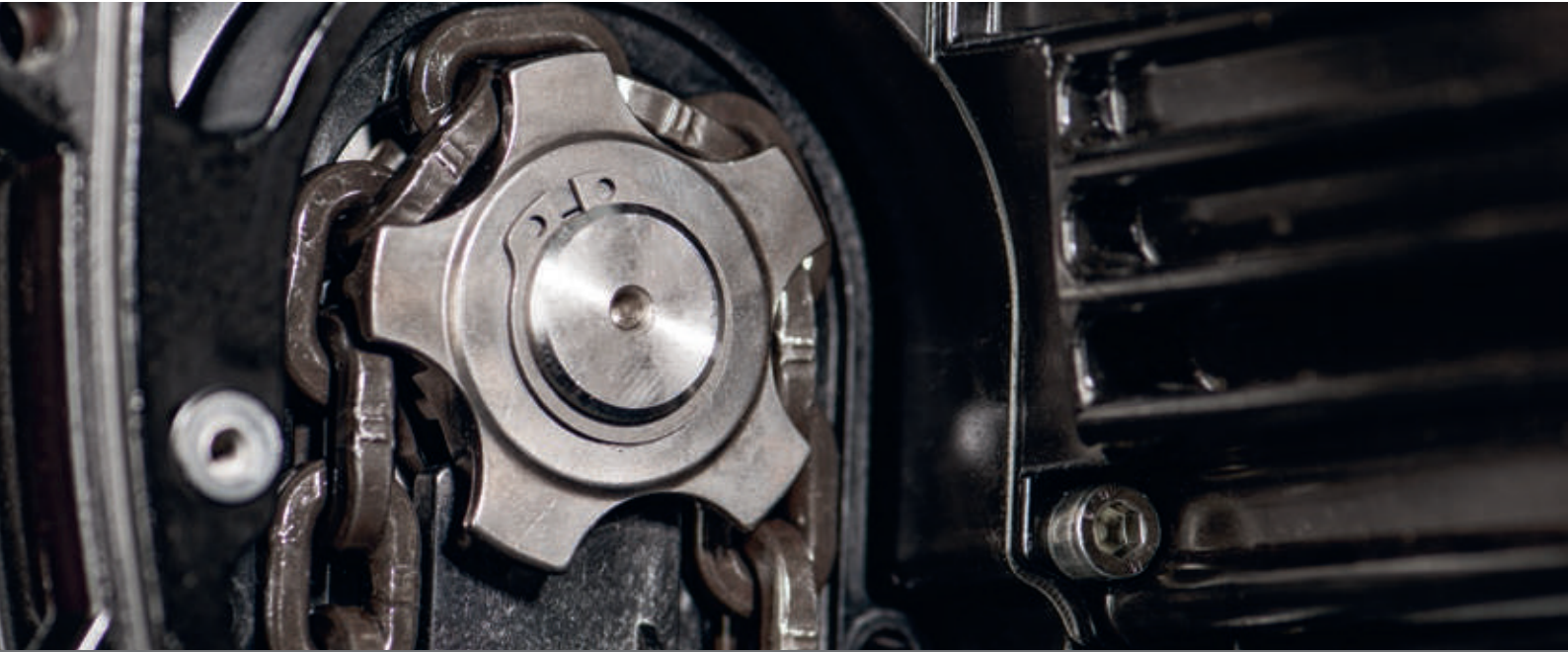


The efficiency of an electric chain hoist should be considered throughout the whole product life cycle. The GP has low wear and is designed to last. Repair and maintenance is done simply and quickly which makes the chain hoist very economical to maintain. Its high reliability minimises the risk of production downtime and potentially high downtime costs. For our GP electric chain hoists we provide a 3 year warranty.

YOUR BENEFITS

The GP series has an overall modular structure. Wearing parts are replaced in a simple manner. The electric chain hoist can be quickly disassembled and reassembled without special tools thanks to the polygonal connection. This saves time and costs, which both service technicians as well as customers appreciate.





Slipping clutch

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

Chain guidance

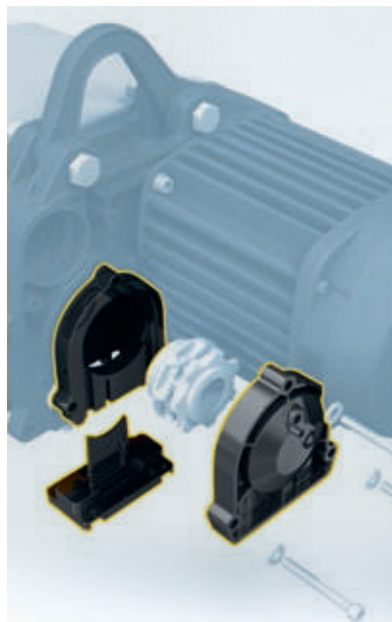
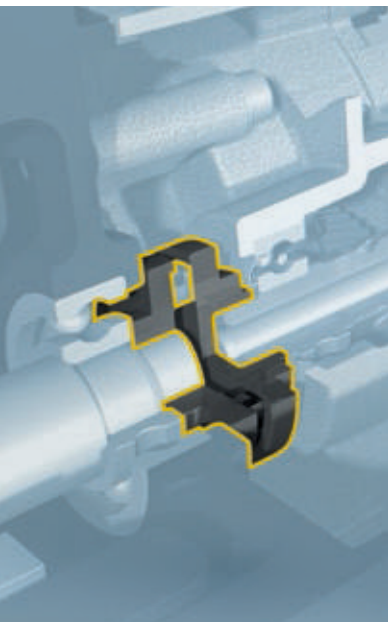
Chain and chain guidance are wearing parts, which must be regularly checked and replaced if necessary. The chain guidance is easily and laterally disassembled with a few movements without complete dismounting of the chain hoist. This results in considerable time savings.

Transmission

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

Spare parts

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



SPECIAL PRODUCTS



For many industrial lifting applications standard GIS electric chain hoists offer the ideal solution. Depending on the complexity of the task and the conditions on site we offer GIS special products. Whether for the synchronous operation of two load hooks, for a corrosion resistant or explosion-proof version or an electric chain hoist with control unit on the load hook - we offer a customer- and application-specific solution for each lifting requirement.

YOUR BENEFITS

GIS electric chain hoists are suitable on account of their compactness and durability for installation in complete systems. This is not in every case an industrial lifting application. The operational reliability and durability of GIS electric chain hoists are also appreciated by our customers for use as a drive system e.g. for a lifting and rotating device.





GPS
Lifting capacity up to
 $2 \times 2000 \text{ kg}$

Synchronised electric chain hoist for transportation of long and bulky loads

Precise parallel operation of two load paths without twisting the load

2 electric chain hoists connected electrically and mechanically

With temperature monitoring

Hook end positions adjustable by geared limit switch

Distance between load hooks 0.7-5.0 m

Perfect to combine with GISKB suspended crane or travelling crane

Option: with trolleys

Option: with frequency inverter

Option: customised devices for load handling



GPHK
Lifting capacity up to 500 kg

Handy chain model for quick and easy positioning of loads

Control of electric chain hoist and guidance of the load with one hand

Control unit with rocker switch for left- and right-handed operation

Hook end positions adjustable by geared limit switch

Perfect to combine with GISKB slewing or suspended crane

Option: handy kit for retrofitting of GIS standard electric chain hoist

Option: with frequency inverter

Option: customised devices for load handling



GPHT
Lifting capacity up to 250 kg

Handy telescope model for fast and accurate positioning of loads

Operation of electric chain hoist and simultaneous precise guidance of the load with one hand

Ideally suited for eccentric loads

Control unit with rocker switch for left- and right-handed operation

Hook end positions adjustable by geared limit switch

Perfect to combine with articulated slewing crane or GISKB suspended crane

Option: with frequency inverter

Option: customised devices for load handling

Option: with slack chain shutdown





GP 1-Ph
Lifting capacity up to 2000 kg

Electric chain hoist in 1-phase version
 Workshop use in the absence of 3-phase power supply, rental use, outdoor use
 Standard voltages:
 115 V 1ph / 60 Hz
 230 V 1ph / 60 Hz
 Speed 2, 4 or 8 m / min.
 High duty cycle (FEM 2m, ISO M5) at maximum load
 Protection class IP65
 Option: 1-phase motorised trolleys



GP R
Lifting capacity up to 1250 kg

Corrosion resistant electric chain hoist
 For use in food, pharmaceutical or chemical industry, wastewater treatment plants, outdoor use
 Housing cataphoresis coated
 Round, stainless steel chain
 Suspension corrosion resistant
 All parts in contact with the chain (wearing parts such as chain wheel, load hooks, screws) in corrosion resistant version
 Protection class IP65
 Special grease for food industry
 Option: overpressure release valve
 Option: manual or motorised trolley in corrosion resistant version



GP D and GP G
Lifting capacity up to 2500 kg

Electric chain hoist explosion proof ATEX version
 Dust-proof version GP D:
 Equipment group II, Equipment category 3 Zone 22 (D)
 Temperature = <130 °C with temperature monitoring
 Gas-proof version GP G:
 Equipment group II, Equipment category 3 Zone 2 (G), 22 (D)
 Temperature class = T3 with temperature monitoring operation interruption in the event of a pressure drop
 Protection class IP65
 Option: motorised trolley in ATEX version





GP W
Lifting capacity up to 1000 kg

- Electric chain hoist for wind turbines
- Lifting speed up to 16 m/min.
- Lifting height up to 200 m
- Temperature monitoring with shutdown function of the motor in case of overheating
- Automatic switching from high to low lifting speed shortly before the stroke end by geared limit switch
- External limit switches for hook end positions
- Tempered special chain
- Load hook with protective cover
- Option: with manual or motorised trolley
- Option: chain container



LP
Lifting capacity up to 1600 kg

- Electric chain hoist for entertainment industry
- Low dead weight
- For stationary or mobile use
- Quiet running due to 3-stage drive with helical gearing
- Usable as stationary or as a climbing hoist without modification
- Second brake without housing extension can be equipped or retrofitted
- Direct or contactor control
- Protection class IP65 for outdoor use
- KTL coating guarantees corrosion resistance and good mechanical protection
- Versions D8, D8 Plus and C1 or depending on customer requirements



GP FU
Lifting capacity up to 2500 kg

- Electric chain hoist with frequency inverter
- For applications with high switching frequency and shift operation
- Lifting speed up to 14 m/min.
- With soft start for precise and gentle positioning of the load
- Transportation without overshooting and exact positioning of the load in combination with frequency-controlled motorised trolley
- Speeds and ramps for lifting and travelling programmable adjusted to the application
- Protection class IP65
- Option: motorised trolley with frequency inverter
- Option: equipped with radio remote control



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 a lifting device. The travel movement, tailored to the load capacity and the local conditions is either manually or electrically driven. The integrated fall and climbing protection ensures maximum safety. Due to their good handling characteristics and their longevity, GIS trolleys are often used by our customers as components for endcarriage of underslung travelling cranes.

YOUR BENEFITS

The GISKB light crane systems and GISKB slewing jib cranes offer the optimal solution for overhead, fast and secure goods transportation of smaller loads. The GISKB crane systems with hollow profiles made of steel or aluminium have the advantage of lower weight compared to conventional steel beams. Also the treads are better protected against dust. In this way, the plastic rollers of the trolleys retain their smooth running characteristics, show less wear and are more durable.





GHF 500 K

Lifting capacity up to 500 kg

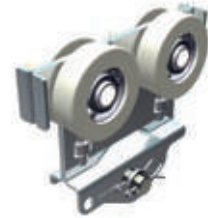
- Manual trolley for steel beams
- Manual or electric chain hoist moved manually
- Glass fibre reinforced plastic rollers
- Optimum ease of movement
- Very quiet running
- Side plates made of die-cast aluminium with fall and climbing protection
- Low weight of only 2.5 kg
- Zinc-plated support bolts
- Flange width 50 - 149 mm
- Minimum bend radius 1200 mm



EHF 50-500

Lifting capacity 500 - 5000 kg

- Manual trolley for steel beams
- Manual or electric chain hoist moved manually
- Load wheels made of cast iron, with ball bearings
- Side plates made of cast iron with fall and climbing protection
- EHF 50/150 with 1 support bolt
- EHF 300/500 with 2 support bolts
- Zinc-plated support bolts
- Flange width 50 - 320 mm
- Options and accessories for side plates, load wheels and support bolts according to page 18



GISKB trolleys

Lifting capacity up to 2000 kg

- Manual trolley for GISKB hollow steel profiles
- For manual movement of manual or electric chain hoist or as longitudinal trolley for GISKB crane bridges
- Optimum ease of movement
- Very quiet running due to plastic load wheels and lateral guide rollers
- Zinc-plated steel construction
- Option: steel load wheels
- Option: rubber buffers as collision protection
- Option: combination of 2 trolleys with a traverse



MOTORISED TROLLEYS

Standard version

Lifting capacity manual and motorised trolleys:
max. 5000 kg (FEM 1 Bm, ISO M3)

Standard voltages:
230 V 3ph/60 Hz
460 V 3ph/60 Hz
575 V 3ph/50 Hz
115 V 1ph/60 Hz

Control 42 V low voltage

1 phase motor: 1 speed

3 phase motor: 1 or 2 speeds

Side plates and load wheels made of cast iron

Fall and climbing protection

Flange width 50 - 320 mm (depending on trolley type)

Zinc-plated support bolts

4 button ergonomic control switch with emergency stop

Control switch with external strain relief

Control cable length 2 m

Protection type IP55

Isolation class F (motor)

Accessories and options

Direct control

Radio remote control

Roving pendant

Frequency inverter

Other operating voltages on request

Other control voltages on request

Other speeds available on request

DC spring-loaded brake

Limit switches

Plastic load wheels

Load wheels made of steel or stainless steel

Trolley with corrosion resistant coating

Trolleys in ATEX version

Special support bolts for special flange widths

Gear grease for cryogenic use / food industry

Temperature monitoring to prevent the motor from overheating

Protection class IP65

Tropicalised insulation

YOUR BENEFITS

GIS motorised trolleys offer one or two speeds of max. 20 metres per minute. For moving without oscillation and precise positioning of the load, the trolleys can be equipped with frequency inverters. The motorised trolleys are operated, tailored to the respective application, by means of a control switch on the trolley, a control switch independent of the trolley (roving pendant) or radio remote control.





EMFE 50 – 500
Lifting capacity up to 5000 kg

- Motorised trolley for steel beams
- Long-lasting and low wearing
- Speeds 14.4, 14.4/4.8 or 24/7.2 m/min in 60Hz
- Side plates made of cast iron with fall and climbing protection
- EMFE 50/150 with 1 support bolt
- EMFE 300/500 with 2 support bolts
- EMFE 500 with 2 motors
- Zinc-plated support bolts
- Adjustable for flange widths 50 - 320 mm
- Protection type IP55
- Accessories and options according to page 18



EMFE 50 – 500 FU
Lifting capacity up to 5000 kg

- Motorised trolley with frequency inverter for steel beams
- Long-lasting and low wear
- Speed 2.4 - 24 m / min in 60Hz
- Transport without oscillation and precise positioning of loads
- Soft start for high demands
- 2 speeds are programmable: for starting / positioning and travel
- Basic specifications as EMFE 50-500
- Accessories and options according to page 17



SAKB with FU
Lifting capacity up to 1600 kg

- Electric tug with frequency inverter for GISKB hollow profiles made of steel
- Very quiet running due to plastic load wheels
- 2 speeds and ramps adjustable 0 - 42 m/min in 60Hz
- Soft start and stop
- Transport without oscillation and precise positioning of loads
- DC spring-loaded brake
- Protection type IP55
- Option: limit switch
- Option: radio remote control





Crane systems

GISKB steel crane construction kit for line - bound or all-round goods handling. GISKB aluminium crane system, slewing pillar and wall cranes for smooth handling of transport goods. Travelling cranes and slewing cranes made of steel profiles for heavier loads.

Hoisting equipment

Over 50 years experience in the manufacture of electric chain hoists: robust, durable, reliable and highly resistant to wear. Simple maintenance. Various special versions for every application area. Wide range of accessories and options.

Vacuum handling systems

GIS vacuum handling systems for the ergonomic and gentle handling of goods made of different materials like wood, glass, stone, metal or plastic. In combination with the appropriate crane system.

GIS AG – the specialist for crane systems Founding of the GIS AG in 1957 | With own subsidiary in Germany since 1966 | Development and production of electric chain hoists in Switzerland for over 50 years | Swiss manufacturer of complete crane systems inc. hoisting equipment and vacuum lifters | Certified to ISO 9001 since 1994 | Complete market services from project planning to installation, start-up and maintenance | International sales network with over 50 qualified partners worldwide

AUTHORIZED DEALER



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