ELECTRIC CHAIN HOISTS
GPM 250 AND GP 250/500/1000
Ivan Muri, CEO  As a Swiss manufacturer with fully automated production, we are loyal to the location Switzerland. The high functionality, long life and robustness of our products help our customers to avoid operational interruptions which can cause high follow-on costs. With our own development and design department, we ensure long-term innovation power. Suppliers from Switzerland and its neighbour countries guarantee the reliability and quality we demand.

Erich Widmer, Sales and Marketing Manager  From project planning to installation, we support our customers with advice and assistance. As a system supplier of complete crane systems, we can respond to specific customer demands. Our customers particularly value the variety of accessories and options. Our high product quality and readiness to deliver make us a reliable and competent partner worldwide.
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
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 42 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 42 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.
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.
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
Shipyard / Shipbuilding
ACCESSORIES & OPTIONS

Standard version

Lifting capacity of electric chain hoists:
max. 2500 kg (2-falls, FEM 1 Am, ISO M4)

Standard voltages:
3 × 400 V / 50 Hz
3 × 230 V / 50 Hz
1 × 115 V / 50 Hz
1 × 230 V / 50 Hz

42 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 B-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.
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 × 2000 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
<table>
<thead>
<tr>
<th>Model</th>
<th>Lifting capacity</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GP 1-Ph</td>
<td>up to 2000 kg</td>
<td>Electric chain hoist in 1-phase version&lt;br&gt;Workshop use in the absence of 3-phase power supply, rental use, outdoor use&lt;br&gt;Standard voltages:&lt;br&gt;1 × 115 V / 50 Hz&lt;br&gt;1 × 230 V / 50 Hz&lt;br&gt;Speed 2, 4 or 8 m / min.&lt;br&gt;High duty cycle (FEM 2m, ISO M5) at maximum load&lt;br&gt;Protection class IP65&lt;br&gt;Option: special voltages:&lt;br&gt;1 × 115 V / 60 Hz&lt;br&gt;1 × 230 V / 60 Hz&lt;br&gt;Option: 1-phase motorised trolleys</td>
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<tr>
<td>GP R</td>
<td>up to 1250 kg</td>
<td>Corrosion resistant electric chain hoist&lt;br&gt;For use in food, pharmaceutical or chemical industry, wastewater treatment plants, outdoor use&lt;br&gt;Housing cataphoresed&lt;br&gt;Round, stainless steel chain&lt;br&gt;Suspension corrosion resistant&lt;br&gt;All parts in contact with the chain (wearing parts such as chain wheel, load hooks, screws) in corrosion resistant version&lt;br&gt;Protection class IP65&lt;br&gt;Special grease for food industry&lt;br&gt;Option: overpressure release valve&lt;br&gt;Option: manual or motorised trolley in corrosion resistant version</td>
</tr>
<tr>
<td>GP D and GP G</td>
<td>up to 2500 kg</td>
<td>Electric chain hoist explosion proof ATEX version&lt;br&gt;Dust-proof version GP D:&lt;br&gt;Equipment group II, Equipment category 3&lt;br&gt;Zone 22 (D)&lt;br&gt;Temperature = &lt;130 °C with temperature monitoring&lt;br&gt;Gas-proof version GP G:&lt;br&gt;Equipment group II, Equipment category 3&lt;br&gt;Zone 2 (G), 22 (D)&lt;br&gt;Temperature class = T3 with temperature monitoring&lt;br&gt;Operation interruption in the event of a pressure drop&lt;br&gt;Protection class IP65&lt;br&gt;Option: motorised trolley in ATEX version</td>
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**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:
  - 3 × 400 V / 50 Hz
  - 3 × 230 V / 50 Hz
  - 1 × 115 V / 50 Hz
  - 1 × 230 V / 50 Hz
- Control 42 V low voltage
  - 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 12, 12/4 or 20/6 m/min.
- Side plates made of cast iron with fall and climbing protection
- EMFE 50/150 with 1 support bolt
- EMFE 300/500 with 2 support bolts
- EMFE 500 with 2 motors
- Zinc-plated support bolts
- Adjustable for flange widths 50 - 320 mm
- Protection 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 - 20 m / min.
- 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 18

**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 - 35 m/min.
- 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

Swiss Lifting Solutions
Certified to ISO 9001

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