

# 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.

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Electric chain hoist GP - the endurance hoist

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### 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.





## 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 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.



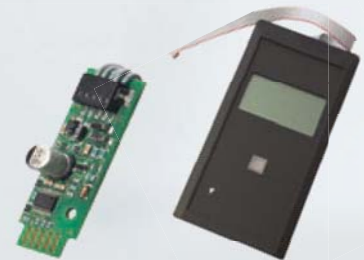
## Frequency inverter

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.



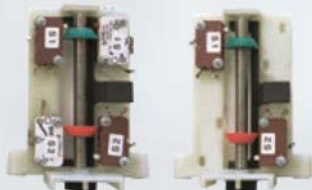
## Operating data counter

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.





### 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 dismantling 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.







### 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







### 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:

1 × 115 V / 50 Hz

1 × 230 V / 50 Hz

Speed 2, 4 or 8 m / min.

High duty cycle (FEM 2m, ISO M5) at maximum load

Protection class IP65

Option: special voltages:

1 × 115 V / 60 Hz

1 × 230 V / 60 Hz

Option: 1-phase motorised trolleys

### GPR

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

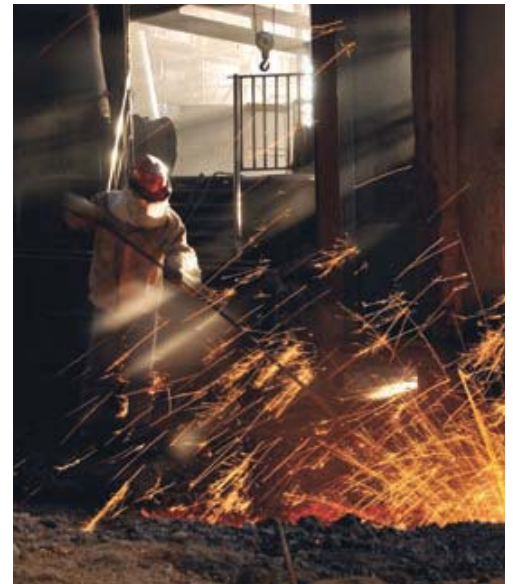
Transportation without overshooting and exact positioning of the load in combination with frequency-controlled motorised trolley

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





### 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 GSKB 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

