NEW HOIST GENERATION

BORN FROM EXPERIENCE
GH started out in 1956, as a manufacturer of lifting components. We now operate in over 60 countries, installing our products and providing solutions for practically all sectors.

Our years of experience and our customers’ recognition of the high quality of our products have placed GH among the leading European manufacturers in the lifting sector.

More than 100,000 hoists installed vouch for our experience.

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What do you want from a new machine?

- Safety
- Reliability
- Performance
- Durability
- Maintenance

Frequency inverter for cross travel and hoist motions as standard.

Minimum duty service classification ISO M5.

C-shaped design for better approaches.

Reduced weight, transmitting less stress to the structure.

Complies with European Machine Directive 2006/42/EC.

Designed for higher productivity and maintenance savings.

Quick connector on motors and cabinets.
Modular design, easily adaptable to different wire rope arrangements and girder widths

The new GHB11 hoist's modular design enables much of the structure to be used for assembling the different hoist configurations, different rope arrangements (4/1, 2/1, 4/2, etc.), drum lengths or installing a second motor.

This design makes GH's new hoist competitive and quick to manufacture.
A robust, reliable range of hoists

Specific solutions for each type of work and working environment

GH's products for all sectors are designed with a view to offering our customers the best performance at the lowest cost, based on reliability, safety, durability, affordability and minimum maintenance.
Speed control by frequency inverter, for higher productivity

**Features**

- Speed selection.
- Smooth running. Acceleration/deceleration control to prevent dangerous swing.
- Electric braking, allowing the service brake to work as a safety brake in practice.
- More durable mechanisms.
- Compact design for the closest approaches, making efficient use of available space.
- Light weight, with no counterweight, reducing stress to the structure.
- Energy savings.

**Safety**

- Frequency inverter for cross travel and hoist motions as standard.
- Wire rope safety factor as per EC directive (Min 5).
- Two steps limit switch for lifting.
- Safe Operating Period Control.
- Load swing control.
- Operating and maintenance control.
- Load slip safety system.
- Optional loose wire rope indication.
- Phase reversal/phase loss protection.
- Motor overheating protection.
- Overload limiter.
- Reliable load clamping with safety Latch.

**Reliability**

- All components are highly robust.
- Longer working life of all components.
- New materials for longer machine working life.
- Modular design.
- Lower machine downtime costs.
- Lower maintenance costs during the hoist's working life.

**No counterweights**

- Lower moments of inertia.

**Cross travel motor**

- GH's own optimised design.
- Speed regulation by frequency inverter.
- Direct drive, with two wheels on each side of the girder.

**Hoisting motor**

- GH's own optimised design.
- Encoder safety.
- IP-55 protection as per DIN 40050.
- Duty cycle 60% ED.

**Helical gears**

- Smooth running.
- Excellent lubrication.
- All gears in closed housing with oil bath.

**Wire rope guide**

- Latest-generation materials.
- Longer wire rope life with less wear.
Load control

All our hoists come equipped with the model ALE-100/TN electronic limiter, with record and control function. Designed for overload, loose wire rope and motor overheating control. Also records the load spectrum of the hoist as per UNE 58 919 standard.

In combination with the overload cell, it enables optional viewing of hanged load and Safe Operating Period control:

- Number of lifting manoeuvres.
- Number of inching manoeuvres.
- Lifting manoeuvre time.
- Number of overloads.
- Number of trolley manoeuvres.
- Number of bridge manoeuvres.
- Activation of next inspection alert by number of hours and/or date.

This data can be viewed on the remote control.

Hoist versions

We adapt the features of our products to meet our customers’ needs.

- Hoist for curves.
- Cradled double-girder trolley.
- Hoist with console trolley.
- Motorised rotary trolley.
- Dual hoist double-girder trolley.
- Dual hook double-girder trolley.
- Trolley with hoist parallel to end carriages.
- Double-girder tube trolley with platform.
- Winder trolley.
- Hoist between girders.
- Recess-mounted double-girder trolley with 2 cable exits and rack conveying.

Other options

- Anti-collision photocells.
- Weighing display.
- Safety brake on drum.
- Hook blocking system.
- Remote control.
- Data displayed on remote control.
- Data displayed on radio remote control.

Electronic load limit device (ALE-100/TN)

Frequency inverter for hoist and cross travel motions
Energy savings and environmental protection have become a major issue in today’s engineering systems.

GH’s solution in this area centres on the use of regenerative frequency inverters. These have major advantages over conventional frequency inverters:

- High energy efficiency.
- No braking resistance required.
- Minimal heat generation on braking.
- Huge energy saving potential.

Braking energy feedback can also be used elsewhere in the installation, reducing operating costs even further.

This technology is especially suited heavy duty cranes with cyclical processes.

GH’s smartphone application provides information on the Safe Operating Period for all its cranes installed worldwide.

The following information can also be accessed optionally, in conjunction with ALM100N:

- Number and duration of hoisting operations.
- Number of manoeuvres.
- Record of the last 500 overloads and maintenance alert activation.

We have used state-of-the-art technology to improve all aspects of this new hoist.
### Standard: Frequency inverter on hoisting

Models GHA12, GHB11 and GHD13
- Nominal speed at full load: 5 m/min.
- Overspeed at 1/4 load: 8 m/min.

### Optional: 2-speed motor

**Hoisting speed**
- 5/0.8 m/min. GHB11, GHD13

**Hoisting speed**
- 5/1.25 m/min. GHA12

Other options available.

#### Hoist selection chart

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<tr>
<th>kg.</th>
<th>Hoist Type</th>
<th>Speed (m/min)</th>
<th>Falls</th>
<th>Duty FEM</th>
<th>HOL (H1)</th>
<th>Height (H2)</th>
<th>Lift (H3) (m)</th>
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**B11 R 06 41 04 H2 M5**

- Lifting height (H1 - H5)
- Lifting speed (4 m/min = 04)
- Hoist capacity (e.g. 3.2 t = 3; 10 t = 10)
- Hoist type. Execution (N: Single girder normal headroom, R: Single girder low headroom; B: Double girder with tubes; F: Fixed; T: with end carriages)
To guarantee perfect functioning and durability of the units we offer an all-round service, including After-sales Service, Technical Assistance and Spare Parts Supply:

- Preventive and predictive maintenance.
- Corrective maintenance.
- We stock original replacement parts.
- Crane operator training courses.
See the video on the new GHB11 hoist by scanning this QR code, or online at:

http://www.youtube.com/user/ghcranes