

BロRN<br>FROM<br>EXPERIENCE




What do you want from a new machine?


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.

An adapt able, modular hoist


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 our new hoist competitive and quick to manufacture.



## A robust, rel iable range of hoists



Single-girder suspended hoist



Our 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 <br> control <br> by frequency <br> 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.

## No counterweights

- Lower moments of inertia.


## Cross travel motor

- Speed regulation by frequency inverter.
- Direct drive, with two wheels on each side of the girder.


## Hoisting motor

- 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.


## 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.



## 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



Radio remote control with display (on the radio)


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

Frequency inverter for hoist and cross travel motions


## Standard: Frequency inverter on hoisting

Models GHA12, GHB11 and GHD13

- Nominal speed at full load
- Overspeed at $1 / 4$ load


## Optional: 2-speed motor

Hoisting speed

- $5 / 0.8 \mathrm{~m} / \mathrm{min}$. GHB11, GHD13

Hoisting speed
5/1.25 m/min. GHA12
Other options available.
$5 \mathrm{~m} / \mathrm{min}$. $8 \mathrm{~m} / \mathrm{min}$.

| kg. | Hoist | $\begin{aligned} & \text { Speed } \\ & \text { m/min } \end{aligned}$ | Falls | Duty FEM | HOL (Height Of Lift) (m) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | H1 | H2 | H3 | H4 |
| 1.000 | GHA12_014105M7 | 5 | 4/1 | M7 | 4.5 | 8 | 10.8 |  |
|  | GHA12_012110M6 | 10 | 2/1 | M6 | 9 | 16 | 21.6 |  |
|  | GHB11_011116M7 | 16 | 1/1 | M7 | 14.5 | 27.1 | 37.2 | 47.3 |
|  | GHB11_012216M7 | 16 | 2/2 | M7 | 4 | 10.3 | 15.4 | 20.5 |
|  | GHB11_011120M6 | 20 | 1/1 | M6 | 14.5 | 27.1 | 37.2 | 47.3 |
|  | GHB11_012220M6 | 20 | 2/2 | M6 | 4 | 10.3 | 15.4 | 20.5 |
| 1.600 | GHA12_014105M7 | 5 | 4/1 | M7 | 4.5 | 8 | 10.8 |  |
|  | GHA12_012110M5 | 10 | 2/1 | M5 | 9 | 16 | 21.6 |  |
|  | GHB11_012216M5 | 16 | 2/2 | M5 |  | 10.3 | 15.4 | 20.5 |
|  | GHB11_011116M5 | 16 | 1/1 | M5 | 14.5 | 27.1 | 37.2 | 47.3 |
|  | GHD13_012220M7 | 20 | $2 / 2$ | M7 |  | 15.9 |  | 31 |
|  | GHD13_011120M7 | 20 | 1/1 | M7 | 15.2 | 28.8 |  | 51 |
| 2.000 | GHA12_024105M7 | 5 | 4/1 | M7 | 4.5 | 8 | 10.8 |  |
|  | GHB11_022108M7 | 8 | 2/1 | M7 | 7.26 | 13.55 | 18.6 | 23.6 |
|  | GHB11_024208M7 | 8 | 4/2 | M7 |  | 5 | 7.5 | 10 |
|  | GHB11_022110M6 | 10 | 2/1 | M6 | 7.26 | 13.55 | 18.6 | 23.6 |
|  | GHB11_024210M6 | 10 | 4/2 | M6 |  | 5 | 7.5 | 10 |
|  | GHD13_022216M7 | 16 | 2/2 | M7 |  | 15.9 |  | 31 |
|  | GHD13_021116M7 | 16 | 1/1 | M7 | 15.2 | 28.8 |  | 51 |
|  | GHD13_022220M6 | 20 | 2/2 | M6 |  | 15.9 |  | 31 |
|  | GHD13_021120M6 | 20 | 1/1 | M6 | 15.2 | 28.8 |  | 51 |
| 2.500 | GHA12_024105M6 | 5 | 4/1 | M6 | 4.5 | 8 | 10.8 |  |
|  | GHB11_022108M6 | 8 | 2/1 | M6 | 7.26 | 13.55 | 18.6 | 23.6 |
|  | GHB11_024208M6 | 8 | 4/2 | M6 |  | 5 | 7.5 | 10 |
|  | GHB11_022110M5 | 10 | 2/1 | M5 | 7.26 | 13.55 | 18.6 | 23.6 |
|  | GHB11_024210M5 | 10 | 4/2 | M5 |  | 5 | 7.5 | 10 |
|  | GHD13_022110M7 | 10 | 2/1 | M7 | 7.6 | 14.4 |  | 25.5 |
|  | GHD13_024210M7 | 10 | 4/2 | M7 |  | 7 |  | 14.7 |
|  | GHD13_022216M6 | 16 | 2/2 | M6 |  | 15.9 |  | 31 |
|  | GHD13_021116M6 | 16 | 1/1 | M6 | 15.2 | 28.8 |  | 51 |
|  | GHD13_022220M5 | 20 | 2/2 | M5 |  | 15.9 |  | 31 |
|  | GHD13_021120M5 | 20 | 1/1 | M5 | 15.2 | 28.8 |  | 51 |


| kg. | Hoist | $\begin{aligned} & \text { Speed } \\ & \text { mmin } \end{aligned}$ | Falls | DutyFEM | HOL (Height Of Lift) (m) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | H1 | H2 | H3 | H4 |
| 3.200 | GHA12_034105M5 | 5 | 4/1 | M5 | 4.5 | 8 | 10.5 |  |
|  | GHB11_034105M7 | 5 | 4/1 | M7 | 3.6 | 6.8 |  | 10 |
|  | GHB11_032108M5 | 8 | $2 / 1$ | M5 | 7.26 | 13.55 | 18.6 | 23.6 |
|  | GHB11_034208M5 | 8 | 4/2 | M5 |  | 5 | 7.5 | 10 |
|  | GHD13_032110M7 | 10 | $2 / 1$ | M7 | 7.6 | 14.4 |  | 25.5 |
|  | GHD13_034210M7 | 10 | 4/2 | M7 |  | 7 |  | 14.7 |
|  | GHD13_032216M5 | 16 | 2/2 | M5 |  | 15.9 |  | 31 |
|  | GHD13_031116M5 | 16 | 1/1 | M5 | 15.2 | 28.8 |  | 51 |
| 4.000 | GHB11_044104M7 | 4 | 4/1 | M7 | 3.6 | 6.8 |  | 10 |
|  | GHB11_044105M6 | 5 | 4/1 | M6 | 3.6 | 6.8 |  | 10 |
|  | GHD13_042108M7 | 8 | $2 / 1$ | M7 | 7.6 | 14.4 |  | 25.5 |
|  | GHD13_044208M7 | 8 | 4/2 | M7 |  | 7 |  | 14.7 |
|  | GHD13_042110M6 | 10 | 2/1 | M6 | 7.6 | 14.4 |  | 25.5 |
|  | GHD13_044210M6 | 10 | 4/2 | M6 |  | 7 |  | 14.7 |
| 5.000 | GHB11_054104M6 | 4 | 4/1 | M6 | 3.6 | 6.8 |  | 10 |
|  | GHB11_054105M5 | 5 | 4/1 | M5 | 3.6 | 6.8 |  | 10 |
|  | GHD13_054105M7 | 5 | 4/1 | M7 | 3.8 | 7.2 |  | 10 |
|  | GHD13_052108M6 | 8 | 2/1 | M6 | 7.6 | 14.4 |  | 25.5 |
|  | GHD13_054208M6 | 8 | 4/2 | M6 |  | 7 |  | 14.7 |
|  | GHD13_052110M5 | 10 | 2/1 | M5 | 7.6 | 14.4 |  | 25.5 |
|  | GHD13_054210M5 | 10 | 4/2 | M5 |  | 7 |  | 14.7 |
| 6.300 | GHB11_064104M5 | 4 | $4 / 1$ | M5 | 3.6 | 6.8 |  | 10 |
|  | GHD13_064105M7 | 5 | $4 / 1$ | M7 | 3.8 | 7.2 |  | 10 |
|  | GHD13_062108M5 | 8 | $2 / 1$ | M5 | 7.6 | 14.4 |  | 25.5 |
|  | GHD13_064208M5 | 8 | $4 / 2$ | M5 |  | 7 |  | 14.7 |
| 8.000 | GHD13_084104M7 | 4 | 4/1 | M7 | 3.8 | 7.2 |  | 10 |
|  | GHD13_084105M6 | 5 | 4/1 | M6 | 3.8 | 7.2 |  | 10 |
| 10.000 | GHD13_104104M6 | 4 | 4/1 | M6 | 3.8 | 7.2 |  | 10 |
|  | GHD13_104105M5 | 5 | 4/1 | M5 | 3.8 | 7.2 |  | 10 |
| 12.500 | GHD13_124104M5 | 4 | 4/1 | M5 | 3.8 | 7.2 |  | 10 |

## InNoVation WHICH DELIVERS VaLUE

WHICH OF THE BELOW CHARACTERISTICS WOULD YOU
REQUIRE FOR A NEW MACHINE YOU ARE ABOUT TO BUY?

Experienced Manufacturer
Vanguard technology
The highest Safety standards
Extended Reliability
Maximum Eficiency
Proven Robustness
Modern and compact design
Minimum Maintenance
User friendliness


## NEW HOIST SERIES: GHA12 (UP TO 3.2T), GHB11 (UP TO 6.3T) \& GHD13 (UP TO 12.5T)



- Totally modular, screwed mounting: easy maintenance.
- Design in $\mathbb{C}$ decreasing side approaches in single girder versions.
- Improved materials used increasing hoist life span.
- Frequency inverters as standard on all movements (2 speeds in lifting optional).
- Increased life of mechanical components.
- Speed control by inverter, selectable speeds.
- Precise handling and smoothness in movement.
- Easier dual hoists lifting speeds synchronization.
- Flange width: Smoothly adjustable.
- Easier dual hoists lifting speeds synchronization.
- No counterweights in Low headroom version as standard:


320 mm



## SAFETY

## FEATURES

- Rope safety factor $\geqslant 5$ in accordance with Directive of Machines 2006/42CE STD.
- Double limitiswitch on lifting.
- Safe working period control.
- Load swing control.
- Operation and maintenance monitoring.
- Load slip preventing feature.
- Slack rope indication
- Protection against phase inversion or phase loss.
- Motor overheating protection.
- Overload limit device.
- Reliable load clamping by safety latch.

| Capacity [kg] | Hoist type | FEM Group | Reeving | FI Lifting [m/min] | Rated power [Kw] | Height of lifting HOL [m] |  |  |  |  | H6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SWL | CODE | FEM | FALL | V | P | H1 | H2 | H3 | $\mathrm{H}_{4}$ | H5 |  |
| 1000 | GHA12_014105M7 | M7 | $4 / 1$ | 5 | 3,1 | 4.5 | 8 | 10,8 |  |  |  |
|  | GHA12_012110M6 | M6 | $2 / 1$ | 10 |  | 9 | 16 | 21,6 |  |  |  |
|  | GHB11_012216M7 | M7 | 212 | 16 | 5 | 4 | 10,3 | 15,4 | 20,5 |  |  |
|  | GHB11_012220M6 | M6 |  | 20 |  |  |  |  |  |  |  |
|  | GHB11_011116M7 | M7 | $1 / 1$ | 16 |  | 14,5 | 27,1 | 37,2 | 47,3 |  |  |
|  | GHB11_011120M6 | M6 |  | 20 |  |  |  |  |  |  |  |
| 1600 | GHA12_014105M7 | M7 | $4 / 1$ | 5 | 3,1 | 4,5 | 8 | 10,8 |  |  |  |
|  | GHA12_012110M5 | M5 | $2 / 1$ | 10 |  | 9 | 16 | 21,6 |  |  |  |
|  | GHB11_012216M5 | M5 | $2 / 2$ | 16 | 5 |  | 10,3 | 15,4 | 20,5 |  |  |
|  | GHB11_011116M5 | M5 | $1 / 1$ | 16 |  | 14,5 | 27,1 | 37,2 | 47,3 |  |  |
|  | GHD13_012220M7 | M7 | 212 | 20 | 9,5 |  | 15,9 |  | 31 | 38,5 | 46 |
|  | GHD13_011120M7 | M7 | $1 / 1$ | 20 |  | 15,2 | 28,8 |  | 51 | 61,9 | 72,8 |
| 2000 | GHA12_024105M7 | M7 | 4.1 | 5 | 3,1 | 4,5 | 8 | 10,8 |  |  |  |
|  | GHB11_024208M7 | M7 | $4 / 2$ | 8 | 5 |  | 5 | 7,5 | 10 |  |  |
|  | GHB11_024210M6 | M6 |  | 10 |  |  |  |  |  |  |  |
|  | GHB11_022108M7 | M7 | $2 / 1$ | 8 |  | 7,26 | 13,55 | 18,6 | 23,6 |  |  |
|  | GHB11_022110M6 | M6 |  | 10 |  |  |  |  |  |  |  |
|  | GHD13_022216M7 | M7 | $2 / 2$ | 16 | 9,5 |  | 15.9 |  | 31 | 38,5 | 46 |
|  | GHD13_022220M6 | M6 |  | 20 |  |  |  |  |  |  |  |
|  | GHD13_021116M7 | M7 | 1/1 | 16 |  | 15,2 | 28,8 |  | 51 | 61,9 | 72,8 |
|  | GHD13_021120M6 | M6 |  | 20 |  |  |  |  |  |  |  |
| 2500 | GHA12_024105M6 | M6 | $4 / 1$ | 5 | 3,1 | 4,5 | 8 | 10,8 |  |  |  |
|  | GHB11_024208M6 | M6 | $4 / 2$ | 8 | 5 |  | 5 | 7,5 | 10 |  |  |
|  | GHB11_024210M5 | M5 |  | 10 |  |  |  |  |  |  |  |
|  | GHB11_022108M6 | M6 | $2 / 1$ | 8 |  | 7,26 | 13,55 | 18,6 | 23,6 |  |  |
|  | GHB11_022110M5 | M5 |  | 10 |  |  |  |  |  |  |  |
|  | GHD13_024210M7 | M7 | $4 / 2$ | 10 | 9,5 |  | 7 |  | 14,7 | 18,5 | 22,3 |
|  | GHD13_022110M7 | M7 | $2 / 1$ | 10 |  | 7,6 | 14,4 |  | 25,5 | 31 | 36,5 |
|  | GHD13_022216M6 | M6 | $2 / 2$ | 16 |  |  | 15,9 |  | 31 | 38,5 | 46 |
|  | GHD13_022220M5 | M5 |  | 20 |  |  |  |  |  |  |  |
|  | GHD13_021116M6 | M6 | 1/1 | 16 |  | 15.2 | 28,8 |  | 51 | 61,9 | 72,8 |
|  | GHD13_021120M6 | M5 |  | 20 |  |  |  |  |  |  |  |
| 3200 | GHA12_034105M5 | M5 | $4 / 1$ | 5 | 3,1 | 4.5 | 8 | 10,8 |  |  |  |
|  | GHB11_034105M7 | M7 | $4 / 1$ | 5 | 5 | 3,6 | 6,8 |  | 10 |  |  |
|  | GHB11_034208M5 | M5 | $4 / 2$ | 8 |  |  | 5 | 7,5 | 10 |  |  |
|  | GHB11_032108M5 | M5 | $2 / 1$ | 8 |  | 7,26 | 13,55 | 18,6 | 23,6 |  |  |
|  | GHD13_034210M7 | M7 | $4 / 2$ | 10 | 9,5 |  | 7 |  | 14,7 | 18,5 | 22,3 |
|  | GHD13_032110M7 | M7 | $2 / 1$ | 10 |  | 7,6 | 14,4 |  | 25,5 | 31 | 36,5 |
|  | GHD13_032216M5 | M5 | 212 | 16 |  |  | 15,9 |  | 31 | 38,5 | 46 |
|  | GHD13_031116M5 | M5 | $1 / 1$ | 16 |  | 15,2 | 28,8 |  | 51 | 61,9 | 72,8 |
| 4000 | GHB11_044104M7 | M7 | $4 / 1$ | 4 | 5 | 3,6 | 6,8 |  | 10 |  |  |
|  | GHB11_044105M6 | M6 |  | 5 |  |  |  |  |  |  |  |
|  | GHD13_044208M7 | M7 | $4 / 2$ | 8 | 9,5 |  | 7 |  | 14,7 | 18,5 | 22,3 |
|  | GHD13_044210M6 | M6 |  | 10 |  |  |  |  |  |  |  |
|  | GHD13_042108M7 | M7 | $2 / 1$ | 8 |  | 7,6 | 14,4 |  | 25,5 | 31 | 36,5 |
|  | GHD13_042110M6 | M6 |  | 10 |  |  |  |  |  |  |  |
| 5000 | GHB11_054104M6 | M6 | $4 / 1$ | 4 | 5 | 3,6 | 6,8 |  | 10 |  |  |
|  | GHB11_054105M5 | M5 |  | 5 |  |  |  |  |  |  |  |
|  | GHD13_054105M7 | M7 | $4 / 1$ | 5 | 9,5 | 3,8 | 7,2 |  | 10 | 12,8 | 15,6 |
|  | GHD13_054208M6 | M6 | $4 / 2$ | 8 |  |  | 7 |  | 14.7 | 18,5 | 22,3 |
|  | GHD13_054210M5 | M5 |  | 10 |  |  |  |  |  |  |  |
|  | GHD13_052108M6 | M6 | $2 / 1$ | 8 |  | 7,6 | 14,4 |  | 25,5 | 31 | 36,5 |
|  | GHD13_052110M5 | M5 |  | 10 |  |  |  |  |  |  |  |
| 6300 | GHB11_064104M5 | M5 | 411 | 4 | 5 | 3,6 | 6,8 |  | 10 |  |  |
|  | GHD13_064105M7 | M7 | $4 / 1$ | 5 | 9,5 | 3,8 | 7,2 |  | 10 | 12,8 | 15,6 |
|  | GHD13_064208M5 | M5 | $4 / 2$ | 8 |  |  | 7 |  | 14,7 | 18,5 | 22,3 |
|  | GHD13_062108M5 | M5 | $2 / 1$ | 8 |  | 7.6 | 14,4 |  | 25,5 | 31 | 36,5 |
| 8000 | GHD13_084104M7 | M7 | $4 / 1$ | 4 | 9,5 | 3,8 | 7,2 |  | 10 | 12,8 | 15,6 |
|  | GHD13_084105M6 | M6 |  | 5 |  |  |  |  |  |  |  |
| 10000 | GHD13_104104M6 | M6 | 4.1 | 4 | 9,5 | 3,8 | 7,2 |  | 10 | 12,8 | 15,6 |
|  | GHD13_104105M5 | M5 |  | 5 |  |  |  |  |  |  |  |
| 12500 | GHD13_124104M5 | M5 | 4.1 | 4 | 9,5 | 3,8 | 7,2 |  | 10 | 12,8 | 15,6 |

[^0]
## SERIES: GHE, GHF, GHG



FOOT MOUNTED


SG TROLLEY


DG EC TROLLEY

DG DUAL EC TROLLEY

SWL $\leqslant 100 \mathrm{t}$
$H O L \leqslant 69 \mathrm{~m}$

$S W L \leqslant 20 t$ as STD,
HOL $\leqslant 57.8 \mathrm{~m}$
SWL $\leqslant 40$ t on request

DG STD TROLLEY
SWL $\leqslant 32 \mathrm{t}$
$H O L \leqslant 28 \mathrm{~m}$


## FEATURES



## 〔GEARBOX

Robust and compact, situated on the exte- rior, allowing ease of access, gears in oil bath. The helical teeth in all the gears are cut with great precision, in cemented steel, assuring silent running, great reliabilty and long life. The drive from the motor to the gearbox is direct, avoiding coupling devices which have a tendancy to fail.


TRAVELLING GEAREDMOTORS

Are specially designed for crane application. Low torque high inertia drives, provide gradual acceleration
and smooth deceleration without excessive swing.


- OVERLOAD LIMIT DEVICE

All of our hoists are fitted with an electro-mechanical load cell as standard (electronic control). This
load cell consists mainly of 2 parts:

- A electronic cell pin
- Load cell unit (to be installed in the electric panel).

- DRUM \& CABLE GUIDE

Constructed from a seamless steel tube with grooves machined according to DIN15061. The groove is machined dependant on the wire rope exits i.e. 1 or 2 exits. The drum is fitted to the hoist frame using high quality, self lubricating, comercial bearings. The drive from the gearbox to the drum is via a direct splined shaft. The rope guide is manufactured from GGG70 nodular cast iron with self lubricating graphite, which also gives particular resistance to wear.


## \& PUSH BUTTOM PENDANT

Is manufactured from high impact poly- propylene and provides double insulation. The various motions are controlled by push-buttons which are colour coded as well as being indentified by internationally recognised symbols. Low dead weight and ergonomically styled housing reduces operator's fatigue.

electrical cabinet

A white metallic box located on the hoist frame, allowing easy access to the electrical control components.


- LIMIT SWITCH

Is located in the drum axle. It limits hook movement in the up and down motions.


4 BOTTOM HOOK BLOCK

The sheaves' groove is made according to DIN 15061. The cross pin and nut are machined according to DIN 15412 \& 15413. The hooks are selected according to DIN154000 and machined to DIN 15401 \& 15402, depending on whether they are single or double.

## E B $20 \quad 41 \quad 4 \quad$ H2 $\quad$ M5



Hoist type. Execution (F: Fixed hoist; N: Normal headroom; R: Low headroom; B: Double girder standard; T: Double girder with end girders)

* Bigger HOL or lifting speeds available for each model on request.
- Robustness as main characteristic.
- Small crab approach to enlarge the working area.
- Tailor made solutions on request: rotatory, turning, cradled, over-running, cantilever, etc.

Hoist type. Size (E, F, G)




[^0]:    * GHA12 only available in single girder low headroom version.
    * $1 / 1$ and $2 / 2$ falls only available in 2 speeds version.
    * Bigger HOL or lifting speeds available for each model under request.

