

· GH ·

CRANES & COMPONENTS



NEW HOIST GENERATION

BORN
FROM
EXPERIENCE



**OVER
60 YEARS
OF KNOW-HOW**



More than
100,000 hoists
installed
vouch for
our experience

2

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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.





We've developed a new hoist



INDUSTRIAS ELECTROMECÁNICAS GH, S.A.



1956



1960



1980



1990

2000



2012

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.

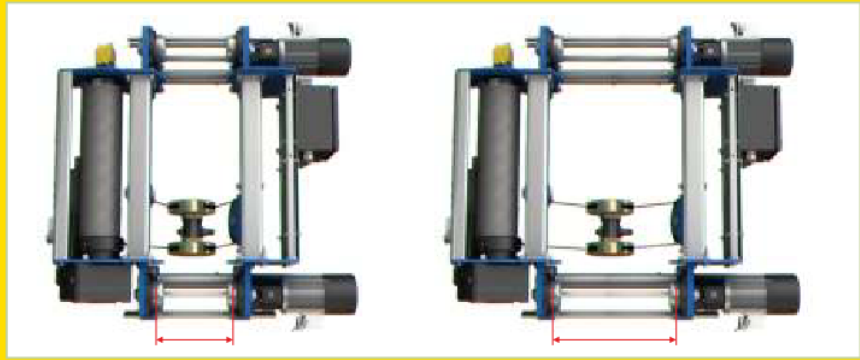
Reduced weight, transmitting less stress to the structure.

Complies with European Machine Directive 2006/42/EC.

Designed for higher productivity and maintenance savings.

Quick connector on motors and cabinets.

An adaptable, modular hoist



Modular design,
easily adaptable
to different
wire rope
arrangements
and girder widths



4/1 reeving configuration

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.



2/1 reeving configuration

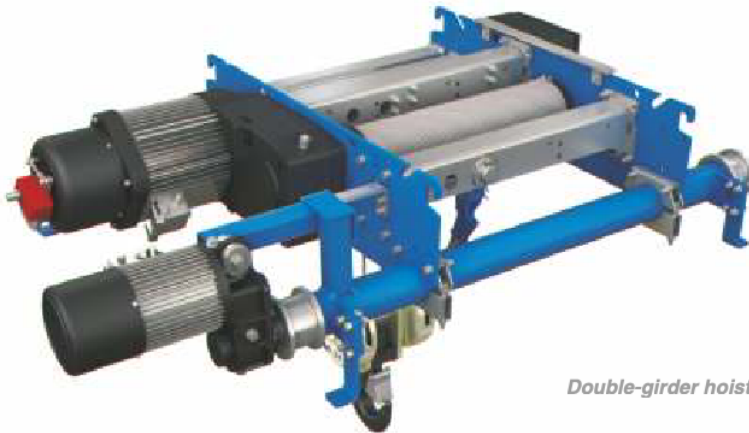


A robust, reliable range of hoists

Specific
solutions
for each type
of work and
working
environment



Single-girder suspended hoist



Double-girder hoist with tubes

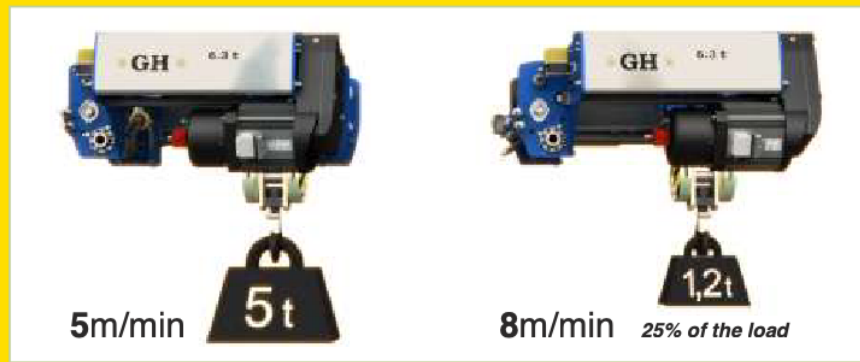


Double-girder hoist with end carriages

- Aeronautics
- Shipbuilding
- Automotive
- Metal fabrication
- Wind power
- Railway
- Casting
- Container cranes
- Steel handling
- Stone handling
- Boat handling
- Public works
- Paper mills
- Precast concrete
- Urban solid waste
- Steel industry

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.

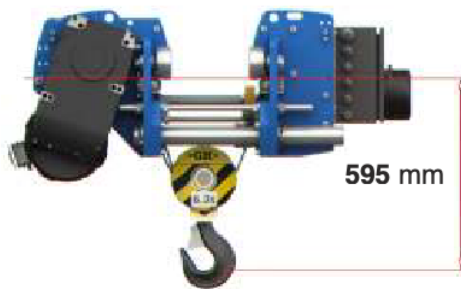
Helical gears

- 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.





State-of-the-art technology, adapted to the customer's needs

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.



Electronic load limit device (ALE-100/TN)

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.



Radio remote control with display (on the radio)

Frequency inverter for hoist and cross travel motions

Machines with energy efficiency and optimised design



We have used state-of-the-art technology to improve all aspects of this new hoist

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.



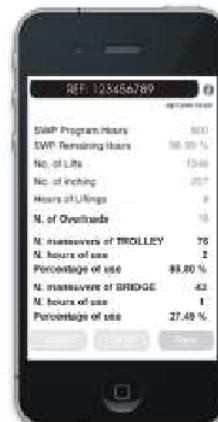
Energy savings and environmental protection have become a major issue in today's engineering systems

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

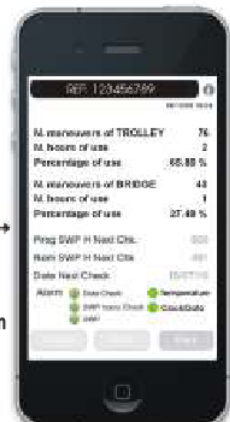
- High energy efficiency.
- No braking resistance required.
- Minimal heat generation on braking.
- Huge energy saving potential.

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.



Scroll screen to view





A wide range is available

Standard: Frequency inverter on hoisting

Models GHA12, GHB11 and GHD13

- Nominal speed at full load 5m/min.
- Overspeed at 1/4 load 8m/min.

Optional: 2-speed motor

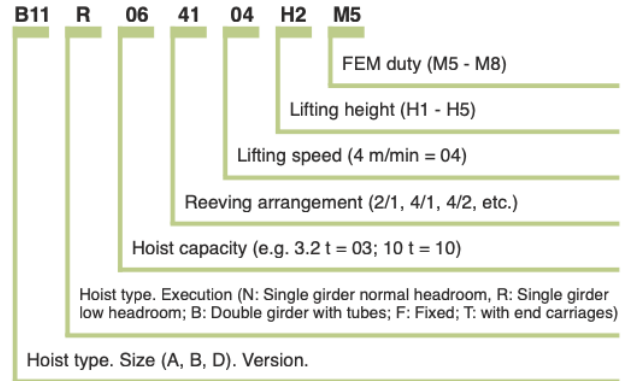
Hoisting speed

- 5/0.8 m/min. GHB11, GHD13

Hoisting speed

- 5/1.25 m/min. GHA12

Other options available.



kg.	Hoist	Speed m/min	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

Hoist selection chart

kg.	Hoist	Speed m/min	Falls	Duty FEM	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
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
6.300	GHD13_054210M5	10	4/2	M5		7		14.7
	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
8.000	GHD13_064208M5	8	4/2	M5		7		14.7
	GHD13_084104M7	4	4/1	M7	3.8	7.2		10
10.000	GHD13_084105M6	5	4/1	M6	3.8	7.2		10
	GHD13_104104M6	4	4/1	M6	3.8	7.2		10
12.500	GHD13_104105M5	5	4/1	M5	3.8	7.2		10
	GHD13_124104M5	4	4/1	M5	3.8	7.2		10

Technical assistance service, maintenance and original spare parts



We've designed a state-of-the-art, lightweight, robust hoist requiring minimum maintenance



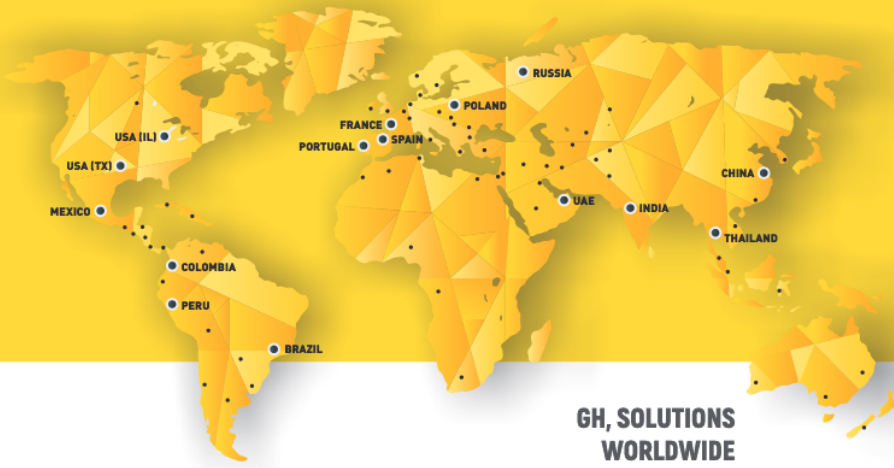
GH spare parts distribution center



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.





Presence in
+73 COUNTRIES
ON 5 CONTINENTS

+ 112.000
sold cranes

+ 750

IN THE **TOP 5** CRANE
MANUFACTURERS
WORLDWIDE

**GH, SOLUTIONS
WORLDWIDE**

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**Lifting
your
world.**



■ DESIGNED, BUILT AND
■ KEPT IN SHAPE BY OUR
■ TOP TEAMS



See the video on the new GHB11 hoist by scanning this QR code, or online at:

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

■ **GH** ■
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