GH

Cranes & Components


# NEW HOIST GENERATION

BORN FROM EXPERIENCE


# Over 50 years of know-how



## Contents




More than 100,000 hoists installed vouch for our experience


**GH** started out in 1956, as a manufacturer of lifting components. We now operate in over 55 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 ELECTROMECANICAS 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.

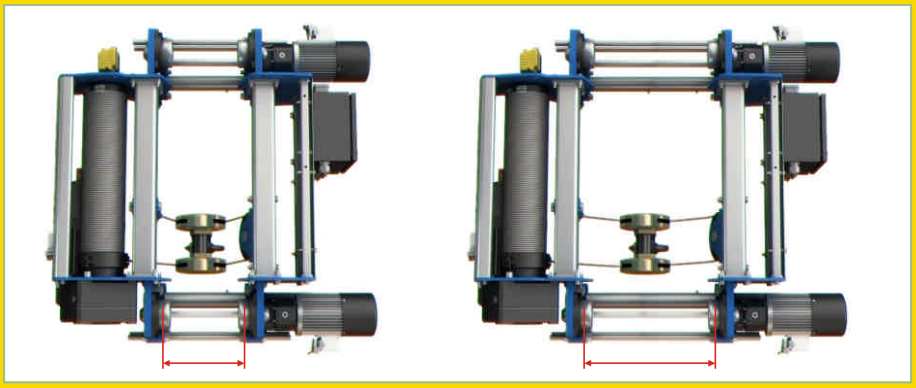
Reduced weight, transmitting less stress to the structure.

Complies with European Machine Directive 2006/42/EC.

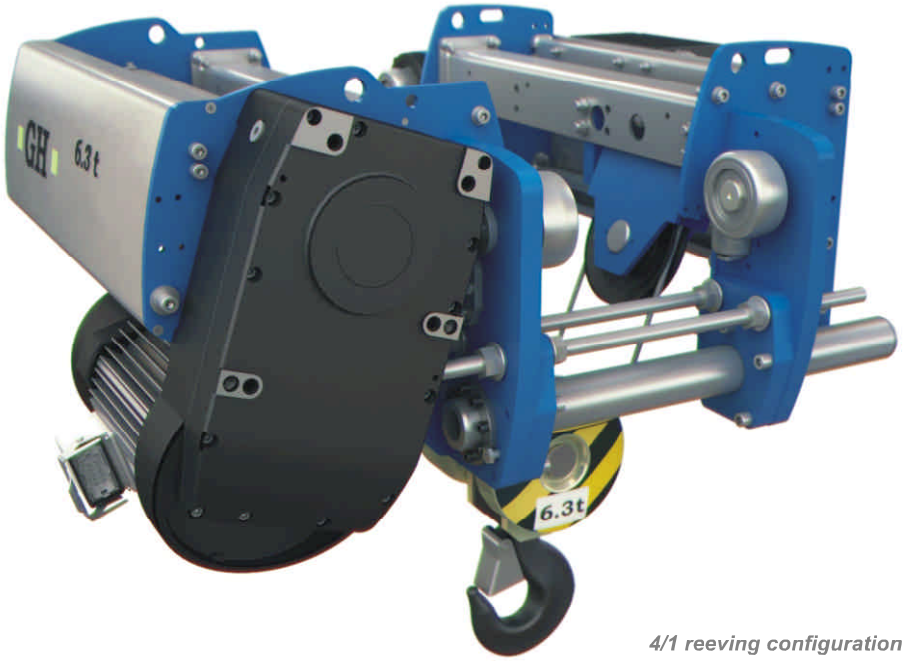
Designed for higher productivity and maintenance savings.

Quick connector on motors and cabinets.

# An adaptable, modular hoist



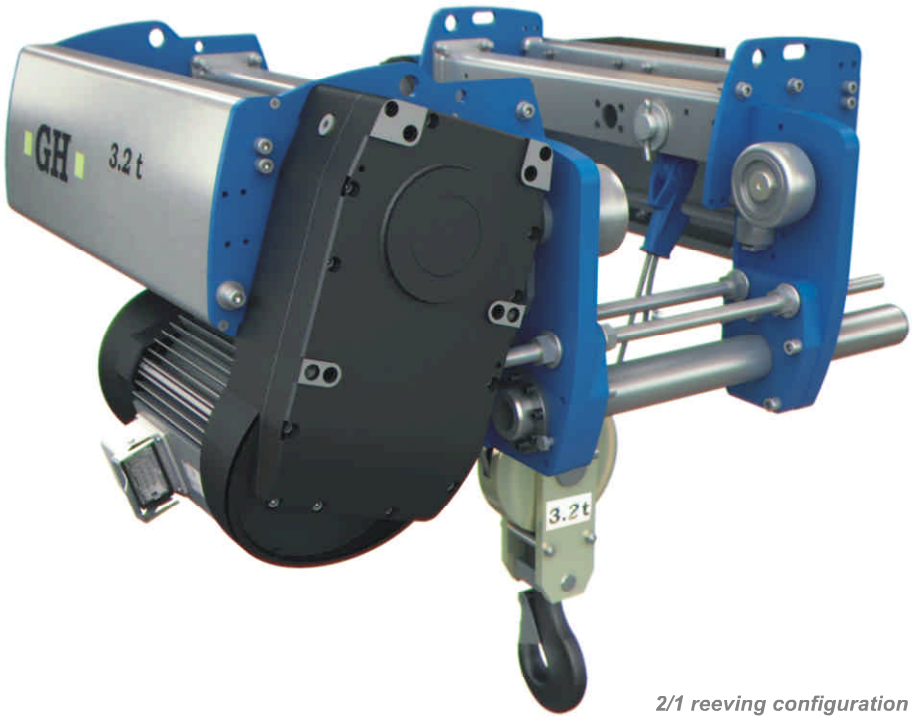
## Modular design, easily adaptable to different wire rope arrangements and girder widths



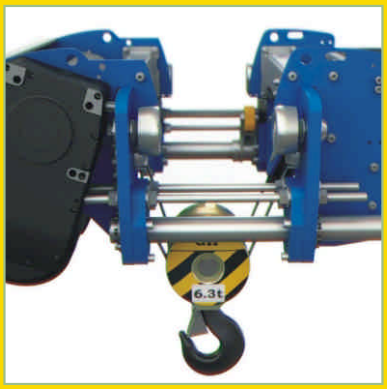

*4/1 reeving configuration*

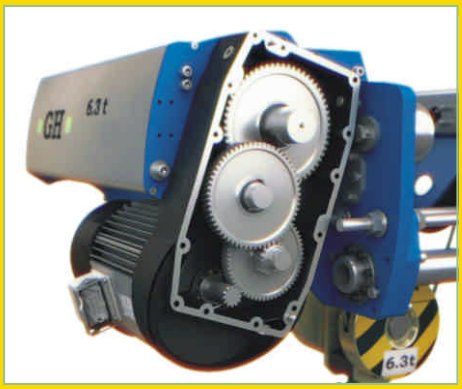
The new GHB11 hoist's modular design enables much of the structure to be used for assembling the different hoist configurations, different rope arrangements (4/1, 2/1, 4/2, etc.), drum lengths or installing a second motor.

This design makes GH's new hoist competitive and quick to manufacture.



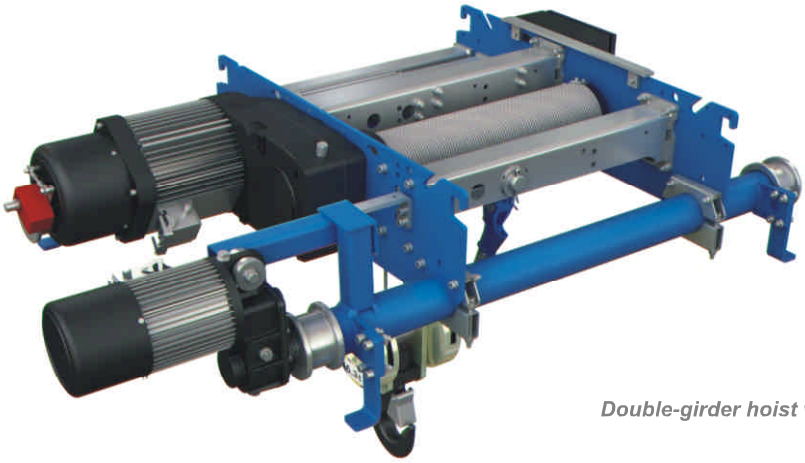

*2/1 reeving configuration*





# A ROBUST, RELIABLE RANGE OF HOISTS


*Single-girder suspended hoist*



*Double-girder hoist with tubes*

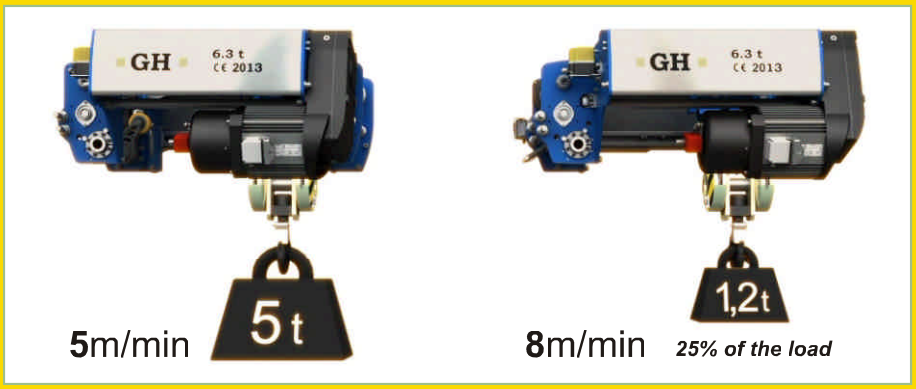

*Double-girder hoist with end carriages*

## Specific solutions for each type of work and working environment

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**

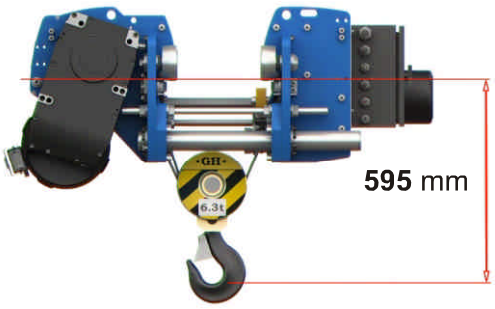
- GH's own optimised design.
- Encoder safety.
- IP-55 protection as per DIN 40050.
- Duty cycle 60% ED.

**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.

## 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)*


*Radio remote control with display (on the radio)*

***Frequency inverter for hoist and cross travel motions***

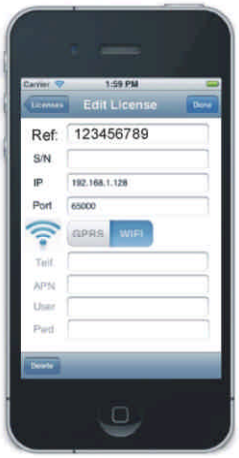
# MACHINES WITH ENERGY EFFICIENCY AND OPTIMISED DESIGN


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.


# A WIDE RANGE IS AVAILABLE

**Standard: Frequency inverter on hoisting**

Models GHA12, GHB11 and GHD12

- 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, GHD12

Hoisting speed

- 5/1.25 m/min. GHA12

Other options available.

**A11 R 06 41 04 H2 M5**

- M5: FEM duty (M5 - M8)
- H2: Lifting height (H1 - H5)
- 04: Lifting speed (4 m/min = 04)
- 41: Reeving arrangement (2/1, 4/1, 4/2, etc.)
- 06: Hoist capacity (e.g. 3.2 t = 03; 10 t = 10)
- R: Hoist type. Execution (M: Single girder normal headroom, R: Single girder low headroom; B: Double girder with tubes; F: Fixed; T: with end carriages)
- A11: Hoist type. Size (A, B, D). Version.

| 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 |
| | GHD12_012220M7 | 20 | 2/2 | M7 | 4.9 | 14.4 | 29.5 | 37 |
| | GHD12_011120M7 | 20 | 1/1 | M7 | 15.2 | 28.8 | 51 | 61.9 |
| 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 | 4 | 10.3 | 15.4 | 20.5 |
| | GHB11_011116M5 | 16 | 1/1 | M5 | 14.5 | 27.1 | 37.2 | 47.3 |
| | GHD12_012220M7 | 20 | 2/2 | M7 | 4.9 | 14.4 | 29.5 | 37 |
| | GHD12_011120M7 | 20 | 1/1 | M7 | 15.2 | 28.8 | 51 | 61.9 |
| 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 |
| | GHD12_022216M7 | 16 | 2/2 | M7 | 4.9 | 14.4 | 29.5 | 37 |
| | GHD12_021116M7 | 16 | 1/1 | M7 | 15.2 | 28.8 | 51 | 61.9 |
| | GHD12_022220M6 | 20 | 2/2 | M6 | 4.9 | 14.4 | 29.5 | 37 |
| | GHD12_021120M6 | 20 | 1/1 | M6 | 15.2 | 28.8 | 51 | 61.9 |
| 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 |
| | GHD12_022216M6 | 16 | 2/2 | M6 | 4.9 | 14.4 | 29.5 | 37 |
| | GHD12_021116M6 | 16 | 1/1 | M6 | 15.2 | 28.8 | 51 | 61.9 |
| | GHD12_022220M5 | 20 | 2/2 | M5 | 4.9 | 14.4 | 29.5 | 37 |
| | GHD12_021120M5 | 20 | 1/1 | M5 | 15.2 | 28.8 | 51 | 61.9 |

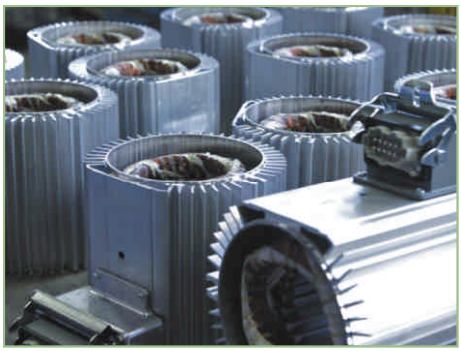
| kg. | Hoist | Speed m/min | Falls | Duty FEM | HOL (Height Of Lift) (m) H1 | H2 | H3 | H4 |
|---|---|---|---|---|---|---|---|---|
| 3,200 | GHA12_034105M5 | 5 | 4/1 | M5 | 4.5 | 8 | 10.8 | |
| | GHB11_034105M7 | 5 | 4/1 | M7 | 3.6 | 6.8 | | 10 |
| | GHB11_032108M5 | 8 | 2/1 | M5 | 7.26 | 13.55 | 18.6 | 23.6 |
| | GHB11_034208M5 | 8 | 4/2 | M5 | | 5 | 7.5 | 10 |
| | GHB11_034208M7 | 8 | 4/2 | M7 | | 7 | | 18.5 |
| | GHD12_032110M7 | 10 | 2/1 | M7 | 7.6 | 14.4 | 25.5 | 31.0 |
| | GHD12_034210M7 | 10 | 4/2 | M7 | | 7 | 14.7 | 18.5 |
| | GHD12_032216M5 | 16 | 2/2 | M5 | 4.9 | 14.4 | 29.5 | 37 |
| | GHD12_032116M5 | 16 | 1/1 | M5 | 15.2 | 28.8 | 51 | 61.9 |
| 4,000 | GHB11_044104M7 | 4 | 4/1 | M7 | 3.6 | 6.8 | | 10 |
| | GHB11_044105M6 | 5 | 4/1 | M6 | 3.6 | 6.8 | | 10 |
| | GHD12_042108M7 | 8 | 2/1 | M7 | 7.6 | 14.4 | 25.5 | 31 |
| | GHD12_044208M6 | 8 | 4/2 | M7 | | 7 | 14.7 | 18.5 |
| | GHD12_042110M6 | 10 | 2/1 | M6 | 7.6 | 14.4 | 25.5 | 31 |
| | GHD12_044210M6 | 10 | 4/2 | M6 | | 7 | 14.7 | 18.5 |
| 5,000 | GHB11_054104M6 | 4 | 4/1 | M6 | 3.6 | 6.8 | | 10 |
| | GHB11_054105M5 | 5 | 4/1 | M5 | 3.6 | 6.8 | | 10 |
| | GHD12_052108M6 | 8 | 2/1 | M6 | 3.6 | 14.4 | 25.5 | 31 |
| | GHD12_054208M6 | 8 | 4/2 | M6 | 7.6 | 7 | 14.7 | 18.5 |
| | GHD12_052110M5 | 10 | 2/1 | M5 | | 14.4 | 25.5 | 31 |
| | GHD12_054210M5 | 10 | 4/2 | M5 | 7.6 | 7 | 14.7 | 18.5 |
| 6,300 | GHB11_064104M5 | 4 | 4/1 | M5 | 3.6 | 6.8 | | 10 |
| | GHD12_064105M7 | 5 | 4/1 | M7 | 3.8 | 7.2 | 10 | 12.8 |
| | GHD12_062108M5 | 8 | 2/1 | M5 | 7.6 | 14.4 | 25.5 | 31 |
| | GHD12_064208M5 | 8 | 4/2 | M5 | | 7 | 14.7 | 18.5 |
| 8,000 | GHD12_084104M7 | 4 | 4/1 | M7 | 3.8 | 7.2 | 10 | 12.8 |
| | GHD12_084105M6 | 5 | 4/1 | M6 | 3.8 | 7.2 | 10 | 12.8 |
| 10,000 | GHD12_104104M6 | 4 | 4/1 | M6 | 3.8 | 7.2 | 10 | 12.8 |
| | GHD12_104105M5 | 5 | 4/1 | M5 | 3.8 | 7.2 | 10 | 12.8 |
| 12,500 | GHD12_124104M5 | 4 | 4/1 | M5 | 3.8 | 7.2 | 10 | 12.8 |

*Hoist selection chart*

# 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.

## BEASAIN

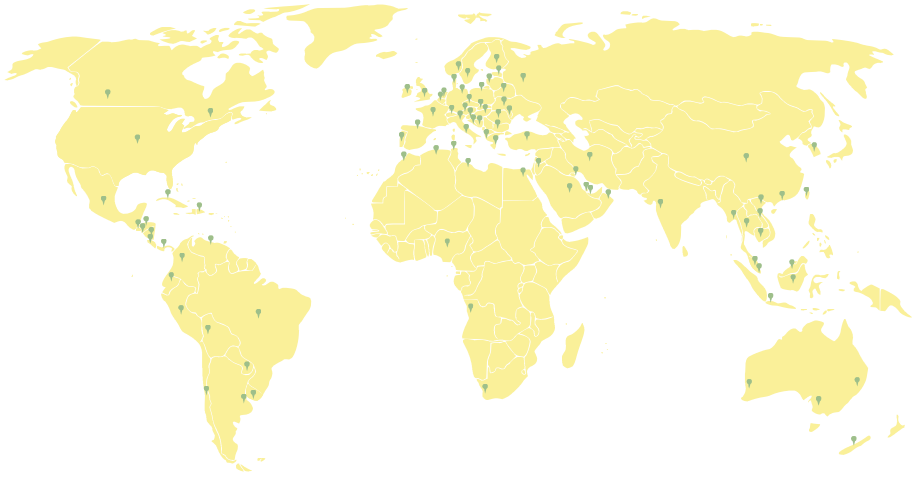
**CENTRAL OFFICES**
**TECHNICAL OFFICE**

## ALSASUA

**CENTRAL OFFICES**
**MACHINIG WORKSHOP**

## BAKAIKOA

**CENTRAL OFFICES**
**MACHINING WORKSHOP**



GH is also present in over 50 countries through local representatives and distributors



ANGOLA
ARGENTINA
AUSTRALIA
BELGIUM
BOLIVIA
BRAZIL
BULGARIA
CANADA
CHILE
CHINA
COLOMBIA
COSTA RICA
CUBA
CZECH REPUBLIC
DENMARK
DOMINICAN REPUBLIC
ECUADOR
EGYPT
EL SALVADOR
FRANCE
GREECE
GUATEMALA
HOLLAND
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SLOVAKIA
SOUTH KOREA
SWEDEN
THAILAND
TUNISIA
TURKEY
UK
UNITED ARABEMIRATES
URUGUAY
USA
VENEZUELA
VIETNAM

With a staff of over 300 in Spain and 600 worldwide, GH has a weekly production capacity of 50 standard cranes, 1 special crane, 40 hoists/kits, 2 industrial gantry cranes and 0.5 boat hoists, developing both standard and made-to-measure products.

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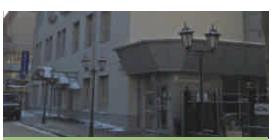

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## DESIGNED, BUILT AND KEPT IN SHAPE BY OUR TOP TEAMS

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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03.2013 anfora.net