·GH·

CRANES & COMPONENTS

NEW HOIST GENERATION

BORN FROM EXPERIENCE

Over 60 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 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 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.

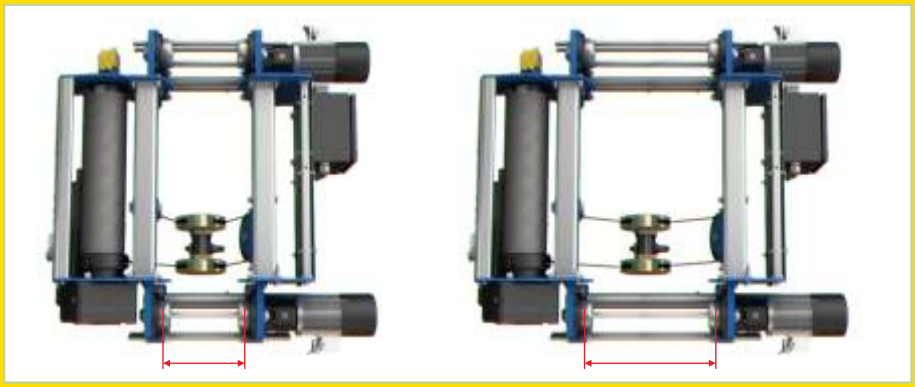
Reduced weight, transmitting less stress to the structure.

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

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.

4/1 reeving configuration

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

5m/min

8m/min *25% of the load*

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

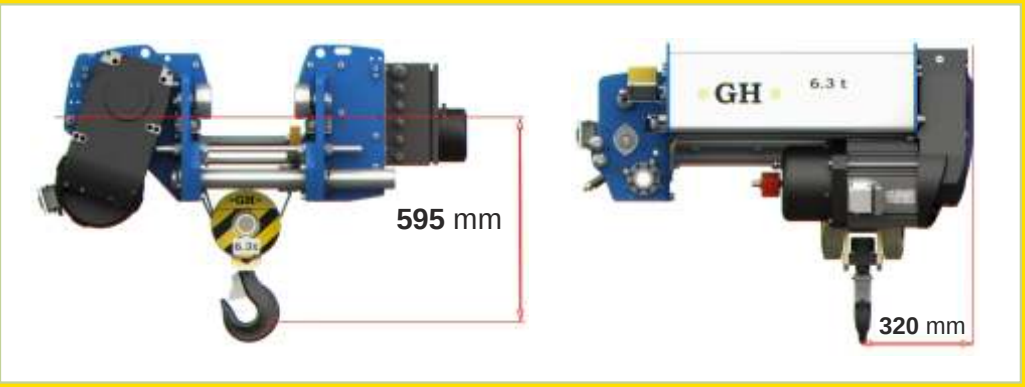
- GH's own optimised design.
- Encoder safety.
- IP-55 protection as per DIN 40050.
- Duty cycle 60% ED.

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.

Scroll screen to view

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 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.

B11 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 (N: Single girder normal headroom, R: Single girder low headroom; B: Double girder with tubes; F: Fixed; T: with end carriages)
- B11: 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
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	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
	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

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.

GH, SOLUTIONS WORLDWIDE

Presence in
+73 COUNTRIES
ON 5 CONTINENTS

+ 112.000
sold cranes

+ 750

IN THE **TOP 5** CRANE MANUFACTURERS WORLDWIDE

·GH·

www.ghcranes.com

GH, Spain central offices

Beasain
CENTRAL OFFICES
T: +34 943 805 660
ghcranes@ghcranes.com

Olaberria
T: +34 902 205 100
globalservice@ghcranes.com

Alsasua
T: +34 948 467 625

Bakaiku
T: +34 948 562 611

Jaén
T: +34 902 205 100

GH, subsidiaries in the world

Brazil — Cabreúva
GH DO BRASIL IND. E COM. LTDA.
T: +55 1144090066
ghdobrasil@ghdobrasil.com.br

China — Shangai
GH (SHANGHAI)
LIFTING EQUIPMENT CO., LTD.
T: +86 21 5988 7676
ghchina@ghsa.com

Colombia — Bogotá
GH COLOMBIA SAS
T: +57 1 750 4427
yezpeleta@ghsa.com

France — Couëron
GH FRANCE SA
T: +33(0) 240 861 212
ghfrance@ghsa.com

India — Pune
GH CRANES INDIA PVT. LTD.
T: +91 89561 35444
ghindia@ghsa.com

Mexico — Queretaro
GRÚAS GH MEXICO SA DE CV
T: +52 44 22 77 55 03
+52 44 22 77 50 74
ghmexico@ghsa.com.mx

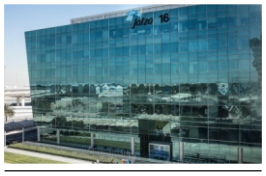
Peru — Lima
GH PERÚ S.A.C.
T: +51 987816231
gferradas@ghsa.com

Poland — Kłobuck
GH CRANES SP. Z O.O.
T: +48 34 359 73 17
intertech@ghsa.pl

Portugal — Mamede do Coronado
GH PORTUGAL
T: +351 229 821 688
geral@ghsa.com

Russia — Moscow
GH RUSSIA
T: +7 (495) 745 69 26
ghrussia@ghsa.com

Thailand — Chonburi
LGH Cranes
T: +66 (0) 2327 9399
M: +66 (0) 8 4660 1365
ghthailand@ghsa.com



UAE — Dubai
GH Cranes Arabia FZCO
Office no. 517, 5th Floor, Jafza
Building 16, Jebal Ali Free Zone.
P.O Box Number - 263594
T: +971 4 8810773
gharabia@ghcranes.com

USA — Illinois
GH CRANES USA
T: (815) 277 5328
ghcranesusa@ghsa.com

USA — Texas
F&G CRANES
T: (972) 563 8333
info@fg-ind.com

Lifting your world.

anfora.net
2018.07

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·
CRANES & COMPONENTS

TEL.: +34 943 805 660
FAX: +34 943 888 721
E-MAIL: GHSA@GHSA.COM
APDO. 27 - Bº SALBATORE
20200 BEASAIN (GIPUZKOA) - SPAIN
WWW.GHCRANES.COM

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