Hoist Catalogue



HIGH CAPACITY HOISTS



Lifting your world.

A New Conception Future Technology

GH has manufactured hoists and other lifting equipment for over 50 years.

More than 100,000 installations are the proof of our experience and know-how.

Over the years we have installed lifting systems in over 60 different countries.

Cutting-edge design technology, highly sophisticated production resources and efficient organisation have placed GH among Europe's top lifting equipment manufacturers.

The new range of GH hoists have been designed with the following principles; reliability, security, durability, price and easy maintenance. The design is rectangular, modern, compact with perfect dimensional balance.

The functional arrangement of the different elements are standardised on a modular construction, permitting the easy interchangability of groups combining different lifting speeds, heights and duty factors, according to the requirements and working conditions of each application.

The construction of the GH electric wire rope hoist, is based on the rules and regulations of lifting devices a c c o r d i n g t o t h e F E D E R A T I O N EUROPEENNE DE LA MANUTENTION (FEM) and the standards I.E.C.

Many years of experience and constant updating of our mechanisms, has enabled us to introduce our new range of hoists and standard crane components, which are represented in this technical catalogue.

Good documentation is the base which allows us to choose the best and profitable handling solutions.











Low head room hoist



End carriage hoist





Standard double-girder hoist



Dual hook hoist



GEARBOX

Robust and compact, situated on the exterior, allowing ease of access.

The helical teeth in all the gears are cut with great precision, in cemented steel, assuring silent running, great reliability and long life.

The drive from the motor to the gearbox is direct, avoiding coupling devices which have a tendancy to fail.

All of the gears are lubricated by an oil bath in the interior of a closed casing, machining of the gear locations is made by high precision machine tools.

LIFTING MOTOR

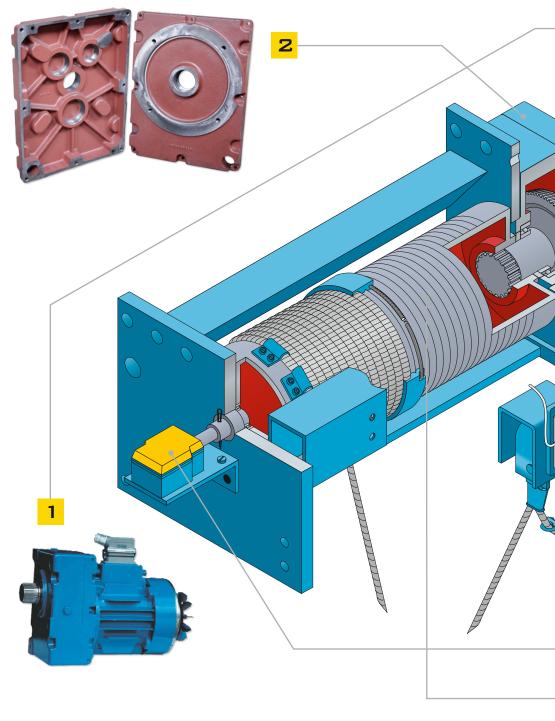
The hoist has a cylindrical short circuit motor with an incorporated electromagnetic brake

The motor and brake have been designed for continuos service with high duty factors and cycles.

The brakes are electromagnetic disc, with asbestos free flat faced linings. They offer great reliability and automatic braking in the event of power failure. The friction linings are long lasting and the brake is easy to regulate.

Protection IP-55 to DIN 40050.

The standard version motor has the option of one or two speeds. The second speed has a relation of 1/6. Other relations 1/2, 1/3, 1/4 are available by customer request. Also upon customer request, we can supply inverter control or slip-ring motors.





PUSH BUTTON PENDANT

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



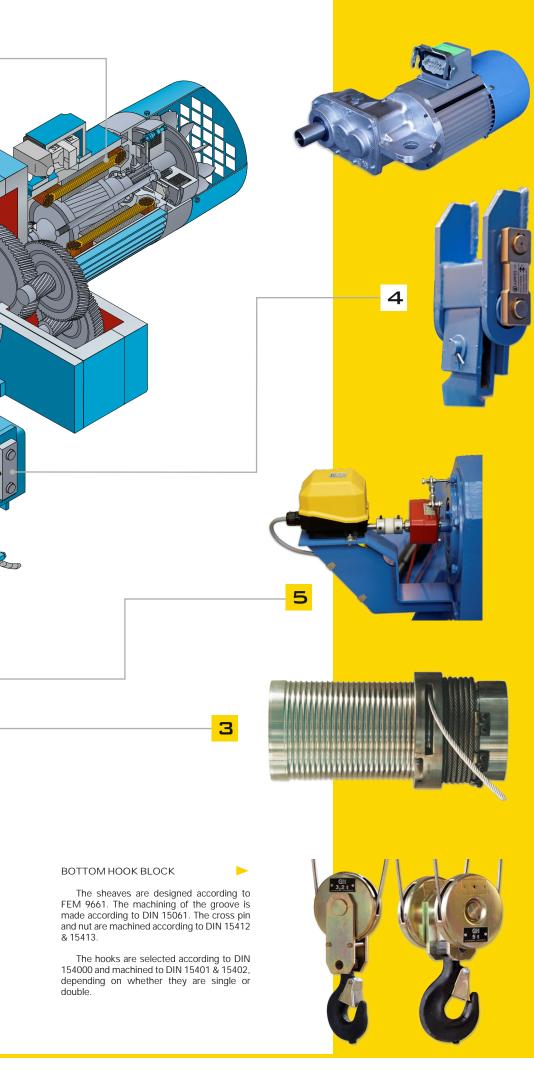
WHEELS

Dependant on the hoist model, the wheel material can be GG 60 for monorail hoists and GGG 70 (nodular cast iron with graphite structure) for birrail crabs. As shown, drive is via a direct splined axle.



ELECTRICAL CABINET

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



TRAVELLING GEAREDMOTORS

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

The drive to the wheel is via a direct splined shaft.

OVERLOAD LIMIT DEVICE

All of our hoists are fitted with an electromechanical 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).

SECURITY LIMIT SWITCH

All of our hoists are fitted with a security limit switch in lifting, preventing a possible failure of the main limit switch.

LIMIT SWITCH

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

DRUM & ROPE GUIDE

The drum is designed and manufactured according to FEM 966 standard.

Constructed from a seamless steel tube with grooves machined according to DIN 15061. 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 GGG 70 nodular cast iron with self lubricating graphite, which also gives particular resistance to wear.

The rope guide is formed by two pieces, which can easily be assembled without special tools.

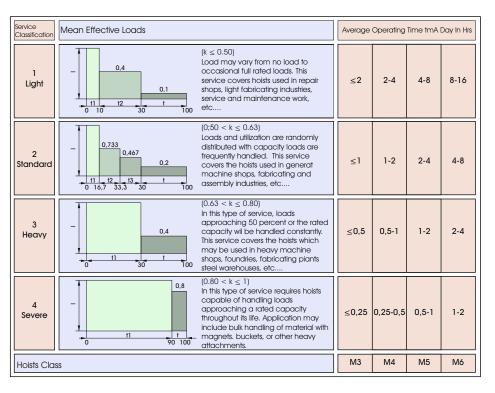
DUTY CLASS DETERMINATION FOR HOISTS, ACCORDING TO EUROPEAN

MECHANICAL HANDLING FEDERATION

According to FEM classification, two fundamental criteria must be taken into account: the type of duty, and the time of operation (according to average daily operating time for the hoisting movement of the equipment).

OPERATIONAL TIME

Criteria to obtain the average operating time in hours per day (tm).



HOIST PERFORMANCE RATING

Duty class to F.E.M. standards
Corresponding to I.S.O. standards
Average daily operating

Average daily	operatir	ıg		0,5		≤1		≤2	············	≤ 4	1			≤16		
time in hours				0,5				-22		24						
Class of duty	Class of duty						T3	V1	T4	V2	T5	V3	T6	V4	T7	
	1	L1	Light					1Bm	МЗ	1Am	M4	2m M5		3m	M6	
type of	2	L2	Medium			1Bm	МЗ	1Am	M4	2m	M5	3m	M6			
service	3	L3	Heavy	1Bm M3		1Am	M4	2m	M5	3m	M6					
	4	L4	Very heavy	1Am	M4	2m	M5	3m	M6	16						

GROUP	1Bm	МЗ	1Am	M4	2m	M5	3m	M6	
Duty factor	25%		3	30%	4	40%	50%		
No of starts per hour	1:	50	1	80	2	240	300		

PRACTICAL EXAMPLE FOR SELECTION OF A HOIST

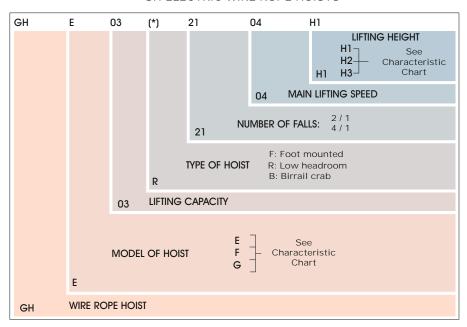
- Capacity: 10,000 kgs
- Lifting height: 6 metres
- Average hook travel: Estimated 4 metres
- Lifting speed: 5 m/min
- Number of cycles per hour estimated: 12 cycles
- Number of working hours per day: 8 hours
- Duty factor. Standard

$$tm = 2x4x12x8 = 2.56 \text{ hours}$$

 $60x5$

Consulting the classifaction chart we arrive to the conclusion that the group is 2 m (M5).

REFERENCE EXPLANATION FOR STANDARD GH ELECTRIC WIRE ROPE HOISTS



or 16/2	C C	보	H3											18,5	18,5	18,5 18,5 18,5 5 22	,3 15,3 ,5 22 ,8 14,8	,3 15,3 ,5 22 ,8 14,8	,8 14,8	,8 14,8			
2 or	IFTING	HEIGHT	H1 H2											8,5 14	8,5 14	8,5 14 8,5 14 9,3 12,3 13 17,5	9,3 12,3 13 17,5 8,8 11,8	9,3 12,3 13 17,5 8,8 11,8	13 8,8 11,8	8,8 11,8	13		
r 12/2	(1	0.0.=	۷2											0,6	9,0	0,5 0,0 8 0,3 0,3 0,6	0,5 0,4 1 0,4 8		.0	H	0,19		
8/2 or	HETING	SPEED m/min	١٨														9	2,3	1,6		1,9		
S77	dilod	FEM	>											M6 4	M5 4	M4 W5 W6	M5 2, M6 4	M4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	M4 1 3		M4		roup 9.
CABLE FA LLS																					Ī	S	FEM lifting gr duty change.
CAB	TVPF													GHF25-8204	GHF32-8204	GHF40-8204 GHF40-8204 GHF40-12/2 GHG40-8206	GHF50-12202 GHG50-8204 GHG50-12204	GHF63-12202 GHG63-8204 GHG63-12204	GHF80-162 GHG80-12203	GHG100-12202	GHG120-162	OPTIONS	- FEM lifting group duty change,
																0000	000	000					
	Q Z	HEIGHT	: H3								10,2	10,2	10,2	14,8	14,8	13,6						MECHANICAL	
1		¥ ,	H1 H2								4,5 7,3 4,5 7,3	4,5 7,3 4,5 7,3	4,5 7,3 4,5 7,3 9 11,9	9,11,9	9,11,9	8,3 11						MECH	JSG
LS 4/1) - 5	2								0,6	6,0 6,0 4	0,0 0,0 0,0 4 4 4	9,0	9,0	9,0						<	Manual release brake,
FAL	IFTING	SPEED m/min									o o	0 0	000	0 0	0 0	0							Manuc brake.
CABLE FALLS	aica	GROUP	ΙΛ								M4 4 4	4 4 A	M M M M M M M M M M M M M M M M M M M	M4 4 4	M4 4	4 4							1
O		<u>o -</u>																					
	TYPE										GHE12-4104 GHE12-4104	GHE16-4104 GHE16-4104	GHE20-4104 GHE20-4104 GHF20-4104	GHF25-4104 GHF25-4104	GHF32-4104 GHF32-4104	GHF40-4104							
											00	0 0	000	00	0 0	O							
	ď	글 등 근	H3					14,3	27,5 27,5 14,3 14,3			33,3 15,8 15,8	29,2 15,8 15,8	14	14								
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11 or			7					δ ε ο '		21,6	,3 21,6 ,3 21,6 ,3 8,7	21,6 8,7,8 8,7,8 8,7,8	\$ 5 5 0 \$ 8,8,8	8	8								- Frequency invertor control. - Tropicalisation.
7 S T	LIFTING	SPEED m/min						E, L E, L	E, L E, L	E, C.	55-5		8,1 8,1 8,2	1,2	8'0								Frequency invecontrol. Tropicalisation.
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CABI	_ 5	<u>ξ</u>																					
	TYPF							GHE06-2108 GHE06-4208	GHE08-2108 GHE08-2108 GHE08-4208 GHE08-4208	GHE10-2108 GHE10-2108 GHF10-2108 GHF10-4208 GHE10-4208	GHF12-2108 GHF12-2108 GHE12-4206 GHF12-4208	GHF16-2108 GHF16-4208 GHF16-4208 GHG16-4212	GHF20-2108 GHF20-4208 GHF20-4208 GHG20-4212	GHG25-4212	GHG32-4208							NS	
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	Ů.	동	Н3	22	55 29,7	29,7	66,5 29,7	66,5 29,7 33,8	33,8	33,8												ELECTRICAL OPTIONS	- Non standard voltages. - Remote control
C)			н1 н2		29,4	13,3	13,3	55 13,3 ,5 26,7	55 26,7	19,5 26,7												-CTR/	- Non volta - Ren
or 2/			7 2	_	9 9 9	2,6	6 6 6	6 43 6 19,5	6 19,5													ELL	
1/1	HETING	SPEED m/min		2,6	2,6		2,6	2,6	2,6	2,6													
FALLS		FEM	L\	M6 16	M M M M M M M M M M M M M M M M M M M	M5 16 16	M6 M6 16	M5 12 M6 16	M5 16	M5 16													ion
CABLE FALLS 1/1 or 2/2	8	5 E																					probe
S	TVPF			GHE02-1116	GHE03-1116 GHE03-2216	GHE04-1116 GHE04-2216	GHF05-1116 GHE05-2216	GHF06-1116 GHE06-2212 GHF06-2216	GHF08-1116 GHF08-2216	GHF10-2216													- Thermic probes. - Anti-condensation heaters.
	Capacity	<u>\$</u>		2500 GH		4000					000	1 6000	000	25000	000	000	000	000	000	100000	120000		- 7 - A - A
	ğ	3		25	3200	40	2000	9300	8000	10000	12500	16(20000	250	32000	40000	20000	63000	80000	100	120		



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globalservice@ghcranes.com



Alsasua
T: +34 948 467 625



Bakaiku T: +34 948 562 611



T: +34 902 205 100

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



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



Bogotá

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



Couëron

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



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



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



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



Russia 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



Texas

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



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