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Enclosure and insulation of electrical components
Lifting & Traveling motors: IP55 Protection - Class “F insulation”
Limit switches: IP65 minimum protection - Maximum voltage 600

Electric power supply
3 phase 50 Hz 415V ± 5%
Working temperature: minimum - 10° C; maximum + 40°C
Maximum relative humidity 90%
Maximum altitude: 2000m above sea level
The hoist must be installed indoors, in a well-ventilated environment free of corrosive vapors (acid vapors, saline mist)

Noise-Vibrations
Vibrations produced by the hoist are not hazardous for the health of workers

Classification of Service Group
INDEF GC series electric chain hoists are designed and are classified in line with the standard EN 13001-1, so as to operate according to the parameters relating to service group corresponding to FEM 2m or 3m (FEM 9.511/86) or ISO MS (ISO 4301-1:1986).

HHL/Product Name/2021 14 10/V2

bajaj group

Mechanical Hoists | Chain Hoists | Wire Rope Hoist | Cranes | Storage & Retrieval Solutions | Ergonomic Handling Solutions

HERCULES HOISTS LIMITED
43/2B, Savroli-Kharpada Road, Dhamani, Khalapur - 410 202, Maharashtra, India
Regional offices: Chennai | Kolkata | New Delhi | Pune
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HERCULES HOISTS LIMITED

indef

GC™ SERIES

Electric Chain Hoists

- Lifting
- Moving
- Storing

Wide range: 250 kg to 2000 kg
Readily suitable for varied applications

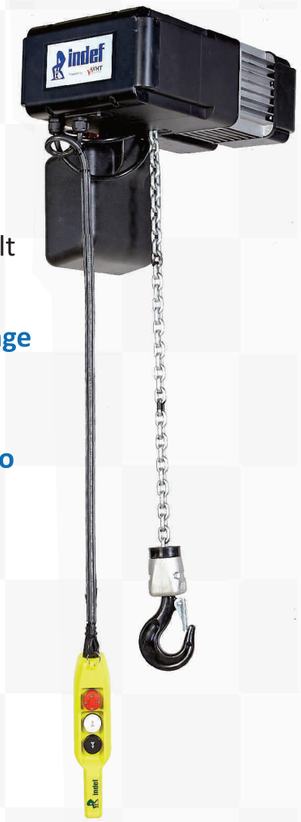
Compact & Optimized design
Augmented for structural benefits and maximum hook approach

Robust designed and built hoist drive system
Smooth, noiseless gears: built tough, built to last

Monorail trolley adjustable for wide range of beams
Complete flexibility of installation

Input power range options from 380 V to 415 V
Modules suitable for international use available

Two speed motor standard
Precise handling of loads + smooth start and stop



Redefining Material Handling. Since 1962.

Material Handling. Delivered

The next generation GC chain hoist with a Global Concept from INDEF

Reduction gear
Designed to withstand fatigue and wear for the whole lifetime as required by the selected service groups FEM/ISO (2m/M5 or 3m/M6). It is totally enclosed in a cast light alloy housing. The cylindrical gears with helicoidal teeth are thermally treated and made of highly resistant steel. The gears are mounted on spherical bearings and are lubricated for life in an oil bath.

Suspension eye
Made from hot-pressed carbon steel and is affixed to the hoist body by two steel pins which are easy to inspect to prevent accidental removal. The suspension eye with its fixing holes and eyebolt, allows both the rigid suspension of the hoist by means of the two holes, or by means of the oscillating eyebolt. Hook suspension version is available on request.

Self-braking motor
Incorporates asynchronous three-phase cylindrical rotor. The electromagnetic DC brake with asbestos free lining is designed for a high number of starts and does not require any adjustment. The light alloy brake casing, has radiating fins that guarantee high thermal dissipation. The motor is fan cooled externally and is produced with double polarity for two speed hoists.

Lifting chain
Calibrated alloy steel chain of high strength and of special quality, sourced from the world's best chain manufacturers. The heat and galvanizing treatments applied to the chain ensure high resistance to the wear, aging and corrosion.

Load sprocket
Machined, heat hardened five pocket load sprocket is made of high strength steel to ensure optimum sliding and a long life of both: the chain and the sprocket.

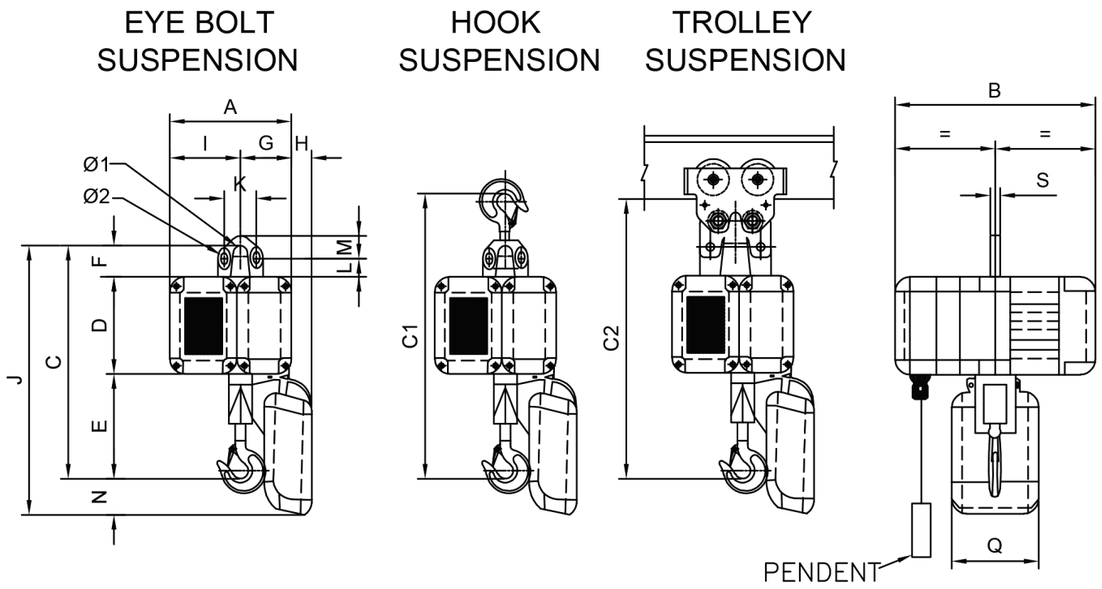
Chain guide
Facilitates smooth insertion and extraction of the chain into the sprocket.

Upper limit buffer
Consists of a cylindrical shape polyurethane shock absorber, with a central hole for chain crossing. It is placed against the upper surface of the hook block to deaden and reduce the dynamic effects caused by the collision of the hook block against the hoist body in the upper hook position. It causes the clutch device to slip avoiding the impact between metallic parts.

Descent limit stop
Is made in high resistance plastic material reinforced with fiberglass. It is placed on the descending length of chain into the chain box and limits hook run during lowering.

Chainbox
Is made of shock-resistant plastic. It is fixed to the hoist body by a bolt that permits high level of freedom of movement. It can be provided in several sizes to suitably contain the length of chain for the required hook path.

Overload Clutch
The overload clutch is composed of a friction coupling with double pressure disc and an asbestos free friction plate. The sliding surfaces are immersed in an oil bath in order to guarantee the heat dissipation generated during the slipping. The clutch device is pre-loaded by means of spring washers and adjusting nut.
The slipping clutch, when it has overload device function, is automatically activated at any point of the hook travel, whenever the resistance force caused by the load is more than the resistance force of the device (ex.: in overload situation) in situation of physical overload or activation of upper and lower hook travel limits.



GC HOIST Model No.	Chain size Diameter(mm)	FEM Duty	ISO Duty	Capacity in kg.	Lifting speed mpm main/creep	No. of falls	Motor KW main/creep	Motor RPM
GC K2DN1D	5X15	2	5	500	4.0/1.0	One	0.37/0.09	3000/750
GC K3DV1D	7X21	2	5	500	8.0/2.0	One	0.75/0.18	3000/750
GC K3EN1D	7X21	2	5	1000	4.0/1.0	One	0.75/0.18	3000/750
GC K4FN1D	10X28	2	5	2000	4.0/1.0	One	1.5/0.36	3000/750

GC HOIST Model No.	Chain Collector relative overall dimension															
	SIZE 1				SIZE 2				SIZE 3				SIZE 4			
	Lifting height (m)	Dimensions (mm)			Lifting height (m)	Dimensions (mm)			Lifting height (m)	Dimensions (mm)			Lifting height (m)	Dimensions (mm)		
		H	N	Q		H	N	Q		H	N	Q		H	N	Q
GC K2DN1D	6	42	45	180	12	70	99	225	24	77	174	270	48	85	219	310
GC K3DV1D	3	32	10	180	6	60	64	225	12	87	139	270	24	95	184	310
GC K3EN1D	3	32	10	180	6	60	64	225	12	87	139	270	24	95	184	310
GC K4FN1D	=	=	=	=	=	=	=	=	6	90	50	270	12	97	95	310

GC HOIST Model No.	A	B	C	C1	C2	D	E	F	G	I	J	K	L	M	S	T	ø1	ø2	Hoist Weight kg 3m lift	Trolley Weight kg.
GC K2DN1D	255	425	340	490	500	140	155	45	106	149	385	70	27	32	15	28	30	14	31	22
GC K3DV1D	300	475	400	600	570	165	190	45	128	172	410	70	30	30	18	34	30	14	48	22
GC K3EN1D	300	475	400	600	570	165	190	45	128	172	410	70	30	30	18	34	30	14	48	22
GC K4FN1D	340	560	490	715	675	200	240	56	145	195	585	90	36	34	25	40	35	20	75	31

Note :- 1. All dimensions are in mm Tolerance ±10%

Note :- Due to continuous development and improvement specification listed above may be changed without notice.