



hoists technology

# GIS

Faith in Technology. Faith in GIS.



## Electric Chain Hoists GCH Series



# Anatomy of an electric chain hoist



### Brake

- Brake after slipping clutch construction
- Maintenance free



### Chain Wheel

- Made from hardened steel
- Additional chain pockets (4mm)
- Double bearing construction



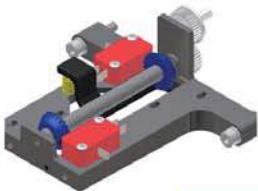
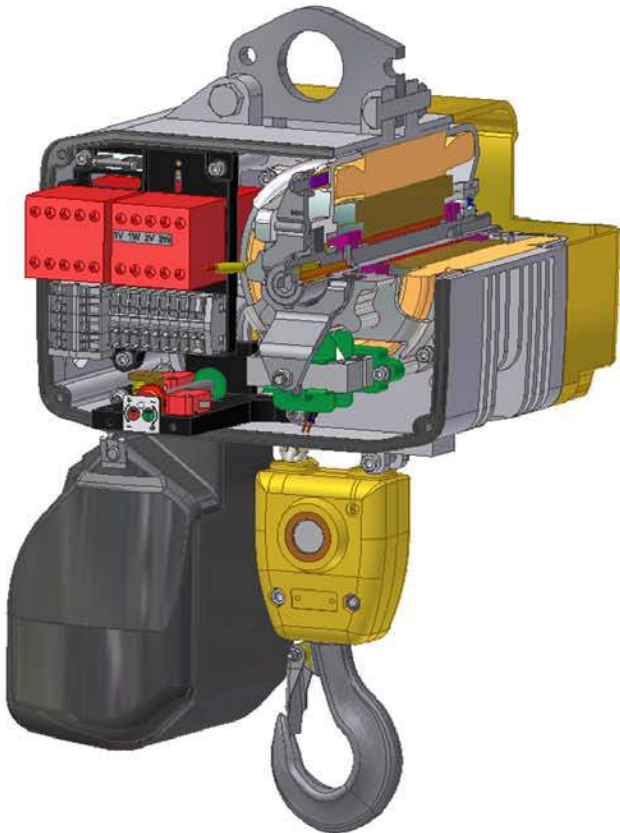
### Chain Guide

- Two part construction to optimize maintenance
- Highly wear resistant reinforced plastic material



### Slipping Clutch

- Simple and precise adjustment
- Maintenance free
- Highly wear resistant
- Easily accessible



### Geared Limit Switch

- Simple adjustment
- Exact positioning



### Transmission

- Quiet running helical-toothed design
- Permanent lubrication for wear resistant operation



### Control Switch

- Built in support wire
- Standard emergency stop button

# Anatomy of an electric chain hoist

## Motor

Maximum load capacities combined with relentless work hours are effortless to this hard working cylindrical squirrel-cage GIS motor designed for extremely high duty cycles.

## Transmission

With helical toothed first and second gear step, head cut drive wheel and a first gear step made with GGG60 material, it is no surprise that the GCH transmission is 15% quieter than its predecessor. Permanent lubrication ensures a maintenance-free long life.

## Hoisting Chain

A zinc plated and surface hardened hoisting chain especially calibrated for GIS guarantees high uniform strength displacement and continuing fatigue resistance.

## Slipping Clutch

The wear resistant, maintenance-free slipping clutch with outer adjustable screw, is strategically positioned in front of the brake assembly for optimum overload protection and maximum safety.

## Housing

The symmetrical cast aluminum housing with incorporated cooling gills allows the machine to maintain optimum working temperature in the most extreme conditions under the most rigorous operation.

## Brake

A commanding magnetic attraction in unison with a spring loaded brake lever force the load into an immediate mechanical stop in the event of a power failure. Having inner and outer disc brakes with a matching hardened steel brake housing allow for a long lasting, cost effective brake system that is just about maintenance free.



## Contacter Control System

Impenetrable to electronic interference, this contactor control system is standardized at 42VAC allowing maximum safety during operation.

## Geared Limit Switch

Upper and lower adjustable rotary limit switches prevent over lifting and keep your products and our hoist at a safe distance.

## Pendant Push Buttons

Both two- and four-button pendant stations are ergonomically designed for effortless use and come standard with support wire and emergency stops for enhanced safety.

## Chain Guide

Highly wear resistant glass fiber and reinforced plastic promotes long part life, and a two-part construction permits individual disassembly (without dismantling the chain wheel).

## Chain Wheel

The double bearing design allows for quiet operation, while the hardened steel construction prolongs its working life.

## Chain Container

Keep your chain clean and out of the way with chain buckets that come standard on all GCH units, available in a wide variety of sizes to accommodate your personal lifting height requirements.



# A wide range of lifting solutions...

## GISKB Enclosed Track Systems

- Loads up to 3,500 lbs
- Low friction ensures reduced wear and minimal noise
- Cost effective for small distances



## Modular Jib Cranes

- Slewing pillar & wall jibs
- I-beam & profile/ rail types
- Motorized & push/ pull trolleys



## Modular Overhead Bridge Cranes

- Single & multi-girder bridge cranes
- Motorized & push/ pull trolleys
- Single & dual speed end trucks



Also...  
Custom Crane Kits

# Superior Suspensions

## Lug or Hook

- Ideal for stationary use
- Available in all capacities



## Push & Pull Trolley

- Ideal for light loads
- Complete with four sealed ball bearing travel wheels
- Anti-drop stops are standard for maximum safety



## Motorized Trolley

- Single & dual speed units
- 230, 460 & 575V @ 60Hz
- Single or 3 phase supply
- Trolleys fit wide range of flanges
- Optional brake



# TECHNICAL DATA

## GCH SERIES




### GCH Hoist - Technical Information

Model	Capacity		Lifting Speed		Motor Power (HP)
	(kg)	(lbs)	(FPM)	(m/min)	
<b>GCH 250/1N</b>	250	550	31.5	9.6	0.58
<b>GCH 250/1NF</b>	250	550	31.5/7.9	9.6/2.4	0.58/0.14
<b>GCH 250/2N</b>	500	1100	15.7	4.8	0.58
<b>GCH 250/2NF</b>	500	1100	15.7/3.9	4.8/1.2	0.58/0.14
<b>GCH 500/1N</b>	500	1100	31.5	9.6	1.17
<b>GCH 500/1NF</b>	500	1100	31.5/7.9	9.6/2.4	1.17/0.3
<b>GCH 500/2N</b>	1000	2200	15.7	4.8	1.17
<b>GCH 500/2NF</b>	1000	2200	15.7/3.9	4.8/1.2	1.17/0.3
<b>GCH 1000/1N</b>	1000	2200	31.5	9.6	1.85
<b>GCH 1000/1NF</b>	1000	2200	31.5/7.9	9.6/2.4	1.85/0.58
<b>GCH1000/2N</b>	2000	4400	15.7	4.8	1.85
<b>GCH1000/2NF</b>	2000	4400	15.7/3.9	4.8/1.2	1.85/0.58
<b>GCH 1600/1N</b>	1600	3520	31.5	9.6	3.97
<b>GCH 1600/1NF</b>	1600	3520	31.5/7.9	9.6/2.4	3.97/0.97
<b>GCH 1600/2N</b>	3200	7040	15.7	4.8	3.97
<b>GCH 1600/2NF</b>	3200	7040	15.7/3.9	4.8/1.2	3.97/0.97
<b>GCH 2500/1N</b>	2500	5500	25.2	7.68	4.96
<b>GCH 2500/1NF</b>	2500	5500	25.2/6.3	7.68/1.92	4.96/1.25
<b>GCH 2500/2N</b>	5000	11000	12.5	3.84	2x 4.96
<b>GCH 2500/2NF</b>	5000	11000	12.5/3.1	3.84/0.96	2x4.96/1.25

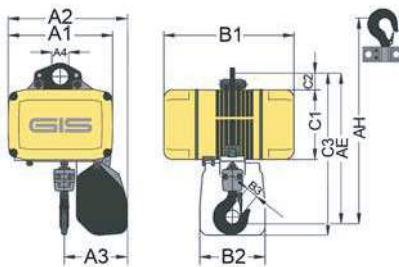
### GCH Motorized Trolley - Technical Information

Trolley Motor	Capacity		Travel Speed		Motor Power (HP)	Flange Width (in)	Weight (lbs)
	(kg)	(lbs)	(FPM)	(m/min)			
<b>EMFE 50/N</b>	1000	2200	47	14	0.40	2.00~9.40	60
<b>EMFE50/NF</b>	1000	2200	47/16	14/5	0.24/0.07	2.00~9.40	60
<b>EMFE150/N</b>	2000	4400	47	14	0.40	3.00~12.60	68
<b>EMFE150/NF</b>	2000	4400	47/16	14/5	0.24/0.07	3.00~12.60	68
<b>EMFE300/N</b>	4000	8800	47	14	0.40	3.25~12.00	110
<b>EMFE300/NF</b>	4000	8800	47/16	14/5	0.24/0.07	3.25~12.00	110
<b>EMFE500/N</b>	5000	11000	47	14	2x 0.40	3.25~12.00	127
<b>EMFE500/NF</b>	5000	11000	47/16	14/5	2x 0.24/0.07	3.25~12.00	127

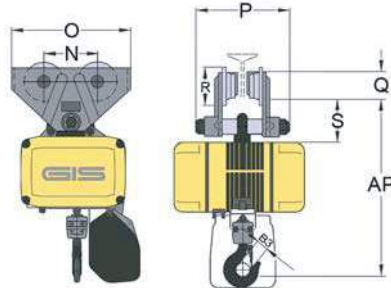
### GIS GCH Dimensional Data

Model	A1 mm	A2 mm	A3 mm	A4 mm	B1 mm	B2 mm	B3 mm	C1 mm	C2 mm	C3 mm
GCH 250/1	246	281	147	40	309	155	22	164	53	398
GCH 250/2	246	281	164	40	309	155	22	164	53	398
GCH 500/1	246	281	146	40	309	155	22	164	53	398
GCH 500/2	246	281	169	40	309	155	22	164	53	398
GCH 1000/1	321	367	190	52	367	180	32	214	69	565
GCH 1000/2	321	367	224	52	367	180	32	214	69	565
GCH 1600/1	345	424	220	75	389	180	37	230	135	646
GCH 1600/2	345	424	263	75	389	180	37	230	135	646
GCH 2500/1	345	424	220	75	389	180	37	230	135	646
GCH 2500/2	345	424	263	75	389	180	37	230	135 </td <td>646</td>	646

Lug or Hook

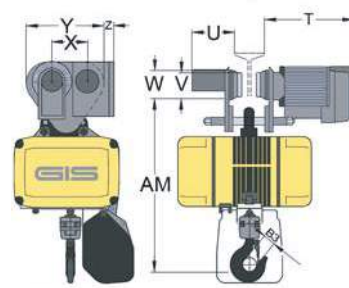


Push/Pull Trolley



\*Safety drop stops removed in drawing

Motorized Trolley



\*Safety drop stops removed in drawing

### GIS GCH Dimensional Data

Model	Capacity		Lug	Hook	Push	Motor	O	N	P	Q	R	S	T	U	V	W	X	Y	Z
	kg	lbs	AE mm	AH mm	AP mm	AM mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
GCH 250/1	250	550	369	431	417	417	215	105	318	68	87	101	268	209	68	87	105	215	62
GCH 250/2	500	1100	408	470	456	456	215	105	318	68	87	101	268	209	68	87	105	215	62
GCH 500/1	500	1100	377	440	425	425	215	105	318	68	87	101	268	209	68	87	105	215	62
GCH 500/2	1000	2200	417	480	465	465	215	105	318	68	87	101	268	209	68	87	105	215	62
GCH 1000/1	1000	2200	482	553	537	537	250	121	410	81	103	123	271	211	81	103	121	250	43
GCH 1000/2	2000	4400	556	627	611	611	250	121	410	81	103	123	271	211	81	103	121	250	43
GCH 1600/1	1600	3520	608	646	635	635	311	151	410	101	133	188	276	217	101	133	151	311	12
GCH 1600/2	3200	7040	690	728	716	716	311	151	410	101	133	188	276	217	101	133	151	311	12
GCH 2500/1	2500	5500	608	646	635	635	311	151	410	101	133	188	276	217	101	133	151	311	12
GCH 2500/2	5000	11000	690	728	716	716	311	151	410	101	133	188	276	249	101	133	151	311	12



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