GIS®

Faith in Technology. Faith in GIS.

Electric Chain Hoists

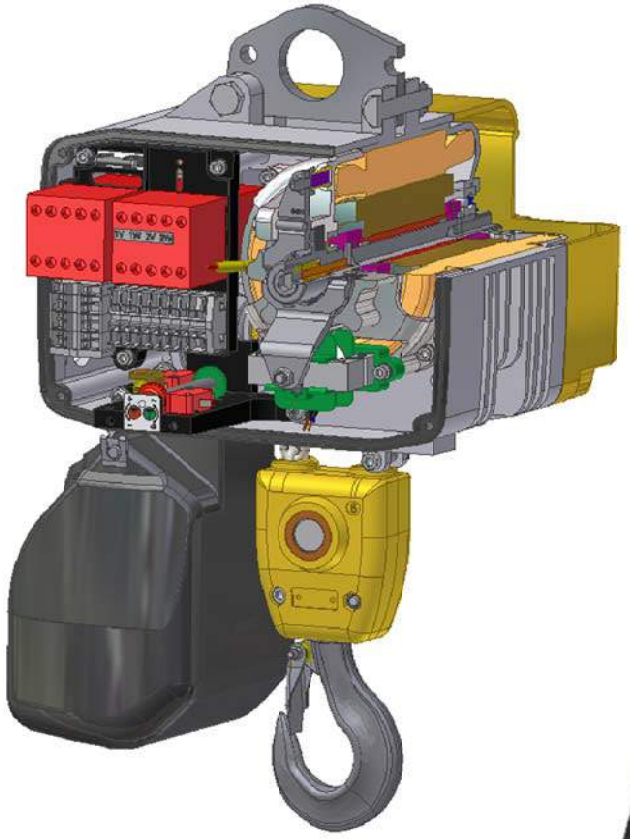
GCH Series

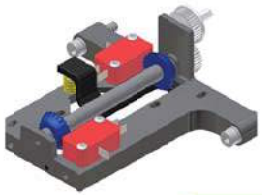
SWISS MADE

Anatomy of an electric chain hoist

Brake

- Brake after slipping clutch construction
- Maintenance free





Geared Limit Switch

- Simple adjustment
- Exact positioning

Chain Wheel

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

Transmission

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

Chain Guide

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

Control Switch

- Built in support wire
- Standard emergency stop button

Slipping Clutch

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

Anatomy of an electric chain hoist

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.

Contactor 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...

GIS*KB* Enclosed Track Systems

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

simple solutions

Modular Jib Cranes

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

flexible possibilities

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

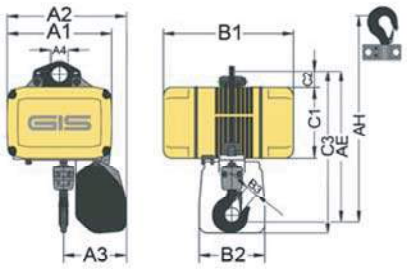
GCH Motorized Trolley - Technical Information

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

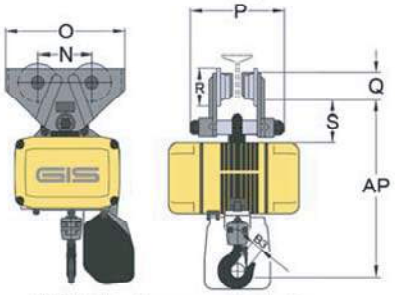
GIS GCH Dimensional Data

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	646

Lug or Hook

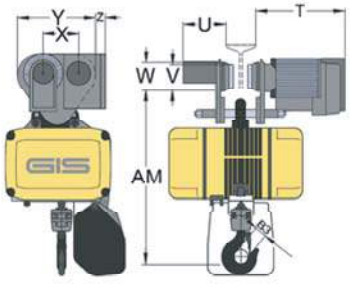


Push/Pull Trolley



*Safety drop stops removed in drawing

Motorized Trolley



*Safety drop stops removed in drawing

GIS GCH Dimensional Data

Model	Capacity kg	Capacity lbs	Lug AE mm	Hook AH mm	Push AP mm	Motor AM mm	O mm	N mm	P mm	Q mm	R mm	S mm	T mm	U mm	V mm	W mm	X mm	Y mm	Z 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