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GIS – YOUR GENERAL CONTRACTING PARTNER FOR EFFICIENT MATERIAL FLOW.

- n Complete range of market services for off-floor goods handling
- n A wealth of know-how – from planning through to installation
- n We manufacture quality products – «Made in Switzerland»
- n Our approach is based on reliability and service

More features of the GIS company:

- n Guaranteed innovation because we have our own development department
- n Certified quality (ISO 9001)
- n Our worldwide network of dealers keeps us extremely close to the market

... and a thousand and one applications!



SWISS
MADE

Your benefits:

- n solutions that match your particular situation
- n maximum flexibility – another benefit of the wide GIS range
- n cost-effective, reliable goods handling
- n business relationships based on partnership

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AN OVERVIEW OF GIS – PRODUCTS

Lifting technology

GIS electric chain hoists (up to 5000 kg)

- n low wear, reliable, easy to maintain
- n application: stationary, movable on I-beams or combined with GIS crane system

Crane technology

GISKB crane system (up to 2000 kg)

- n modular concept
- n single and double bridge suspended crane for all-round goods transportation
- n monorail with bends and switches for linebound transportation
- n lightweight design

GIS travelling cranes (up to 5000 kg)

- n designed to customer specifications
- n conventional design
- n especially suitable for larger spans

GIS slewing pillar and wall cranes (up to 1000 kg)

- n for use when ceilings have insufficient load-bearing capacity
- n an ideal addition to your suspended crane
- n quick to plan, simple, easy to handle

Vacuum lifting technology

Gentle lifting with GIS vacuum equipment (up to 500 kg)

- n for all types of surfaces and a huge variety of products
- n can be combined with electric chain hoists/wire rope hoists

Your benefits:

- n perfected quality products
- n tested and proven thousands of times over
- n simple design and installation
- n at any time extendable



GIS – CH ELECTRIC CHAIN HOIST UP TO 5000 KG

- n **COMPACT DESIGN**
- n **RObust CONSTRuCTION**
- n **EASE OF MAINTENANCE**
- n **AVAILAbILITY ASSuRED**
- n **ADVANCED TECHNOLOGY**
- n **SWISS QuALITY**
- n **LIFTING CAPACITY uP TO 5000 kG**
- n **PROTECTION CLASS IP 55 (OPTION IP 65)**

WORLD'S FIRST IN SAFETY

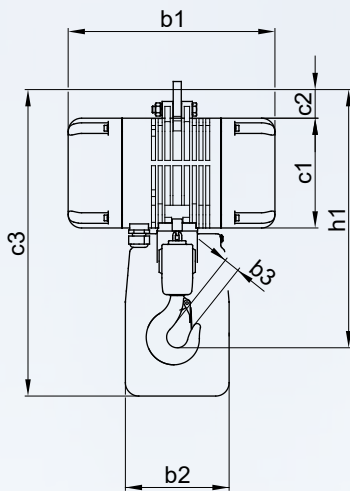
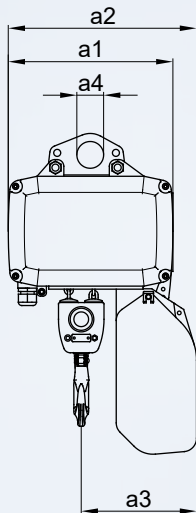
- n Double slip clutch (best overload protection ever). Authority's safety test passed superbly! Five times more secure than the regulations require!
- n Highest safety with brake positioned after the slip clutch
- n End of chain is fixed to the hoist body
- n Standard geared limit switch: chain length up to 220 m
- n Made for industrial use: body and covers completely built in aluminum
- n Jamming of the chain excluded due to two part plastic chain guide and external chain guide plate

WORLD'S FIRST IN SERVICE AND HANDLING

- n Easy adjustment of the slipping clutch
- n No special tools or electronic devices required
- n Maintenance free brake system
- n Chain guide removable without disassembly of the hoist
- n Easy conversion from 1 to 2 fall (double load capacity)
- n Ergonomic 2 and 4 button control pendant with support wire
- n Silent working due to helical gears
- n Standard low voltage control (42 V)



GIS – CH ELECTRIC CHAIN HOIST UP TO 5000 KG



Low voltage 42 volts control with emergency stop
Upper and lower electrical gearbox limit switch
Wear resistant overload slip clutch; with asbestos free lining
Heat treated gears in oil bath
Wear resistant brake
Special load chain to DIN 5684, cadmium plated, grade 8
Load hook to DIN 15401
Motor protection: IP 55 to DIN 40050
Motor insulation: F

Specification										
ISO (FEM) classification	M3 (1Bm) 150 s/h 25% duty	M4 (1Am) 180 s/h 30% duty	M5 (2m) 240 s/h 40% duty	M6 (3m) 300 s/h 50% duty	M7 (4m) 360 s/h 60% duty	Lifting speed	Motor power (M3)	3 x 400V 50Hz (M3)	No. of chain falls	Dead weight 3 m lift
Types	Capacity [kg]					[m/min]	[kW]	[A]		[kg]
GCH 250/1 N	250	200	160	125	100	8	0.36	1.3	1	19
GCH 250/1 NF	250	200	160	125	100	8/2	0.36/0.09	2.7/3.0	1	22
GCH 250/1 SF	160	125	100	100	100	12.5/3	0.36/0.09	2.7/3.0	1	22
GCH 250/1 HF	100	100	100	100	100	20/5	0.36/0.09	2.7/3.0	1	22
GCH 250/2 N	500	400	320	250	200	4	0.36	1.3	2	22.5
GCH 250/2 NF	500	400	320	250	200	4/1	0.36/0.09	2.7/3.0	2	23
GCH 250/2 SF	320	250	200	200	200	6.25/1.5	0.36/0.09	2.7/3.0	2	23
GCH 500/1 N	500	400	320	250	200	8	0.72	2.1	1	20
GCH 500/1 NF	500	400	320	250	200	8/2	0.72/0.18	2.9/3.0	1	22.5
GCH 500/1 SF	320	250	200	160	125	12.5/3	0.72/0.18	2.9/3.0	1	22.5
GCH 500/1 HF	200	160	125	100	100	20/5	0.72/0.18	2.9/3.0	1	22.5
GCH 500/2 N	1'000	800	630	500	400	4	0.72	2.1	2	24.5
GCH 500/2 NF	1'000	800	630	500	400	4/1	0.72/0.18	2.9/3.0	2	25
GCH 500/2 SF	630	500	400	320	250	6.25/1.5	0.72/0.18	2.9/3.0	2	25
GCH 1000/1 N	1'000	800	630	500	400	8	1.45	3.7	1	45
GCH 1000/1 NF	1'000	800	630	500	400	8/2	1.45/0.36	4.0/2.8	1	46
GCH 1000/1 SF	500	400	320	250	200	16/4	1.45/0.36	5.8/2.6	1	48
GCH 1000/2 N	2'000	1'600	1'250	1'000	800	4	1.45	3.7	2	50
GCH 1000/2 NF	2'000	1'600	1'250	1'000	800	4/1	1.45/0.36	4.0/2.8	2	51
GCH 1000/2 SF	1'000	800	630	500	400	8/2	1.45/0.36	5.8/2.6	2	53
GCH 1600/1 N	1'600	1'250	1'000	800	630	8	2.44	6.0	1	63
GCH 1600/1 NF	1'600	1'250	1'000	800	630	8/2	2.44/0.61	6.6/4.2	1	65
GCH 1600/1 SF	1'000	800	630	500	400	12.5/3	2.39/0.58	6.6/4.2	1	65
GCH 1600/2 N	3'200	2'500	2'000	1'600	1'250	4	2.44	6.0	2	73
GCH 1600/2 NF	3'200	2'500	2'000	1'600	1'250	4/1	2.44/0.61	6.6/4.2	2	75
GCH 1600/2 SF	2'000	1'600	1'250	1'000	800	6.25/1.5	2.39/0.58	6.6/4.2	2	75
GCH 2000/1 N	2'000	1'600	1'250	1'000	800	8	3.05	7.3	1	65
GCH 2000/1 NF	2'000	1'600	1'250	1'000	800	8/2	3.05/0.77	8.0/4.5	1	67
GCH 2000/1 SF	1'250	1'000	800	630	500	12.5/3	2.98/0.72	8.0/4.5	1	67
GCH 2000/2 N	4'000	3'200	2'500	2'000	1'600	4	3.05	7.3	2	76
GCH 2000/2 NF	4'000	3'200	2'500	2'000	1'600	4/1	3.05/0.77	8.0/4.5	2	78
GCH 2000/2 SF	2'500	2'000	1'600	1'250	1'000	6.25/1.5	2.98/0.72	8.0/4.5	2	78
GCH 2500/1 N	2'500	2'000	1'600	1'250	1'000	6.4	3.05	7.7	1	65
GCH 2500/1 NF	2'500	2'000	1'600	1'250	1'000	6.4/1.6	3.05/0.77	8.2/4.4	1	67
GCH 2500/1 SF	1'600	1'250	1'000	800	630	10/2.5	3.05/0.77	8.2/4.4	1	67
GCH 2500/2 N	5'000	4'000	3'200	2'500	2'000	3.2	3.05	7.7	2	76
GCH 2500/2 NF	5'000	4'000	3'200	2'500	2'000	3.2/0.8	3.05/0.77	8.2/4.4	2	78
GCH 2500/2 SF	3'200	2'500	2'000	1'600	1'250	5/1.25	3.05/0.77	8.2/4.4	2	78

Dimensions											
Types	a1 [mm]	a2 [mm]	a3 [mm]	a4 [mm]	b1 [mm]	b2 [mm]	b3 [mm]	c1 [mm]	c2 [mm]	c3 [mm]	h1 [mm]
GCH 250/1	246	281	146	40	309	155	22	164	53	398	369
GCH 250/2	246	281	164	40	309	155	22	164	53	398	408
GCH 500/1	246	281	146	40	309	155	22	164	53	398	377
GCH 500/2	246	281	169	40	309	155	22	164	53	398	417
GCH 1000/1	321	367	190	52	367	180	32	214	69	565	482
GCH 1000/2	321	367	224	52	367	180	32	214	69	565	556
GCH 1600/1	345	424	220	75	389	180	37	230	135	646	608
GCH 1600/2	345	424	263	75	389	180	37	230	135	646	690
GCH 2000/1	345	424	220	75	389	180	37	230	135	646	608
GCH 2000/2	345	424	263	75	389	180	37	230	135	646	690
GCH 2500/1	345	424	220	75	389	180	37	230	135	646	608
GCH 2500/2	345	424	263	75	389	180	37	230	135	646	690

Standard.....: lifting height 3 m / 1.8 m control cable
GCH 250/500 and GCH 1000: suspension with eyebolt
GCH 1600/2000/2500: without suspension parts

Options.....: chain / control cable extended (lifts up to 120 m)
GCH 250/500 and GCH 1000: suspension with hook
GCH 1600/2000/2500: suspension with eyebolt or hook; suspension part for travel trolleys



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brake

- n Maximum safety (construction: brake after slipping clutch)
- n New advanced brake design
- n Unique availability
- n Maintenance free



Chain wheel

- n Made of hardened steel
- n With additional chain pockets (4mm): hence quiet running and improved running properties
- n With double bearing construction



Geared limit switch (standard)

- n Simple adjustment
- n Exact positioning
- n Lifting heights up to 220 m
- n Accuracy for repetition assured



Transmission

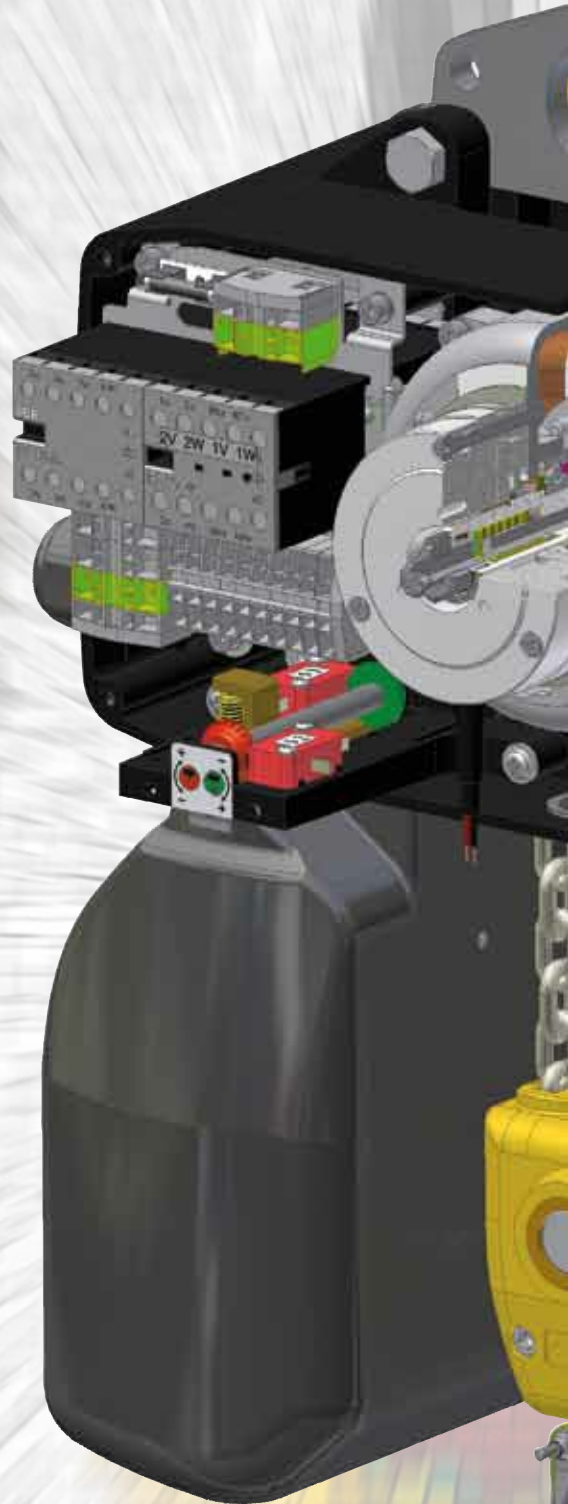
- n Helical-toothed first and second gear step for quiet running
- n Permanent lubrication for wear resistant operation

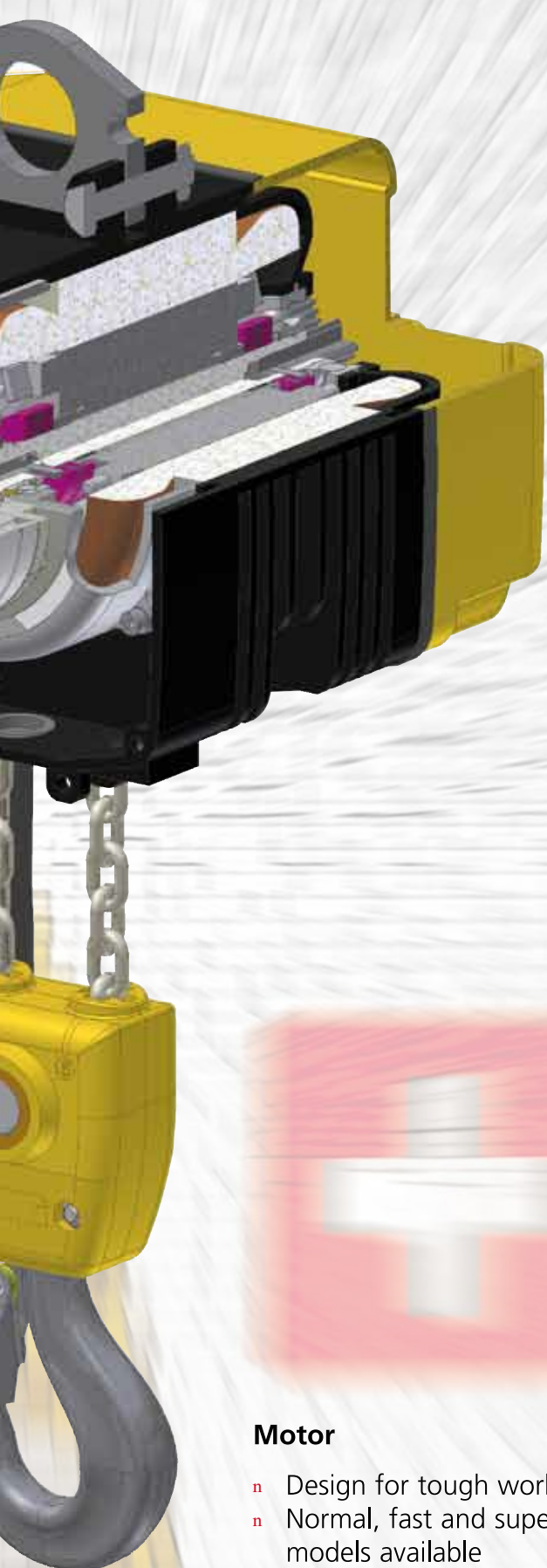
Contactor control system

- n Simple technology (no electronics susceptible to interference)
- n Reliable technique
- n Emergency stop as a standard
- n 42V control system allowing highest safety of operation

Hoisting chain

- n Calibrated especially for GIS
- n Zinc plated
- n Surface-hardened
- n Quality class DAT (8SS) to FEM 9.671





Chain guidance

- n 2-part construction to optimize maintenance
- n Reinforced plastic material highly wear resistant
- n Safe operation jamming excluded



Slipping clutch

- n Simple and precise adjustment
- n Maintenance free and highly resistant to wear
- n Ease of servicing thanks to comfortable access



Control switch

- n With built-in support wire as a standard
- n 2-buttons: design especially ergonomic
- n Emergency stop as a standard
- n Protection: IP 65 to DIN 40050
- n Optional: with integrated working hours counter



Motor

- n Design for tough working conditions
- n Normal, fast and super fast speed models available
- n With single or dual speed
- n Option: with temperature control system
- n Option: with insulation for the tropics
- n Special voltages available
- n 1-phase models as a standard

Housing

- n Cast aluminium housing with maximum solidity (no plastic material)
- n For extreme working conditions: casted cooling gills
- n Easy transformation from 1- fall to 2-falls operation: no need of dismantling



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CREATION OF ADDED VALUE WITH PROFESSIONAL MATERIAL HANDLING



Synchronic lifting technology with GIS - CH electric chain hoist

- n Solution for optimized handling of exceptional length and bulky loads
- n Precise parallel run of two or four load hooks guaranteed
- n Load capacity with 2 hooks, up to 3200 kg
- n Hook position (height) individually adjustable by geared limit switch
- n Step less speed control with frequency inverter available (optional)
- n Hook distance following needs and further on adjustable
- n Modular development for use in low rooms
- n Practicable in fully automatic installations with external controls
- n Optional with chain oiling system

Low headroom with GIS - CH electric chain hoist

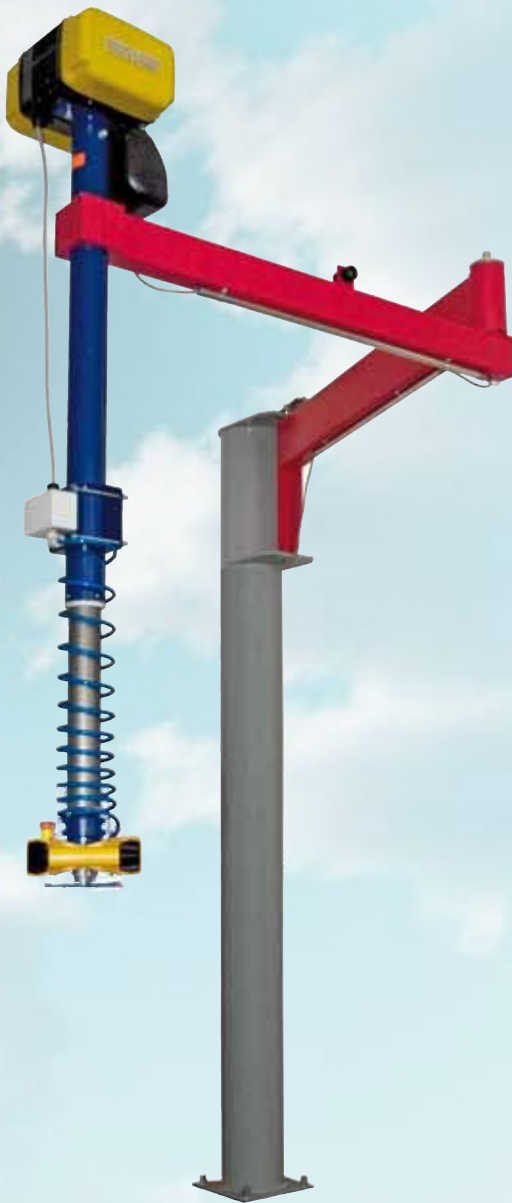
- n Solution for especially low rooms. For working areas in all kind of industries
- n Reduced headroom over clever chain guidance
- n Hook position individually adjustable by geared limit switch
- n Step less speed control with frequency inverter available (optional)
- n Hook distance variable by modular lengthening device
- n Load capacity up to 4000 kg
- n Optional with chain oiling system



REALIZE YOUR WISHES BY DIRECT HANDCONTROLS

Flexible hand guide control «Chain Handy» with GIS - CH electric chain hoist

- n Product positioning through toggle switch in comfortable and efficient way
- n Allows a fast and reliable movement of different goods
- n Standard left and right hand operation
- n Safe lifting up to 250 kg capacity
- n Step less speed control with frequency inverter available (optional)



High precise rigid hand guide control «Telescopic Handy» with GIS - CH electric chain hoist

- n Exact and accurate positioning through toggle switch and rigid telescopic guide system
- n Allows the controlled and perfected handling of different (incl. liquids) transport goods
- n Standard left and right hand operation
- n Safe lifting up to 250 kg capacity
- n Step less speed control with frequency inverter available (optional)

ELECTRIC CHAIN HOIST – FOR THE ENTERTAINMENT INDUSTRY

Climbing and lifting with GIS - CH electric chain hoist

- n Individually available with direct or standard control
- n Prepared for externally powered controls
- n Available with standard geared limit switch
- n Available with second brake and load control system
- n Fulfills requirements of BGV-D8, BGV-D8 Plus and BGV-C1



ECONOMIC EXPLOSION PROOF SOLUTION

ATEX conformity with GIS - CH electric chain hoist

- n Solution with existent industrial resources
- n The entry of gas is avoided through an overpressure in the housing
- n Maximum safety guaranteed: At a loss of pressure in the housing the power will be cut immediately (electrically connected over the emergency stop)



Dust execution

Ex II 3D IP 65 T130°C

- Equipment group II
- Equipment category 3
- Zone 22 (D)
- Temperature class = less 130°C motor with Klixon

Gas execution

Ex II 3D IP 65 T130°C and Ex II 3G EEx II nZ T3

- Equipment group II
- Equipment category 3
- Zone 2 (G) 22 (D)
- Temperature class = T3
- With overpressure surveillance

IN HARD AMBIENT CONDITIONSWE FEEL GOOD.

Specific research guarantees corrosion resistance with GIS - CH electric chain hoist

- n Specially for applications in aggressive atmospheres (tested in defined acids and lye's and other specific liquids and substances)
- n All contact affected parts manufactured in corrosion resistant material (chain, equipment material, hook and screws)
- n High reliability with standard IP 65 protection class
- n Lifting capacity up to 1000 kg



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MANUAL AND MOTORIZED TROLLEYS

MANuAL TROLLEY GHF 500 k

Details see under

n 9248.9251.5



MANuAL TROLLEYS EHF 50 / 150 EHF 300 / 500

Details see under

n EHF 50 9248.9200.5

n EHF 150 9248.9202.5

n EHF 300 / 500 9248.9204.5



MOTORIZED TROLLEYS

EMFE 50 / 150

EMFE 300 / 500

Details see under

n EMFE 50 9248.9217.5

n EMFE 150 9248.9218.5

n EMFE 300 9248.9219.5

n EMFE 500 9248.9220.5



MOTORIZED TROLLEYS WITH FREQuENCY DRIVE

Details see under

n EMFE 50 FU 9248.9256.5

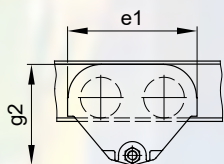
n EMFE 150 FU 9248.9257.5

n EMFE 300 FU 9248.9258.5

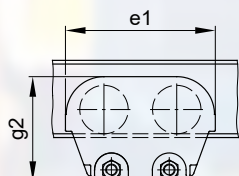
n EMFE 500 FU 9248.9259.5

DIMENSIONS MANUAL AND MOTORIZED TROLLEYS

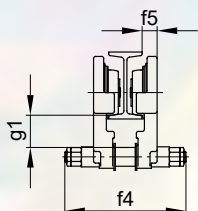
EHF 50 / 150



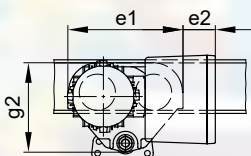
EHF 300 / 500



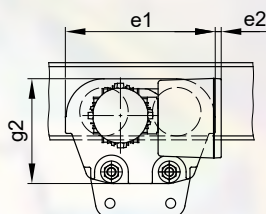
EHF 50 / 150 / 300 / 500



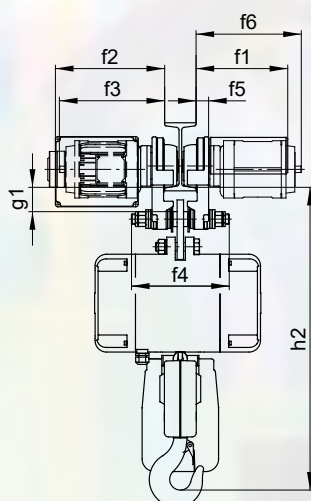
EMFE 50 / 150



EMFE 300 / 500



EMFE 50 / 150 / 300 / 500



Specification									
ISO (FEM) classification	M3 (1Bm) 150 s/h 25% duty	M4 (1Am) 180 s/h 30% duty	M5 (2m) 240 s/h 40% duty	M6 (3m) 300 s/h 50% duty	M7 (4m) 360 s/h 60% duty	Travelling speed	Motor power (M3)	3 x 400V 50Hz (M3)	Dead weight
Types	Capacity [kg]					[m/min]	[kW]	[A]	[kg]
EHF 50	1'000	800	630	630	500	-	-	-	7.5
EMFE 50/N	1'000	800	630	630	500	12	0.25	0.8	27
EMFE 50/NF	1'000	800	630	630	500	12/4	0.15/0.045	0.65/0.75	27
EMFE 50/SF	800	800	630	630	500	20/6	0.15/0.045	0.65/0.75	27
EHF 150	2'000	2'000	1'600	1'600	1'250	-	-	-	13.5
EMFE 150/N	2'000	2'000	1'600	1'600	1'250	12	0.25	0.8	31
EMFE 150/NF	2'000	2'000	1'600	1'600	1'250	12/4	0.15/0.045	0.65/0.75	31
EMFE 150/SF	1'600	1'600	1'600	1'600	1'250	20/6	0.15/0.045	0.65/0.75	31
EHF 300	4'000	4'000	3'200	2'500	2'500	-	-	-	27.5
EMFE 300/N	4'000	4'000	3'200	2'500	2'500	12	0.25	0.8	50
EMFE 300/NF	4'000	4'000	3'200	2'500	2'500	12/4	0.15/0.045	0.65/0.75	50
EMFE 300/SF	3'200	3'200	3'200	2'500	2'500	20/6	0.15/0.045	0.65/0.75	50
EHF 500	5'000	4'000	3'200	3'200	2'500	-	-	-	27.5
EMFE 500/N	5'000	4'000	3'200	3'200	2'500	12	2x0.25	2x0.8	57
EMFE 500/NF	5'000	4'000	3'200	3'200	2'500	12/4	2x0.15/0.045	2x0.65/0.75	57
EMFE 500/SF	4'000	4'000	3'200	3'200	2'500	20/6	2x0.15/0.045	2x0.65/0.75	57

Dimensions								
Types	e1 [mm]	e2 [mm]	f1 [mm]	f2 [mm]	f3 [mm]	f4 [mm]	f5 [mm]	f6 [mm]
EHF 50	215	-	-	-	-	183	23	-
EMFE 50	215	62	209	250	241	183	23	-
EHF 150	250	-	-	-	-	230	27	-
EMFE 150	250	43	211	253	242	230	27	-
EHF 300	311	-	-	-	-	290	31	-
EMFE 300	311	12	217	259	249	290	31	-
EHF 500	311	-	-	-	-	290	31	-
EMFE 500	311	12	-	259	249	290	31	249

Types	g1 [mm]	g2 [mm]	h2 [mm]				Flange width [mm]
			GCH 250/1	GCH 250/2	GCH 500/1	GCH 500/2	
EHF 50	49	167	418	457	426	466	50 - 99
EMFE 50	49	167	418	457	426	466	50 - 99
			GCH 1000/1	GCH 1000/2			
EHF 150	60	203	542	616			76 - 139
EMFE 150	60	203	542	616			76 - 139
			GCH 1600/1	GCH 1600/2	GCH 2000/1	GCH 2000/2	
EHF 300	55	218	637	719	637	719	120 - 179
EMFE 300	55	218	637	719	637	719	120 - 179
			GCH 2500/1	GCH 2500/2			
EHF 500	55	218	637	719			120-179
EMFE 500	55	218	637	719			120-179

Options..... : other flange widths
electric travel trolley with brake

Standard voltages : 3Ph 230V, 50Hz; 3Ph 400V, 50Hz

Special voltages : on request

Selection of travel trolleys : GCH 250/500 : EHF/EMFE 50
GCH 1000 : EHF/EMFE 150

GCH 1600/2000 : EHF/EMFE 300
GCH 2500 : EHF/EMFE 500

QUESTION FORM GIS ELECTRIC CHAIN HOIST

Customer data

Company _____ Date _____
 Address _____ Customer number _____
 Postal code _____ Phone number _____
 City - Country _____ Fax number _____
 Responsible person _____ Function _____

GIS Electric chain hoist

Type _____ Load capacity _____ kg
 Lifting speed ☐ 1 speed ☐ 2 speeds ☐ _____ m/min
 Required lifting height (standard 3 m) _____ m ☐ Chain bucket (option)
 Control cable length (standard 1.8 m) _____ m Operating time per day _____ hours

Voltage

Operating voltage ☐ 3 Ph 400V, 50Hz ☐ 1 Ph 230V, 50Hz ☐ _____ V _____ Hz

Location of the hoist

☐ Workshop ☐ outdoor ☐ near acids/alkaline solutions
☐ _____

Suspension

☐ Eyebolt suspension (standard) ☐ Hook suspension (option)

Carriage

Movement of the trolley ☐ push type ☐ electrical type ☐ with brake
☐ 1 speed ☐ 2 speeds ☐ _____ m/min
☐ Crane rail available / flange width _____ mm ☐ with traction limit
 Power supply ☐ without ☐ Trailing cable ☐ C-rail
☐ Contact line ☐ _____
☐ Crane rail/power supply not available / length _____ mm
 Power supply ☐ without ☐ Trailing cable ☐ C-rail
☐ Contact line ☐ _____
 Suspension distance ☐ variable ☐ given _____ mm
 Sketch with suspension points enclosed!

Additional technical data/Customer requirements

Required offer

☐ Short offer ☐ Approximate price ☐ Offer required by _____
☐ Detailed offer ☐ Date of realisation / desired delivery time _____

DALE Lifting and Handling
 2 Kelbrook Road, Manchester M11 2QA
 Tel:0161 223 1990 Fax:0161 223 6767
 Email: sales@dale-liftibg.co.uk
 Web: dlhonline.co.uk

Enclosures

☐ Sketch
☐ Plan/Drawing
☐ _____

Lifting technology
Crane technology
Vacuum lifting technology

**FAITH IN TECHNOLOGY.
FAITH IN GIS.**

**GIS customer
expectations**

Check of requirements
Situation analysis
Standard specifications
Objectives



GIS concept

Goods handling concept
Advice on solutions
Concept
Budgeting/offer



GIS implementation

Implementation
Planning
Delivery
Commissioning/
Installation



Productive solutions
Optimised costs
After-sales service
Long-term guarantee

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