

GISKB CRANE & MONORAIL SYSTEMS - OVERVIEW



**SINGLE BRIDGE
SUSPENDED CRANE**



**DOUBLE BRIDGE
SUSPENDED CRANE**



MONORAIL

SINGLE BRIDGE SUSPENDED CRANE

- » All-round load transportation up to 1250 kg (optional 2000 kg)
- » For normal headroom

DOUBLE BRIDGE SUSPENDED CRANE

- » All-round load transportation, up to 1250 kg (optional 2000 kg)
- » For lower headroom

MONORAIL WITH OPTIONAL BENDS, SWITCHES AND TURNABLES

- » To link work areas, up to 1550 kg load
- » Flexible line routing thanks to bends
- » Individual tracks can be connected using slide switches and turntables

GIS TRACK SWITCH/TURNTABLE

- » For accurate transition between tracks
- » Option: slide switches/turntables with internal or external conductor lines



BENDS

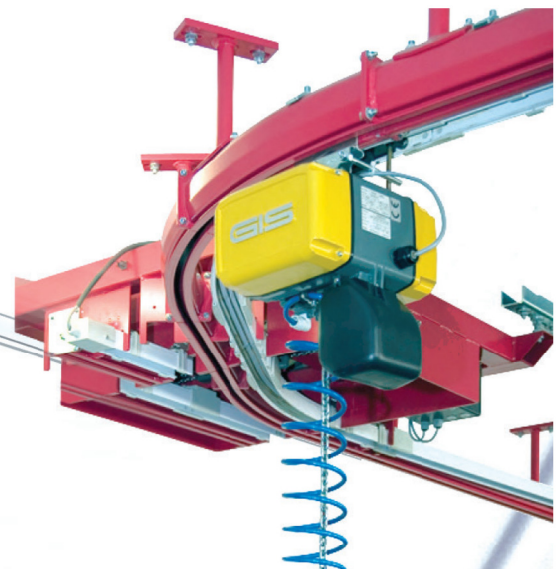
- » To reach individual work areas with accuracy
- » Optimum use of confined space

LOCKING SWITCHES

- » Cost-saving technology to cover partial working areas
- » No need for a complete crane system
- » Function: locking and moving into a lateral monorail

INTERNAL CONDUCTOR SYSTEM

- » The elegant alternative to trailing cables or looped wires
- » Placed inside the profile (for mechanical protection)
- » Ideal in confined spaces



BENEFITS TO YOU:

- » Reasonably priced, thanks to series-produced standard parts and rolled profiles
- » Simple to install, all components can be screwed/bolted
- » Manual or electrical crane/ trolley movement
- » Low noise level thanks to plastic guide rollers
- » Various power supplies
- » Guaranteed conversion or extension of existing crane systems

GISKB CRANE & MONORAIL SYSTEMS - TRACKS



TRACK

- » Four profile sizes
- » Connection plates on each end for bolting
- » Standard profile lengths, between 1m and 8 m
- » Special lengths to order

YOUR BENEFITS:

- » Excellent performance thanks to high load-carrying capacity
- » Simple to install, thanks to optimised design
- » Competitively priced, thanks to standard rolled profiles

OPTIMAL PROFILE SIZE

Use the table below to determine the optimal profile size, depending on the load and the span W.




















 » Without reinforcement

Basis: Max. permissible deflection = W/400, Max stress = 180 N/M2.



Hoist weight: 25 kg (up to load capacity of 500 kg), 50 kg (for load capacity over 500 KG)

 » With reinforcement


MONORAILS

Lifting capacity (kg)	GIS KB I Span (m)									GIS KB II Span (m)									
	Track only		NP 120		NP 160		NP 180		MR	Track only		NP 120		NP 160		NP 180		MR	
																			
100	4.7	5.9	7.8	7.8	7.8	7.8	7.8	7.8	7.5	7.2		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
125	4.4	5.6							6.9	6.9									
160	4.0	5.3							6.1	6.4	7.8								
200	3.7	4.9							5.6	6.0	7.5								
250	3.4	4.6	7.4						5.0	5.6	7.1								
320	3.1	4.2	6.8						4.2	5.1	6.6								7.6
400	2.8	3.8	6.3						3.3	4.7	6.2	7.6							6.8
500	2.5	3.5	5.5	7.5	7.5				2.9	4.3	5.7	7.1							5.8
630	2.0	3.2	4.5	7.0	6.3		7.3		2.3	3.8	5.2	6.4							4.5
800		2.8		6.4						3.2	4.8	5.2	7.7	7.0					3.6
1,000		2.5		5.6		7.5				2.7	4.3	4.3	7.1	5.8			6.6		3.1
1,250		2.1		4.6		6.4		7.4		2.7	3.9	3.5	6.5	4.7			5.4		2.6

SINGLE CRANE WITH BRIDGE SPAN W (M)

Lifting capacity (kg)	GISKBIII - span (m)	GISKBIV - span (m)
		
100	8.2	10.5
125	7.8	10.2
160	7.4	9.9
200	7.0	9.3
250	6.5	8.9
320	6.0	8.2
400	5.5	7.7
500	5.1	7.2
630	4.6	6.6
800	4.1	5.9
1000	3.6	5.4
1250	2.9	4.9
1600	2.4	4.0

DOUBLE CRANE WITH BRIDGE SPAN W (M)

Lifting capacity (kg)	GISKBIII - span (m)	GISKBIV - span (m)
		
100	9.4	11.8
125	9.1	11.6
160	8.7	11.3
200	8.5	11.0
250	8.1	10.8
320	7.6	10.1
400	7.2	9.7
500	6.7	9.3
630	6.2	8.5
800	5.7	8.0
1000	5.2	7.2
1250	4.7	6.7
1600	4.2	6.0

GISKB CRANE & MONORAIL SYSTEMS - SUSPENSION OPTIONS

SHORT RIGID (FIG 1)

- » Reduced headroom
- » The rigid suspension can only be supplied in the short version

SHORT, PENDULATING, ADJUSTABLE (FIG 2)

- » Ball pins and nuts are screwed together directly
- » Pendulation movements max. 10°
- » Height adjustable by ± 7.5 mm

DISTANCED, PENDULATING, ADJUSTABLE (FIG 3)

- » Distanced suspension, variable length
- » Height adjustable by ± 15 mm

DISTANCED, PENDULATING, ADJUSTABLE, BRACED (FIG 4)

- » Distance up to 0.5 m: bracing is mandatory
- » Longitudinal bracing: both ends of track
- » Transverse bracing: on one side, every 2nd suspension

LATERAL SUSPENSION

- » Lateral installation on wooden or concrete beam



2 TROLLEYS WITH TRAVERSE



ROLLING APPARATUS (CRANE CARRIAGE)

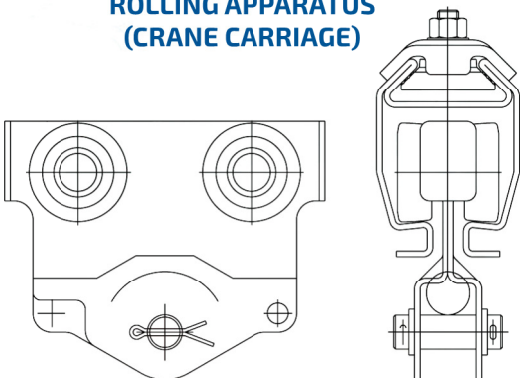


FIG 1



FIG 2



FIG 3



FIG 4

TROLLEYS

Components designed in galvanized steel

- » Use is guaranteed for longitudinal and transverse movements
- » Load sharing is ensured by 2 trolleys
- » On the saddle of a double crane bridge: 4 trolleys in use
- » Drive: manual or electrical tug

BENEFITS TO YOU:

- » Silent running thanks to plastic guide rollers
- » Ideal for awkward and critical loads
- » Easily converted from manual to electrical operation
- » Gentle start-up and braking thanks to the optional frequency inverter



ELECTRICAL DRIVE



4 TROLLEYS WITH SADDLE (TO REDUCE HEADROOM)

GISKB CRANE & MONORAIL SYSTEMS - ELECTRICS, BENDS & SWITCHES



TRAILING CABLE



C-RAIL



ENCLOSED CONDUCTOR LINE

POWER SUPPLY

- » 400V, 3Ph, 50Hz or 220V, 1Ph, 50Hz
- » Or for your power supply

GISKB POWER SUPPLIES COMPLETE

- » Cable carriage, traction limit, connector, C-rail stop

4 TYPES OF LONGITUDINAL AND TRANSVERSE POWER SUPPLY:

- » Trailing cable
- » C-rail
- » Enclosed conductor line
- » Conductor line inside GISKB track

GISKB II ST INTERNAL CONDUCTOR LINE

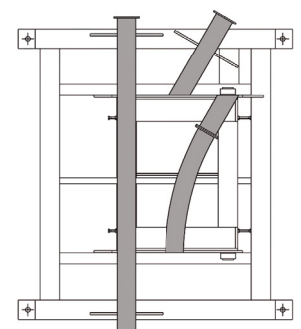
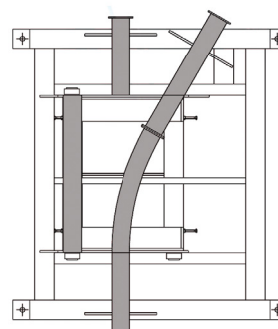
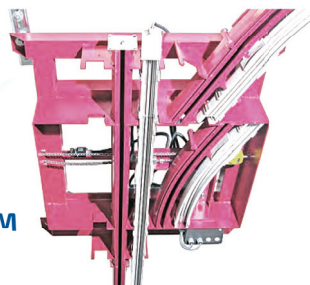
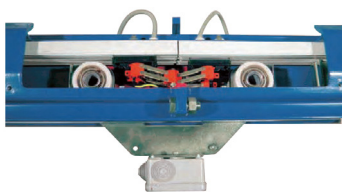
- » Flexible, universal
- » Attractive design
- » For universal use
- » Power: 25A with max.100 m profile length
- » Trolley design as for GISKB I (up to 800 kg)

BENDS

- » Can be supplied with angles of 30° and 45°
- » Radius: 1m
- » End plate at each end
- » Suspension from 2 points
- » Conductor line bends can be supplied with same angles as profile bends

SLIDE SWITCHES & TURNTABLES

- » Profiles are moved manually or electrically
- » Manual: with traction cable
- » Electrical: with 2-button control switch
- » Option: supplied with conductor lines
- » Trailing cable C-rail



INTERNAL CONDUCTOR SYSTEM

- » Internal conductor bars mounted inside the GISKB track
- » Maximum 40A for maximum 40m length
- » Current collector trolley available - independent from load carrying trolley
- » Modular construction
- » Neat & tidy - the conductor system is hidden