



KRC

CRANE SYSTEMS

BROCHURE OF WIRE ROPE HOIST



ABOUT KRC

Karui Lifting Equipment (KRC) Co., Ltd., is a modernized enterprise formed on the basis of fully technical cooperation with **ABUS** in 1998, has been given priority to the design, production and installation of broad range of lifting equipments. Also, KRC is a high-standard structural steel supplier to STAHL, GH.



- KRC is the very first company who dedicated to the research, development and manufacture of European style cranes and intelligent cranes in China.
- KRC is one of the first batches of companies who indulge in the research, development and manufacture of industrial-grade multi-scene application winches.
- Chinese supreme A-class manufacturing and installation and maintenance qualifications.
- KRC factory has made maximum double girder crane, which equipped with a lifting capacity of 360 tons and a span of 34.5 meters.
- KRC serves industries including but not limited to iron and steel smelting, non-ferrous metal processing, automobile manufacturing, aircraft manufacturing, chemical industry, paper industry, manufacturing industry, construction industry, nuclear industry and military industry.
- KRC has been awarded the title of "Small Giant" enterprise of Henan Province. The company's technology research and development center is named provincial technology research and development center.



Leading a 26-year headway, KRC has already supplied thousands of equipments for different industries and calling with its professional technical knowledge, eminent design capability, high level process and considerate service and received a wide favorable reception around our guests.

KRC's Advantages

•Registered Capital
USD 100 Million

•Factory Area
28000sqm

•Annual Output Value
USD 200+ Million

•Annual Output Quantity
1800+

•Number of Patents
USD 100 Million

•Number of Employees
28000sqm

•Number of Engineers
USD 200+ Million

•Annual Output Quantity
1500+



**Standard
&
Customize**

- Professional design services, high standard production and quick delivery to meet different needs of customers and site conditions. Our rich experience and capacity can offer one-stop solution for lifting and handling problems.
- KRC products are standardized with first-tier brands parts to ensure the quality of the products.



**Quality
&
After-service**

- KRC grasps each production link to ensure quality, delivery and meet the deadline.
- KRC will provide professional technical training, installation support and after-sales service.



**OEM
&
ODM**

- Cooperate with passing various tests to ensure the products meet different local standards.
- OEM/ODM services.

WIRE ROPE HOIST



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INFO

FOR OTHER KINDS OF PRODUCTS, PLEASE MAKE CONSULTATION TO OUR OFFICIAL SERVICE.

WE ARE HIGHLY VALUED FOR EVERY CUSTOMER'S NEED.





Hoisting gear

Lightweight gear units with silent-running flat bevelled gears deliver the torque required. Four different gear ratios are available for each model.



Hoist motor

Sturdy pole change motors with cylindrical rotors and integrated safety brakes are the powerhouse of ABUS wire rope hoists.



Rope guide

A resilient low-friction plastic rope guide designed as an expanding ring provides positive guidance for the rope. The rope guide also reduces wear on the rope and rope drum. It is also easy to install, reducing maintenance requirements for the unit as a whole.



Bottom block

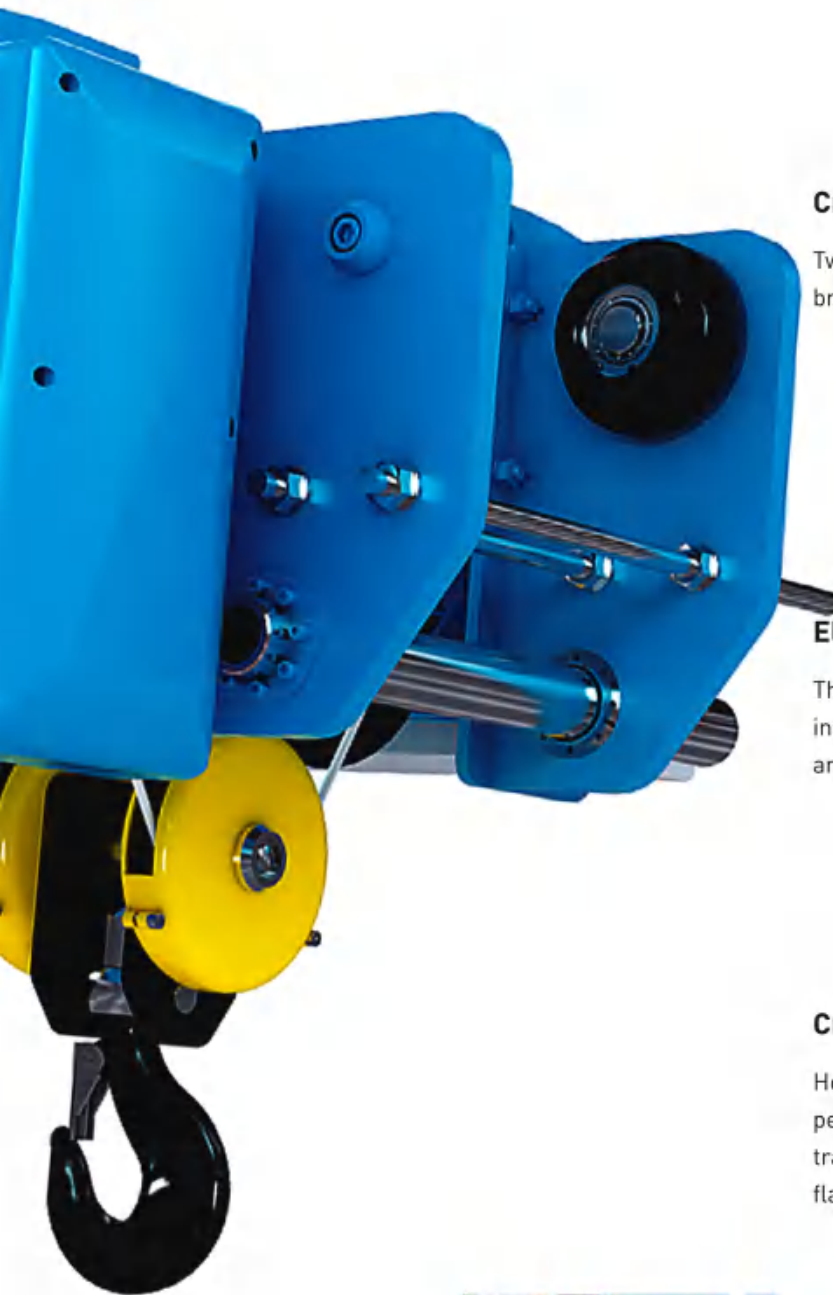
The elegant bottom blocks are equipped with edge protectors around the rope opening. Long service lives and high safety levels are outstanding features of the resilient annealed steel rollers with machined rope grooves and annealed load hooks.



Safety brake

The dual-disk electromagnetic brake features automatic braking in the event of a power failure. Asbestos-free brake linings designed for approx. 1 million braking operations make for long maintenance intervals.





Cross travel drive

Two compact epicyclic reduction gears with pole-changing brake motors directly drive two wheels.



Electrical system

The easy-to-service control system with *KRC LIS* control unit includes motor protection functions, operating hours meter and overload protection function.



Cross travel trolley

Hoist trolleys are fitted with four flanged wheels with permanently lubricated roller bearings, designed for use on tracks with parallel flanges. Wheels for tracks with inclined flanges are available as an option.



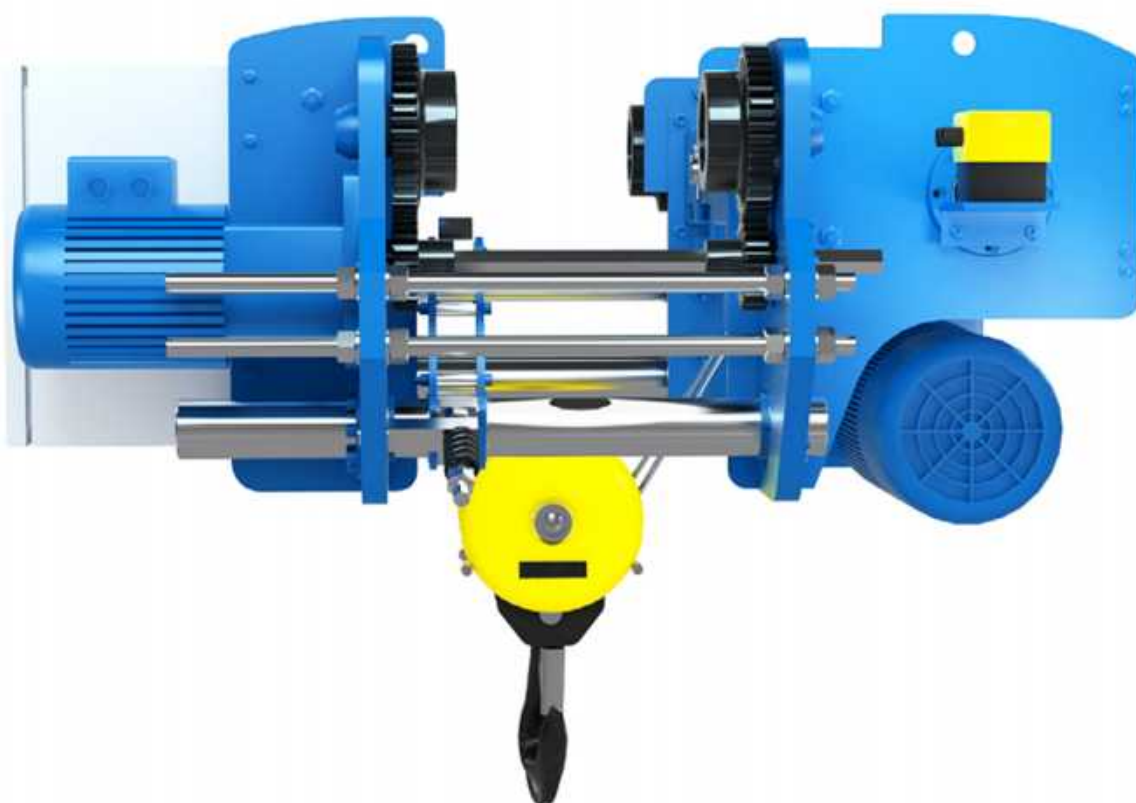
Easy plug-in connector

The factory fitted *KRC* plug and socket connections reduce installation and maintenance work to a minimum. Connections are easy to assemble and dismantle. Furthermore incorrect connections are impossible.



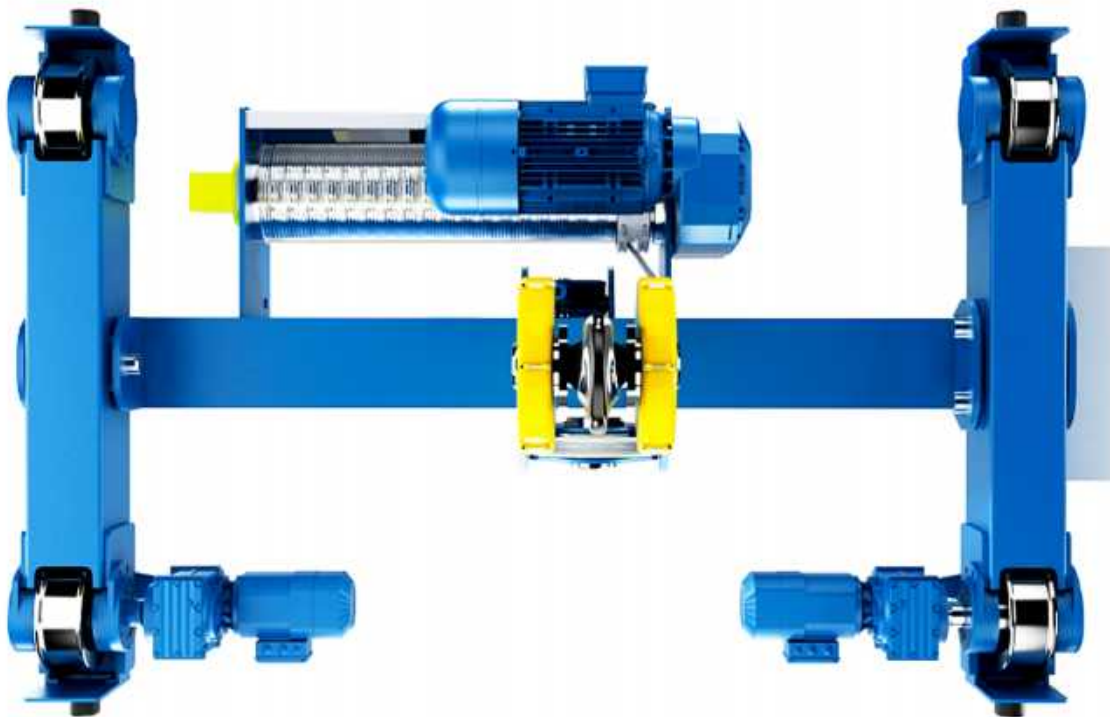
KRC emergency limit switch

Two standard switching points for the highest hook position ensure double safety.



Model Selection Table

LIFTING WEIGHT (t)	MODEL	WORKING LEVEL	LIFTING HEIGHT (m)	HOISTING SPEED (m/min)		RUNNING SPEED	C (mm)	H (mm)
1t	KR101.E	4m/M7	6, 9, 12	0.5/3	Frequency conversion/ double speed	5-20	450	180
		4m/M7	6, 9, 12	0.7/4		5-20		
		4m/M7	6, 9, 12	0.8/5		5-20		
		4m/M7	6, 9, 12	1/6		5-20		
		4m/M7	6, 9, 12	1.4/8.5		5-20		
2t	KR102.E	4m/M7	6, 9, 12	0.5/3	Frequency conversion/ double speed	5-20	450	180
		4m/M7	6, 9, 12	0.7/4		5-20		
		4m/M7	6, 9, 12	0.8/5		5-20		
		4m/M7	6, 9, 12	1/6		5-20		
		3m/M6	6, 9, 12	1.4/8.5		5-20		
3.2t	KR103.E	2m/M5	6, 9, 12	0.5/3.3	Frequency conversion/ double speed	5-20	450	180
		2m/M5	6, 9, 12	0.7/4		5-20		
		2m/M5	6, 9, 12	0.8/5		5-20		
		2m/M5	6, 9, 12	1/6		5-20		
	KR203.E	3m/M6	6, 9, 12, 15	0.7/4		5-20	550	180
		3m/M6	6, 9, 12, 15	0.8/5		5-20		
5t	KR205.E	3m/M6	6, 9, 12, 15	1.3/7.6	Frequency conversion/ double speed	5-20	550	180
		2m/M5	6, 9, 12, 15	0.7/4		5-20		
		2m/M5	6, 9, 12, 15, 18	0.8/5		5-20		
		2m/M5	6, 9, 12, 15, 18	1/6		5-20		
	KR305.E	4m/M7	6, 9, 12, 15, 18	0.7/4		5-20	750	200
		4m/M7	6, 9, 12, 15, 18	0.8/5		5-20		
		4m/M7	6, 9, 12, 15, 18	1/6		5-20		
		3m/M6	6, 9, 12, 15, 18	1.3/7.8		5-20		
10t	KR310.E	2m/M5	6, 9, 12, 15	0.7/4	Frequency conversion/ double speed	5-20	750	200
		2m/M5	6, 9, 12, 15	0.8/5		5-20		
		2m/M5	6, 9, 12, 15	1/6		5-20		
		1m	6, 9, 12, 15	1.3/7.8		5-20		
	KR410.E	3m/M6	6, 9, 12, 15, 18	1.3/8		5-20	1100	225
12.5t	KR312.E	1m	6, 9, 12, 15, 18	0.7/4	Frequency conversion/ double speed	5-20	750	200
		1m	6, 9, 12, 15, 18	0.8/5		5-20		
	KR412.E	3m/M6	6, 9, 12, 15, 18	0.7/4		5-20	1100	225
		3m/M6	6, 9, 12, 15, 18	0.8/5		5-20		
16t	KR416.E	2m/M5	6, 9, 12, 15, 18	0.7/4	Frequency conversion/ double speed	5-20	1100	225
		2m/M5	6, 9, 12, 15, 18	0.8/5		5-20		



Model Selection Table

LIFTING WEIGHT (t)	MODEL	WORKING LEVEL	LIFTING HEIGHT (m)	HOISTING SPEED (m/min)		RUNNING SPEED	H1 (mm)	C1 (mm)
3.2t	KR103.D	3m/M6	6, 9, 12	0.5/3.3	Frequency conversion/ double speed	5-20	150	400
		2m/M5	6, 9, 12	0.7/4		5-20		
		2m/M5	6, 9, 12	0.8/5		5-20		
		2m/M5	6, 9, 12	1/6		5-20		
	KR203.D	3m/M6	6, 9, 12, 15	0.7/4		5-20		
		3m/M6	6, 9, 12, 15	0.8/5		5-20		
		3m/M6	6, 9, 12, 15	1/6		5-20		
		3m/M6	6, 9, 12, 15	1.3/7.6		5-20		
5t	KR205.D	2m/M5	6, 9, 12, 15	0.7/4	Frequency conversion/ double speed	5-20	150	400
		2m/M5	6, 9, 12, 15, 18	0.8/5		5-20		
		2m/M5	6, 9, 12, 15, 18	1/6		5-20		
	KR305.D	4m/M7	6, 9, 12, 15, 18	0.7/4		5-20	150	480
		4m/M7	6, 9, 12, 15, 18	0.8/5		5-20		
		4m/M7	6, 9, 12, 15, 18	1/6		5-20		
		3m/M6	6, 9, 12, 15, 18	1.3/7.8		5-20		
10t	KR310.D	2m/M5	6, 9, 12, 15	0.7/4	Frequency conversion/ double speed	5-20	150	480
		2m/M5	6, 9, 12, 15	0.8/5		5-20		
		2m/M5	6, 9, 12, 15	1/6		5-20		
		1m/M4	6, 9, 12, 15	1.3/7.8		5-20		
	KR410.D	3m/M6	6, 9, 12, 15, 18	1.3/8		5-20		
12.5t	KR312.D	1m/M4	6, 9, 12, 15, 18	0.7/4	Frequency conversion/ double speed	5-20	150	480
		1m/M4	6, 9, 12, 15, 18	0.8/5		5-20		
	KR412.D	3m/M6	6, 9, 12, 15, 18	0.7/4		5-20	230	700
		3m/M6	6, 9, 12, 15, 18	0.8/5		5-20		
16t	KR416.D	3m/M6	6, 9, 12, 15, 18	0.6/4	Frequency conversion/ double speed	5-20	230	700
		2m/M5	6, 9, 12, 15, 18	0.8/5		5-20		
	KR316.Z	3m/M6	6, 9, 12, 15, 18, 21, 24	0.8/5		5-20	230	950
		3m/M6	6, 9, 12, 15, 18, 21, 24	1/6		5-20		
20t	KR420.D	2m/M5	6, 9, 12, 15	0.6/4	Frequency conversion/ double speed	5-20	230	700
		2m/M5	6, 9, 12, 15, 18	0.8/5		5-20		
		3m/M6	6, 9, 12, 15, 18	1.2/5		5-20		
	KR520.D	3m/M6	6, 9, 12, 15, 18	0.68-6.8	Frequency conversion	5-20	230	700
		3m/M6	6, 9, 12, 15, 18	0.77-7.7		5-20		
	KR320.Z	2m/M5	6, 9, 12, 15, 18, 21, 24	0.8/5	double speed	5-20	230	950
2m/M5		6, 9, 12, 15, 18, 21, 24	1/6	5-20				

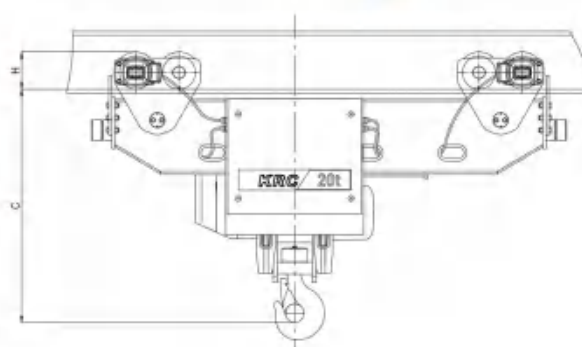
Model Selection Table

LIFTING WEIGHT (t)	MODEL	WORKING LEVEL	LIFTING HEIGHT (m)	HOISTING SPEED (m/min)		RUNNING SPEED	H1 (mm)	C1 (mm)
25t	KR525.D	2m/M5	6, 9, 12, 15	1/4	Frequency conversion/ double speed	5-20	230	700
		2m/M5	6, 9, 12, 15, 18	1.1/4.5		5-20		
		2m/M5	6, 9, 12, 15, 18	1.2/5		5-20		
	KR525.DP	2m/M5	6, 9, 12, 15, 18	1/5	Frequency conversion	5-20	230	700
		2m/M5	6, 9, 12, 15, 18	1.2-6		5-20		
		2m/M5	6, 9, 12, 15, 18	1.6-7.7		5-20		
	KR325.Z	1m/M4	6, 9, 12, 15, 18	0.7/4	Frequency conversion/ double speed	5-20	230	950
		1m/M4	6, 9, 12, 15, 18	0.8/5		5-20		
	KR425.Z	3m/M6	6, 9, 12, 15, 18	0.6/4	double speed	5-20	290	1500
		4m/M7	6, 9, 12, 15, 18	0.8/5		5-20		
32t	KR532.D	1m/M4	6, 9, 12	0.8/3.3	double speed	5-20	290	1000
	KR532.DP	2m/M5	6, 9, 12, 15, 18	0.9-4.5	Frequency conversion	5-20	290	850
		2m/M5	6, 9, 12, 15, 18	1/5		5-20		
		2m/M5	6, 9, 12, 15, 18	1.2-6		5-20		
	KR432.Z	2m/M5	6, 9, 12, 15, 18	0.6/4	double speed	5-20	290	1500
		3m/M6	6, 9, 12, 15, 18	0.8/5		5-20		
40t	KR540.D	1m/M4	6, 9, 12, 15, 18	0.9-4.5	Frequency conversion	5-20	290	850
		1m/M4	6, 9, 12, 15, 18	1/5		5-20		
	KR440.Z	2m/M5	6, 9, 12, 15, 18	0.6/4	double speed	5-20	290	1500
		2m/M5	6, 9, 12, 15, 18	0.8/5		5-20		
	KR540.Z	3m/M6	6, 9, 12, 15, 18	1/4.5	double speed	5-20	290	1500
		3m/M6	6, 9, 12, 15, 18	1.2/5		5-20		
	KR540.ZP	3m/M6	6, 9, 12, 15, 18	1/5	Frequency conversion	5-20	290	850
		3m/M6	6, 9, 12, 15, 18	1.2-6		5-20		
3m/M6		6, 9, 12, 15, 18	1.4-6.8	5-20				
50t	KR550.D	1m/M4	6, 9, 12, 15	0.8-4	Frequency conversion	5-20	390	1350
		1m/M4	6, 9, 12, 15	0.9-4.5		5-20		
		2m/M5	6, 9, 12, 15, 18	1/4		5-20		
	KR550.Z	2m/M5	6, 9, 12, 15, 18	1.1/4.5	double speed	5-20	390	1500
		2m/M5	6, 9, 12, 15, 18	1.2/5		5-20		
	KR550.ZP	2m/M5	6, 9, 12, 15, 18	1/5	Frequency conversion	5-20	390	1500
		2m/M5	6, 9, 12, 15, 18	1.2-6		5-20		
63t	KR560.ZP	2m/M5	6, 9, 12, 15, 18	0.9-4.5	Frequency conversion	5-20	390	2000
		2m/M5	6, 9, 12, 15, 18	1/5		5-20		
		2m/M5	6, 9, 12, 15, 18	1.4-6.8		5-20		
80t	KR580.ZP	1m/M4	6, 9, 12, 15, 18	0.9-4.5	Frequency conversion	5-20	390	2000
		1m/M4	6, 9, 12, 15, 18	1/5		5-20		

Type U – monorail hoist with twin trolleys

A monorail hoist with twin trolleys for high load capacities and long hook paths. Cross travel trolley designed for direct drive without exposed reduction gearing. As the load is distributed over eight wheels, ordinary rolled section beams can be used for monorail track applications. With short spans, even high-load cranes can be operated on ordinary rolled section beams using this hoist. Load capacity range: 6.3 t to 25 t.

Model	Reeving	Load cap. (t)	Hook path (m)				C (mm)	H (mm)
GM 5000	4/1	20.0	6	10	15	18.5	1132	180
GM 6000	2/1	12.5	12	20	30	37	1256	180
	4/1	25.0	6	10	15	18.5	1241	180
GM 7000	2/1	20.0	16	30	45	-	1615	180



Type S – side-mounted hoist

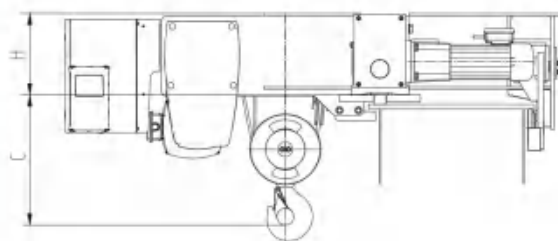
With its optimized hook height, this hoist, which can be used on crane bridges with a span of up to 35m or more, has advantages over other types in terms of investment return.

- Compared with a single girder crane crane using a type E monorail hoist, the building height can be reduced.
- Compared with a double girder crane crane of about the same height, the loads on the crane track and the building are significantly lower.



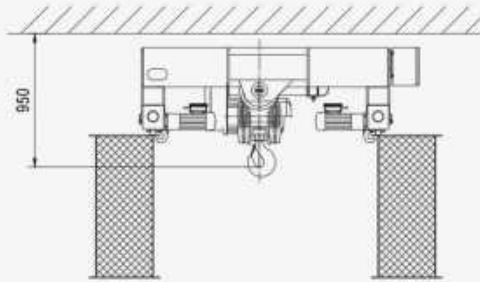
Support rollers with swivel mount

Model	Reeving	Load cap. (t)	Hook path (m)			C (mm)	H (mm)
GM 800	4/1	3.2	6	9	-	343	250
GM 1000	4/1	5.0	6	9	-	420	290
GM 2000	4/1	6.3	6	9	-	440	290
GM 3000	2/1	5.0	12	20	-	700	290
	4/1	10.0	6	10	15	555	360



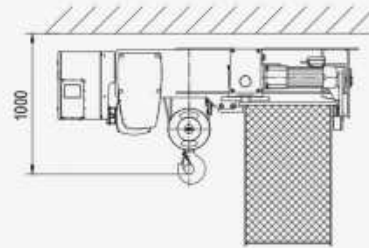
Comparison of the headroom of different hoists, SWL 10 t, span 25 000 mm

Double girder crane
with type D crab unit



ZLK

Single girder torsion box crane
with type S side-mounted hoist



ELS

Type DA – low headroom crab unit

In contrast to type D, the supporting member with the hoist between the end carriages is equipped with articulated joints. The hoist headroom is therefore reduced to a minimum. This is the option to use where very little space is available above the crane, as an alternative to type DQA, also a low headroom option. *KRC* advisors will be happy to provide you with technical data and dimensions.



Type DQA – ultra low headroom crab unit

An ultra low headroom crab unit with the rope drum axis in the direction of cross travel, articulated end carriage joints ensuring positive contact of all four wheels with the track, two direct drive cross travel motors. Load capacity range: 1 t to 40 t. *KRC* advisors will be happy to provide you with technical data and dimensions.

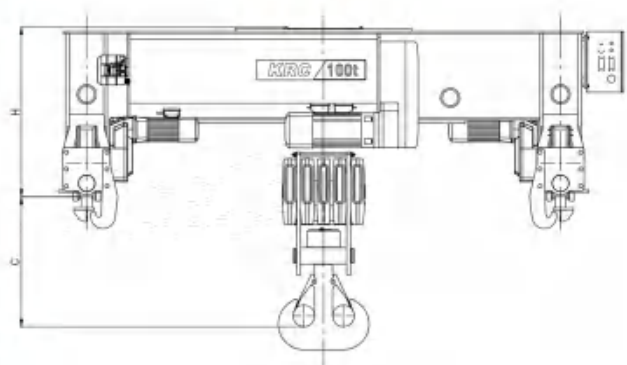


Type Z – twin barrel crab unit

A compact designed crab unit with twin barrels and articulated end carriage joints ensuring positive contact of all four wheels with the track, two direct drive cross travel motors. Load capacity range: 8 t to 120 t.



Model	Reeving	Load cap.(t)	Hook path (m)				C (mm)	H (mm)
GM 5000	4/2	20.0	12	20	30	37	413	985
	8/2	40.0	6	10	15	18.5	635	1060
GM 6000	4/2	25.0	12	20	30	37	419	1035
	8/2	50.0	6	10	15	18.5	643	1105
GM 7000	4/2	40.0	16	30	45	-	668	1220
	6/2	63.0	10.6	20	30	36	897	1218
	8/2	80.0	8	15	22.5	27.5	915	1275
	10/2	100.0	12	18	22	-	960	1265
	12/2	120.0	15	18	-	-	1400	1200



Type ZA – low headroom twin barrel crab unit

In contrast to type Z, the supporting member with the hoist between the end carriages is equipped with articulated joints. The hoist headroom is therefore reduced to a minimum. This is the option to use where very little headroom is available above the crane. *KRC* advisors will be happy to provide you with technical data and dimensions.



Cross travel drives

Wheel diameter
≤ 280 mm
Epicyclic geared motors



Wheel diameter
≥ 350 mm
Flat-geared motors



Otherwise, we can provide you with more customization parts.

Contact us for more info:

