TBM®

crane
since 1984

INNOVATION LEADS THE FUTURE
CONCENTRATION ACHIEVES BRILLIANCE

ZHEJIANG SHUANGNIAO LIFTING EQUIPMENT CO.,LTD

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ZHEJIANG SHUANGNIAO LIFTING EQUIPMENT CO.,LTD

TBM® crane since 1984

FOUNDED IN 1984
600 EMPLOYEES
COVERING 200,000㎡


质量管理体系认证证书

注册号：03500Q10769R1M

兹 证 明

浙江双鸟机械有限公司

浙江省绍兴市嵊州市黄泽镇工业功能区玉龙路16号

邮政编码：312455

管 理 体 系 符 合

GB/T 19001-2000 — ISO 9001:2000 标准

该管理体系适用于

电动葫芦、手动葫芦的设计、开发、生产和服务***


ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Registration No. : 03500E10255R1M

This is to certify that the environmental management system of

Zhejiang Shuangniao Machinery Co., Ltd.

No.16 Yulong Road, Huangze Town, Shengzhou City, Zhejiang Province, China
Post Code: 312455

is in conformity with

GB/T 24001-2004 — ISO 14001:2004 Standard

This certificate is valid to the following product(s)

The Design, Development, Production and Service of Electric Chain Block, Manual Chain Block by Zhejiang Shuangniao Machinery Co., Ltd. Located at No.16 Yulong Road, Huangze Town, Shengzhou City, Zhejiang Province, China.

Date of issue: June 08, 2009
Date of expiry at most: June 07, 2012

Representative:

MANAGEMENT SYSTEM
CNAS C035-E

Note: The registration continuity depends on the demonstration of EMS effectiveness by planned annual surveillance. Detailed information is available of in our website: http://www.sqcc.com.cn

TBM Group is located in Shengzhou county in the east of Zhejiang Province. Since 1984,

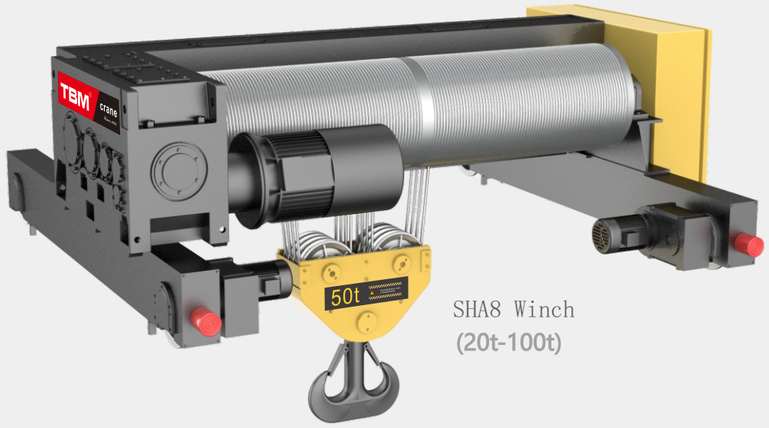
TBM has been focusing on research, development, design, production and service of various hoists. Nowadays, it is one of the largest andleading hoist manufacturers in China. The factory has an area of 200, 000m² containing 160, 000m² of covered area.

TBM has the most comprehensive product portfolios available. It is specialized in design and manufacturing electricwire rope hoists, electric chain hoists, manual chain blocks, manual lever blocks, high-strength slings, movable jib cranes, CNC machining centers, anchor chains etc.

All the products meet the exact standards of EC, FEM and DIN. We have a team of top-class engineers and have ever-increasing ability of new product development.

With the principle of “To Offer Clients with the Most Satisfied Products and Service with Continuous Innovation, we sincerely look forward to cooperating with you and welcome to visit our company anytime!

SHA8 Low Headroom
(1t-12.5t)



SHA8 Winch
(20t-100t)

SHA8-BZ Double Rail Hoist
(32t-100t)

SHA8-BS Double Rail Hoist
(3.2t-80t)

SHA8 Low-headroom Electric Wire Rope Hoist

Electronic unit

- Stable and durable contactor control, reliably work in bad condition
- Standard three phase voltage:380-415v,50hz(440-480v,60hz)
- Standard control voltage:48v
- Sturdy and durable control panel, IP54 protecting level

Control System

- Automatic orientation
- Automatic centering
- Automatic rectify deviation
- Inch moving , joggle
- Anti-shock
- Regional Protection
- Electronic anti-sway
- Remote communication, digital maintenance

Travelling driving unit

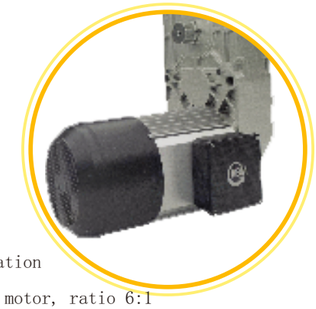
- Motor , gearbox and brake three-in-one
- Compact structure , small size and light weight
- Direct drive flexible design, stable torque transfer
- 30% rotational efficiency higher than traditional coupling
- Suitable for frequency reverse switching
- Squirrel cage variable frequency motor 60% ED
- IP55 protecting level, H level insulation
- Safe and reliable DC brake
- Aluminum alloy shell, hard tooth surface reducer, well sealing without oil leakage

Hook Assembly

- Match to the standard of DIN15400/15401, forged by high strength alloy steel
- With safety latch to protect safely
- 360° horizontal and 180° vertical rotation easily operation
- High strength extrusion pulley, high finish rope groove to avoid friction with wire rope

Rope guider

- High performance engineering material,light self-weight,sturdy and reliable
- Circular design
- Precise rope guide system



Lifting drive unit

- Ip55 protecting level, F level insulation
- High efficiency double speed lifting motor, ratio 6:1
- 60% ED, strong power and sufficient stock
- With thermal protecting function to prevent from over temperature
- Sturdy and durable aluminum alloy motor, light weight, good heat dissipation
- High-tech totally enclosed aluminum alloy gearbox
- Quenched and fine ground gear makes motor stable and low noice
- Free maintenance design:no need to change lubrication oil in lifetime
- DC brake, quick response
- The safety factor of brake is higher than 180%, manual release for optional
- With self-adjust function
- More than one million times brake operation

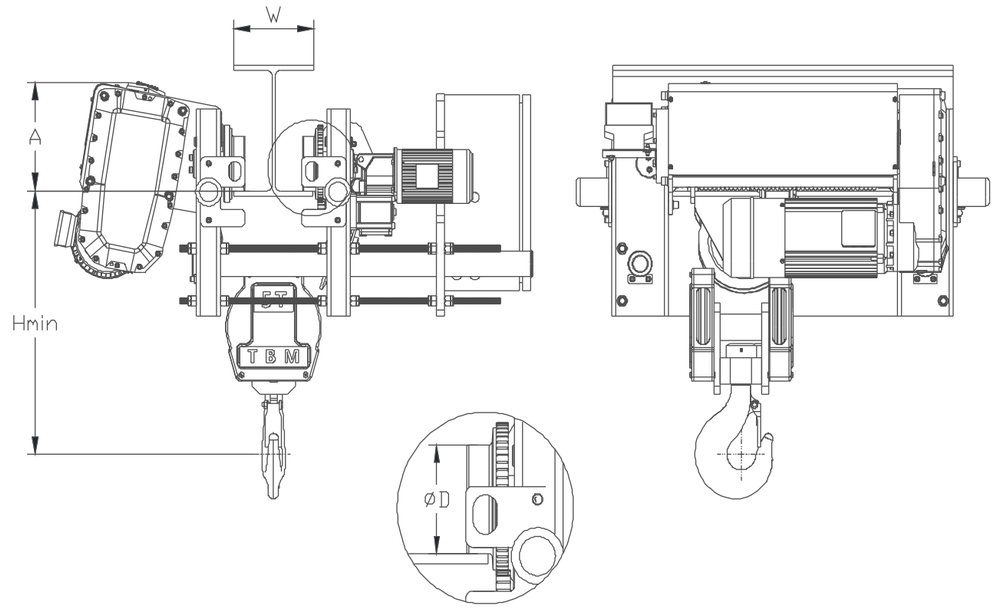
Imported Wire Rope

- High strength pressed solid galvanized wire rope
- 2160N/mm² tensile strength
- 40% smaller than traditional wire rope
- Good flexibility and long service life
- Press rope block for special use, intensively layout to prevent form loose, fastening is more reliable
- Fusible cutout rope technology,fusible surface is firm
- Effectively prevent from loose to extend service life

SHA8 Low-headroom Electric Wire Rope Hoist

The hoist body is connected by professional profile, with exquisite structure, excellent appearance and unique innovations.

Designed as per the latest international DIN and FEM standards, have reached the technical level of similar products abroad, and are suitable for various material transfer sites such as machining shops, assembly shops, warehouse and other material handling sites especially for sites where the height of workshop is major limited.



Technical Parameters with SEW motor

Model	Capacity (t)	Duty	Rope Reeving	Lifting Speed (m/min)	Lifting Motor (Kw)	Travelling Speed (m/min)	Travelling Motor (Kw)	Rail width range W(mm)		Wire Rope Diameter (mm)	Wheel Diameter D(mm)	A (mm)	Hmin (mm)	Lifting height (m)
								I Beam	H Beam					
SHA8-2D	1	M7	2/1	10/1.6	3.6/0.55	20/5	2* 0.37/0.1	100`180	100`400	7	100	220	600	12/18/24/30
	1.25	M6	2/1	10/1.6										
	1.6	M5	2/1	10/1.6										
	2	M7	4/1	5/0.8									510	6/9/12/15
	2.5	M6	4/1	5/0.8										
	3.2	M5	4/1	5/0.8										
SHA8-3D	2	M6	2/1	10/1.6	6.1/0.9	20/5	2* 0.37/0.1	110`180	110`460	9	125	249	700	12/18/24/30
	2.5	M5	2/1	10/1.6										
	3.2	M4	2/1	10/1.6										
	4	M6	4/1	5/0.8									600	6/9/12/15
	5	M5	4/1	5/0.8										
	6.3	M4	4/1	5/0.8										
SHA8-4D	4	M6	2/1	10/1.6	11/1.8	20/5	2* 0.37/0.1	120`180	120`460	13	150	336	900	12/18/24/30
	5	M5	2/1	10/1.6										
	6.3	M4	2/1	10/1.6	12.5/1.9									
	8	M6	4/1	5/0.8	9.5/1.5		2* 0.75/0.18						800	6/9/12/15
	10	M5	4/1	5/0.8										
	12.5	M4	4/1	5/0.8	12.5/1.9									

Note: Inverter motor is for optional for lifting motor and travelling motor

Technical Parameters with Chinese motor

Model	Capacity (t)	Duty	Rope Reeving	Lifting Speed (m/min)	Lifting Motor (Kw)	Travelling Speed (m/min)	Travelling Motor (Kw)	Rail width range W(mm)		Wire Rope Diameter (mm)	Wheel Diameter D(mm)	A (mm)	Hmin (mm)	Lifting height (m)
								I Beam	H Beam					
SHA8-2D	1	M7	2/1	10/1.6	3.2/0.45	20/5	2* 0.37/0.1	100`180	100`400	7	100	220	600	12/18/24/30
	1.25	M6	2/1	10/1.6										
	1.6	M5	2/1	10/1.6										
	2	M7	4/1	5/0.8									510	6/9/12/15
	2.5	M6	4/1	5/0.8										
	3.2	M5	4/1	5/0.8										
SHA8-3D	2	M6	2/1	10/1.6	6.0/0.9	20/5	2* 0.37/0.1	110`180	110`460	9	125	249	700	12/18/24/30
	2.5	M5	2/1	10/1.6										
	3.2	M4	2/1	10/1.6										
	4	M6	4/1	5/0.8									600	6/9/12/15
	5	M5	4/1	5/0.8										
	6.3	M4	4/1	5/0.8										
SHA8-4D	4	M6	2/1	10/1.6	9.5/1.5	20/5	2* 0.37/0.1	120`180	120`460	13	150	336	900	12/18/24/30
	5	M5	2/1	10/1.6										
	6.3	M4	2/1	10/1.6	12.5/1.9									
	8	M6	4/1	5/0.8	9.5/1.5		2* 0.75/0.18						800	6/9/12/15
	10	M5	4/1	5/0.8										
	12.5	M4	4/1	5/0.8	12.5/1.9									

Note: Inverter motor is for optional for lifting motor and travelling motor

SHA8

Double Girder Hoist

SHA8 Double girder hoist-BS/BZ type

Model	Rope Reeving	Capacity/ ISO Duty																Drum Diameter	Wire Rope Diameter
		1.6	2.5	3.2	5	6.3	8	10	12.5	16	20	25	32	40	50	63	80	100	mm	mm
SHA8-3	2/1	M6	M5	M4															193	9
	4/1			M6	M5	M4														
SHA8-4	2/1			M6	M5	M4													271	13
	4/1						M6	M5	M4											
SHA8-5	2/1						M6	M5	M4										327	18
	4/1									M6	M5	M4								
	8/2									M6	M5	M4								13
	12/2											M6	M5							
	8/2D												M6	M5	M4					18
	10/2D													M6	M5	M4				
SHA8-6	2/1								M6	M5	M4								405	20
	4/1											M6	M5	M4						
	8/2											M6	M5	M4						15
	12/2													M6	M5	M4				
	16/2														M6	M5	M4			
	8/2D															M5	M4			20
	10/2D																M5	M4		

Note：D is double drum structure

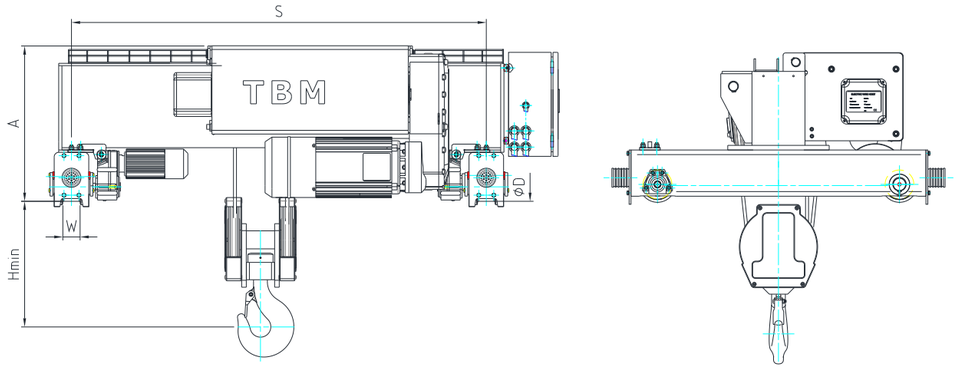
SHA8 Double Girder Hoist

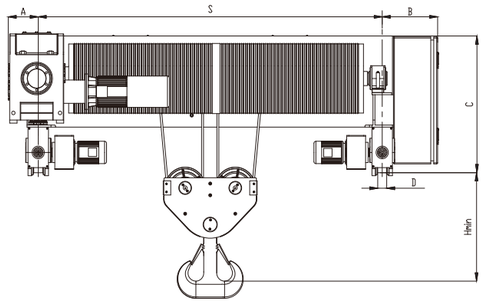
SHA8 Winch

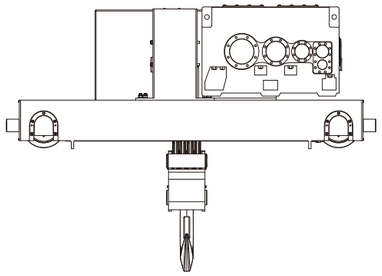
Technical Parameters

Model	Rope Reeving	Lifting Motor	Lifting Speed	Travelling Motor	Travelling Speed	Wheel Diameter D	Hmin	A	W	Rail Gauge S	Lifting height
		(kw)	(m/min)	(kw)	(m/min)	(mm)	(mm)	(mm)	(mm)	(mm)	(m)
SHA8-3	2/1	6.0/0.9	10/1.6	2*0.37	0-20	125	450	550	65	1200-2000	12-30
	4/1		5/0.8	2*0.37	0-20	125	350	550	65	1200-2000	6-15
SHA8-4	2/1	9.5/1.5（12.5/1.9）	10/1.6	2*0.37	0-20	125	600	650	65	1400-2300	12-30
	4/1		5/0.8	2*0.55	0-20	125	500	650	65	1400-2300	6-15
SHA8-5	2/1	18. 8/2.9	8/1.2	2*0.55	0-20	125	750	780	65	1400-2700	12-40
	4/1		4/0.6	2*1.1	0-20	160	750	800	75	1400-2700	6-20
	8/2		4/0.6	2*1.1	0-20	160	900	800	75	1700-3000	10-20
	12/2		2.7/0.4	2*1.5	0-20	200	1200	900	85	1700-3000	6.5-13
	8/2D	2* 18. 8/2.9	4/0.6	2*2.2	0-20	250	1000	1100	90	1700-3400	6-20
	10/2D		3.2/0.5	2*3	0-20	315	1300	1150	95	1700-3400	7-16
SHA8-6	2/1	38	0-9.8	2*1.1	0-20	160	1000	1000	75	1700-3000	12-45
	4/1		0-4.9	2*1.5	0-20	200	1000	1100	85	1700-3000	6-22.5
	8/2		0-4.9	2*1.5	0-20	200	900	1100	85	2000-3400	9-22.5
	12/2		0-3.3	2*3	0-20	315	1500	1200	95	2000-3400	6-15
	16/2		0-2.45	2*4	0-20	400	2500	1200	105	2000-3400	4.5-11
	8/2D	2*38	0-4.9	2*4	0-20	400	1200	1400	105	2000-3400	6-22.5
	10/2D		0-3.9	2*4	0-20	400	2000	1400	105	2000-3400	7-18

Note：D is double drum structure:SHA8-6 type lifting motor is frequency control, other models also can choose frequency control motor

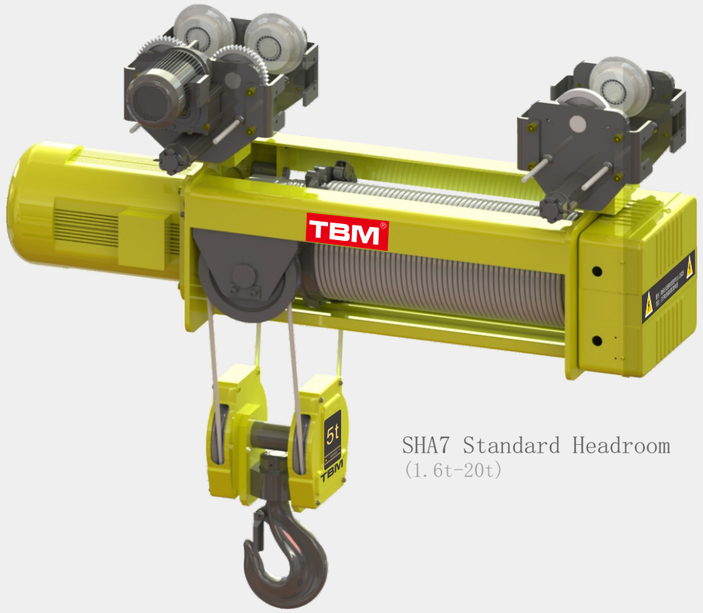




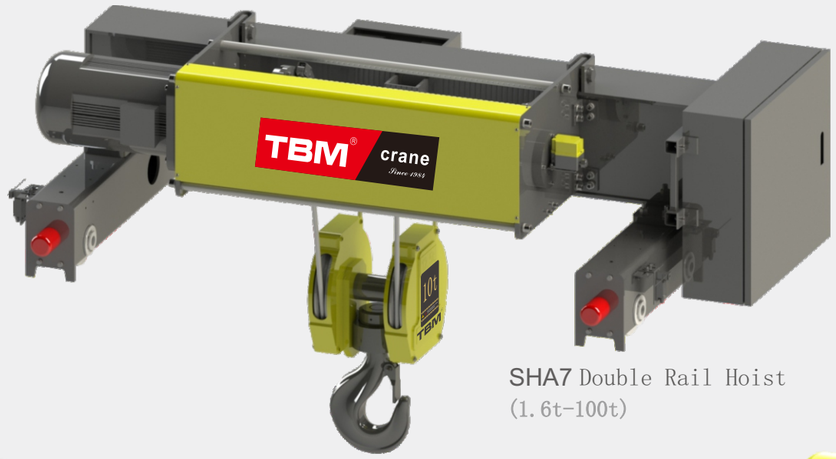


Technical Parameters

Model	Capacity (t)	Duty	Rope Reeving	Lifting Speed (m/min)	Lifting Motor (kw)	Travelling Speed (m/min)	Travelling Motor (kw)	A mm	B mm	C mm	D mm	Hmin mm	Wire Rope Diameter φ mm	Rail Gauge (S)					Size
														9m	12m	18m	24m	30m	
SHA-W1	20	M5	4/2	0~4.4	18.5	0~20	2×1.1	280	500	1100	75	800	15	/	/	1800	2000	2500	S
	32	M5	8/2	0~2.7	18.5	0~20	2×1.5	280	500	1100	75	900	15	1500	1800	2200	2700	3200	S
	40	M5	8/2	0~2.2	18.5	0~20	2×2.2	280	530	1100	85	1000	15	1800	2000	2500	3000	3600	S
	50	M5	12/2	0~3	18.5	0~20	2×2.2	280	530	1100	85	1000	15	1800	2000	2500	3000	3600	S
SHA-W2	32	M5	4/2	0~6	22	0~20	2×1.5	400	530	1400	75	800	18	/	/	1500	1800	2000	S
	63	M5	8/2	0~3	22	0~20	2×3	400	530	1400	85	1000	18	1500	1800	2200	2500	3000	S
	80	M5	12/2	0~2	38	0~20	2×4	400	600	1400	95	1050	18	1800	2200	2800	3500	4200	S
	100	M5	16/2	0~1.5	38	0~20	2×4	400	600	1400	95	1100	18	2200	2500	3500	4300	/	S



SHA7 Standard Headroom
(1.6t-20t)



SHA7 Double Rail Hoist
(1.6t-100t)

SHA7 Foot-mounted Hoist
(1.6t-20t)

SHA7 Low Headroom
(1.6t-10t)

SHA7 Standard Headroom
(1.6t-20t)

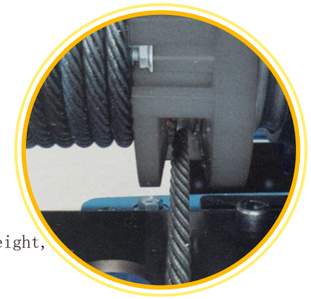
SHA 7

Low-headroom Electric Wire Rope Hoist

Electronic unit

- Stable and durable contactor control, reliably work in bad condition
- Standard three phase voltage:380-415v,50hz(440-480v,60hz)
- Standard control voltage:48v
- Sturdy and durable control panel, IP54 protecting level

Rope guider



- Circular design
- Precise rope guide system
- High performance engineering material,light weight, sturdy and reliable

Wire Rope

- High strength pressed solid galvanized wire rope
- 1770N/mm² tensile strength
- More 5 times safety factor
- Good flexibility and long service life
- 40% smaller than traditional wire rope
- Press rope block for special use, intensively layout to prevent form loose, fastening is more reliable
- Fusible cutout rope technology,fusible surface is firm
- Effectively prevent from loose to extend service life

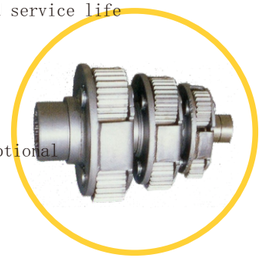
Control System

- Automatic orientation
- Automatic centering
- Automatic rectify deviation
- Inch moving ,joggle
- Anti-shock
- Regional Protection
- Electronic anti-sway
- Remote communication, digital maintenance

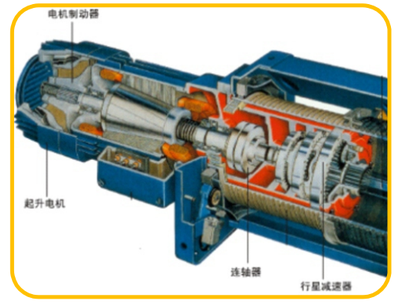
Travelling driving unit

- Motor,gearbox and brake three-in-one
- Compact structure ,small size and light weight
- Direct drive flexible design, stable torque transfer
- 30% rotational efficiency higher than traditional coupling
- Suitable for frequency reverse switching
- Squirrel cage variable frequency motor, 60% ED
- IP55 protecting level, H level insulation
- Safe and reliable DC brake
- Aluminum alloy shell, hard tooth surface reducer, well sealing without oil leakage

Lifting drive unit



- High reliability single speed lifting motor,optional double speed.
- IP54 protecting level, B level insulation
- High-tech totally enclosed planetary gearbox
- Quenched and fine ground gear makes motor stable and low notice
- Free maintenance design:no need to change lubrication oil in lifetime
- Reliable and safety brake,without asbestos
- The safety factor of brake is higher than 180%, manual release for optional

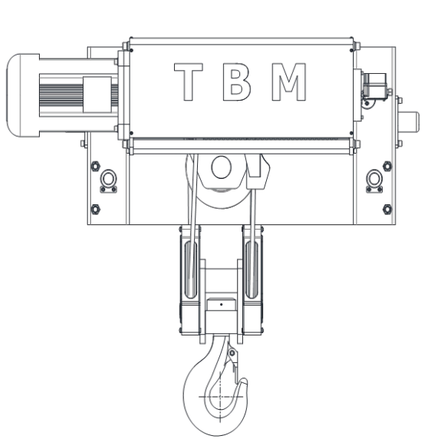


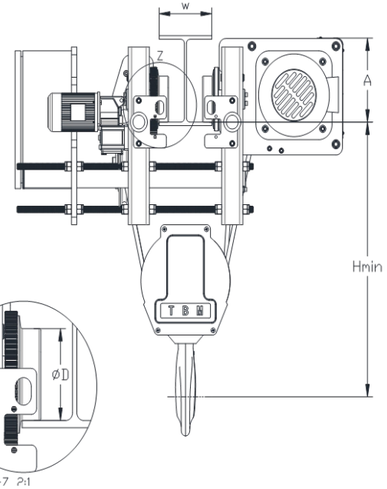
Hook Assembly

- Match to the standard of DIN15400/15401, forged by high strength alloy steel
- With safety latch to protect safely
- 360° horizontal and 180° vertical rotationsoperation easily
- High strength extrusion pulley, high finish rope groove to avoid friction with wire rope

SHA7

Low Headroom Wire Rope Hoist





Technical Parameters

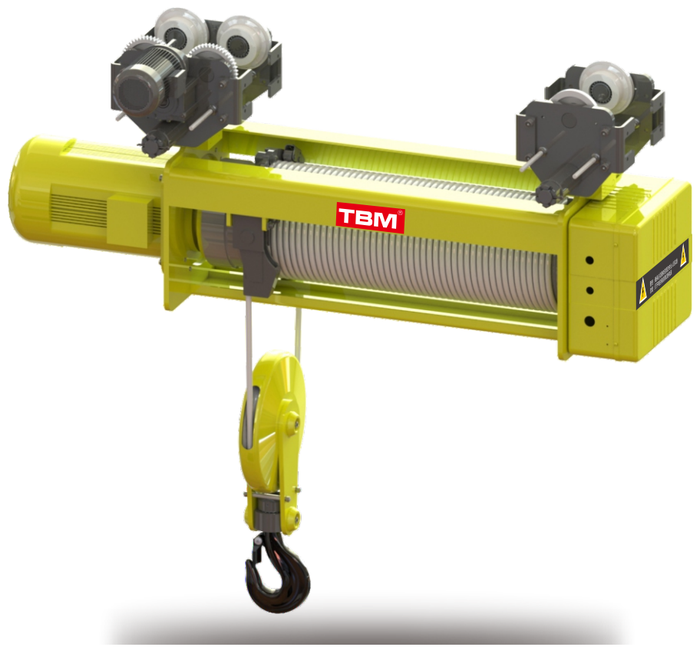
Model	Capacity（t）	Working Grade	Rope Reeving	Lifting Speed（m/min）	Lifting Motor（kw）	Travelling Speed（m/min）	Travelling Motor (kw)	Rail Width Range W（mm）		Wire Rope Diameter（mm）	Wheel Diameter D（mm）	A（mm）	Hmin（mm）	Lifting Height（m）
								I-Beam	H-Beam					
SHA7-4D	1.6	M4	2/1	9/2.2	3/0.8	20/5	0.37/0.1 ×2	100-180	100-400	8	100	220	600	12/18/24/30
	3.2	M4	4/1	4.5/1.1	3/0.8	20/5	0.37/0.1 ×2	100-180	100-400	8	100	220	550	6/9/12/15
SHA7-5D	3.2	M4	2/1	8/2	4.5/1.1	20/5	0.37/0.1 ×2	110-180	110-460	11	125	220	750	9/12/18/24
	6.3	M4	4/1	4/1	4.5/1.1	20/5	0.37/0.1 ×2	110-180	110-460	11	125	220	650	6/9/12
SHA7-6D	5	M4	2/1	8/2	7.5/2	20/5	0.37/0.1 ×2	120-180	120-460	13	150	270	950	12/18/24/30
	10	M4	4/1	4/1	7.5/2	20/5	0.75/0.18 ×2	120-180	120-460	13	150	270	850	6/9/12/30

NOTE:Both Lifting and Travelling motor can be equipped with single speed or inverter motor,The power value is the fast power value.

SHA7

Monorail Electric Wire Rope Hoist

- European safety and protection standard, High stability and efficiency.
- Better quality and cost-effective
- Quality products,excellent cost performance

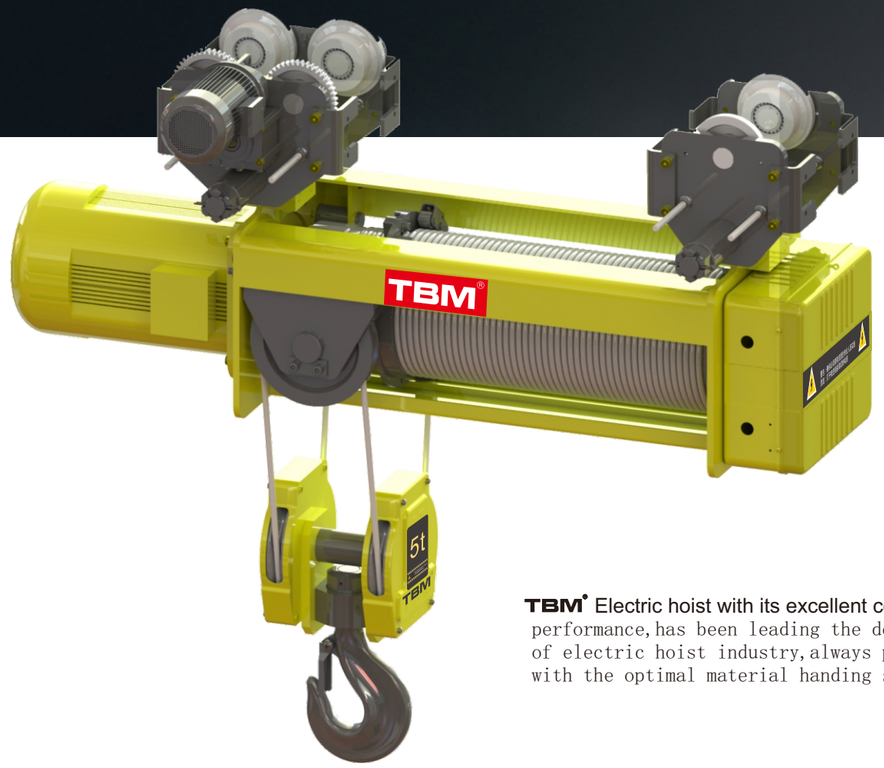


SHA7 Monorail Electric Wire Rope Hoist

1.Light weight ,small size,compact structure,smooth operation; especially suitable for the high lifts and short turning radius.
2.High strength suspension bolts allow the hoist to adopt flexible beam flange width;
3.Modular design of control box adopts first-class brand of electrical components ,protection for Phase fault , phase deficiency and short circuit.Frequency control system(VVFD) is available(optional) to make the operations more safe and smooth.
4.Integrated travel motion gear motor drive unit ensures smooth operation,long life and low noise;
5.The planetary gearbox has advantages of light weight ,compact size,high efficiency,stable oepration and low noise.
6.Based on traditional CD/MD type hoist,TBM has improved to SHA7 that makes it superior over similar products.

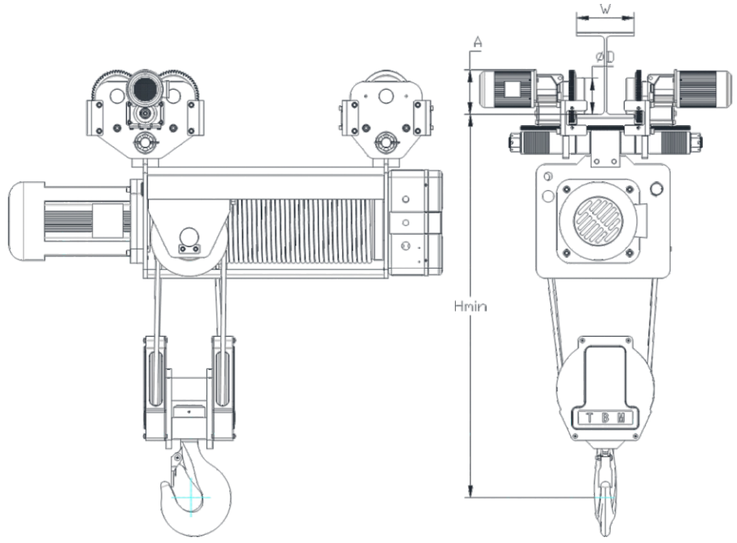
SHA7

Monorail Electric Wire Rope Hoist



TBM® Electric hoist with its excellent cost performance,has been leading the development of electric hoist industry,always provide customers with the optimal material handing scheme

Detailed design ensures smart appearance of the hoist ,integrated with high strength trolley assembly, drive motor,modular control box etc.It also ensures safety,reliability and cost-effectiveness.



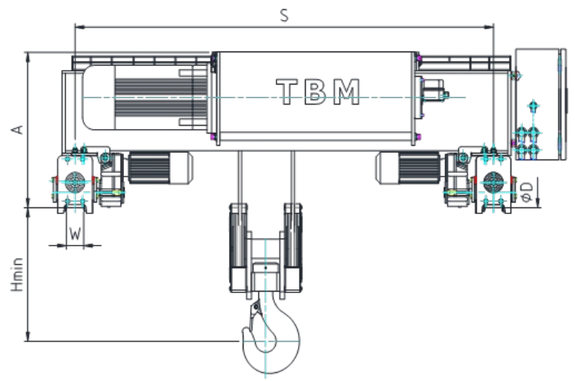
Technical Parameters

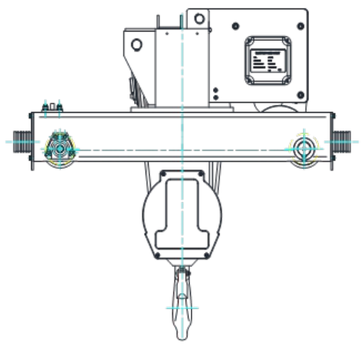
Model	Capacity（t）	Working Grade	Rope Reeving	Lifting Speed（m/min）	Lifting Motor（kw）	Travelling Speed（m/min）	Travelling Motor (kw)	Rail Width Range W（mm）		Wire Rope Diameter（mm）	Wheel Diameter D（mm）	A（mm）	Hmin（mm）	Lifting Height（m）
								I-Beam	H-Beam					
SHA7-4B	1.6	M4	2/1	9/2.2	3/0.8	20/5	0.37/0.1	100-180	100-420	8	100	157	1050	9/12/18/24/30
	3	M4	4/1	4.5/1.1	3/0.8	20/5	0.37/0.1	100-180	100-420	8	100	157	1000	6/9/12/15
SHA7-5B	3	M4	2/1	8/2	4.5/1.1	20/5	0.37/0.1	100-180	100-420	11	100	157	1200	9/12/18/24/30
	6.3	M4	4/1	4/1	4.5/1.1	20/5	0.75/0.18	110-180	110-420	11	100	157	1100	6/9/12/15
SHA7-6B	5	M4	2/1	8/2	7.5/2	20/5	0.75/0.18	110-180	110-420	13	100	157	1300	9/12/18/24/30
	10	M4	4/1	4/1	7.5/2	20/5	0.75/0.18×2	120-180	120-460	13	125	160	1300	6/9/12/15
SHA7-7B	10	M4	2/1	7/1.8	13/3.4	20/5	0.75/0.18×2	120-180	120-460	18	125	160	1450	9/12/18/24/30
	20	M4	4/1	3.5/0.9	13/3.4	20/5	0.75/0.18×2	130-180	130-300	18	150	180	1400	6/9/12/15

NOTE:Both Lifting and Travelling motor can be equipped with single speed or inverter motor,The power value is the fast power value.

SHA7

Double-rail Hoist





Technical Parameters

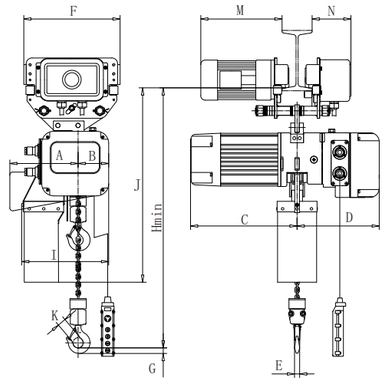
Model	Rope Reeving	Capacity	Lifting Motor	Lifting Speed	Travelling Motor	Travelling Speed	Wheel Diameter	Hmin	A	W	Rail Gauge S	Lifting Height	ISO/GB Working Grade	Drum Diameter	Wire Rope Diameter
		(t)	(kw)	(m/min)	(kw)	(m/min)	(mm)	(mm)	(mm)	(mm)	(mm)	(m)		mm	mm
SHA7-5BS	2/1	3	4.5/1.1	8/2	2*0.37	0~20	125	450	550	65	1200~2000	12~30	M4	247	11
	4/1	6.3		4/1	2*0.37	0~20	125	350	550	65	1200~2000	6~15	M4		
SHA7-6BS	2/1	5	7.5/2	8/2	2*0.37	0~20	125	600	650	65	1400~2300	12~30	M4	275	13
	4/1	10		4/1	2*0.55	0~20	125	500	650	65	1400~2300	6~15	M4		
SHA7-7BS	2/1	10	13/3.4	7/1.8	2*0.55	0~20	125	750	780	65	1400~2600	9~36	M4	327	18
	4/1	20		3.5/0.9	2*0.75	0~20	160	750	800	75	1400~2600	6~18	M4		
	8/2	20		3.5/0.9	2*0.75	0~20	160	900	800	75	1700~3000	9~18	M4		13
	12/2	30		2.3/0.6	2*1.1	0~20	200	1200	900	85	1700~3000	6~12	M4		
SHA7-9BS	2/1	16	18.5/4.6	6/1.5	2*0.75	0~20	160	1000	1000	75	1700~3000	12~45	M4	405	20
	4/1	32		3/0.75	2*1.1	0~20	200	1000	1100	85	1700~3000	6~22.5	M4		
	8/2	32		3/0.75	2*1.1	0~20	200	900	1100	85	2000~3400	9~22.5	M4		15
	12/2	48		2/0.5	2*1.5	0~20	250	1500	1200	90	2000~3400	6~15	M4		
SHA7-10BS	2/1	20	22/5.5	6/1.5	2*0.75	0~20	160	1000	1000	75	1700~3000	12~45	M4	405	20
	4/1	40		3/0.75	2*1.5	0~20	200	1000	1100	85	1700~3000	6~22.5	M4		
	8/2	40		3/0.75	2*1.5	0~20	200	900	1100	85	2000~3400	9~22.5	M4		15
	12/2	60		2/0.5	2*2.2	0~20	315	1500	1200	95	2000~3400	6~15	M4		
	16/2	80		1.5/0.38	2*3	0~20	400	2500	1200	105	2000~3400	4.5~11	M4		
	8/2D	80	2* 22/5.5	3/0.75	2*3	0~20	400	1200	1400	105	2000~3400	6~22.5	M4		20
	10/2D	100		2.4/0.6	2*4	0~20	400	2000	1400	105	2000~3400	7~18	M4		

NOTE: D is for Double Drum structure,Lifting and Travelling motor can be equipped with single speed or inverter motor.The power value is the fast power value

SHH-EC

ISO9001 ISO14001

ELECTRIC CHAIN HOIST WITH
ELECTRIC TROLLEY



Technical Parameter

Model	Capacity	Classification FEM/ISO	Duty Rating %ED	Lifting Speed m/min	Lifting Motor Power Kw	Load Chain mm	Load Chain Falls	Traveling Speed m/min	Traveling Motor Power Kw	Beam Flange mm	Net Weight kg
SHH-EC003S1	250kg	2m/M5	50	7	0.9	Φ5x15	1	13.5	0.2	74-140	71
SHH-EC003D1			33/17	7/2.3	0.9/0.3			20/6.7	0.2/0.067		95
SHH-EC003H1		1Am/M4	26/14	14/3.5	1.6/0.4			20/6.7	0.2/0.067		96
SHH-EC005S1	500kg	2m/M5	50	7.6	0.9	Φ6.3x19	1	13.5	0.2	74-140	72
SHH-EC005D1			33/17	7.6/2.5	0.9/0.3			20/6.7	0.2/0.067		96
SHH-EC005H1		1Am/M4	26/14	15/3.8	1.6/0.4			20/6.7	0.2/0.067		97
SHH-EC010S1	1t	2m/M5	50	5	1.1	Φ8x24	1	13.5	0.2	74-140	76
SHH-EC010D1			33/17	5/1.7	1.1/0.37			20/6.7	0.2/0.067		100
SHH-EC010H1		1Am/M4	26/14	10/2.5	2.2/0.55			20/6.7	0.2/0.067		99
SHH-EC020S2	2t	2m/M5	50	2.5	1.1	Φ8x24	2	13.5	0.4	74-140	97
SHH-EC020D2			33/17	2.5/0.9	1.1/0.37			20/6.7	0.4/0.13		111
SHH-EC020H2		1Am/M4	26/14	5/1.3	2.2/0.55			20/6.7	0.4/0.13		110
SHH-EC020S1	2t	2m/M5	50	6.6	3.6	Φ10x30	1	13.5	0.4	100-170	152
SHH-EC020D1			33/17	6.6/2.2	3.6/1.2			18/6	0.4/0.13		178
SHH-EC030S1	3t	2m/M5	50	6	3.6	Φ11.2x34	1	13.5	0.4	100-170	154
SHH-EC030D1			33/17	6/2	3.6/1.2			18/6	0.4/0.13		180
SHH-EC050S2	5t	2m/M5	50	3	3.6	Φ11.2x34	2	13.5	0.75	100-170	192
SHH-EC050D2			33/17	3/1	3.6/1.2			18/6	0.75/0.25		222

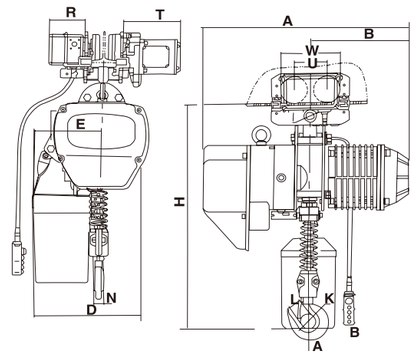
Model	Capacity	Hmin	A	B	C	D	E	F	G	I	J	K	M	N
SHH-EC003S1	250kg	476	200	102	302	273	18	320	22	295	690	27	290	130
SHH-EC003D1	250kg	476	200	102	334	273	18	320	22	295	690	27	336	130
SHH-EC003H1	250kg	476	200	102	354	273	18	320	22	295	690	27	336	130
SHH-EC005S1	500kg	476	200	102	302	273	18	320	22	295	690	27	290	130
SHH-EC005D1	500kg	476	200	102	334	273	18	320	22	295	690	27	336	130
SHH-EC005H1	500kg	476	200	102	354	273	18	320	22	295	690	27	336	130
SHH-EC010S1	1t	506	200	102	302	273	20	320	25	295	690	31	290	130
SHH-EC010D1	1t	506	200	102	354	273	20	320	25	295	690	31	336	130
SHH-EC010H1	1t	506	200	102	484	273	20	320	25	295	690	31	336	130
SHH-EC020S2	2t	678	243	59	302	273	27	320	43	295	690	38	315	132
SHH-EC020D2	2t	678	243	59	354	273	27	320	43	295	690	38	338	132
SHH-EC020H2	2t	678	243	59	484	273	27	320	43	295	690	38	338	132
SHH-EC020S1	2t	670	243	165	358	336	27	370	43	460	810	38	319	135
SHH-EC020D1	2t	670	243	165	451	336	27	370	43	460	810	38	338	135
SHH-EC030S1	3t	670	243	165	358	336	27	370	43	460	810	38	319	135
SHH-EC030D1	3t	670	243	165	451	336	27	370	43	460	810	38	338	135
SHH-EC050S2	5t	890	298	110	358	336	35	410	51	460	830	52	359	135
SHH-EC050D2	5t	890	298	110	451	336	35	410	51	460	830	52	389	135

- *beam flange request is for optional.*
- *single phase is for optional.*
- *above parameter is for 380V~415V/50HZ/3PH standard.*

SHK-AM

ISO9001 ISO14001

ELECTRIC CHAIN HOIST WITH
ELECTRIC TROLLEY



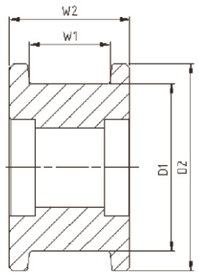
Technical Parameter

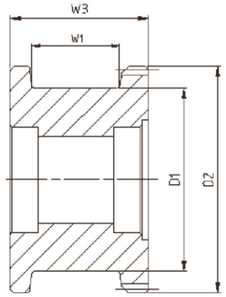
Model	Capacity	Classification FEM/ISO	Duty Rating %ED	Lifting Speed m/min	Lifting Motor Power Kw	Traveling Speed m/min	Traveling Motor Power Kw	Beam Flange mm	Load Chain mm	Load Chain Falls	Net Weight kg
SHK-AM005S1	500kg	1Am/M4	30	7.2	1.1	11	0.4	75 -178	6.3	1	83
SHK-AM005D1			20/10	7.2/2.4	1.1/0.37						90
SHK-AM010S1	1t	1Am/M4	30	6.8	1.5	11	0.4	75 -178	7.1	1	101
SHK-AM010D1			20/10	6.8/2.3	1.5/0.5						111
SHK-AM020S2	2t	1Am/M4	30	3.4	1.5	11	0.4	82 -178	7.1	2	116
SHK-AM020D2			20/10	3.4/1.1	1.5/0.5						126
SHK-AM020S1	2t	1Am/M4	30	6.6	3.0	11	0.4	82 -178	10	1	153
SHK-AM020D1			20/10	6.6/2.2	3.0/1.0						171
SHK-AM030S2	3t	1Am/M4	30	3.3	3.0	11	0.75	100-178	10	2	205
SHK-AM030D2			20/10	3.3/1.1	3.0/1.0						225
SHK-AM030S1	3t	1Am/M4	30	5.6	3.0	11	0.75	100-178	11.2	1	189
SHK-AM030D1			20/10	5.6/1.8	3.0/1.0						209
SHK-AM050S2	5t	1Am/M4	30	2.8	3.0	11	0.75	112-178	11.2	2	221
SHK-AM050D2			20/10	2.8/0.9	3.0/1.0						241

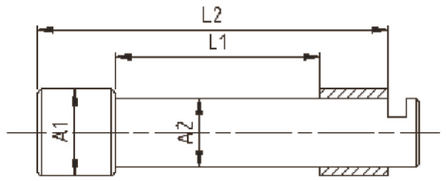
Model	Capacity	Hmin	A	B	D	E	I	K	L	N	W	U	R	T
SHK-AM005S1	500kg	635	460	230	288	165	31	31	29	20	180	100	140	159
SHK-AM005D1			545	260										
SHK-AM010S1	1t	650	520	260	300	176	31	42	32	24	207	113	142	231
SHK-AM010D1			582											
SHK-AM020S2	2t	815	520	260	300	236	36	49	40	30	237	127	142	231
SHK-AM020D2			582	280										
SHK-AM020S1	2t	770	615	295	430	265	36	49	40	30	237	127	142	231
SHK-AM020D1			670	313										
SHK-AM030S2	3t	930	615	295	430	320	43	59	48	35	265	140	142	231
SHK-AM030D2			670	313										
SHK-AM030S1	3t	830	615	295	430	265	43	59	48	35	265	140	142	231
SHK-AM030D1			670	313										
SHK-AM050S2	5t	1015	615	295	430	325	54	60	48	43	296	156	142	231
SHK-AM050D2			670	313										

- *beam flange request is for optional.*
- *single phase is for optional.*
- *above parameter is for 380V~415V/50HZ/3PH standard.*

W Wheel Parameter Table (European Size)

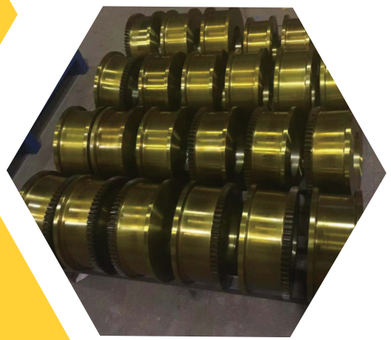


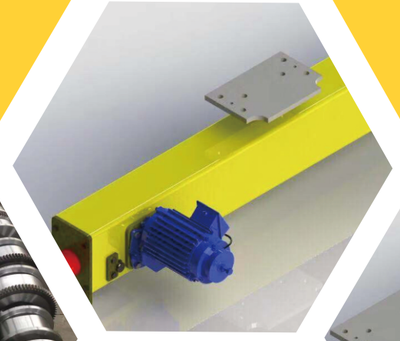


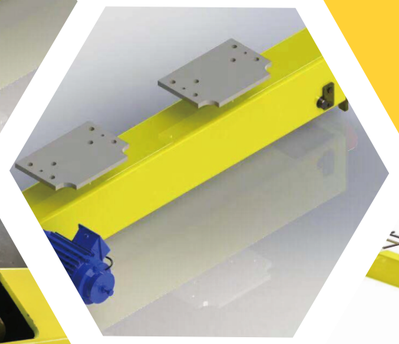


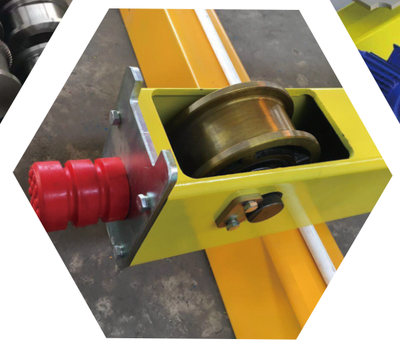
Model	Load (KN)	D1 (mm)	D2 (mm)	W1 (mm)	W2 (mm)	W3 (mm)	L1 (mm)	L2 (mm)	A1 (mm)	A2 (mm)	Gear modulus
W125	12.5	125	155	60	90	95	90	154	48	40	M3/ M3.5
W160	25	160	190	70	100	105	100	154	58	50	M3/ M3.5/ M4
W200	45	200	230	70	100	105	100	154	58	50	M3/ M3.5/ M4
W250	62	250	280	80	110	115	110	204	68	60	M4/M5
W315	87	315	355	90	120	125	150	204	78	70	M4/M5
W400	100	400	440	100	130	140	130	204	88	80	M5/M6
W500	160	500	546	100	130	140	130	204	108	100	M6/M7

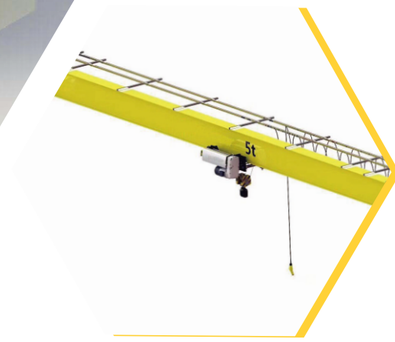
Application of Wheel Motor Products



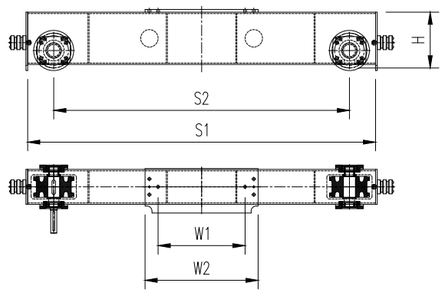








End Carriages for Single Girder Cranes

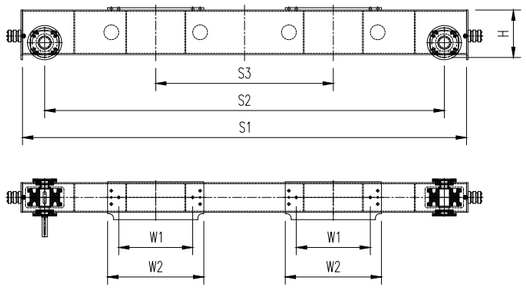


Technical Parameters

Model	Application of crane model	Rectangular Steel tube	Wheel Size	Motor power (30m/min)	S1 (mm)	S2 (mm)	W1 (mm)	W2 (mm)	H (mm)
UL125-15	3.2t-7.5m	150x200x8	U125x60	FA27-0.55kW-73	1500	1280	400	550	212.5
UL125-20	3.2t-11.5m				2000	1780	400	550	212.5
UL125-25	3.2t-16.5m				2500	2280	400	550	212.5
UL125-30	3.2t-22.5m				3000	2780	500	650	212.5
UL125-35	3.2t-28.5m				3500	3280	600	750	212.5
UL160-15	6.3t-7.5m	150x250x8	U160x70	FA37-0.75kW-60	1500	1200	400	550	270
UL160-20	6.3t-11.5m				2000	1700	400	550	270
UL160-25	6.3t-16.5m				2500	2200	400	550	270
UL160-30	6.3t-22.5m				3000	2700	500	650	270
UL160-35	6.3t-28.5m				3500	3200	600	750	270
UL200-20	12.5t-11.5m	200x300x10	U200x70	FA47-1.1kW-48	2000	1700	500	650	320
UL200-25	12.5t-16.5m				2500	2200	500	650	320
UL200-30	12.5t-22.5m				3000	2700	600	750	320
UL200-35	12.5t-28.5m				3500	3200	600	750	320
UL250-20	16t-11.5m	200x400x10	U250x90	FA57-1.5kW-39	2000	1600	500	650	425
UL250-25	16t-16.5m				2500	2100	600	750	425
UL250-30	16t-22.5m				3000	2600	600	750	425
UL250-35	16t-28.5m				3500	3100	700	850	425
UL315-30	20t-16.5m	200x400x10	U315x90	FA67-2.2kW-32	3000	2500	600	750	430
UL315-35	20t-22.5m				3500	3000	600	750	430
UL315-40	20t-28.5m				4000	3500	700	850	430

End carriage includes wheels, motors, rubber buffers, main beam connecting plates and bolts.

End Carriages For Double Girder cranes

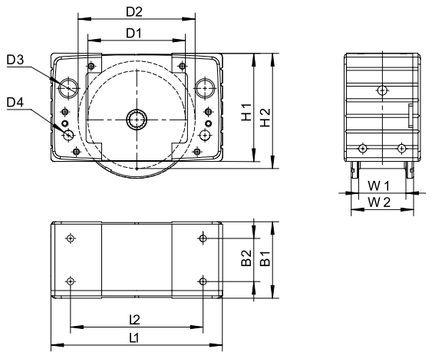


Technical Parameters

Model	Application of crane model	Rectangular Steel tube	Wheel Size	Motor power	S1 (mm)	S2 (mm)	S3 (mm)	W1 (mm)	W2 (mm)	H (mm)
UD125-25	3.2t-11.5m	150x200x8	U125x60	FA27-0.75kW-75	2500	2280	1200-1400	400	550	212.5
UD125-30	3.2t-16.5m				3000	2780	1200-1400	400	550	212.5
UD125-35	3.2t-22.5m				3500	3280	1200-1400	500	650	212.5
UD125-40	3.2t-28.5m				4000	3780	1200-1400	600	750	212.5
UD160-25	6.3t-11.5m	150x250x8	U160x70	FA37-1.1kW-59	2500	2200	1200-1400	400	550	270
UD160-30	6.3t-16.5m				3000	2700	1200-1400	400	550	270
UD160-35	6.3t-22.5m				3500	3200	1200-1400	500	650	270
UD160-40	6.3t-28.5m				4000	3700	1200-1400	600	750	270
UD200-25	12.5t-11.5m	200x300x10	U200x70	FA47-1.5kW-48	2500	2200	1400-1600	500	650	320
UD200-30	12.5t-16.5m				3000	2700	1400-1600	500	650	320
UD200-35	12.5t-22.5m				3500	3200	1400-1600	600	750	320
UD200-40	12.5t-28.5m				4000	3700	1400-1600	600	750	320
UD250-35	16t-16.5m	200x400x10	U250x90	FA57-2.2kW-39	3500	3100	1600-1800	600	750	425
UD250-40	16t-22.5m				4000	3600	1600-1800	600	750	425
UD250-45	16t-28.5m				4500	4100	1600-1800	700	850	425
UD315-35	20t-16.5m	200x400x10	U315x90	FA77-3kW-32	3500	3000	1800-2000	600	750	430
UD315-40	20t-22.5m				4000	3500	1800-2000	600	750	430
UD315-45	20t-28.5m				4500	4000	1800-2000	700	850	430

End carriage includes wheels, motors, rubber buffers, main beam connecting plates and bolts.

DRS Wheel Block



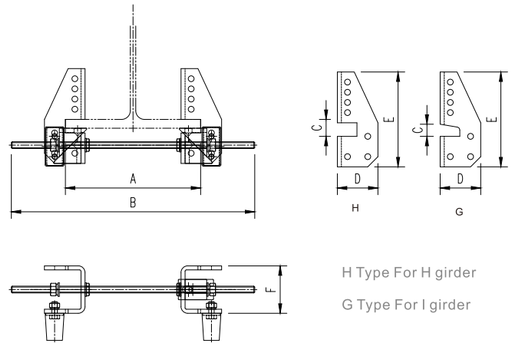
Main Features

Compact European type design, widely used in single beam and double beam cranes, also used in other non-standard products like floor operating trolleys etc.

Technical Parameters

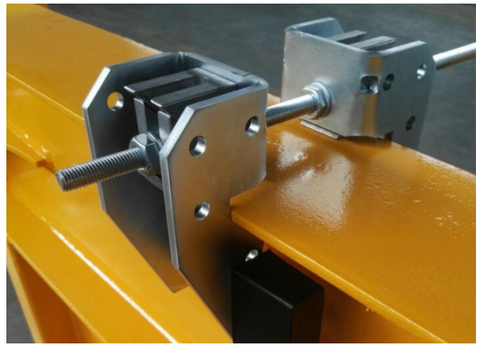
Model	Wheel Load (kN)	Motor (kW)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	H1 (mm)	H2 (mm)	W1 (mm)	W2 (mm)	L1 (mm)	B1 (mm)	L2 (mm)	B2 (mm)	N.W(kg)
DRS125-27	50	FA27-0.55	125	150	21	13	138	148	60	80	220	100	170	55	15.8
DRS160-37	70	FA37-0.75	160	190	30	17	177	187	70	90	275	110	220	55	27.8
DRS200-47	100	FA47-1.1	200	230	35	20	228	238	70	100	340	130	275	65	52.8
DRS250-57	160	FA57-1.5	250	280	40	34	270	296	80	110	385	150	290	80	80.7
DRS315-67	220	FA67-2. 2	315	355	50	40	306	350	90	130	470	180	360	80	151.9
DRS400-77	300	FA77-3. 0	400	440	65	31	384	440	110	155	580	215	440	120	224.3

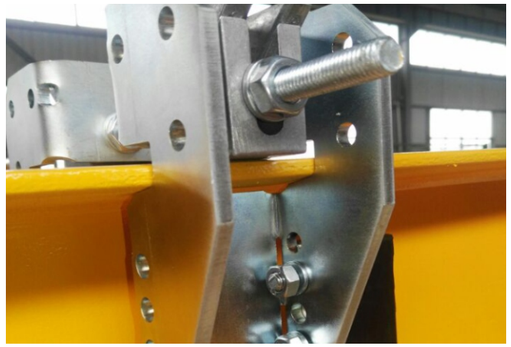
Stopper Block/End Stop Clamp



H Type For H girder

G Type For I girder





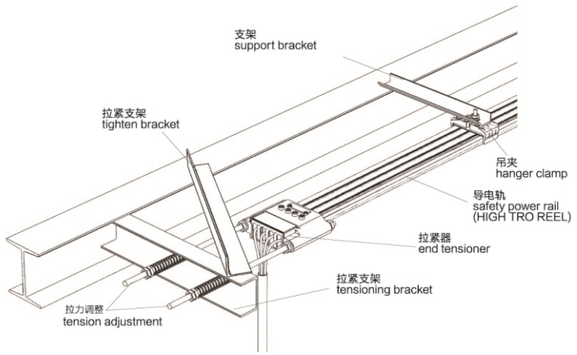
Main Features

Movable buffer block, easy to install, lock at four directions, widely used in I/H beam and box beam.

Technical Parameters

Model	A	B	C	D	E	F	Beam
H20-36	150-300	360	20	60	140	70	H
H30-63	300-550	630	30	60	150	70	H
G18-25	100-160	250	18	60	140	70	I

Seamless Conductor System



Model	Poles	Conductor cross section (mm²)	Max. current (A)
761003	3	3X10mm²	50A
761503	3	3X15mm²	80A
762003	3	3X20mm²	100A
762503	3	3X25mm²	120A
763503	3	3X35mm²	140A

Model	Poles	Conductor cross section (mm²)	Max. current (A)
761004	4	4X10mm²	50A
761504	4	4X15mm²+1X10mm²	80A
762004	4	4X20mm²+1X10mm²	100A
762504	4	4X25mm²+1X12.5mm²	120A
763504	4	4X35mm²+1X12.5mm²	140A

Model	Poles	Conductor cross section (mm²)	Max. current (A)
761006	6	6X10mm²	50A
761506	6	6X15mm²	80A

Main Features

Conductor material: Copper
Available up to 1000m without any joint
Insulation material: Rigid PVC (Heat resistance up to 75℃)
Available in load currents (3P, 4P) 35A,50A,65A,80A,100A,120A,140A and (6P) 50A,80A
Available in three types in order to meet required load current in cost effective way

EOT Crane Components

Main Features

The control panels are available in standard capacity, span combinations as well as are manufactured on the basis of custom requirements. The C track cables have short bending radius, wear resistance, oil-proof and cold-proof, provided with soft steel wire to prevent from damages due to tension.
C-track is easy to install. Trolleys can travel smoothly that avoid heavy load on the operator arms. Single track and double tracks are available as optional. Single track system is used for trolley power cable trailing. Double track system is used for trolley power cable trailing and pendant control cable trailing on a common support.

Manufacturing and Testing Facilities

Motor Insulation Equipment

Uses high efficient vacuum insulation through lots of steps, makes motor usable in extreme conditions delivering better performance and more competitiveness.

Laser Cutting Machine

High-precision equipment used for fast and precise cutting of steel plates

CNC Machining Centers

Various machines mainly used for processing motor shaft, rotor, drum and wheels.

Heat Treatment Machine

Used for heat treatments like quenching, tempering, annealing, and normalizing for hoist parts.

Special Purpose Machine

Special purpose machine for raw material machining of aluminum alloy body

Testing Equipments

TBM puts large amount efforts and finances to import various kinds of automatic testing equipments for the complete test of parts and whole hoists. The special purpose equipments and test rigs allow hoist to move from production to dispatch in one step. QC collects data and creates database for the development and perfection of hoists. The main equipments are motor type test machine, integrated testing platform, dynamic balancing machine, three-axis machine, thermo-metallurgical analysis machine.

Integrated Testing Platform

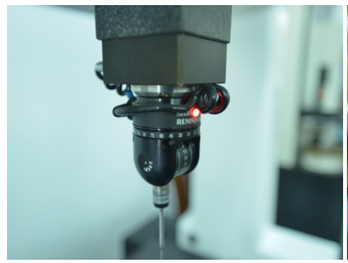
It is a custom designed testing rig used for the testing of voltage, temperature, current, noise, breaking system, load limiter and position limiter in the hoist.

Motor Type Test Machine

Mainly used for testing of voltage, current, input power, torque, rotation speed, output power, efficiency and power factor of motors.

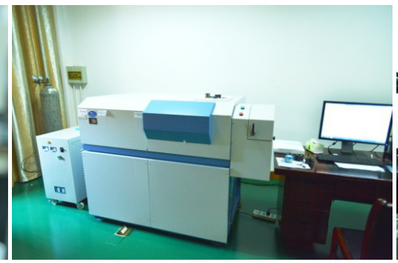
Dynamic Balancing Machine

Mainly used for the balancing of rotating parts like motor rotor, hoist drum and shafts.



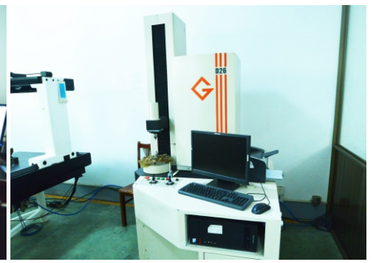
Three-Axis Machine

Mainly used for measurement of dimensional precision, positioning precision, geometric precision and profile degree.



Thermo Optical Emission Spectrometer

Analyses elements in metals and identify purity.



Gear Detection Center

Measure various shapes of gear to ensure the precision requirements that reduces noise and keeps gearbox reliable.

TBM brand has been leading the growth rate in the electric hoist industry with the most cost-effective solutions, and has been engaged in providing the best material handling solutions.