



Continuous Durable Material Handling Solution



Your Distributor Contact is:

CHENG DAY MACHINERY WORKS CO., LTD.

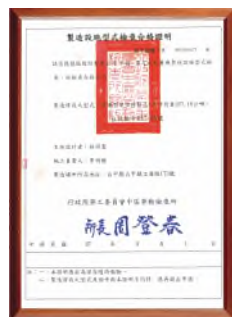
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- Revision of January, 2023 (Edition No.7) #950276
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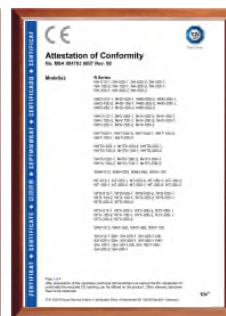
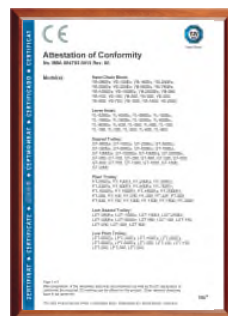


CHENG DAY MACHINERY WORKS CO., LTD.

Global Quality Certificate



Safety is our priority



- 2 Million US\$ Product Liability Insurance for global market
- 5 Million US\$ Product Liability Insurance for U.S.A. market



Company Profile

Cheng Day International Group has 4 business departments, Crane & Hoist dept., Elevator dept., Parking System dept., and Heavy Duty dept. We are devoted to Marketing Plan, Product Design, Manufacturing, Test, Installation, and After-Sales service. At present, we dispose 3 factories in Taiwan and China ~ Cheng Day Taiwan (Headquarter), Grand Asia Machinery Industry (Kunshan) Co., Ltd., and Kunshan Ching-Tu Elevator Co., Ltd. Overseas branches Black Bear Corp. in USA, & Osaka Japan. Sales nets are over 70 countries, 100 agents / distributors in the world. We OBM "Black Bear", "U-Mega" & "Yong Sheng", for standard products, and specialize custom made, besides, provide OEM / ODM solution for our renowned customers across the globe.

Our parts are made from top grade raw material and high strength alloys. Sophisticated manufacturing equipment such as CNC Horizontal Machining Centers, Robotic Welders and Precise Scanning Probes, Automatic test system for motor are used to insure the highest consistency and quality. Once hoists are assembled, they are individually tested and inspected using automated equipment and strict quality control standards.

We acquired the SGS ISO 9001 : 2015 , CE certificate, and domestic crane and hoist certifications, especially for the 8th Taiwan National Foundation Award winning, and National Industrial Innovation for Green Power motor. Besides, we are authorized Germany, U.S.A., Japan, Taiwan...patents for products. These assured the continued success to comply with international standard, keep on creating new products, as well as the pioneer in lifting equipments, and no doubt good reputation.



1971

1990

2000

2022

Company History

- 2022** ✖ In line with the National Green Energy Policy, workshop equipped with Solar Panels. "
- ✖ Developed "Offshore Davit Crane" and certified by TUV SUD CE.
- 2021** ✖ Extend Taiwan factory land and reconstruct workshop and new office building to now 36,000 m²
- 2017** ✖ Obtained Patent Certificate on "Intermittent turntable with rack lift device"
- ✖ Extend Permanent Magnetic Wire Rope Hoist series to capacity 50ton max.
- ✖ Extend Air Chain Hoist series to capacity 50ton max. And go for ATEX certification.
- 2015** ✖ Achieved " Specific Rope Guide and Planetary Geared Limit Switch Assembly "
- for Taiwan, Germany, Japan, China, United States patent.
- 2014** ✖ Parking Tower for training use
- 2013** ✖ Been honored of the 3rd National Industrial Innovation
- 2011** ✖ Cooperate with NHPS Japan for Parking System new business
- ✖ Extend territory to 35,000 m² & build new workshops in Taichung Taiwan
- 2010** ✖ Establish branch of parking system in Taipei, Taiwan
- 2008** ✖ 200 ton stationary crane certificate approved by Labor Inspection Institute of Executive Yuan
- 2005** ✖ Develop clean-room overhead crane for high tech industries
- 2004** ✖ Implement Orade Enterprise Resource Planning (ERP) system
- 2001** ✖ Establish Kunshan Ching Tu Elevator Co., Ltd. Shanghai China
- 2000** ✖ Achieve the "ISO 9001" certificate
- ✖ Achieve the "150 tons overhead crane with crab" certificate by Taiwan Power Co.
- 1999** ✖ The elevator certificate approved by Labor Inspection Institute, Executive Yuan
- ✖ The 150 tons stationary crane certificate approved by Labor Inspection Institute, Executive Yuan
- ✖ The 50 tons crane production and assembly certificate approved by Chiang Su Province, China
- 1998** ✖ Achieve the "CE" mark certificate ✖ Set up the Heavy Industry division
- ✖ Set up subsidiary in California U.S.A. "Black Bear Corp." & Osaka Japan
- 1997** ✖ Achieve the "ISO 9002" certificate ✖ Set up Elevator division
- ✖ Achieve the "Pattern Approval of Crane Fabrication" approved by the Department of Labor Affair Taiwan Government Labor Inspection Office
- 1994** ✖ Establish subsidiary Grand Asia Co., Ltd. in Shanghai China for producing manual hoists & electric full range hoists. And operates the sales marketing, installation and all technical service for China domestic market
- 1993** ✖ Cooperative education program with Taichung Industrial High School, industry goes into school
- 1992** ✖ New factory in Taiwan
- 1978** ✖ Cheng Day Machinery Works Co., Ltd., starts manufacturing electric chain hoist
- 1972** ✖ Established workshop, Yuan-Da Industrial Co. in manufacturing aluminum pattern

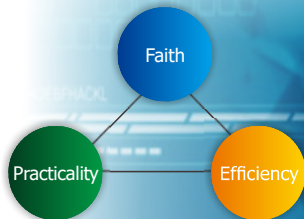


▲The winner of the 3rd national industrial innovation



▲The 8th National award of enterprise

Business Philosophy



CEO, Mr. I-Te Pan, Year 1971 since our establishment from the home-style assembly line in processing the machinery parts, during the old fashion way of handcrafted era in product making as well as lacked of resource altogether, we had no choice but multi-tasking from customer sourcing, sales order, production management, after-sales service, and accounting management personally. In 1978, the company new official name announced as Cheng Day Machinery Works Co. Ltd. We started to expand our sales in three continents and a worldwide-presence, with offica from China branch, United States, and Japan branch. Cheng Day has long been recognized as a leader through its scientific management system in developing elevator, heavy duty machinery, and parking system resulting in ever maximizing our business with high reputation worldwide.

Our brands



Cheng Day has proprietary brands Black Bear, U-Mega, and Yong Sheng for marketing purpose and allied with partners in Japan, and Germany to ensure mutual success. Mr. Pan indicated "Customers' satisfaction and expectation must be guaranteed 100% by way of professionalism, safety, and service through our best value-added products to maintain the long term relationship with them to create win-win solution", he attributed the key to continue success on "keep our talented R & D team in cutting edge", make Black Bear the right choice to satisfy client's most demanding hoist application, also embed industry best practices going into Green Business. As human orientation is the basis for an enterprise's move-on development. Optimized management, definite company strategy, take social responsibility, stress employee personal value, offer staffs a flexible platform to contribute themselves toward the career, cooperate with government organization & school to train more young generation. Cheng Day is committed to the highest standards of ethics and integrity. Our core values are rooted in our culture and everyday business practices

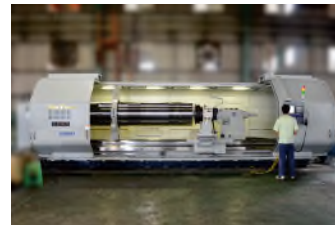
Main Equipment



Muti-function Robotic Arm Welding System



150 ton Horizontal tensile testing machine



CNC Lathe Machine



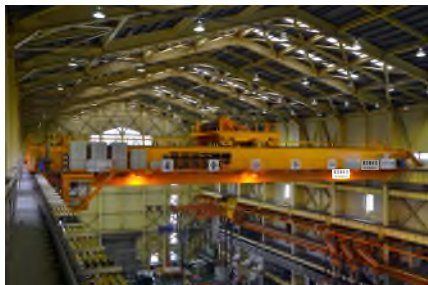
Milling Machine



TKS GT 800A 3D Scanning Probe for Highly Precise Measurements



Automatic Welding



● **Overhead Travelling Crane**
200/40/5 ton x 35 m x 22/23/20m



● **Overhead Travelling Crane**
■ 150 (100+50) ton x 30.1m x 16m
■ 80 (50+30) ton x 30m x 10m
■ 40 (30+10) ton x 30m x 10m
● **Travelling Wall-Bracket Crane**
2.5ton x 10.1m x 6m



● **Pillar Crane**
400(100x4)ton x 0.86m x 8.4m Pillar height 9.5m



● **Hydroelectric Equipment**



● **Provision Crane / Monorail Crane**



● **Goliath Gantry Crane**

Contents

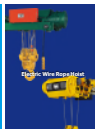
P10~P45



Electric Chain Hoist & Manual Hoist **CE**

- ECH series
- GT,PT series
- MT,MST series
- Manual series
- LGT,LPT series
- Low Headroom series
- NHD series
- BLFD series
- Air Chain Hoist series (Industrial Type)
- Windmill Hoist series
- Concert Hoist series

P46~P92



Electric Wire Rope Hoist

- WRH AC Brake series
- WRH DC Brake series
- WRH (USA) DC Brake series
- WRH PM series **CE**

P93~P106



Crane & Component

- Crab series
- Motor series
- End Truck series
- I-Beam Specification List

Electric Chain Hoist & Manual Hoist





1 Motor housing

- Aluminum alloy casting, rigid & light weight.
- Motor framed with radiant cooling fins, permits 40% (dual speed 40/20%, YSF-series 15%) duty cycle.

2 Motor brake

- "Electro - Magnetic Brake Controller" - a unique design in its field, R.O.C. Patent No. 27417 features simultaneous braking upon release of P.B. even under full load.

3 Limit switch

- Fitted at both top and bottom ends, shuts off power automatically to prevent load chain from running out.

4 Load chain

- Grade 80 case hardened alloy steel chain.

5 Hook

- Hot forged high tensile steel, rigid and durable, 360° swivel, fitting with safety latch to assure safe lifting.

6 Hoist bracket

- Double high - tensile alloy steel plate bracket, features rugged and durable construction.

7 Mechanical brake

- Advanced design, assures secure braking even under overload. In conjunction with motor brake, features "DOUBLE BRAKE SYSTEM" for safety and durability in hoist operation.

8 Transformer

- Power to pendant control reduced to 24V or 48V for safer operation.

9 Magnetic contactor

- High performance non-fuse circuit breakers allow frequent trouble cycling with free operation.

10 Phase error relay

- A specially designed electric board prevents motor from running at it reverse phased.

11 Push button pendant

- Offers light and durable switching controls.

Chain bucket selection table

Model	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#15	#16	#18	#19	#20	#22	#25	#27	#30	#31	#38	#40	#47	#50	#60
YSE-050 YSE(D)-050 YSL(D)-050 YSH(D)-050	07.1				#2				#3				#5-1	#4					#5-3		#5-4		#5-5	#5-6	
YSE-100 YSE(D)-100 YSL(D)-100 YSH(D)-100	07.1				#2				#3				#5-1	#4					#5-3		#5-4		#5-5	#5-6	
YSE-200 YSE(D)-200 YSL(D)-200 YSH(D)-200	07.1	#2	#3			#5-1	#4	#5-2	#5-3					#5-4	#5-5				#5-6						
YSL(D)-300 YSH(D)-300	07.1	#3	#4	#5-1	#5-2		#5-3					#5-5		#5-6											
YSS(D)-200 YSS(D)-250	010.0 011.2				#6								#7	#8-1					#8	#9	#10				
YSS(D)-300 YSS(D)-500	010.0 011.2	#6					#7	#8-1	#8	#9				#9	#10										
YSS(D)-750 YSS(D)-1000	011.2 011.2		#7	#8-1	#8	#9			#10					#10					#11						
YSS(D)-1500 YSS(D)-2000	011.2 011.2		#7	#8-1	#8	#9			#10					#10					#11						
YSS(D)-3000	011.2	#12			#13																				

Bucket No.	Bucket size (mm)	Material
#2	150X100X380L	canvas
#3	150X100X470L	canvas
#4	150X100X560L	canvas
#5-1	210X140X465L	steel
#5-2	210X160X545L	steel
#5-3	210X160X665L	steel
#5-4	210X170X815L	steel
#5-5	210X170X975L	steel
#5-6	210X170X1135L	steel

Bucket No.	Bucket size (mm)	Material
#6	190X190X440L	canvas
#7	190X190X560L	canvas
#8	190X190X680L	canvas
#8-1	400X210X605L	steel
#9	400X210X695L	steel
#10	400X210X770L	steel
#11	400X210X1105L	steel
#12	400X500X660L	steel
#13	400X500X867L	steel

Models available:

Capacity (ton)		0.5T	1T	2T	2.5T
3 Phase	Slipping Clutch	YSE	YSE-050	YSE-100	YSE-200
	Low Speed	YSL	YSL-050	YSL-100	YSL-200
			YLT-050	YLT-100	YLT-200
	High Speed	YSH	YSH-050	YSH-100	YSH-200
			YHT-050	YHT-100	YHT-200
	Heavy Speed	YSS			YSS-200
					YSS-250
	Dual Speed	YST			YST-200
		YSED	YSED-050	YSED-100	YSED-200
		YSLD	YSLD-050	YSLD-100	YSLD-200
		YLTD	YLTD-050	YLTD-100	YLTD-200
		YSHD	YSHD-050	YSHD-100	YSHD-200
		YHTD	YHTD-050	YHTD-100	YHTD-200
		YSSD			YSSD-250
		YSTD			YSTD-250
Single Phase		YSF	YSF-050	YSF-100	YSF-200

3T	5T	7.5T	10T	15T	20T	30T
YSL-300						
YLT-300						
YSH-300						
YHT-300						
YSS-300	YSS-500	YSS-750	YSS-1000	YSS-1500	YSS-2000	YSS-3000
YST-300	YST-500					
YSLD-300						
YLTD-300						
YSHD-300						
YHTD-300						
YSSD-300	YSSD-500	YSSD-750	YSSD-1000	YSSD-1500	YSSD-2000	YSSD-3000
YSTD-300	YSTD-500					

■ 0.5T, 1T



■ 2T



■ 3T



■ 5T



■ 7.5T



■ 10T



■ 20T



■ 30T



Capacity (ton)		0.5	1	2	0.5	1	2	0.5	1	
Lift Height (m)		3(6) etc.								
Load Chain (mm)		ø7.1			ø7.1			ø7.1		
Single Speed (m/min)	50Hz	YSF	5.6	3.9	2.0	6.7	4.7	2.3		
		YSL							6.7	4.7
		YSH							(9.2)	(6.7)
		YSS								
	60Hz	YSF	6.7	4.7	2.3	8.0	5.6	2.8		
		YSL							8.0	5.6
		YSH							(11.0)	(8.0)
		YSS								
Dual Speed (m/min)	50Hz	YSLD						6.7/2.2	4.7/1.6	
		YSHD						9.2/3.1	6.7/2.2	
		YSSD								
	60Hz	YSLD						8.0/2.7	5.6/1.9	
		YSHD						11/3.7	8.0/2.7	
		YSSD								
Motor (single speed) (kw)		1.8			1.8			1.5(1.8)		
Motor (dual speed) (kw)								1.8/0.6		
Power Supply		Single Phase 110V, 115V			Single Phase 220V, 230V			3Phase, 220V-600V		
E.D. Rating (%)		15			15			40		
Load Chain Fall Number		1		2	1		2	1		
N.W./G.W. (kg)		55/58.5		65/67	55/58.5		65/67	50.5/53		
Packing LXWXH (cm)		60X57X33			60X57X33			60X57X33		
Msmrnt (Cu.ft)		4			4			4		

※ Dual speed E.D. Rating = 40/20%

2	3	2	2.5	3	5	7.5	10	15	20	30
3(6) etc.										
ø7.1		ø10	ø11.2	ø10	ø11.2					
2.3	1.5									
3.3	2.2									
		6.6	5.2	4.3	2.6	1.8	2.6	1.8	1.3	0.9
2.8	1.8									
4.0	2.6									
		7.9	6.4	5.2	3.2	2.1	3.2	2.1	1.5	1.1
2.3/0.77	1.5/0.5									
3.3/1.1	2.2/0.73									
		6.6/2.2	5.2/1.7	4.3/1.4	2.6/0.87	1.8/0.6	2.6/0.87	1.8/0.6	1.3/0.43	0.9/0.3
2.8/0.93	1.8/0.6									
4.0/1.3	2.6/0.87									
		7.9/2.6	6.4/2.1	5.2/1.7	3.2/1.1	2.1/0.7	3.2/1.1	2.1/0.7	1.5/0.5	1.1/0.37
1.8		3.7					3.7X2	5.0X2		
1.8/0.6		3.7/1.23					3.7/1.23X2	5.0/1.7X2		
3Phase, 220V-600V		3Phase, 220V-600V								
40		40								
2	3	1	2		3	4	6	8	12	
61/64	73/96	125/155	130/160	140/170	153/183	195/230	410/470	510/580	890/990	1035/1135
60X57X33	62X52X50	73X57X51				73X70X70	86X80X75	140X85X97	170X105X167	175X110X185
4	5.7	7.5				12.6	18.3	40.8	105.3	125.8

YSE series

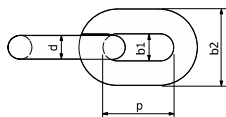


- Direct connection to power supply.
- Slipping clutch provides overload protection.
- No limit switch nor limit spring, reduces headroom.
- Optional low voltage, 24 volt, control available.

Capacity (ton)		0.5	1	2
Lift Length (m)		3 (6) etc.		
Single Speed (m/min)	50Hz	6.7	4.7	2.3
	60Hz	8.0	5.6	2.8
Motor (kw)		1.5	1.8	
Power Supply		3 Phase 220V-600V, 50Hz, 60Hz		
E.D Rating (%)		40		
Load Chain Fall Number		1	2	
N.W / G.W. (kg)		50.5 / 53		60.5/63
Packing L X W X H (cm)		60 X 57 X 33		
Msrmt (cu, ft)		4		

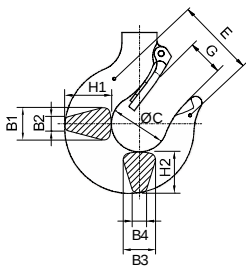
Load Chain

(Made in Japan / Europe)



Diameter d (mm)	Model Reference Being Used	Inner Length p (mm)	Inner Width b1 (mm)	Outer Width b2 (mm)	Breaking Load (kN)
Ø7.1	050-300 YSE YSL YSF YSH YL(H)T	20.2	8.2	23.2	63
Ø10.0	YSS(T)-200 YSS(T)-300	30.2	12.5	33.2	128
Ø11.2	YSS(T)-250 YSS(T)-500 YSS-750 YSS-1000 YSS-1500 YSS-2000 YSS-3000	34.0	14.0	37.5	160

Hook



Model	Capacity (ton)	T B	Dimensions (mm)									Allow Stress (kg/mm²)	Hook Block Weight (kg)
			H1	B1	B2	H2	B3	B4	C	G	E		
YSL,H,E,F	0.5,1	T B	33	23	9	29	23	9	40	28	60	70	*10
YSL,H,E,F	2	T B	45	31	10	41	31	10	46	36	75	70	*10
YSL,H	3	T B	55	34	19	48	34	19	52	40	90	70	*10
YSS	2,2.5	T B	55	34	19	48	34	19	52	40	90	70	*10
	3	T B	55	34	19	48	34	19	52	40	90	70	20
	5	T B	66	44	23	60	44	23	62	45	100	70	20
	7.5	B	75	48	16	68	48	16	75	55	105	100	40
	10	B	100	68	27	95	64	27	100	70	150	70	70
	15	B	120	85	32	110	83	32	120	82	165	70	150
	20	B	138	98	36	128	93	36	140	105	220	70	280
	30	B	138	98	36	128	93	36	140	105	220	100	420

● T=Top hook / B=Bottom hook

● If the weight is less than 10 kg, it will be considered as 10 kg.

More Features of YS series :

- Pendant control voltage transformed into 24V/48V to eliminate possible accident caused by circuit short and assure safe operation in wet environments.
- Automatic motor brake system features simultaneous braking upon power failure or switching off.
- Dual brake system assures safe operation.

- Limit switches hold load chain from running out.
- Advanced phase error relay keeps motor motionless at incorrect power connection.
- Optional emergency stop features available.
- Optional electronic overload protection available.

Power Supply :

- Electric Chain Hoists are available in all standard voltages of three Phase power, from 220V to 600V; as well as 115V or 230V of single Phase. Three Phase hoists are re-connectable.

Push Button Pendant :

- 2 / 4 / 6 button types.
- Plus standard emergency stop. (Optional)

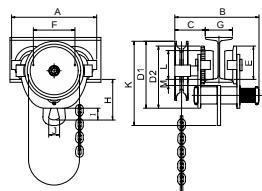
Lifting Height :

- Standard lifting height: 3 Meters / 6 Meters.
- Optional height available upon request (may be charged extra according to load chain length).
- The balance trolley is available for lift height over 6M or steel chain bucket. (Optional)



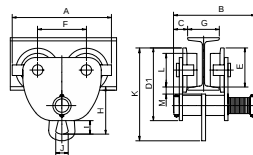
Manual Trolley

■ Geared Trolley (GT)



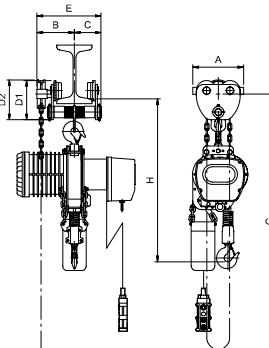
Model	Capacity (ton)	Dimensions (mm)													Min radius of curve (m)	N.W. (kg)
		A	B	C	D1	D2	E	F	H	I	J	K	L	M	G	
GT-050	0.5	194	266	81	150	151	69	89	115	33	28	199	60	32	50-150	1 8.8
GT-100	1	217	273	84	170	167	78	100	125	35	31	221	70	29	75-150	1 13.5
GT-200	2	247	309	91	224	207	91	116	171	55	56	301	80	31	100-175	1.3 19.8
GT-300	3	270	346	96	241	239	103	130	215	79	60	355	90	35	100-200	1.5 30.3
GT-500	5	310	350	98	235	251	117	140	218	84	60	370	100	33	125-200	1.6 37
GT-750	7.5	368	382	110	280	292	135	184	260	103	76	435	120	40	150-200	2.2 64
GT-1000	10	398	389	114	301	322	152	197	275	105	76	467	140	35	150-200	2.2 86

■ Plain Trolley (PT)

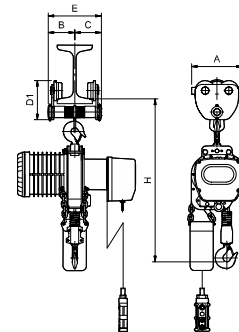


Model	Capacity (ton)	Dimensions (mm)													Min radius of curve (m)	N.W (kg)
		A	B	C	D1	E	F	H	I	J	K	L	M	G		
PT-050	0.5	194	220	35	151	69	89	115	33	28	199	60	32	50-150	1	6.4
PT-100	1	217	227	39	167	78	100	125	35	31	218	70	29	75-150	1	10.6
PT-200	2	247	260	43	207	91	116	171	55	56	284	80	31	100-175	1.3	16.8
PT-300	3	270	300	50	239	103	130	215	79	60	353	90	35	100-200	1.5	25.8
PT-500	5	310	304	52	251	117	140	218	84	60	370	100	33	125-200	1.6	32.6
PT-750	7.5	368	343	72	292	135	184	260	103	76	435	120	40	150-200	2.2	59.5
PT-1000	10	398	350	75	322	152	197	275	105	76	467	140	35	150-200	2.2	81.4

■ Hoist with GT / PT



Hoist with GT

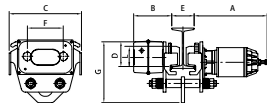
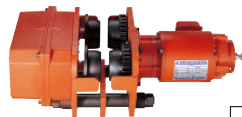


Hoist with PT

Capacity (ton)		Model	Dimensions (mm)								Flange Width (mm)
			H	A	B	C	D1	D2	E	G	
YSL,H, YSE,F	0.5	GT-050	710	194	156	110	150	151	266	2709	50-150
	0.5	PT-050	710	194	110	110	151	-	220	-	50-150
	1	GT-100	720	217	160	113.5	170	167	273	2719	75-150
	1	PT-100	720	217	113.5	113.5	167	-	227	-	75-150
	2	GT-200	920	247	179	130	224	207	309	3279	100-175
	2	PT-200	920	247	130	130	207	-	260	-	100-175
YSL,H	3	GT-300	1110	270	196	150	241	239	346	3353	100-200
	3	PT-300	1110	270	150	150	239	-	300	-	100-200
YSS(A)	2	GT-200	1010	247	179	130	224	207	309	3279	100-175
	2	PT-200	1010	247	130	130	207	-	260	-	100-175
	2.5	GT-300	1100	270	196	150	241	239	346	3353	100-200
	2.5	PT-300	1100	270	150	150	239	-	300	-	100-200
	3	GT-300	1175	270	196	150	241	239	346	3353	100-200
	3	PT-300	1175	270	150	150	239	-	300	-	100-200
	5	GT-500	1250	310	198	152	235	251	350	3356	125-200
	5	PT-500	1250	310	151	152	251	-	304	-	125-200

Electric Trolley

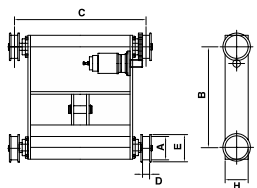
■ Motorized Monorail Trolley (MT)



Model	Capacity (ton)	Dimensions (mm)								Speed (m/min)		Motor (kw)	Pole (P)	Min. radius of curve (m)	N.W. (kg)
		A	B	C	D	E	F	G	L	50Hz	60Hz				
MTS-100 MTD-100	1	328	173	294	105	75-125	253	253	78	20 20/6.7	24 24/8	0.25 0.25	4 4	1.3	40
MTS-200 MTD-200	2	328	173	322	119	100-150	279	279	90	20 20/6.7	24 24/8	0.25 0.25	4 4	1.5	45
MTS-300 MTD-300	3	368	180	356	124	125-175	172	303	100	20 20/6.7	24 24/8	0.25 0.25	4 4	1.8	65
MTS-500 MTD-500	5	372	184	386	134	125-175	183	327	110	20 20/6.7	24 24/8	0.6 0.6	4 4	2.0	89
MTS-750 MTD-750	7.5	411	193	454	167	150-200	229	400	140	20 20/6.7	24 24/8	0.9 0.9	4 4	3.0	155
MTS-1000 MTD-1000	10	577	193	560	205	150-200	278	450	160	15 15/5	18 18/6	1.5 1.5	4 4	3.5	218
MTS-1500 MTD-1500	15	576	212	702	274	190	360	574	180	12 12/4	14 14/4.7	1.5 1.5	4 4	-	350
MTS-2000 MTD-2000	20	656	223	882	365	200	416	674	250	12 12/4	15 15/5	2.2 2.2	4 4	-	575

MTS-100~500: 50Hz uses 4P motor ; 60Hz uses 4P or 6P motor
(Please specify as ordering 6P motor)

■ Motorized Saddle Trolley (MST)



Model	Capacity (ton)	Speed (m/min)		Dimensions (mm)						Motor (kw)	Pole (P)	N.W. (kg)
		50Hz	60Hz	A	B	C	D	E	H			
MTS-100 MSTD-100	1	20 20/6.7	19 19/6.3	120	580	700	40	147	125	0.25 0.25/0.08	4 4	94
MTS-200 MSTD-200	2	20 20/6.7	19 19/6.3	120	580	700	40	147	125	0.25 0.25/0.08	4 4	94
MTS-300 MSTD-300	3	18 18/6	22 22/7.3	150	650	850	45	176	155	0.4 0.4/0.13	4 4	182
MTS-500 MSTD-500	5	18 18/9	22 22/11	150	650	850	45	176	155	0.6 0.6/0.3	6 6	182
MTS-750 MSTD-750	7.5	15 19/6.3	23 23/7.7	160	800	1000	50	187	225	0.9 0.9/0.3	4 4	306
MTS-1000 MSTD-1000	10	21 21/7	20 20/6.7	215	900	1200	50	246	327.5	0.9-2pcs 0.9/0.3-2pcs	4 4	504

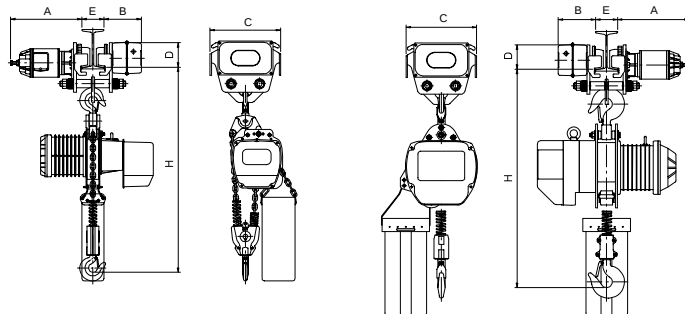
MST-100
MST-200
MST-1000

50Hz with pinion of M3.5x15T
60Hz with pinion of M3.5x12T

MST-300
MST-500
MST-750

50Hz/60Hz with pinion of M3.5x13T
50Hz/60Hz with pinion of M3.5x20T
50Hz/60Hz with pinion of M3.5x15T

■ Hoist with MT



YSL, H, E, F 0.5ton~3ton

YSS 2ton~20ton

Capacity (ton)		Model	Dimensions (mm)					
			H	A	B	C	D	E
YSL, H, E, YSF	0.5, 1	MTS-050, 100	705	328	173	294	105	75-125
	2	MTS-200	935	328	173	322	119	100-150
YSL, H	3	MTS-300	1030	368	180	356	124	125-175
YSS(A)	2	MTS-200	995	328	173	322	119	100-150
	2.5	MTS-300	1040	368	180	356	124	125-175
	3	MTS-300	1120	368	180	356	124	125-175
	5	MTS-500	1200	372	184	386	134	125-175
	7.5	MTS-750	1300	411	193	454	167	150-200
	10	MTS-1000	1415	577	193	560	205	150-200
	15	MTS-1500	1490	576	212	702	274	190
	20	MTS-2000	2080	656	223	882	365	200

Hand Chain Block

■ 0.5, 1, 1.6, 2, 3.2 ton ■ 3, 5 ton ■ 7.5 ton ■ 10 ton



Model	Capacity (ton)	Lift (m)	Load chain		Hand chain Dia. x pitch (mm)	Headroom H (mm)	Hand chain pulling per lift meter (m)	Hand effort to lift full load (kgf)	Test load (ton)	N.W. (kg)
			Dia. x pitch (mm)	Fall No.						
YB - 050	0.5	2.5	5 X 15	1	5 X 23.6	275	34.7	23	0.63	9
YB - 100	1	2.5	6.3 X 19	1		300	57.5	27	1.25	11.4
YB - 160	1.6	3	7.1 X 21	1		410	67	38	2	18
YB - 200	2	3	8 X 24	1		450	84.2	38	2.5	21
YB - 300	3	3	7.1 X 21	2		530	134	38	3.75	24
YB - 320	3.2	3	10 X 30	1		535	136.1	45	4	30
YB - 500	5	3	10 X 30	2		675	272.3	38	6.25	45
YB - 750	7.5	3	10 X 30	3		810	408.4	40	9.38	84
YB - 1000	10	3	10 X 30	4		870	544.5	35	12.5	95
YB-1500	15	3	10 X 30	6		1120	408.4	44	18.75	250
YB-2000	20	3	10 X 30	8		1320	544.5	46	25	350
YB-3000	30	3	10 X 30	16		2240	1089	40	37.5	-
YB-3500	35	3	10 X 30	16		2240	1089	43	43.75	-
YB-4000	40	3	10 X 30	16		2330	1089	46	50	-
YB-5000	50	3	10 X 30	20		2560	1361.5	48	62.5	-

※ Achieved the "SANS-1594" approval

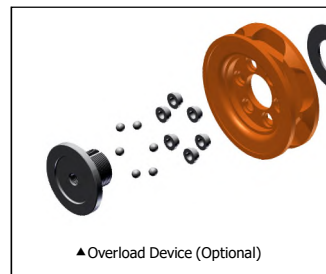
Lever Hoist

■ 0.3, 0.5 ton ■ 0.8, 1, 1.6, 3.2 ton ■ 6 ton ■ 9 ton



Model	Capacity (ton)	Lift (m)	Load chain		Headroom H (mm)	Length of operating handle N (mm)	Pull on lever to lift full load (kgf)	Test load (ton)	N.W. (kg)
			Dia. x pitch (mm)	Fall No.					
YL - 030	0.3	1	4.0 X 12	1	235	213	30	0.38	2.1
YL - 050	0.5	1.5	5.0 X 15	1	275	265	35	0.63	3.9
YL - 080	0.8	1.5	5.6 X 17	1	290	265	25	1	6.1
YL - 100	1.0	1.5	6.3 X 19	1	325	265	30	1.25	7.0
YL - 160	1.6	1.5	7.1 X 21	1	370	400	30	2	10.7
YL - 300/320	3.0/3.2	1.5	9.0 X 27	1	470	416	36	4	16.2
YL - 600	6.0	1.5	9.0 X 27	2	620	416	38	7.5	31
YL - 900	9.0	1.5	9.0 X 27	3	830	416	39	11.25	55

※ Achieved the "SANS-1636" approval





Hand Chain Block

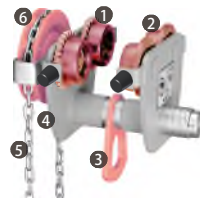
■ 0.5, 1, 1.6, 2, 3.2 ton ■ 3, 5 ton ■ 7.5 ton ■ 10 ton



Model	Capacity (ton)	Lift (m)	Load chain		Hand chain Dia x pitch (mm)	Headroom H(mm)	Hand chain pulling per lift meter (m)	Hand effort to lift full load (kgf)	Test load (ton)	N.W. (kg)
			Dia x pitch (mm)	no. of falls						
YB - 050Ex	0.5	2.5	5 X 15	1	5 X 23.6	275	34.7	23	0.63	9
YB - 100Ex	1	2.5	6.3 X 19	1		300	57.5	27	1.25	11.4
YB - 160Ex	1.6	3	7.1 X 21	1		410	67	38	2	18
YB - 200Ex	2	3	8 X 24	1		450	84.2	38	2.5	21
YB - 300Ex	3	3	7.1 X 21	2		530	134	38	3.75	24
YB - 320Ex	3.2	3	10 X 30	1		535	136.1	45	4	30
YB - 500Ex	5	3	10 X 30	2		675	272.3	38	6.25	45
YB - 750Ex	7.5	3	10 X 30	3		810	408.4	40	9.38	84
YB - 1000Ex	10	3	10 X 30	4		870	544.5	35	12.5	95
YB - 1500Ex	15	3	10 X 30	6		1120	408.4	44	18.75	250
YB - 2000Ex	20	3	10 X 30	8		1320	544.5	4	25	350

Hand Chain Block	
Description	Instruction
① Upper hook / Bottom hook	Bronze coating
② Hook Cover	EPOXY / Bronze
③ Housing	Chrome
④ Load chain	Galvanized
⑤ Fastener	Stainless steel
⑥ Hand chain	Stainless steel
⑦ Load Sheave	Bronze coating
⑧ Sheave wheel (Sprocket)	Bronze coating
⑨ Hand chain wheel	Bronze coating

■ Geared Trolley (GT)



Lever Hoist

■ 0.3, 0.5 ton ■ 0.8, 1, 1.6, 3.2 ton ■ 6 ton ■ 9 ton



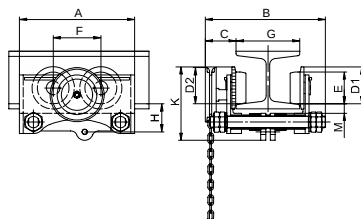
Model	Capacity (ton)	Lift (m)	Load chain		Hand chain Dia x pitch H(mm)	Length of operating handle N (m)	Pull on lever to lift full load (kgf)	Test load (ton)	N.W. (kg)
			Dia x pitch (mm)	no. of falls					
YL - 030Ex	0.3	1	4.0 X 12	1	235	213	30	0.38	2.1
YL - 050Ex	0.5	1.5	5.0 X 15	1	275	265	35	0.63	3.9
YL - 080Ex	0.8	1.5	5.6 X 17	1	290	265	25	1	6.1
YL - 100Ex	1.0	1.5	6.3 X 19	1	325	265	30	1.25	7
YL - 160Ex	1.6	1.5	7.1 X 21	1	370	400	30	2	10.7
YL - 320Ex	3.2	1.5	9.0 X 27	1	470	416	36	4	16.2
YL - 600Ex	6.0	1.5	9.0 X 27	2	620	416	38	7.5	31
YL - 900Ex	9.0	1.5	9.0 X 27	3	830	416	39	11.25	55

Lever Hoist	
Description	Instruction
① Upper hook / Bottom hook	Bronze coating
② Hook Cover	EPOXY / Bronze
③ Housing	Chrome
④ Load chain	Galvanized
⑤ Load Sheave	Bronze coating
⑥ Sheave wheel (Sprocket)	Bronze coating

Description	Instruction
① Drive Wheel	Bronze coating
② Idler Wheel	Bronze coating
③ Load Bracket	Bronze coating
④ End plate	Chrome
⑤ Hand chain	Stainless steel
⑥ Hand Wheel	Bronze coating

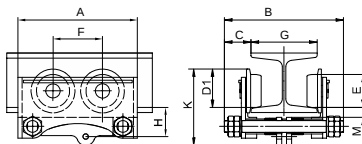
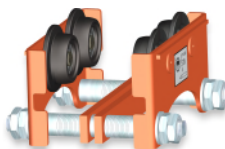
Low Headroom Manual Trolley

■ LGT



Model	Capacity (ton)	Dimensions (mm)												Min radius of curve (m)	N.W. (kg)
		A	B	C	D1	D2	E	F	H	K	L	M	G		
LGT-050	0.5	210	275	80	128	125	69	91	61	146	60	20	75-150	1	12
LGT-100	1	240	290	83	142	139	78	100	64	160	70	20	75-150	1	14.9
LGT-150	1.5	321	356	91	189	172	91	116	79	207	80	26	130-200	1.3	24.6
LGT-200	2	321	355	90	189	172	91	116	79	207	80	26	130-200	1.3	24.6
LGT-300	3	323	366	95	192	190	103	130	115	240	90	26	130-200	1.5	31
LGT-500	5	362	378	97	207	210	117	150	123	267	100	30	130-200	1.6	42.8

■ LPT

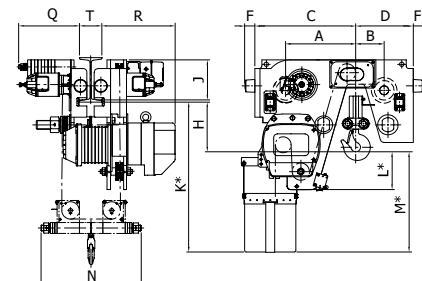


Model	Capacity (ton)	Dimensions (mm)											Min radius of curve (m)	N.W. (kg)
		A	B	C	D1	E	F	H	K	L	M	G		
LPT-050	0.5	210	240	45	125	69	91	61	144	60	20	75-150	1	8.4
LPT-100	1	240	265	58	139	78	100	64	157	70	20	75-150	1	11
LPT-150	1.5	321	329	65	172	91	116	79	190	80	26	130-200	1.3	19.3
LPT-200	2	321	329	65	172	91	116	79	190	80	26	130-200	1.3	19.3
LPT-300	3	323	343	72	190	103	130	115	238	90	26	130-200	1.5	25.7
LPT-500	5	362	361	81	210	117	150	123	267	100	30	130-200	1.6	37.5

※ All of chain hoists can fit with GT / PT & LGT / LPT (GT / PT spec. pls refer to P.17)



- Specially engineered frame combines hoist and trolley for low headroom application.
- Low headroom hoist maximizes effective lift.
- Impressive additional operating height is available with low headroom hoist.
- Other options are available on request.

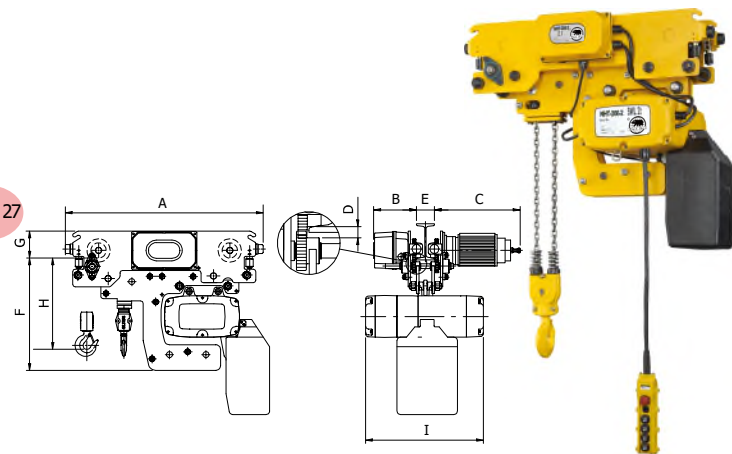


Model	Capacity (ton)	Fall No.	Dimensions (mm)														Hoisting		Traversing		Flange Width (mm) T	N.W. (kg)
			H	A	B	C	D	F	J	K*	L*	M*	N	Q	R	Speed(m/min) 50Hz 60Hz	Motor kw, pole	Speed(m/min) 50Hz 60Hz	Motor kw, pole			
YLTD-100	1	2	240	302	128	431	256	21	147	661	197	421	435	343	349	3.3 40	1.5, 4P	20 24	0.25x2, 4P	100-125	240	
YLTD-100																3.3/1.1	4.0/1.3	1.8/0.6, 4/12P	20/6.7 24/8	0.25/0.08x2, 4/12P		
YHTD-100	1	2	240	302	128	431	256	21	147	661	197	421	435	343	349	4.6 5.5	1.8, 4P	20 24	0.25x2, 4P	100-125	240	
YHTD-100																4.6/1.5 5.5/1.8	1.8/0.6, 4/12P	20/6.7 24/8	0.25/0.08x2, 4/12P			
YLTD-200	2	2	255	302	128	431	256	21	167	653	197	398	435	343	349	2.3	2.8 1.8, 4P	20 24	0.25x2, 4P			
YLTD-200																2.3/0.8 2.8/1.0	1.8/0.6, 4/12P	20/6.7 24/8	0.25/0.08x2, 4/12P	125-150	272	
YHTD-200	2	2	255	302	128	431	256	21	167	653	197	398	435	343	349	3.3 40	1.8, 4P	20 24	0.25x2, 4P			
YHTD-200																3.3/1.1 4.0/1.3	1.8/0.6, 4/12P	20/6.7 24/8	0.25/0.08x2, 4/12P	125-150	272	
YSTUD-300	3	2	280	395	160	569	324	57	227	883	215	606	565	360	414	4.3 5.2	3.7, 4P	20 24	0.4x2, 4P			
YSTUD-300																4.3/1.4 5.2/1.7	3.7/1.2, 4/12P	20/6.7 24/8	0.4/0.13x2, 4/12P	125-175	593	
YSTUD-500	5	2	330	395	160	569	324	57	227	830	108	500	580	371	427	2.6 3.2	3.7, 4P	20 24	0.4x2, 4P			
YSTUD-500																2.6/0.9 3.2/1.0	3.7/1.2, 4/12P	20/6.7 24/8	0.4/0.13x2, 4/12P	125-175	627	

※ Duty Rating(ED%) : Single 40% · Dual 40%/20% " * " Standard lifting height 3m

Low Headroom Electric Chain Hoist series

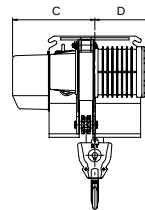
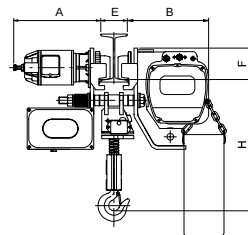
27



Model	Capacity (kg)	Fall No.	Dimensions (mm)									Hoisting			Traversing		N.W. (kg)	
			H	A	B	C	E	F	D	G	I	Speed (m/min)		Motor Power kw, pole	Speed (m/min)			Motor kw, pole
												50Hz	60Hz		50Hz	60Hz		
NHTD-025-1	250	1	360	795	177	355	75-125	453	15	112	380	12/3	12/3	0.6/0.15 2/8P	20/5	24/6	0.12/0.03 2/8P	128
NHTD-050-2	500	2	430	835	177	355	75-125	463	15	112	380	6/1.5	6/1.5		20/5	24/6	0.12/0.03 2/8P	133
NHTD-050-1	500	1	400	795	177	355	75-125	464	15	112	468	10/2.5	10/2.5		1.1/0.28 2/8P	20/5	24/6	0.12/0.03 2/8P
NHTD-100-2	1000	2	445	845	177	355	75-125	472	15	112	468	5/1.25	5/1.25	20/5		24/6	0.18/0.04 2/8P	147
NHTD-100-1	1000	1	405	795	177	355	75-125	464	15	112	488	8/2	8/2	1.5/0.37 2/8P		20/5	24/6	0.18/0.04 2/8P
NHTD-200-2	2000	2	485	850	181	360	100-150	459	26	125	488	4/1	4/1		20/5	24/6	0.37/0.09 2/8P	172

※ Duty Rating(ED%) ※40%/20%

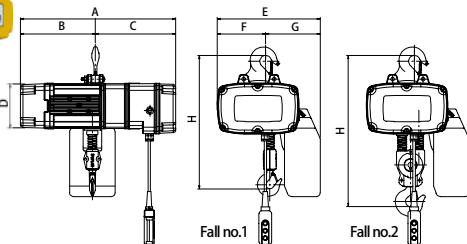
28



Model	Capacity (ton)	Fall No.	Dimensions (mm)						Hoisting				Traversing				N.W. (Kg)
			H	A	B	C	D	E	F	Speed (m/min)		Motor kw, pole	Speed (m/min)		Motor kw, pole		
										50Hz	60Hz		50Hz	60Hz			
YET-050	0.5	1	440	327	307	278	241	75-125	112	6.7	8.0	1.5, 4P	20	24	0.25, 4P	188	
YETD-050							286			6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YET-100	1	1	440	327	307	278	241	75-125	112	4.7	5.6	1.5, 4P	20	24	0.25, 4P	188	
YETD-100							286			4.7/1.6	5.6/1.9	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YET-200	2	2	520	330	310	311	208	100-150	118	2.3	2.8	1.8, 4P	20	24	0.25, 4P	216	
YETD-200							253			2.3/0.77	2.8/0.93	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YET-300	3	3	593	366	315	343	208	125-175	143	1.5	1.8	1.8, 4P	20	24	0.6, 4P	277	
YETD-300							221			1.5/0.5	1.8/0.6	1.8/0.6, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P		
YLT-050	0.5	1	440	327	307	278	241	75-125	112	6.7	8.0	1.5, 4P	20	24	0.25, 4P	188	
YLTD-050							286			6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YLT-100	1	1	440	327	307	278	241	75-125	112	4.7	5.6	1.5, 4P	20	24	0.25, 4P	188	
YLTD-100							286			4.7/1.6	5.6/1.8	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YLT-200	2	2	520	330	310	311	208	100-150	118	2.3	2.8	1.8, 4P	20	24	0.25, 4P	216	
YLTD-200							253			2.3/0.8	2.8/1.0	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YLT-300	3	3	593	366	315	343	208	125-175	143	1.5	1.8	1.8, 4P	20	24	0.6, 4P	277	
YLTD-300							221			1.5/0.5	1.8/0.6	1.8/0.6, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P		
YHT-050	0.5	1	440	327	307	278	241	75-125	112	9.2	11	1.8, 4P	20	24	0.25, 4P	188	
YHTD-050							286			9.2/3.1	11/3.7	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YHT-100	1	1	440	327	307	278	241	75-125	112	6.7	8.0	1.8, 4P	20	24	0.25, 4P	188	
YHTD-100							286			6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YHT-200	2	2	520	330	310	311	208	100-150	118	3.3	4.0	1.8, 4P	20	24	0.25, 4P	216	
YHTD-200							253			3.3/1.1	4.0/1.3	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P		
YHT-300	3	3	593	366	315	343	208	125-175	143	2.2	2.6	1.8, 4P	20	24	0.6, 4P	277	
YHTD-300							221			2.2/0.73	2.6/0.87	1.8/0.6, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P		
YST-200	2	1	702	371	443	324	319	125-175	143	6.7	7.9	3.7, 4P	20	24	0.6, 4P	438	
YSTD-200							376			6.7/2.2	7.9/2.6	3.7/1.2, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P		
YST-250	2.5	1	724	371	443	324	319	125-175	143	5.2	6.4	3.7, 4P	20	24	0.6, 4P	448	
YSTD-250							376			5.2/1.7	6.4/2.1	3.7/1.2, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P		
YST-300	3	2	765	371	443	274	363	125-175	143	4.3	5.2	3.7, 4P	20	24	0.6, 4P	465	
YSTD-300							420			4.3/1.4	5.2/1.7	3.7/1.2, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P		
YST-500	5	2	805	371	443	265	372	125-175	148	2.6	3.2	3.7, 4P	20	24	0.6, 4P	505	
YSTD-500							429			2.6/0.9	3.2/1.0	3.7/1.2, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P		

※ Maximum lifting height : 6M

NHD series

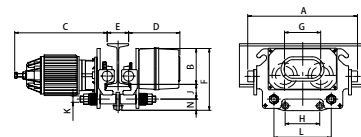


- (1) IP55, insulation F & TEFC motor.
- (2) New 2T, 3T & 5T model with new designed geared limit switch with patent.
- (3) Mechanical brake with clutch, less than 3% slipping, continued working 400hrs, more safe.
- (4) Chain sheave with 5 pockets.
- (5) Max. 50m lifting, 1 fall.

Model	Capacity (kg)	Lift (m)	%ED	Hoisting		Traversing	
				Speed(m/min)		Speed(m/min)	
				60Hz	50Hz	60Hz	50Hz
NHD-050-1	500	3	40/20	10/2.5	10/2.5	24/6	20/5
NHD-100-2	1000	3	40/20	5/1.25	5/1.25	24/6	20/5
NHD-100-1	1000	3	40/20	8/2	8/2	24/6	20/5
NHD-200-2	2000	3	40/20	4/1	4/1	24/6	20/5
NHD-200-1	2000	3	40/20	9.6/2.4	9.6/2.4	24/6	20/5
NHD-250-1	2500	3	40/20	8/2	9.6/2.4	24/6	20/5
NHD-300-2	3000	3	40/20	6.4/1.6	6.4/1.6	24/6	20/5
NHD-500-2	5000	3	40/20	4/1	4/1	24/6	20/5

Model	Dimension (mm)								Load Chain		N.W. (kg)
	H	A	B	C	D	E	F	G	Ømm	Fall No.	
NHD-050-1	500	570	266	304	165	375	190	185	Ø 6.3x19.1	1	47
NHD-100-2	550	570	266	304	165	375	190	185		2	50
NHD-100-1	550	620	300	320	180	415	195	220		1	62
NHD-200-2	620	620	300	320	180	415	195	220	Ø 7.1x20.2	2	67
NHD-200-1	1020	715	340	375	220	560	262	298		1	102
NHD-250-1	1020	715	340	375	220	560	262	298		1	110
NHD-300-2	1050	715	340	375	220	560	210	350	Ø 10x30.2	2	120
NHD-500-2	1100	715	340	375	220	560	210	350		2	145

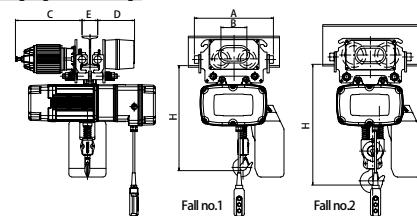
Motorized NT(D) Trolley



Model	Speed (m/min)		Motor kw x pole	Dimension (mm)												N.W. (kg)	Min radius of curve (m)
	60Hz	50Hz		A	B	C	D	E	F	G	H	I	J	K			
NT-050-1	24	20	0.12 x 2P	385	125	325	180	75- 125	216	126	95.5	200	52	39	7/8"-9UNC (Ø22.2)	45	1.3
NTD-050-1	24/6	20/5	0.12/0.03 x 2/8P					18 x 2P									
NT-100-1	24	20	0.18 x 2P	385	114	325	180	75- 125	220	126	120	210	67	39	1"-8UNC (Ø25.4)	45	1.3
NTD-100-1	24/6	20/5	0.18/0.04 x 2/8P					20 x 2P									
NT-100-2	24	20	0.18 x 2P	385	114	325	180	75- 125	220	126	95.5	210	67	39	1"-8UNC (Ø25.4)	45	1.3
NTD-100-2	24/6	20/5	0.18/0.04 x 2/8P					20 x 2P									
NT-200-2	24	20	0.37 x 2P	395	125	360	185	100- 150	236	159	120	230	75	36	1 1/4"-7UNC (Ø31.8)	50	1.7
NTD-200-2	24/6	20/5	0.37/0.09 x 2/8P					20 x 2P									
NT-200-1	24	20	0.37 x 2P	395	125	360	185	100- 150	251	159	52.5	230	75	51	1 1/4"-7UNC (Ø31.8)	50	1.7
NTD-200-1	24/6	20/5	0.37/0.09 x 2/8P					20 x 2P									
NT-250-1	24	20	0.6 x 2P	445	154	400	195	125- 175	283	183	52.5	250	71	58	1 1/2"-6UNC (Ø38.1)	89	2.0
NTD-250-1	24/6	20/5	0.6/0.15 x 2/8P					20 x 2P									
NT-300-2	24	20	0.6 x 2P	445	154	400	195	125- 175	283	183	52.5	250	71	58	1 1/2"-6UNC (Ø38.1)	89	2.0
NTD-300-2	24/6	20/5	0.6/0.15 x 2/8P					20 x 2P									
NT-500-2	24	20	0.6 x 2P	445	154	400	195	125- 175	283	183	52.5	250	71	58	1 3/4"-5UNC (Ø44.5)	89	2.0
NTD-500-2	24/6	20/5	0.6/0.15 x 2/8P					20 x 2P									

*Different flange width options available on request. Maximum:310mm.

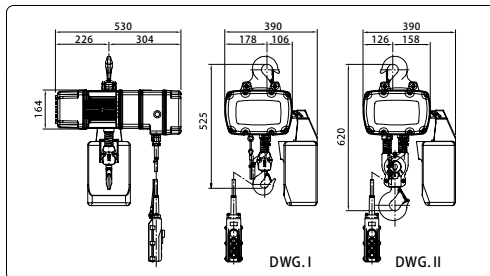
Hoist with Motorized NT(D) Trolley



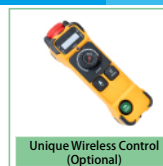
Model	Dimension (mm)						Fall No.
	H	A	B	C	D	E	
NHD-050-1+NTD-050-1	500	385	126	325	180	75-125	1
NHD-100-2+NTD-100-2	565	385	126	325	180	75-125	2
NHD-100-1+NTD-100-1	550	385	126	325	180	75-125	1
NHD-200-2+NTD-200-2	625	395	159	360	185	100-150	2
NHD-200-1+NTD-200-1	990	395	159	360	185	100-150	1
NHD-250-1+NTD-250-1	953	445	183	400	195	125-175	1
NHD-300-2+NTD-300-2	1000	445	183	400	195	125-175	2
NHD-500-2+NTD-500-2	1050	445	183	400	195	125-175	2

BLFD series (500kg~2000kg)

1. Single phase for household electricity.
Available voltage 90V - 130V or 190V — 270V, 50Hz / 60Hz.
Easy to fit normal power supply.
2. For portable electrical appliance, under 250V rated voltage, the rated current should be within 15 Amp, exactly meets safe requirement.
3. Unique innovation PM motor with VFD driver. Low starting current, not exceed 150% rated, energy efficient.
4. Duty cycle rated at 30% ED(FEM 1Am, ISO M4 class), world - class in single phase series.
5. Adjustable mechanical brake clutch unit prevents overload precisely.
6. International safety devices : Limit switch prevents subject moves beyond a predetermined range, the power is cut off when over lifting. Emergency stop button.
7. Standard pendant control and optional remote control, with knob for variable speed operation.



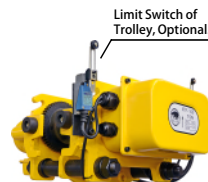
Rated Power Source Single Phase · 90V~130V or 190V~270V · 50Hz/60Hz										
Model	DWG.	Capacity (kg)	Motor Output (W)	Intermittent Duty % ED	Max Starting Frequency (times/hr)	Rated Current (A)	Lifting Speed (m/min)	Standard Lift (m)	Push Button Cord (m)	Load Chain Diameter (mm)
BLFD-050	I	500	750	30	180	110V(15A) 220V(10A)	8.0/2.0 8.0/2.0	3	3	6.3x19.1
BLFD-100	I	1000	1000 1200	30	180	110V(15A) 220V(10A)	5.6/1.4 6.0/1.5	3	3	7.1x20.2
BLFD-200	II	2000	1000 1200	30	180	110V(15A) 220V(10A)	2.8/0.7 3.0/0.75	3	3	7.1x20.2
										Fall
										N.W.(kg)
										3m 6m
										42.7 45.5
										46.5 50
										50 53.5



Unique Wireless Control (Optional)

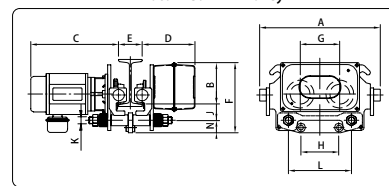


Driver Unit



Limit Switch of Trolley, Optional.

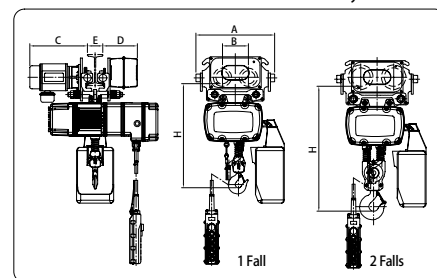
Motorized NTF Trolley



Model	Speed(m/min)		Motor kW x pole	Dimension (mm)											N.W. (kg)	Min rad of curve (m)	
	60Hz	50Hz		A	B	C	D	E	F	G	H	L	J	N			K
NTF-050	24	20	0.25x 2P	385	132	280	170	75-125	225	126	120	200	52	41	7/8"-9UNC	45	1.3
NTF-100	24	20	0.25x 2P	385	132	280	170	75-125	225	126	120	200	52	41	7/8"-9UNC	45	1.3
NTF-200	24	20	0.25x 2P	395	125	285	175	100-150	221	159	120	230	60	36	1"-8UNC	50	1.7



Hoist with Motorized NTF Trolley



Model	Dimension (mm)						Fall
	H	A	B	C	D	E	
BLFD-050+NTF-050	515	385	126	280	170	75~125	1
BLFD-100+NTF-100	515	385	126	280	170	75~125	1
BLFD-200+NTF-200	610	395	159	285	175	100~150	2



Air Chain Hoist series (Industrial Type)

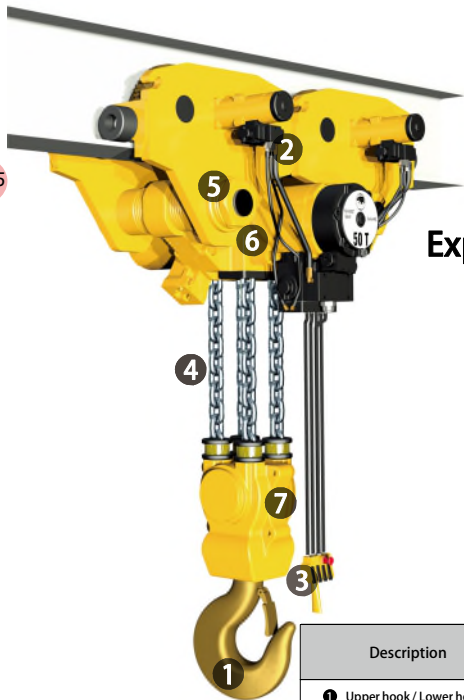
II 2G Ex h IIB T4 Gb

II 2D Ex h IIIB T135°C Db

Standard

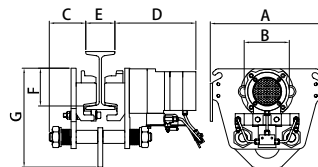
II 3G Ex h IIA T4 Gb

II 3D Ex h IIIB T135°C Db



Explosion proof

Description	Instruction
① Upper hook / Lower hook	Bronze coating
② Hook Cover	EPOXY / Bronze
③ Pendant Control	Bronze
④ Load chain	Galvanized
⑤ Load Sheave	Bronze coating
⑥ Housing	EPOXY
⑦ Sheave	Bronze coating



■ Air Trolley (AT)

Model	Capacity (ton)	Dimension (mm)							Min radius of curve (m)	N.W. (kg)
		A	B	C	D	E	F	G		
AT-100 AT-100Ex	1	294	116	95	208	75-125	98	256	1.0	34
AT-200 AT-200Ex	2	322	135	100	209.5	100-150	116	279	1.3	38
AT-320 AT-320Ex	3.2	356	144	117.5	217	125-175	119	297	1.5	50
AT-630 AT-630Ex	6.3	386	183	132.5	219	125-175	169	521	2.2	140
AT-1000 AT-1000Ex	10	601	210	194	342	250-300	220	466	3.8	220
AT-1600 AT-1600Ex	16	609	210	202	360	250-300	220	466	4.0	240
AT-2000 AT-2000Ex	20	718	246	220	372	250-300	228	565	4.4	285

Model	Capacity (ton)	Motor (Kw)	Working air pressure (kg/cm²)	Traversing Speed (m/min)	Air consumption (m³/min)	Brake type	Air inlet
AT-100 AT-100Ex	1	0.2	6	20	0.6	Disk type brake	1/2"
AT-200 AT-200Ex	2	0.2	6	20	0.6		1/2"
AT-320 AT-320Ex	3.2	0.2	6	20	0.6		1/2"
AT-630 AT-630Ex	6.3	0.2	6	20	0.6		1/2"
AT-1000 AT-1000Ex	10	0.7	6	12	1.3		1/2"
AT-1600 AT-1600Ex	16	0.7	6	12	1.3		1/2"
AT-2000 AT-2000Ex	20	0.7	6	12	1.3		1/2"

● Ex: Zone 1 ; Blank: Zone 2



Air Chain Hoist series (Industrial Type)

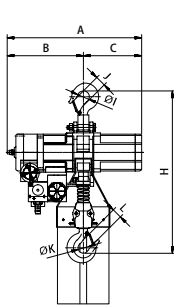
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II 2D Ex h IIIB T135°C Db

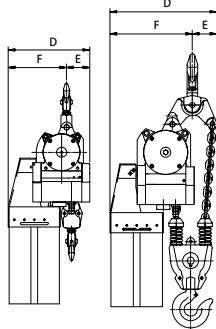
Standard

II 3G Ex h IIA T4 Gb

II 3D Ex h IIIB T135°C Db



YSA-025,050,100,320



YSA-200,630

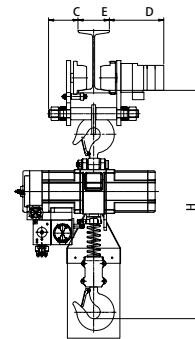
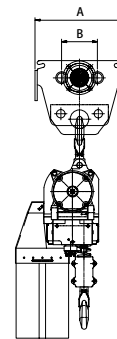
Model	Capacity (ton)	Fall no.	Dimension (mm)											N.W. (kg)
			H	A	B	C	D	E	F	I	J	K	L	
YSA-025 YSA-025Ex	0.25	1	535	371	197	174	244	70	174	40	32	40	32	32
YSA-050 YSA-050Ex	0.5	1	535	402	228	174	244	70	174	40	32	40	32	36
YSA-100 YSA-100Ex	1	1	540	460	255	205	251	65	186	40	32	40	32	51
YSA-200 YSA-200Ex	2	2	760	460	255	205	319	73	246	46	40	46	40	60
YSA-320 YSA-320Ex	3.2	1	814	559	313	246	334	77	257	52	47	52	47	108
YSA-630 YSA-630Ex	6.3	2	1022	559	313	246	334	77	257	62	52	62	52	138

Model	Capacity (ton)	Fall no.	Load chain (mm)	Lift (m)	Classification	Operation	Working air pressure (kg/cm ²)	Motor (kw)	Speed (m/min)	Air consumption (m ³ /min)	Brake type	Limit switch	Air inlet (in)	Level of noise (dB)		Main line air supply (in)
														Load	No load	
YSA-025 YSA-025Ex	0.25	1	Ø6.3x19.1	3	2m	Handle pull type or push button valve type	6	1.5	18	2	Disk type brake	Upper/Lower limit	1/2"	85	82	3/4"
YSA-050 YSA-050Ex	0.5	1	Ø6.3x19.1	3	2m		4	0.8	8	1			1/2"	85	82	3/4"
YSA-100 YSA-100Ex	1	1	Ø7.1x20.2	3	2m		6	1.5	11	2			1/2"	85	82	3/4"
YSA-200 YSA-200Ex	2	2	Ø7.1x20.2	3	2m		4	0.8	5	1			1/2"	85	82	3/4"
YSA-320 YSA-320Ex	3.2	1	Ø13x36	3	2m		6	2.0	7.6	2			1/2"	85	82	3/4"
YSA-630 YSA-630Ex	6.3	2	Ø13x36	3	2m		4	1.0	3.4	1			3/4"	90	87	2"
							6	2.0	3.8	2			3/4"	90	87	2"
							4	1.0	1.7	1						
							6	3.5	4.8	4						
							4	1.8	2.2	2						
							6	3.5	2.4	4						
							4	1.8	1.1	2						

※ Ex : Zone 1 ; Blank : Zone 2 ※ Safety device : 1.Main air supply shut-off type overload limiter system.
2.Limit switch system 3.Emergency stop (w/pendant control).



Hoist with trolley



Model	Capacity (ton)	Dimension (mm)					
		H	A	B	C	D	E
YSA-025+PT-050 YSA-025Ex+PT-050	0.25	590	194	89	35	-	50~150
YSA-050+PT-050 YSA-050Ex+PT-050	0.5	590	194	89	35	-	50~150
YSA-100+AT-100 YSA-100Ex+AT-100Ex	1	621	294	116	95	208	75~125
YSA-200+AT-200 YSA-200Ex+AT-200Ex	2	751	322	135	100	209.5	100~150
YSA-320+AT-320 YSA-320Ex+AT-320Ex	3.2	902	356	144	117.5	217	125~175
YSA-630+AT-630 YSA-630Ex+AT-630Ex	6.3	1125	386	183	132.5	219	125~175

※Standard controller : Toggle cord. Pendant control optional,with dual-speed.

※Optional YSA Economic series 0.25t~6t. 1.Mechanical clutch for overload protection.

2.FEM 2Bm 3. 0.25t~2t mechanical L/S : 3t~6t piston L/S



Air Chain Hoist series (Industrial Type)

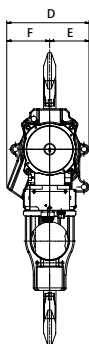
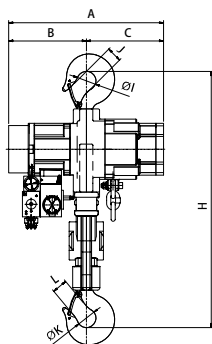
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II 2D Ex h IIIB T135°C Db

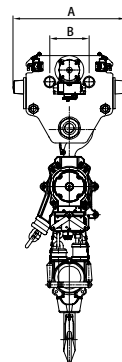
Standard

II 3G Ex h IIA T4 Gb

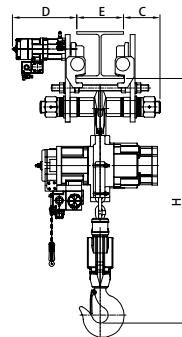
II 3D Ex h IIIB T135°C Db



YSA-1000/1600/2000



Hoist with trolley



Model	Capacity (ton)	Fall no.	Dimension (mm)											N.W. (kg)
			H	A	B	C	D	E	F	I	J	K	L	
YSA-1000 YSA-1000Ex	10	2	1100	614	308	308	326	156	170	75	69	75	69	186
YSA-1600 YSA-1600Ex	16	3	1350	746	374	372	295	129	166	120	109	120	109	327
YSA-2000 YSA-2000Ex	20	4	1400	746	374	372	301	135	166	120	109	120	109	383

Model	Capacity (ton)	Dimension (mm)					
		H	A	B	C	D	E
YSA-1000+AT-100 YSA-1000Ex+AT-100Ex	10	1191	601	210	194	342	250~300
YSA-1600+AT-1600 YSA-1600Ex+AT-1600Ex	16	1441	609	210	202	360	250~300
YSA-2000+AT-2000 YSA-2000Ex+AT-2000Ex	20	1458	718	246	220	372	250~300

Model	Capacity (ton)	Fall no.	Load chain (mm)	Lift (m)	Classification	Operation	Working air pressure (kg/cm ²)	Motor (kw)	Speed (m/min)	Air consumption (m ³ /min)	Brake type	Limit switch	Air inlet (in)	Level of noise (dB)		Main line air supply (in)
														Load	No load	
YSA-1000 YSA-1000Ex	10	2	Ø16x45	3	2m	Handle pull type or push button valve type	6	3.5	1.6	4	Disk type brake	Upper/Lower limit	1"	90	87	2"
							4	1.8	0.7	2						
YSA-1600 YSA-1600Ex	16	3	Ø16x45	3	2m		6	3.5	1.0	4			1"	90	87	2"
							4	1.8	0.4	2						
YSA-2000 YSA-2000Ex	20	4	Ø16x45	3	2m		6	3.5	0.8	4			1"	90	87	2"
							4	1.8	0.3	2						



Air Chain Hoist series (Industrial Type)

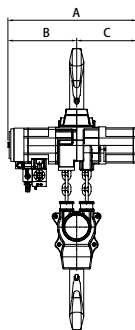
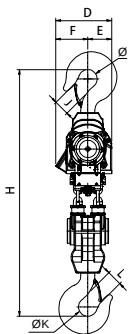
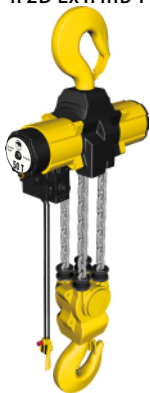
II 2G Ex h IIB T4 Gb

II 2D Ex h IIB T135°C Db

Standard

II 3G Ex h IIA T4 Gb

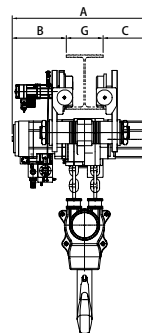
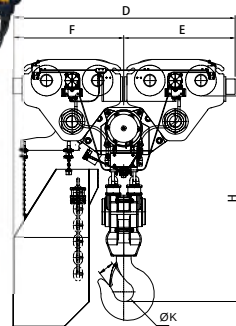
II 3D Ex h IIB T135°C Db



YSA-2500 / 3750 / 5000 / 7500 / 10000



Hoist with trolley



YSA-2500T / 3750T / 5000T / 7500T / 10000T

Model	Capacity (ton)	Fall no.	Dimension (mm)											N.W. (kg)
			H	A	B	C	D	E	F	I	J	K	L	
YSA-2500 YSA-2500Ex	25	2	1561	983	481	502	426	131	295	150	112	150	112	580
YSA-3750 YSA-3750Ex	37	3	1840	1163	541	622	426	126	390	140	113	140	113	880
YSA-5000 YSA-5000Ex	50	4	1840	1163	571	592	426	161	265	160	132	160	132	980
YSA-7500 YSA-7500Ex	75	3	2311	1608	693	915	720	234	486	190	162	190	162	2160
YSA-10000 YSA-10000Ex	100	4	2311	1608	693	915	720	282	438	190	162	190	162	2400

Model	Capacity (ton)	Fall no.	Dimension (mm)										N.W. (kg)
			H	A	B	C	D	E	F	G	K	L	
YSA-2500T YSA-2500TEx	25	2	1177	979	352	377	1264	632	632	200~300	140	113	1000
YSA-3750T YSA-3750TEx	37	3	1425	1174	431	443	1685	837	837	200~300	140	113	1500
YSA-5000T YSA-5000TEx	50	4	1425	1174	431	443	1685	837	837	200~300	160	132	1650
YSA-7500T YSA-7500TEx	75	3	1796	1608	543	715	1968	984	984	300~450	190	162	3400
YSA-10000T YSA-10000TEx	100	4	1796	1608	543	715	2170	1085	1085	300~450	190	162	4750

Model		Capacity (ton)	Motor (Kw)	Air supply pressure (kg/cm ²)	Traversing Speed (m/min)	Air consumption (m ³ /min)	Brake type	Air inlet
AT-2500	AT-2500Ex	25	1.5	6	14	2.6	Disk type brake	1/2"
AT-3750	AT-3750Ex	37	1.5	6	14	2.6		1/2"
AT-5000	AT-5000Ex	50	1.5	6	14	2.6		1/2"
AT-7500	AT-7500Ex	75	1.4	6	7	2.6		1/2"
AT-10000	AT-10000Ex	100	2.8	6	7	5.2		1/2"

Model		Capacity (ton)	Fall no.	Load chain (mm)	Lift (m)	Classification	Operation	Working air pressure (kg/cm ²)	Motor (kw)	Speed (m/min)	Air consumption (m ³ /min)	Brake type	Limit switch	Air inlet (in)	Level of noise (dB)		Main line air supply (in)
															Load	No load	
YSA-2500	YSA-2500Ex	25	2	Ø23.5 x 66	3	1Bm	Toggle Cord (TC) or Pendant Control (PC)	6	6.3	1.25	6.5	Disk type brake	Upper/Lower limit	1½"	85	82	2"
YSA-2500T	YSA-2500TEx																
YSA-3750	YSA-3750Ex	37	3	Ø23.5 x 66	3	1Bm		6	6.3	0.75	6.5			1½"	85	82	2"
YSA-3750T	YSA-3750TEx																
YSA-5000	YSA-5000Ex	50	4	Ø23.5 x 66	3	1Bm		6	6.3	0.55	6.5			1½"	85	82	2"
YSA-5000T	YSA-5000TEx																
YSA-7500	YSA-7500Ex	75	3	Ø32 x 90	3	1Bm		6	9	0.53	6			1½"	85	82	2"
YSA-7500T	YSA-7500TEx																
YSA-10000	YSA-10000Ex	100	4	Ø32 x 90	3	1Bm		6	9	0.4	6			1½"	85	82	2"
YSA-10000T	YSA-10000TEx																

Windmill Hoist series



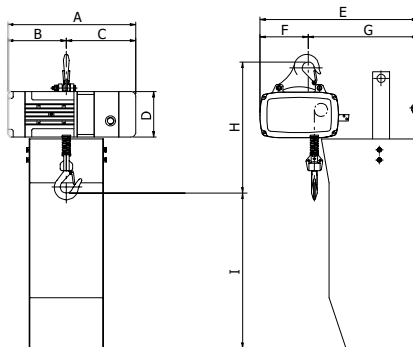
High lifting purpose



▲ Load Sheave

Special application designed high precision load chain sheave incorporates 10 link pockets with 45° angle. Geometry design ensures positive chain link seating resulting in smoother lifting for such continuous long-lift application.

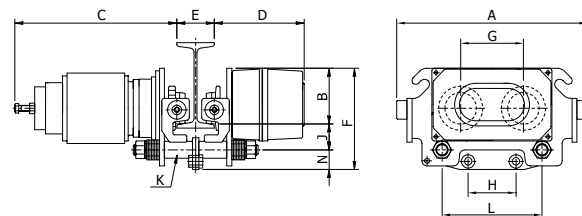
▲ Chain bucket is different from the actual size, the photo reference is for schematic purposes only.



Model	S.W.L. (kg)	Lift (m)	Dimensions (mm)										Load Chain	Hoisting				ED %	Fall No.	N.W. (kg)
			A	B	C	D	E	F	G	H	I	Dia. X pitch (mm)		Speed (m/min)		Motor (kw) (Pole)				
														50Hz	60Hz	50Hz	60Hz			
WNH-012	125	80	380	175	205	135	472	143	329	376	460	Ø4.0 x12.0	20	20	0.6x2P	0.6x2P	40	1	58	
WNH-025	250	80	468	221	247	156	534	186	353	485	701	Ø6.3 x19.1	20	20	1.6x2P	1.6x2P	40	1	111	
WNH-050	500	80	488	240	248	170	554	188	366	520	710	Ø7.1 x20.2	20	20	2.5x2P	2.5x2P	40	1	145	
WNH-100	1000	80	488	240	248	170	624	188	436	520	750	Ø8.0 x24.0	10	10	2.5x2P	2.5x2P	40	1	145	

※Operates on single voltage between 220V~600V, 3 ph ※24V or 110V control voltage for operator safety.

Motorized Trolley



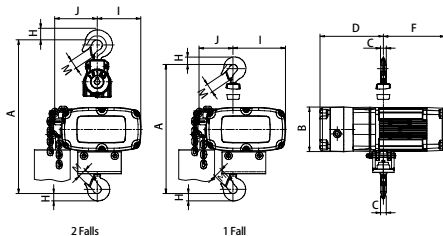
Model	Dimensions (mm)												Speed (m/min)		Motor (kw x pole)	N.W. (kg)	Min radius of curve (m)
	A	B	C	D	E	F	G	H	L	J	N	K	50Hz	60Hz			
WNT-012	385	125	325	180	75-125	217	126	95.5	200	52	41	7/8"-9UNC (Ø22.2)	20	24	0.12x2P	45	1.3
WNT-025	385	125	325	180	75-125	217	126	95.5	200	52	41	7/8"-9UNC (Ø22.2)	20	24	0.12x2P	45	1.3
WNT-050	385	125	325	180	75-125	217	126	95.5	200	52	41	7/8"-9UNC (Ø22.2)	20	24	0.18x2P	45	1.3
WNT-100	385	125	325	180	75-125	217	126	120	210	67	39	1"-8UNC (Ø25.4)	20	24	0.18x2P	45	1.3

※Different flange with options available on request. Maximum:310mm

Concert Hoist series D8/D8 plus



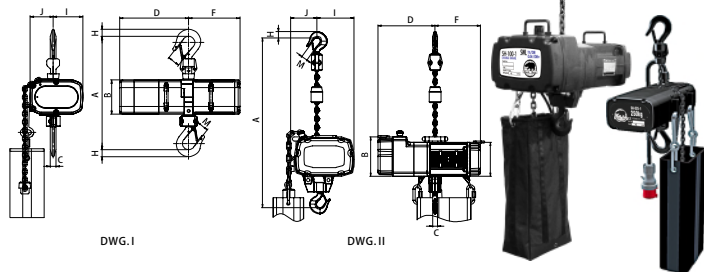
D8



Capacity (kg)	Model	Speed (m/min)		Fall no.	Load Chain (Dia x Pitch) (mm)	Motor (kw x pole)	Dimension (mm)											N.W. (kg)
		50Hz	60Hz				A	B	C	D	F	H	I	J	M			
250	SH-025-1	4.0	4.8	1	Ø4X12	0.25X4	410	135	18	205	175	28	165	85	25	30		
500	SH-050-1	4.0	4.8	1	Ø6.3X19	0.4X4	600	156	23	247	221	33	185	105	30	42		
1000	SH-100-1	4.0	4.8	1	Ø7.1X20.2	0.75X4	650	156	23	247	221	33	185	105	30	47		
2000	SH-200-2	4.0	4.8	2	Ø7.1X20.2	1.5X2	860	170	27	275	240	39	170	170	30	62		

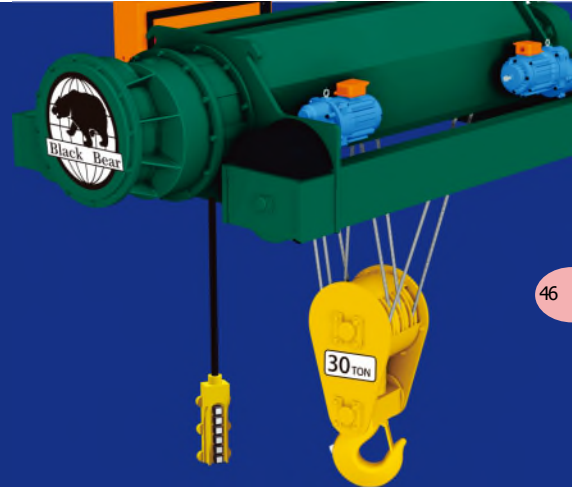
※ 250kg : Double brake

D8 plus



Capacity (kg)		Model	DWG.	Speed (m/min)		Fall no.	Load Chain (Dia x Pitch) (mm)	Motor (kw x pole)	Dimension (mm)											N.W. (kg)
D8 plus	D8			50Hz	60Hz				A	B	C	D	F	H	I	J	M			
125	250	SH-025-1	I	4.0	4.8	1	Ø4X12	0.2X4	350	100	17	200	150	20	86	67	36	13		
500	1000	SH-100-1	II	4.0	4.8	1	Ø7.1X20.2	0.75X4	650	185	23	267	213	33	175	123	30	50		

※ Optional : Speed 8m/min at 50Hz, 9.6m/min at 60 Hz



Electric Wire Rope Hoist





1 AC Brake

New design of AC brake electromagnetic motor disc system works precisely and synchronously with motors.

2 MOTOR

Highly efficiently squirrel cage motors of 40%ED rate (40/20% for dual speed) are quiet, small volume, light weight and suitable for most applications.

3 Control box

IP-20 control box is applied; Higher IP degree is available upon request.

4 Gear box

Hoist reduction gear system are made of alloy steel with surface harden treatment for long lasting life span.

5 Wire rope

According to JIS G 3525 standard wire rope applications.

6 Sheave

The proper diameter of sheave ensures the operation and life span of wire rope.

7 Hook

Hot forged hooks with thrust bearing are enable to be swiveled 360°

Product Code

T	B	H	D	-	500
Model	Gear box	Reeving/Falling			S.W.L.

T : Monorail Trolley
S : Saddle Trolley
F : Footmount

P : 2.2kw x 4P
K : 3kw x 4P
G : 5kw x 4P
B : 7.5~11kw x 4P
BA : 5kw x 4P
CA : 11~13kw x 4P
DA : 13kw x 4P
EA : 13kw x 4P
FA : 18.5kw x 4P

N : 1/1 H : 2/4
M : 1/2 I : 2/6
L : 1/4 J : 2/8
P : 1/6 K : 2/10

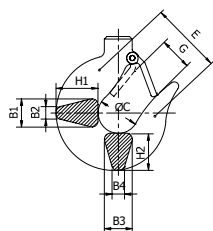
Blank : single speed
D : Only hoist dual speed
D1 : Only trolley dual speed
D2 : Both hoist & trolley dual speed

100 : 1ton
200 : 2ton
300 : 3ton
500 : 5ton
750 : 7.5ton
1000 : 10ton
1500 : 15ton
2000 : 20ton
3000 : 30ton

Wire Rope

Rope Dia (mm) d	Model Being Used	Construction	Specified Breaking Load (kN)
8	TPM-100 FPM-100 TKH-200 SKH-200 FKH-200	6x37-A	34
			53.1
10	TKL-300 SKL-300 FKL-300 TGH-300 SGH-300 FGH-300	IWRC 6x37-A	67.7
	TKM-200 SKM-200 FKM-200	IWRC 6x37-A	84
12	TGL-500 SGL-500 FGL-500 TBH-500 TBAH-500DB SBH-500 SBAH-500 FBH-500 FBAH-500	IWRC 6x37-A	97.4
14	TGM-300 SGM-300 FGM-300	IWRC 6x37-A	123
16	TBH-750 SBH-750	IWRC 6x37-A	161
18	TBL-1000 TCAH-1000 SBL-1000 SCAH-1000	IWRC 6x37-A	234
20	SDAH-1500 SDAH-1500 SFAH-1500 SFAJ-3000	IWRC 6x37-A	289
	SEAL-1500	IWRC 6x37-A	331

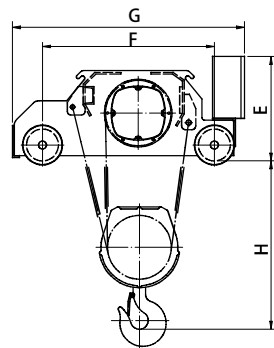
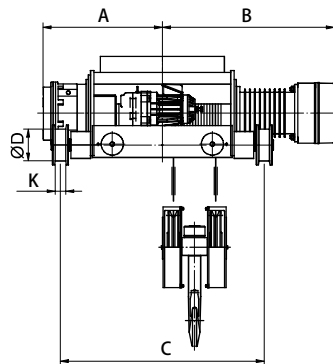
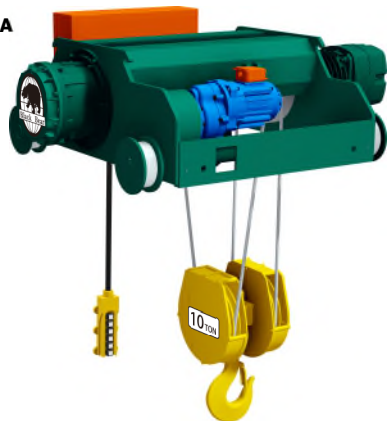
Hook



Model	Capacity (ton)	Dimension (mm)									Allow Stress (kg/mm²)	Hook Block Weight (kg)
		H1	B1	B2	H2	B3	B4	C	G	E		
T;FPM	1	33	23	9	29	23	9	40	27	55	70	10
T;F;SKM	2	45	31	10	41	31	10	46	33	70	70	30
T;F;SKH												
T;F;SGM	3	57	38	12	52	38	12	60	42	100	70	40
T;F;SKL												
T;F;SGH	5	75	48	16	68	48	16	75	56	105	70	40
T;F;SGL												
T;F;SB(A)H	5	75	48	16	68	48	16	75	56	105	70	60
T;SBH	7.5	85	60	22	77	60	22	85	62	140	70	100
T;SBL	10	100	68	27	95	64	27	100	70	150	70	150
T;SCAH												
SDAH	15	120	85	32	110	83	32	120	82	165	70	270
SEAL												
SFAH	20	138	98	36	128	93	36	140	105	220	70	350
SCAL												
SFAJ	30	138	98	36	128	93	36	140	105	220	100	420

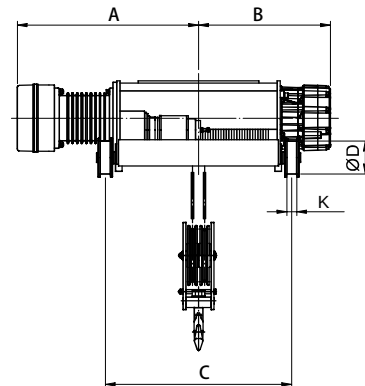
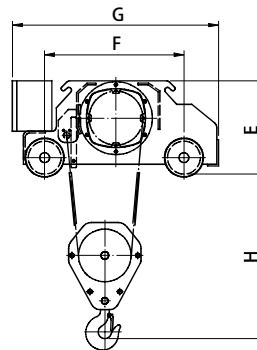
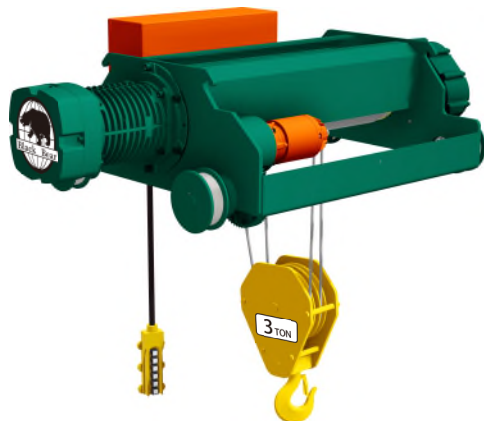
WRH AC Brake series

■ SB(A).SCA.SDA.SEA



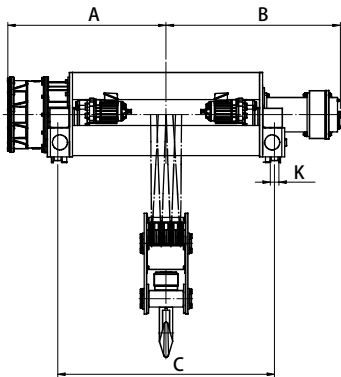
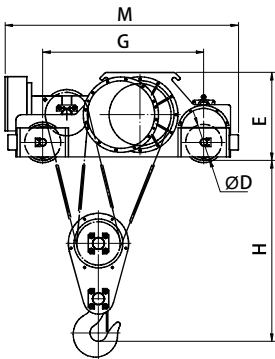
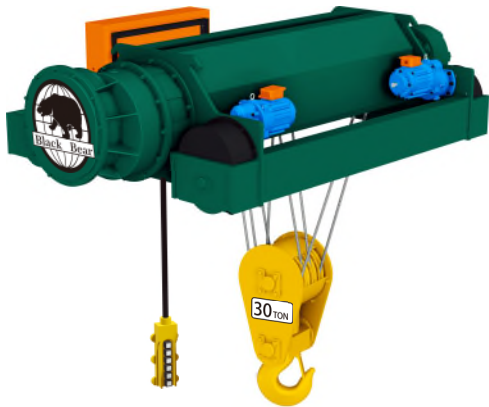
Model	Capacity (ton)	Lift (m)	Hoisting				Traversing					
			Speed (m/min)		Motor kw, pole	% ED		Speed (m/min)		Motor kw, pole	% ED	
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual
SBH-500	5	6	7.3	6.1	7.5 4P	40	40/20	21	18	0.75 4P	40	40/20
		9										
		12	7.3/2.4	6.1/2.0	7.5/2.5 4/12P			21/7	18/6	0.75/0.25 4/12P		
SBAH-500	5	6	5.1	4.3	5 4P	40	40/20	21	18	0.75 4P	40	40/20
		9										
		12	5.1/1.7	4.3/1.4	5/1.7 4/12P			21/7	18/6	0.75/0.25 4/12P		
SBDH-500	7.5	6	7.3	6.1	11 4P	40	40/20	20	17	1.1 4P	40	40/20
		9										
		12	7.3/2.4	6.1/2.0	11/3.7 4/12P			20/6	17/6	1.1/0.37 4/12P		
SBL-1000	10	6	5.0	4.2	11 4P	40	40/20	17	14	1.1 4P	40	40/20
		9										
		12	5.0/1.7	4.2/1.4	11/3.7 4/12P			17/6	14/5	1.1/0.37 4/12P		
SBLD-1000	10	6	5.1	4.3	11 4P	40	40/20	17	14	1.1 4P	40	40/20
		9										
		12	5.1/1.7	4.3/1.4	11/3.7 4/12P			17/6	14/5	1.1/0.37 4/12P		
SCAH-1000	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20
		10										
		12	4.4/1.5	3.7/1.2	13/4.3 4/12P			18/6	15/5	1.5/0.5 4/12P		
SDAH-1500	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20
		10										
		12	4.4/1.5	3.7/1.2	13/4.3 4/12P			18/6	15/5	1.5/0.5 4/12P		
SEAL-1500	20	8	3.2	2.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20
		10										
		12	3.2/1.1	2.7/0.9	13/4.3 4/12P			18/6	15/5	1.5/0.5 4/12P		

Wire Rope		Approximate Dimensions (mm)										Approx. Weight (kg)	
		H	A	B		C	D	E		F	G		K
				Single	Dual			Single	Dual				
ømm	R/F												
ø10	2/4	750	553	776	946	850	150	545	545	690	988	45	680
			603	826	996	850							690
			743	966	1136	1150							720
ø10	2/4	750	553	754	867	850	150	545	545	690	988	45	680
			603	804	917	850							690
			743	944	1056	1150							720
ø14	2/4	1200	608	921	1000	850	160	550	550	790	1095	60	880
			743	1056	1135	1150							1050
			833	1146	1225	1300							1250
ø16	1/4	1300	605	903	982	850	180	590	580	970	1280	60	1070
			673	971	1050	1150							1080
			773	1071	1150	1150							1210
ø16	2/4	1500	702	903	982	850	180	580	580	920	1250	60	1290
			817	1018	1097	1150							1430
			914	1115	1194	1300							1590
ø18	2/4	1600	946	1187	1187	1400	200	720	720	1125	1465	60	2020
			1007	1246	1246	1400							2080
			1066	1305	1305	1600							2210
ø20	1/4	1550	690	1040	1040	1150	200	715	715	1160	1500	60	1600
			735	1086	1086	1150							1815
			801	1152	1152	1300							2050
ø20	1/4	1700	760	1040	1040	1150	200	715	715	1160	1500	60	2010
			806	1086	1086	1150							2140
			872	1152	1152	1300							2290



Model	Capacity (ton)	Lift (m)	Hoisting					Traversing				
			Speed (m/min)		Motor kw, pole	% ED		Speed (m/min)		Motor kw, pole	% ED	
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual
SKM-200	2	6	8	6.7	3 4P	40	40/20	20	17	0.25 4P	40	40/20
SKMD-200		12	8/2.7	6.7/2.2	3/1 4/12P			20/6	17/6	0.25/0.08 4/12P		
SKH-200		6	8	6.7	3 4P			20	17	0.25 4P		
SKHD-200	2	12	8/2.7	6.7/2.2	3/1 4/12P	40	40/20	20/6	17/6	0.25/0.08 4/12P	40	40/20
SKL-300		6	4.4	3.7	3 4P			21	18	0.4 4P	40	40/20
SKLD-300		12	4.4/1.5	3.7/1.2	3/1 4/12P			21/7	18/6	0.4/0.13 4/12P		
SGM-300	3	6	8	6.7	5 4P	40	40/20	21	18	0.4 4P		
SGMD-300		12	8/2.7	6.7/2.2	5/1.7 4/12P			21/7	18/6	0.4/0.13 4/12P		
SGH-300		6	8	6.7	5 4P			21	18	0.4 4P	40	40/20
SGHD-300	3	12	8/2.7	6.7/2.2	5/1.7 4/12P	21/7	18/6	0.4/0.13 4/12P				
SGL-500		6	4.4	3.7	5 4P	21	18	0.75 4P	40	40/20		
SGLD-500		5	12	4.4/1.5	3.7/1.2	5/1.7 4/12P	21/7	18/6			0.75/0.25 4/12P	

Wire Rope		Approximate Dimensions (mm)										Approx. Weight (kg)		
		H	A		B	C	D	E		F	G		K	
			Single	Dual				Single	Dual					
Ø10	1 / 2	600	679	679	401	600	120	390	460	615	923	40	420	
			679	679	401	600							440	
			732	732	462	850							450	
Ø8	2 / 4	600	701	701	462	850	120	390	460	615	923	40	450	
			788	788	509	850							470	
			875	875	612	1150							490	
Ø10	1 / 4	650	729	729	465	850	150	425	495	725	1030	45	500	
			801	801	523	850							530	
			800	953	953	675							1150	560
Ø12	1 / 2	750	702	814	477	850	150	495	495	660	968	45	490	
			702	814	477	850							500	
			804	916	579	850							510	
Ø10	2 / 4	750	754	866	529	850	150	495	495	635	940	45	520	
			827	939	602	850							580	
			944	1056	719	1150							610	
Ø10	1 / 4	700	754	866	529	850	150	495	553	725	1030	45	570	
			700	827	939	602							850	590
			800	974	1086	749							1150	630

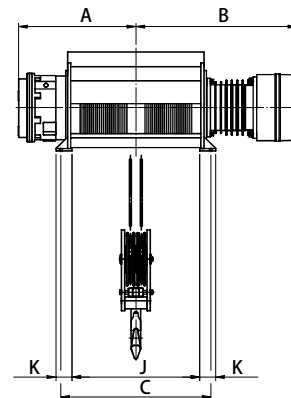
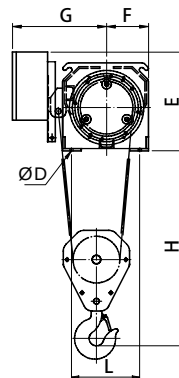
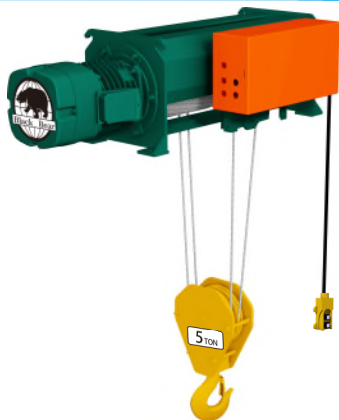


Model	Capacity (ton)	Lift (m)	Hoisting				Traversing					
			Speed (m/min)		Motor kw, pole	% ED		Speed (m/min)		Motor kw, pole	% ED	
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual
SFAH-1500	15	8	6.1	5.1	18.5 4P	40	40/20	18	15	1.5 4P	40	40/20
SFAHD-1500		10	6.1/2.0	5.1/1.7	18.5/6.2 4/12P			18/6	15/5	1.5/0.5 4/12P		
		12										
SFAJ-3000	30	8	3.0	2.5	18.5 4P	40	40/20	21	17.5	1.5X2 4P	40	40/20
SFAJD-3000		10	3.0/1.0	2.5/0.8	18.5/6.2 4/12P			21/7	17.5/5.8	1.5/0.5X2 4/12P		
		12										

Wire Rope		Approximate Dimensions (mm)										Approx. Weight (kg)
		H	A	B		C	D	E	G	K	M	
Single	Dual											
Ø18	2/4	1600	1007	1140	1235	1150	200	725	1150	60	1475	2165
			1053	1186	1281	1400						2401
			1093	1226	1321	1400						2578
Ø18	2/8	1800	1113	1246	1343	1400	300	730	1336	70	1936	2500
			1213	1346	1443	1600						2725
			1313	1446	1543	1800						2950

WRH AC Brake series

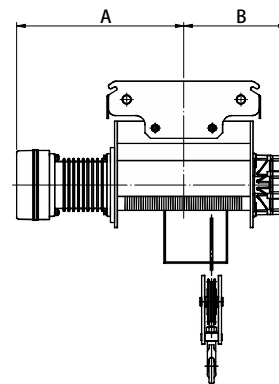
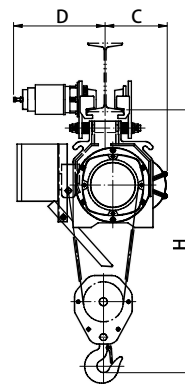
■ FP.FK.FG.FB



Model	Capacity (ton)	Lift (m)	Hoisting				Wire Rope	
			Speed (m/min)		Motor kw, pole	% ED	Ømm	R/F
			60Hz	50Hz				
FPM-100	1	6	10.8	9	2.2 4P	40	Ø8	1 / 2
		9						
		12						
		15						
		6						
FKM-200	2	9	8	6.7	3 4P	40	Ø10	1 / 2
		12						
		15						
		6						
		9						
FKH-200	2	12	8	6.7	3 4P	40	Ø8	2 / 4
		15						
		6						
		9						
		12						
FGM-300	3	15	8	6.7	5 4P	40	Ø12	1 / 2
		6						
		9						
		12						
		15						
FKL-300	3	6	4.4	3.7	3 4P	40	Ø10	1 / 4
		9						
		12						
		15						
		6						
FGH-300	3	9	8	6.7	5 4P	40	Ø10	2 / 4
		12						
		15						
		6						
		9						
FGL-500	5	12	4.4	3.7	5 4P	40	Ø10	1 / 4
		15						
		6						
		9						
		12						
FBH-500	5	15	7.3	6.1	7.5 4P	40	Ø10	2 / 4
		6						
		9						
		12						
		15						
FBAH-500	5	6	5.1	4.3	5 4P	40	Ø10	2 / 4
		9						
		12						
		15						
		6						

Approximate Dimensions (mm)											Approx. Weight (kg)
H	A	B	C	D	E	F	G	J	K	L	
650	314	529	467	Ø16	307	150	436	353	82	280	205
	364	579	567					453			215
	414	629	667					553			225
	480	696	800					686			248
1150	348	627	466	Ø16	402	237	420	352	82	260	319
	401	679	571					457			339
	453	732	676					562			359
	505	784	780					666			379
1150	422	701	614	Ø16	402	237	433	500	82	260	359
	509	788	788					674			399
	596	875	961					847			439
	693	972	1155					1041			474
1250	435	661	482	Ø16	442	250	430	368	82	305	330
	477	703	565					451			350
	579	805	770					656			370
	633	858	878					764			397
1100	450	729	670	Ø16	407	275	443	556	82	310	350
	523	801	815					701			390
	675	953	1119					1005			430
	814	1093	1398					1284			473
1250	529	754	670	Ø16	442	250	443	556	82	305	330
	602	827	815					701			365
	719	944	1049					935			395
	814	1039	1239					1125			435
1100	529	754	670	Ø16	442	285	453	556	82	330	413
	602	827	815					701			433
	749	974	1109					995			490
	859	1084	1329					1215			520
1300	553	776	670	Ø16	452	215	483	556	82	350	483
	603	826	770					656			523
	743	966	1049					935			603
	818	1041	1200					1086			641
1300	553	754	670	Ø16	452	215	483	556	82	350	483
	603	804	770					656			523
	743	944	1049					935			603
	818	1019	1200					1086			641

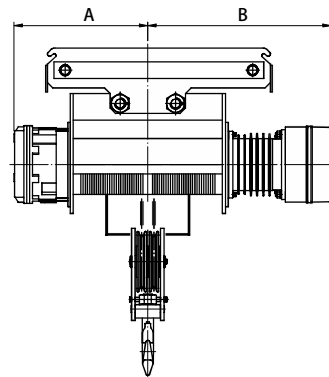
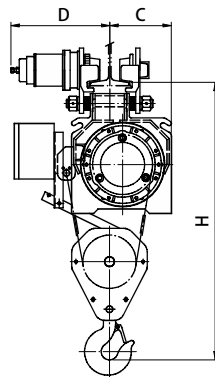
■ TP.TK.TG



Model	Capacity (ton)	Lift (m)	Hoisting				Traversing			
			Speed (m/min)		Motor kw, pole	% ED	Speed (m/min)		Motor kw, pole	% ED
			60Hz	50Hz			60Hz	50Hz		
TPM-100	1	6	10.8	9	2.2 4P	40	24	20	0.25 4P	40
TPMD-100		12	10.8/3.6	9/3	2.2/0.73 4/12P		24/8	20/6	0.25/0.08 4/12P	
TKM-200	2	6	8	6.7	3 4P	40	24	20	0.25 4P	40
TKMD-200		12	8/2.7	6.7/2.2	3/1 4/12P		24/8	20/6	0.25/0.08 4/12P	
TKH-200	2	6	8	6.7	3 4P	40	24	20	0.25 4P	40
TKHD-200		12	8/2.7	6.7/2.2	3/1 4/12P		24/8	20/6	0.25/0.08 4/12P	
TKL-300	3	6	4.4	3.7	3 4P	40	18	15	0.6 4P	40
TKLD-300		12	4.4/1.5	3.7/1.2	3/1 4/12P		18/6	15/5	0.6/0.2 4/12P	
TGM-300	3	6	8	6.7	5 4P	40	18	15	0.6 4P	40
TGMD-300		12	8/2.7	6.7/2.2	5/1.7 4/12P		18/6	15/5	0.6/0.2 4/12P	
TGH-300	3	6	8	6.7	5 4P	40	18	15	0.6 4P	40
TGHD-300		12	8/2.7	6.7/2.2	5/1.7 4/12P		18/6	15/5	0.6/0.2 4/12P	
TGL-500	5	6	4.4	3.7	4 4P	40	18	15	0.6 4P	40
TGLD-500		12	4.4/1.5	3.7/1.2	5/1.7 4/12P		18/6	15/5	0.6/0.2 4/12P	

Wire Rope		Approximate Dimensions (mm)								Approx. Weight (kg)	
		H	A		B	C		D			Adjust for Std. I-Beam (mm)
Ømm	R/F		Single	Dual		Single	Dual	Single	Dual		
Ø8	1/ 2	1050	530	610	314	210	210	390	390	75-125	246
			580	660	364						256
			630	710	414						266
Ø10	1/ 2	1150	627	627	350	271	271	401	401	100-150	370
			680	679	403						390
			732	732	455						410
Ø8	2/4	1150	701	701	422	267	267	403	403	100-150	400
			788	788	509						420
			875	875	596						440
Ø10	1/4	1150	729	729	518	275	275	443	443	125-175	410
		1150	801	801	523						450
		1300	953	953	675						490
Ø12	1/ 2	1200	661	773	435	271	285	442	442	125-175	410
			703	815	477						430
			805	917	579						450
Ø10	2/4	1200	754	866	529	271	285	442	443	125-175	390
			827	939	602						425
			944	1056	719						455
Ø10	1/4	1200	754	866	564	300	300	468	468	125-175	520
		1200	827	939	602						540
		1350	974	1086	749						560

■ TB(A).TCA



Model	Capacity (ton)	Lift (m)	Hoisting				Traversing					
			Speed (m/min)		Motor kw, pole	% ED		Speed (m/min)		Motor kw, pole	% ED	
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual
TBH-500	5	6	7.3	6.1	7.5 4P	40	40/20	18	15	0.6 4P	40	40/20
TBHD-500		9	7.3/2.4	6.1/2.0	7.5/2.5 4/12P			18/6	15/5	0.6/0.2 4/12P		
TBAH-500	5	6	5.1	4.3	5 4P	40	40/20	18	15	0.6 4P	40	40/20
TBAHD-500		9	5.1/1.7	4.3/1.4	5/1.7 4/12P			18/6	15/5	0.6/0.2 4/12P		
TBH-750	7.5	6	7.3	6.1	11 4P	40	40/20	20	17	1.1 4P	40	40/20
TBHD-750		9	7.3/2.4	6.1/2.0	11/3.7 4/12P			20/6	17/6	1.1/0.37 4/12P		
TBL-1000	10	6	5.0	4.2	11 4P	40	40/20	18	15	1.1 4P	40	40/20
TBLD-1000		9	5.0/1.7	4.2/1.4	11/3.7 4/12P			18/6	15/5	1.1/0.37 4/12P		
TCAH-1000	10	6	5.1	4.3	11 4P	40	40/20	18	15	1.1 4P	40	40/20
TCAHD-1000		9	5.1/1.7	4.3/1.4	11/3.7 4/12P			18/6	15/5	1.1/0.37 4/12P		

Wire Rope		Approximate Dimensions (mm)								Adjust for Std. I-Beam (mm)	Approx. Weight (kg)
		H	A	B		C		D			
Ømm	R/F					Single	Dual	Single	Dual	Single	Dual
Ø10	2/4	1250	553	776	946	278	315	445	453	125-175	590
			603	826	996						630
			743	966	1136						710
Ø10	2/4	1250	553	754	867	278	315	445	453	125-175	590
			603	804	917						630
			743	944	1056						710
Ø14	2/4	2000	608	921	1000	294	294	642	642	150-200	990
			743	1056	1135						1020
			833	1146	1225						1060
Ø16	1/4	2000	605	903	982	380	380	640	725	150-200	970
			673	971	1050			640	725		1000
			773	1071	1150			585	625		1040
Ø16	2/4	2250	702	904	984	335	335	635	715	150-200	1100
			817	1019	1099			635	715		1170
			914	1116	1196			576	620		1240



1 DC Brake

New design of DC brake electromagnetic motor disc system works precisely and synchronously with motors, and with a rectifier for trouble free.

- 1.Intorq, Lenze Germany made.
- 2.Durable wear-resisting.
- 3.Rapid reaction with low noise.
- 4.Installation convenient as an integral design.

2 MOTOR

Highly efficiently squirrel cage motors of 40%ED rate (40/20% for dual speed) are quiet, small volume, light weight and suitable for most applications.

3 Control box

IP-20 control box is applied; Higher IP degree is available upon request.

4 Gear box

Hoist reduction gear system are made of alloy steel with surface harden treatment for long lasting life span.

5 Wire rope

According to JIS G 3525 standard wire rope applications.

6 Sheave

The proper diameter of sheave ensures the operation and life span of wire rope.

7 Hook

Hot forged hooks with thrust bearing are enable to be swiveled 360°

Product Code

T	B	H	D	-	500	DB
Model	Gear box	Reeving/Falling			S.W.L.	DC Brake

T : Monorail Trolley
S : Saddle Trolley
F : Footmount

P : 2.2kw x 4P
K : 3kw x 4P
G : 5kw x 4P
B : 7.5~11kw x 4P
BA : 5kw x 4P
CA : 11~13kw x 4P
DA : 15kw x 4P
EA : 13kw x 4P
FA : 18.5kw x 4P

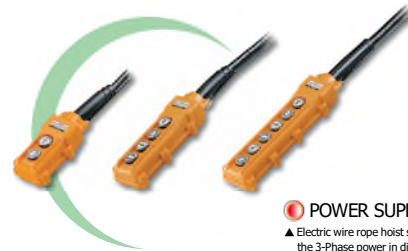
N : 1/1 H : 2/4
M : 1/2 I : 2/6
L : 1/4 J : 2/8
P : 1/6 K : 2/10

Blank : single speed 100 : 1ton
D : Only hoist dual speed 200 : 2ton
D1 : Only trolley dual speed 300 : 3ton
D2 : Both hoist & trolley dual speed 500 : 5ton
750 : 7.5ton
1000 : 10ton
1500 : 15ton
2000 : 20ton
3000 : 30ton

Wire Rope

Rope Dia (mm) d	Mode Being Used	Construction	Specified Breaking Load (kn)
8	TPM-100DB FPM-100DB TKH-200DB SKH-200DB FKH-200DB	6x37-A	34
10	TKL-300DB SKL-300DB FKL-300DB TGH-300DB SGH-300DB FGH-300DB		53.1
	TKM-200DB SKM-200DB FKM-200DB	IWRC 6xFi(29)-B	67.7
	TGL-500DB SGL-500DB FGL-500DB TBH-500DB TBAH-500DB SBH-500DB SBAH-500DB FBH-500DB FBAH-500DB	IWRC 6xPi(29)-H	84
12	TGM-300DB SGM-300DB FGM-300DB	IWRC 6xFi(29)-B	97.4
14	TBH-750DB SBH-750DB	6x37-H	123
16	TBL-1000DB TCAH-1000DB SBL-1000DB SCAH-1000DB	6x37-H	161
18	SDAH-1500DB SFAH-1500DB SFAJ-3000DB	IWRC 6xFi(29)-H	234
20	SEAL-1500DB		289
	SCAL-2000DB	IWRC 6xPi(29)-H	331

Pendant Control



POWER SUPPLY :

- ▲ Electric wire rope hoist suits majority of the 3-Phase power in different countries, available in 50Hz or 60Hz, voltage from 220V up to 600V.
- ▲ Dual-volt hoist subject to our confirmation.

PUSH BUTTON SWITCH :

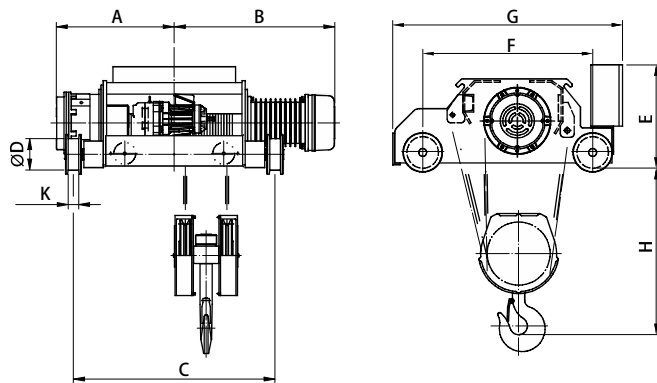
- ▲ 2-point type : up and down.
- ▲ 4-point type : up and down ; left and right (trolley).
- ▲ 6-point type : up and down ; left and right : forward and reverse (end carrier)

LIFTING HEIGHT :

- ▲ Standard lifting height : Please refer to specifications.
- ▲ Optional height available upon request.

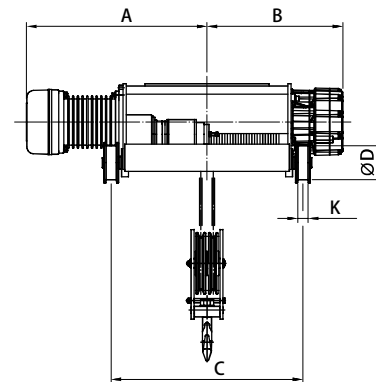
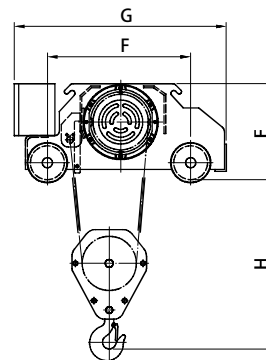
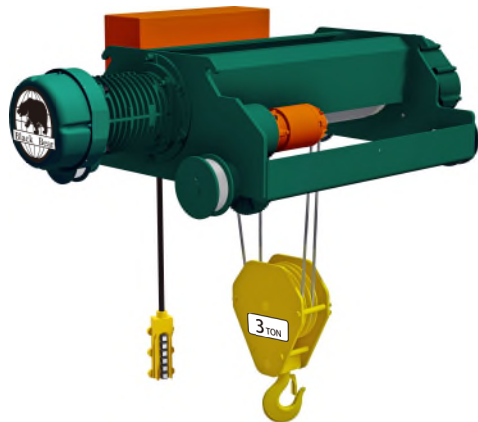
WRH DC Brake series

■ SB(A).SCA.SDA.SEA



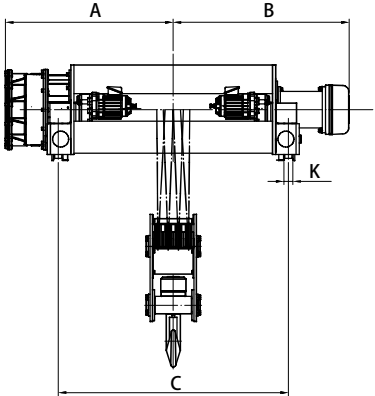
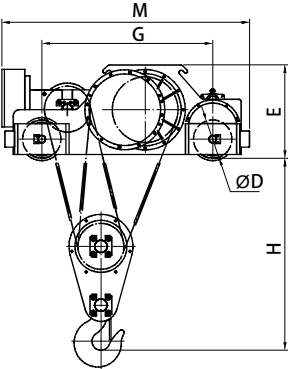
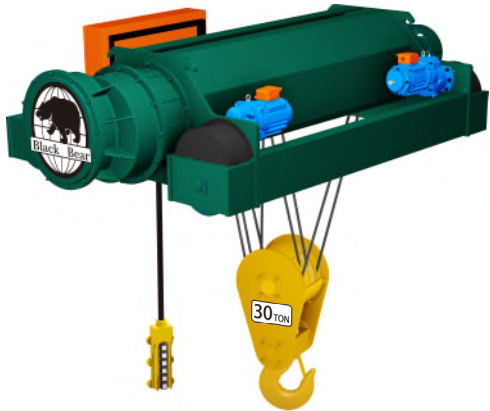
Model	Capacity (ton)	Lift (m)	Hoisting					Traversing				
			Speed (m/min)		Motor kw, pole	% ED		Speed (m/min)		Motor kw, pole	% ED	
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual
SBH-500DB	5	6	7.3	6.1	7.5 4P	40	40/20	21	18	0.75 4P	40	40/20
SBHD-500DB		9	7.3/2.4	6.1/2.0	7.5/2.5 4/12P			21/7	18/6	0.75/0.25 4/12P		
SBAH-500DB	5	6	5.1	4.3	5 4P	40	40/20	21	18	0.75 4P	40	40/20
SBAHD-500DB		9	5.1/1.7	4.3/1.4	5/1.7 4/12P			21/7	18/6	0.75/0.25 4/12P		
SBH-750DB	7.5	6	7.3	6.1	11 4P	40	40/20	20	17	1.1 4P	40	40/20
SBHD-750DB		9	7.3/2.4	6.1/2.0	11/3.7 4/12P			20/6	17/6	1.1/0.37 4/12P		
SBL-1000DB	10	6	5.0	4.2	11 4P	40	40/20	17	14	1.1 4P	40	40/20
SBLD-1000DB		9	5.0/1.7	4.2/1.4	11/3.7 4/12P			17/6	14/5	1.1/0.37 4/12P		
SCAH-1000DB	10	6	5.1	4.3	11 4P	40	40/20	17	14	1.1 4P	40	40/20
SCAHD-1000DB		9	5.1/1.7	4.3/1.4	11/3.7 4/12P			17/6	14/5	1.1/0.37 4/12P		
SDAH-1500DB	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20
SDAHD-1500DB		10	4.4/1.5	3.7/1.2	13/4.3 4/12P			18/6	15/5	1.5/0.5 4/12P		
SEAL-1500DB	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20
SEALD-1500DB		10	4.4/1.5	3.7/1.2	13/4.3 4/12P			18/6	15/5	1.5/0.5 4/12P		
SCAL-2000DB	20	8	3.2	2.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20
SCALD-2000DB		10	3.2/1.1	2.7/0.9	13/4.3 4/12P			18/6	15/5	1.5/0.5 4/12P		

Wire Rope		Approximate Dimensions (mm)										Approx. Weight (kg)	
		H	A	B		C	D	E		F	G		K
				Single	Dual			Single	Dual				
Ømm	R/F												
Ø10	2/4	750	553	722	875	850	150	545	545	690	988	45	680
			603	772	925	850							690
			743	912	1065	1150							720
Ø10	2/4	750	553	729	812	850	150	545	580	920	1250	60	1290
			603	779	862	850							1430
			743	919	1001	1150							1590
Ø14	2/4	1200	608	867	929	850	160	550	550	790	1095	60	880
			743	1002	1064	1150							1050
			833	1092	1154	1300							1250
Ø16	1/4	1300	605	849	911	850	180	590	580	970	1310	60	1070
			673	917	979	1150							1080
			773	1017	1079	1150							1210
Ø16	2/4	1500	702	849	911	850	180	580	580	920	1250	60	1290
			817	964	1026	1150							1430
			914	1061	1123	1300							1590
Ø18	2/4	1600	946	1116	1116	1400	200	720	720	1125	1465	60	2020
			1007	1175	1175	1400							2080
			1066	1234	1234	1600							2210
Ø20	1/4	1550	690	969	969	1150	200	715	715	1160	1500	60	1600
			735	1014	1014	1150							1815
			801	1080	1080	1300							2050
Ø20	1/4	1700	760	969	969	1150	200	715	715	1160	1500	60	2010
			806	1014	1014	1150							2140
			872	1080	1080	1300							2290



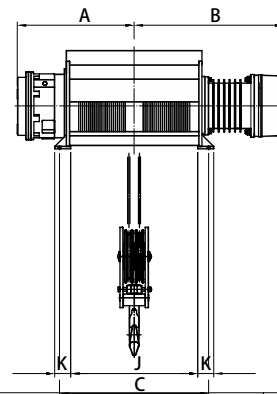
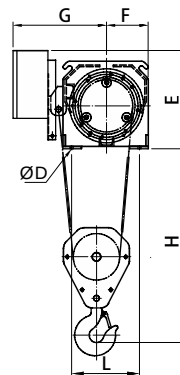
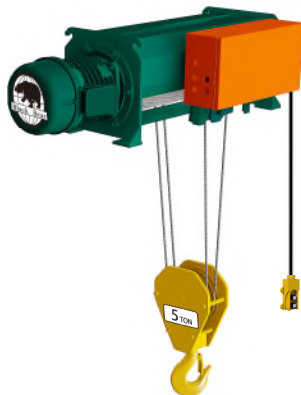
Model	Capacity (ton)	Lift (m)	Hoisting				Traversing					
			Speed (m/min)		Motor kw, pole	% ED		Speed (m/min)		Motor kw, pole	% ED	
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual
SKM-200DB	2	6	8	6.7	3 4P	40	40/20	20	17	0.25 4P	40	40/20
SKMD-200DB		9	8/2.7	6.7/2.2	3/1 4/12P			20/6	17/6	0.25/0.08 4/12P		
SKH-200DB	2	6	8	6.7	3 4P	40	40/20	20	17	0.25 4P	40	40/20
SKHD-200DB		9	8/2.7	6.7/2.2	3/1 4/12P			20/6	17/6	0.25/0.08 4/12P		
SKL-300DB	3	6	4.4	3.7	3 4P	40	40/20	21	18	0.4 4P	40	40/20
SKLD-300DB		9	4.4/1.5	3.7/1.2	3/1 4/12P			21/7	18/6	0.4/0.13 4/12P		
SGM-300DB	3	6	8	6.7	5 4P	40	40/20	21	18	0.4 4P	40	40/20
SGMD-300DB		9	8/2.7	6.7/2.2	5/1.7 4/12P			21/7	18/6	0.4/0.13 4/12P		
SGH-300DB	3	6	8	6.7	5 4P	40	40/20	21	18	0.4 4P	40	40/20
SGHD-300DB		9	8/2.7	6.7/2.2	5/1.7 4/12P			21/7	18/6	0.4/0.13 4/12P		
SGL-500DB	5	6	4.4	3.7	5 4P	40	40/20	21	18	0.75 4P	40	40/20
SGLD-500DB		9	4.4/1.5	3.7/1.2	5/1.7 4/12P			21/7	18/6	0.75/0.25 4/12P		

Wire Rope		Approximate Dimensions										Approx. Weight (Kg)	
		H	A		B	C	D	E		F	G		K
			Single	Dual				Single	Dual				
Ømm	R/F												
Ø10	1 / 2	600	679	679	401	600	120	390	460	615	923	40	420
			679	679	401	600							440
			732	732	462	850							450
Ø8	2 / 4	600	701	701	462	850	120	390	460	615	923	40	450
			788	788	509	850							470
			874	874	612	1150							490
Ø10	1 / 4	650	729	729	465	850	150	425	495	725	1030	45	500
		650	801	801	523	850							530
		860	953	953	675	1150							560
Ø12	1 / 2	750	677	760	477	850	150	495	495	660	968	45	490
			677	760	477	850							500
			779	862	579	850							510
Ø10	2 / 4	750	729	812	529	850	150	495	495	635	940	45	520
			802	885	602	850							580
			919	1002	719	1150							610
Ø10	1 / 4	700	729	812	529	850	150	495	553	725	1038	45	570
		700	802	885	602	850							590
		800	949	1032	749	1150							630



Model	Capacity (ton)	Lift (m)	Hoisting						Traversing					
			Speed (m/min)		Motor kw, pole	% ED		Speed (m/min)		Motor kw, pole	% ED			
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual		
SFAH-1500DB	15	8	6.1	5.1	18.5 4P	40	40/20	18	15	1.5 4P	40	40/20		
SFAHD-1500DB		10	6.1/2.0	5.1/1.7	18.5/6.2 4/12P			18/6	15/5	1.5/0.5 4/12P				
		12												
SFAJ-3000DB	30	8	3.0	2.5	18.5 4P	40	40/20	21	17.5	1.5X2 4P	40	40/20		
		10												
SFAJD-3000DB		12	3.0/1.0	2.5/0.8	18.5/6.2 4/12P			21/7	17.5/5.8	1.5/0.5X2 4/12P				

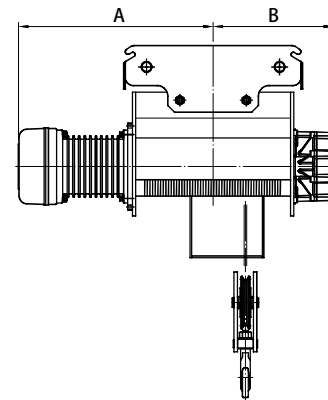
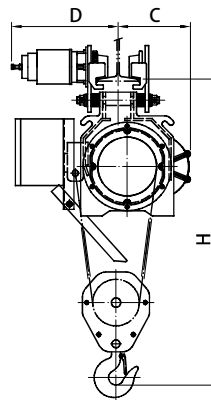
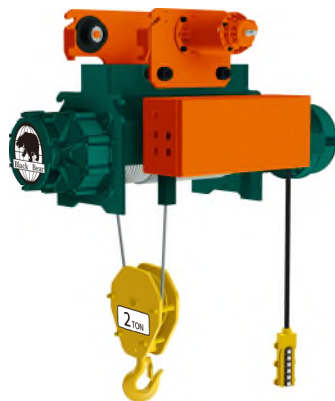
Wire Rope		Approximate Dimensions (mm)										Approx. Weight (kg)
		H	A	B		C	D	E	G	K	M	
				Single	Dual							
Ø18	2/4	1600	1007	1069	1187	1150	200	725	1150	60	1475	2165
			1053	1115	1233	1400						2401
			1093	1155	1273	1400						2578
Ø18	2/8	1800	1113	1175	1293	1400	300	730	1336	70	1936	2500
			1213	1275	1393	1600						2725
			1313	1375	1493	1800						2950



Model	Capacity (ton)	Lift (m)	Hoisting				Wire Rope	
			Speed (m/min)		Motor kw, pole	% ED	Ømm	R/F
			60Hz	50Hz				
FPM-100DB	1	6	10.8	9	2.2 4P	40	Ø8	1/2
		9						
		12						
		15						
		6						
FKM-200DB	2	9	8	6.7	3 4P	40	Ø10	1/2
		12						
		15						
		6						
		9						
FKH-200DB	2	12	8	6.7	3 4P	40	Ø8	2/4
		15						
		6						
		9						
		12						
FGM-300DB	3	15	8	6.7	5 4P	40	Ø12	1/2
		6						
		9						
		12						
		15						
FKL-300DB	3	6	4.4	3.7	3 4P	40	Ø10	1/4
		9						
		12						
		15						
		6						
FGH-300DB	3	9	8	6.7	5 4P	40	Ø10	2/4
		12						
		15						
		6						
		9						
FGL-500DB	5	12	4.4	3.7	5 4P	40	Ø10	1/4
		15						
		6						
		9						
		12						
FBH-500DB	5	15	7.3	6.1	7.5 4P	40	Ø10	2/4
		6						
		9						
		12						
		15						
FBAH-500DB	5	6	5.1	4.3	5 4P	40	Ø10	2/4
		9						
		12						
		15						

Approximate Dimensions (mm)											Approx. Weight (kg)
H	A	B	C	D	E	F	G	J	K	L	
650	314	540	467	Ø16	307	150	436	353	82	280	205
	364	590	567					453			215
	414	640	667					553			225
	480	707	800					686			248
	348	627	466					352			319
1150	401	679	571	Ø16	402	237	420	457	82	260	339
	453	732	676					562			359
	505	783	780					666			379
	422	701	614					500			359
	509	788	788					674			399
1150	596	874	861	Ø16	402	237	433	947	82	260	439
	693	970	1155					1041			474
	435	635	482					368			330
	477	676	565					451			350
	579	779	770					656			370
1250	633	833	878	Ø16	442	250	430	764	82	305	397
	450	729	670					556			350
	523	801	815					701			390
	675	953	1119					1005			430
	814	1092	1398					1284			473
1250	529	729	670	Ø16	402	250	443	556	82	305	330
	602	802	815					701			365
	719	919	1049					935			395
	814	1013	1239					1125			435
	529	729	670					556			413
1100	602	802	815	Ø16	442	285	453	701	82	330	433
	719	919	1049					995			490
	805	1004	1221					1215			520
	553	722	670					556			483
	603	772	770					656			523
1300	743	912	1049	Ø16	452	215	483	935	82	350	603
	818	987	1200					1086			641
	553	729	670					556			483
	603	779	770					656			523
	743	919	1049					935			603
1300	818	996	1200	Ø16	452	215	483	1086	82	350	641

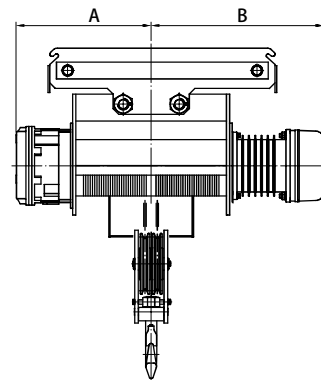
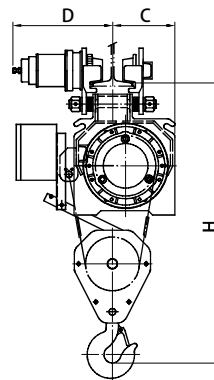
■ TP.TK.TG



Model	Capacity (ton)	Lift (m)	Hoisting				Traversing			
			Speed (m/min)		Motor kw, pole	% ED	Speed (m/min)		Motor kw, pole	% ED
			60Hz	50Hz			60Hz	50Hz		
TPM-100DB	1	6	10.8	9	2.2 4P	40	24	20	0.25 4P	40
		9	10.8/3.6	9/3	2.2/0.73 4/12P		24/8	20/6	0.25/0.08 4/12P	
TKM-200DB	2	6	8	6.7	3 4P	40	24	20	0.25 4P	40
		12	8/2.7	6.7/2.2	3/1 4/12P		24/8	20/6	0.25/0.08 4/12P	
TKH-200DB	2	6	8	6.7	3 4P	40	24	20	0.25 4P	40
		12	8/2.7	6.7/2.2	3/1 4/12P		24/8	20/6	0.25/0.08 4/12P	
TKL-300DB	3	6	4.4	3.7	3 4P	40	18	15	0.6 4P	40
		12	4.4/1.5	3.7/1.2	3/1 4/12P		18/6	15/5	0.6/0.2 4/12P	
TGM-300DB	3	6	8	6.7	5 4P	40	18	15	0.6 4P	40
		12	8/2.7	6.7/2.2	5/1.7 4/12P		18/6	15/5	0.6/0.2 4/12P	
TGH-300DB	3	6	8	6.7	5 4P	40	18	15	0.6 4P	40
		12	8/2.7	6.7/2.2	5/1.7 4/12P		18/6	15/5	0.6/0.2 4/12P	
TGLD-500DB	5	6	4.4	3.7	5 4P	40	18	15	0.6 4P	40
		12	4.4/1.5	3.7/1.2	5/1.7 4/12P		18/6	15/5	0.6/0.2 4/12P	

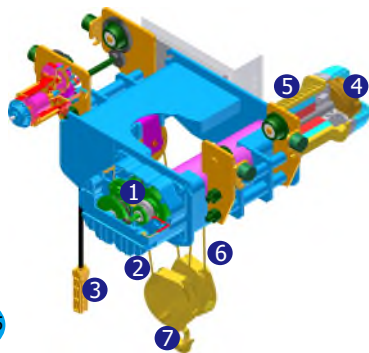
Wire Rope		Approximate Dimensions (mm)								Approx. Weight (kg)			
		H	A		B	C		D			Adjust for Std. I-Beam (mm)		
			Single	Dual		Single	Dual	Single	Dual				
Ømm	R/F												
Ø8	1/ 2	1050	540	621	314	210	210	390	390	75-125	246		
			590	671	364						256		
			640	721	414						266		
			627	627	350						370		
Ø10	1/ 2	1150	679	679	403	271	2714	401	401	100-150	390		
			732	732	455						410		
			701	701	422						400		
			788	788	509						420		
Ø8	2/4	1150	874	874	596	267	267	403	403	100-150	440		
			729	729	518						410		
			801	801	523						450		
			953	953	675						490		
Ø10	1/4	1200	635	718	435	275	275	443	443	125-175	410		
			677	760	477						430		
			779	862	579						450		
			729	812	529						390		
Ø12	1/ 2	1200	802	885	602	271	285	442	442	125-175	425		
			919	1002	719						455		
			729	812	564						520		
			802	885	602						540		
Ø10	2/4	1200	949	1032	749	300	300	468	468	125-175	560		

■ TB(A).TCA



Model	Capacity (ton)	Lift (m)	Hoisting				Traversing					
			Speed (m/min)		Motor kw, pole	% ED		Speed (m/min)		Motor kw, pole	% ED	
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual
TBH-500DB	5	6	7.3	6.1	7.5 4P	40	40/20	18	15	0.6 4P	40	40/20
TBHD-500DB		9	7.3/2.4	6.1/2.0	7.5/2.5 4/12P			18/6	15/5	0.6/0.2 4/12P		
TBAH-500DB	5	6	5.1	4.3	5 4P	40	40/20	18	15	0.6 4P	40	40/20
TBAHD-500DB		9	5.1/1.7	4.3/1.4	5/1.7 4/12P			18/6	15/5	0.6/0.2 4/12P		
TBH-750DB	7.5	6	7.3	6.1	11 4P	40	40/20	20	17	1.1 4P	40	40/20
TBHD-750DB		9	7.3/2.4	6.1/2.0	11/3.7 4/12P			20/6	17/6	1.1/0.37 4/12P		
TBL-1000DB	10	6	5.0	4.2	11 4P	40	40/20	18	15	1.1 4P	40	40/20
TBLD-1000DB		9	5.0/1.7	4.2/1.4	11/3.7 4/12P			18/6	15/5	1.1/0.37 4/12P		
TCAH-1000DB	10	6	5.1	4.3	11 4P	40	40/20	18	15	0.75x2 4P	40	40/20
TCAHD-1000DB		9	5.1/1.7	4.3/1.4	11/3.7 4/12P			18/6	15/5	0.75/0.25x2 4/12P		

Wire Rope		Approximate Dimensions (mm)								Adjust for Std. I-Beam (mm)	Approx. Weight (kg)
		H	A	B		C		D			
Ømm	R/F					Single	Dual	Single	Dual	Single	Dual
Ø10	2/4	1250	553	722	875	278	315	445	453	125-175	590
			603	772	925						630
			743	912	1065						710
Ø10	2/4	1250	553	729	813	278	315	445	453	125-175	590
			603	779	863						630
			743	919	1001						710
Ø14	2/4	2000	608	867	929	294	294	642	642	150-200	990
			743	1002	1064						1020
			833	1092	1154						1060
Ø16	1/4	2000	605	849	911	380	380	640	725	150-200	970
			673	917	979			640	725		1000
			773	1017	1079			585	625		1040
Ø16	2/4	2250	70	849	911	335	335	635	715	150-200	1100
			817	964	1026			635	715		1170
			914	1061	1123			576	620		1240



1 Mechanical Load Brake

The advanced design of the mechanical load brake provides braking without hook drift, independent of the motor brake.

2 Wire Rope

High Strength 19x7 IWSC (195kg/mm²)
Wire Rope has swaged fittings on both ends.

3 Push Button Station

(USA) IP-65 Push Button Station is standard and it's light weight and durable.

4 Motor Brake (DC/AC)

Our DC (AC) Brake provides instant braking, with smooth, controlled starting and stopping.

5 Motor

Hoist duty motors are made of heavy cast iron that provide maximum cooling during even the toughest operating conditions. The class F motor insulation (single speed) are rated for H4 service. Other insulation classes and thermal rating are available upon request.

6 Lift

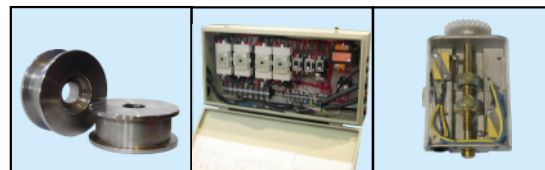
True vertical lift standard on low headroom hoists.

7 Hook

Our high strength forged steel hook comes equipped with a safety latch and a thrust bearing which enables the hook to swivel 360 degrees.

Product Code

T	UD	H	D	—	500	DB
Model	Gear box	Reeving			S.W.L.	DC Brake
T : Monorail Trolley S : Top Running Trolley F : Footmount	UA : 2.2 kw X 1800RPM UB : 3.5 kw X 1800RPM UC : 5 kw X 1800RPM UD : 6.5 kw X 1800RPM UEA : 8 kw X 1800RPM UFA : 11 kw X 1800RPM UG : 22/30 kw X 1800RPM UI : 13 kw X 1800RPM	H : 2PD I : 3PD J : 4PD K : 5PD R : 6PD	Blank : Single speed D : Only hoist dual speed D1 : Only trolley dual speed D2 : Both hoist & trolley dual speed		200 : 2ton 300 : 3ton 500 : 5ton 750 : 7.5ton 1000 : 2ton 1500 : 3ton 2000 : 5ton 2500 : 7.5ton 3000 : 3ton 4000 : 5ton 5000 : 7.5ton	Blank : AC brake



▲ Traverse wheel

• The trolley wheels are made with hardened AISI 1045 carbon steel to BRH 380-420 equipped with life time lubricated bearings.

• All wheels equipped with double sealed, lifetime lubricated ball bearings with an L10 rating of 10,000 hours.

▲ Control box

The control box is IP-42.
(Stainless Steel material as option)
IP-56 available as an optional item.

▲ Optional

Geared upper / lower (control circuit) limit switch is available in a two contact arrangement, NEMA 1 enclosure.



◀ Trolley wheel

The trolley wheels are made from AISI

1045 carbon steel, surface hardened to 380-420 brinell. Compound tread design allows usage on both ASI or wide flange beams. Equipped with life time lubricated bearings.

◀ Optional encoder

This double C-face encoder is mounted directly to the totally enclosed motor brake assembly. If desired, the encoder can also be mounted on the gear case cover.

▶ DC brake

The DC brake operates quietly and provides long life under normal operation (in excess of 3 million actuations).

If desired, the earlier model AC brake is available for commonality of parts.

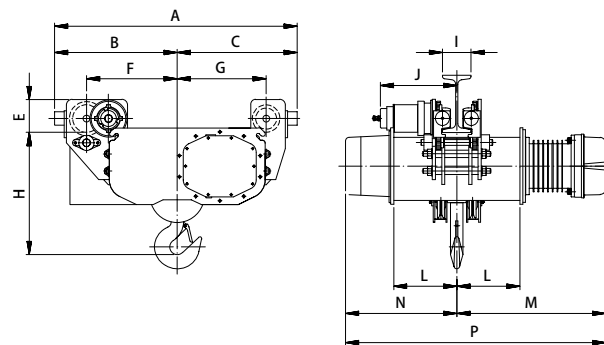
▶ Drum

The drum is made of ASTM A283M carbon steel and machined in accordance with CMAA 70 - 4.6.



WRH (USA) DC Brake series

■TU

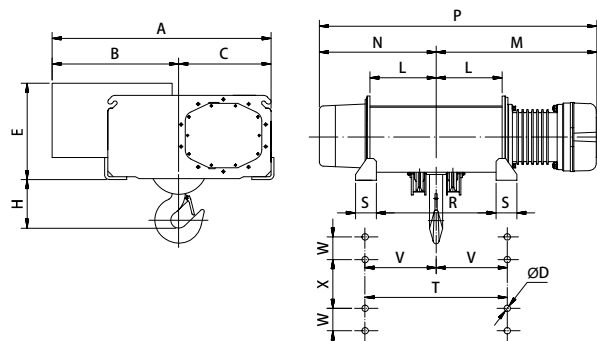


Model	Capacity (ton)	Lift (m)	Hoisting			Traversing			Wire Rope Ømm	Reeving Type	A
			Speed (m/min)		Motor kw	Speed (m/min)		Motor kw			
			60Hz	50Hz		60Hz	50Hz				
TUAH-100DB	1	6	10.2	8.5	2.2	15.0	12.5	0.25	Ø6	2/4	1310
TUAHD-100DB		9									
		12	10.2/3.4	8.5/2.8	2.2/0.73	15.0/5.0	12.5/4.2	0.25/0.08			
TUBH-200DB	2	6	8.7	7.3	3.5	15.0	12.5	0.4	Ø8	2/4	1310
TUBHD-200DB		9									
		12	8.7/2.9	7.3/2.4	3.5/1.2	15.0/5.0	12.5/4.2	0.4/0.13			
TUCH-300DB	3	6	6.7	5.6	5.0	15.0	12.5	0.4	Ø10	2/4	1420
TUCHD-300DB		9									
		12	6.7/2.2	5.6/1.8	5.0/1.7	15.0/5.0	12.5/4.2	0.4/0.13			
TUDH-500DB	5	6	5.8	4.8	6.5	15.0	12.5	0.75	Ø10	2/4	1420
TUDHD-500DB		9									
		12	5.8/1.9	4.8/1.6	6.5/2.2	15.0/5.0	12.5/4.2	0.75/0.25			
TUEAH-750DB	7.5	6	4.8	4.0	8.0	17.3	14.0	1.1	Ø12	2/4	1770
TUEAHD-750DB		9									
		12	4.8/1.6	4.0/1.3	8.0/2.7	17.3/5.8	14.0/4.7	1.1/0.4			
TUFAH-1000DB	10	6	5.0	4.2	11.0	15.0	12.5	1.5	Ø14	2/4	1830
TUFAHD-1000DB		9									
		12	5.0/1.7	4.2/1.4	11.0/3.7	15.0/5.0	12.5/4.2	1.5/0.5			
TUIH-1500DB	15	6	4.3	3.6	13.0	16.0	13.3	1.5	Ø18	2/4	2080
TUIHD-1500DB		9									
		12	4.3/1.4	3.6/1.2	13.0/4.3	16.0/5.3	13.3/4.4	1.5/0.5			
TUII-2000DB	20	6	3.2	2.7	13.0	18.0	15.0	2.2	Ø18	2/6	2290
TUIID-2000DB		9									
		12	3.2/1.1	2.7/0.9	13.0/4.3	18.0/6.0	15.0/5.0	2.2/0.75			

Dimensions (mm)														Trolley Wheels Adjustment (mm)	Approx. Weight (kg)	
B	C	E	F	G	H	I	J	L	M		N	P			(S)	(D)
									(S)	(D)		(S)	(D)			
700	620	135	510	455	550	100	350	272	627	709	463	1090	1172	100~285	440	
								353	706	787	543	1249	1330		500	
								432	787	869	623	1410	1492		560	
								323	716	757	513	1229	1270		477	
700	620	135	520	455	600	100	450	427	823	864	618	1441	1482	100~285	510	
								534	927	968	723	1650	1691		570	
								330	775	859	610	1385	1469		673	
								432	874	960	711	1585	1671		700	
720	710	180	520	525	700	125	550	506	950	1036	787	1737	1823	125~330	735	
								330	770	859	610	1380	1469		700	
								432	869	958	711	1580	1669		750	
								506	945	1034	787	1732	1821		780	
900	875	280	711	680	1000	150	720	358	889	950	729	1618	1679	150~355	1373	1483
								457	988	1049	828	1816	1877		1441	1551
								556	1090	1151	927	2017	2078		1510	1620
								358	889	953	728	1617	1681		1400	1500
930	900	280	720	690	1100	150	720	457	989	1052	828	1816	1880	150~355	1500	1600
								556	1090	1153	928	2018	2081		1623	1723
								452	1049	1049	805	1854	1854		2077	2132
								554	1151	1151	904	2055	2055		2100	2150
1080	1000	290	780	790	1500	150	720	663	1260	1260	1013	2273	2273	150~355	2177	2232
								533	1130	1130	886	2017	2017		2736	2791
								681	1278	1278	1031	2309	2309		2905	2959
								831	1427	1427	1181	2609	2609		3073	3127

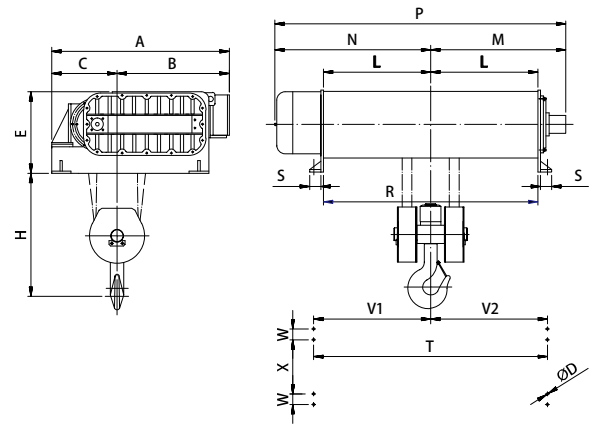
WRH (USA) DC Brake series

■ FU



Model	Capacity (ton)	Lift (m)	Hoisting			Wire Rope	Reeving Type			
			Speed (m/min)		Motor			A	B	C
			60Hz	50Hz	kw	Ømm				
FUAH-100DB	1	6	10.2	8.5	2.2	Ø6	2/4	1020	597	422
FUAHD-100DB		9	10.2/3.4	8.5/2.8	2.2/7.3					
FUAHD-100DB		12	10.2/3.4	8.5/2.8	2.2/7.3					
FUBH-200DB	2	6	8.7	7.3	3.5	Ø8	2/4	1020	597	422
FUBHD-200DB		9	8.7/2.9	7.3/2.4	3.5/1.2					
FUBHD-200DB		12	8.7/2.9	7.3/2.4	3.5/1.2					
FUCH-300DB	3	6	6.7	5.6	5.5	Ø10	2/4	1105	597	508
FUCHD-300DB		9	6.7/2.2	5.6/1.8	5.0/1.7					
FUCHD-300DB		12	6.7/2.2	5.6/1.8	5.0/1.7					
FUDH-500DB	5	6	5.8	4.8	6.5	Ø10	2/4	1181	673	508
FUDHD-500DB		9	5.8/1.9	4.8/1.6	6.5/1.2					
FUDHD-500DB		12	5.8/1.9	4.8/1.6	6.5/1.2					
FUEAH-750DB	7.5	6	4.8	4.0	8.0	Ø12	2/4	1346	726	620
FUEAH-750DB		9	4.8/1.6	4.0/1.3	8.0/2.7					
FUEAH-750DB		12	4.8/1.6	4.0/1.3	8.0/2.7					
FUFAH-1000DB	10	6	5.0	4.2	11.0	Ø14	2/4	1346	716	630
FUFAH-1000DB		9	5.0/1.7	4.2/1.4	11.0/3.7					
FUFAH-1000DB		12	5.0/1.7	4.2/1.4	11.0/3.7					
FUIH-1500DB	15	6	4.3	3.6	13.0	Ø18	2/4	1695	960	732
FUIH-1500DB		9	4.3/1.4	3.6/1.2	13.0/4.3					
FUIH-1500DB		12	4.3/1.4	3.6/1.2	13.0/4.3					
FUII-2000DB	20	6	3.2	2.7	13.0	Ø18	2/6	1651	851	800
FUII-2000DB		9	3.2/1.1	2.7/0.9	13.0/4.7					
FUII-2000DB		12	3.2/1.1	2.7/0.9	13.0/4.7					
FUIJ-2500DB	25	6	2.1	1.8	11.0	Ø18	2/8	1200	363	838
FUIJ-2500DB		9	2.1/0.7	1.8/0.6	11.0/3.7					
FUIJ-2500DB		12	2.1/0.7	1.8/0.6	11.0/3.7					
FUIJ-3000DB	30	6	2.1	1.8	13.0	Ø18	2/8	1544	818	726
FUIJ-3000DB		9	2.1/0.7	1.8/0.6	13.0/4.3					
FUIJ-3000DB		12	2.1/0.7	1.8/0.6	13.0/4.3					

Dimensions (mm)															Approx. Weight (kg)		
E	H	L	M		N	P		R	S	T	V	W	X	ØD		(S)	(D)
			(S)	(D)		(S)	(D)										
437	200	272	627	709	463	1090	1172	516	76	625	312	-	660	Ø14		373	
		353	706	787	543	1249	1330	676		785	392					435	
		432	787	869	623	1410	1492	836		945	472					495	
437	250	323	716	757	513	1229	12710	615	76	724	362	-	660	Ø14		395	
		427	823	864	618	1441	1482	826		935	467					458	
		534	927	968	723	1650	1691	1036		1146	573					518	
495	300	330	775	859	610	1385	1469	612	112	775	387	-	711	Ø18		522	
		432	874	960	711	1585	1671	810		975	487					572	
		506	950	1036	787	1737	1823	963		1128	564					622	
495	350	330	770	859	610	1380	1469	612	112	775	387	-	711	Ø18		542	
		432	869	958	711	1580	1669	810		975	487					592	
		506	945	1034	787	1732	1821	963		1128	564					659	
643	350	338	889	950	729	1618	1679	663	125	846	423	80	861	Ø18		1012	1093
		457	988	1049	828	1816	1877	864		1044	522					1137	1218
		556	1090	1151	927	2017	2078	1064		1244	622					1264	1345
643	450	338	889	3953	728	1617	1681	663	125	846	423	80	861	Ø18		1100	1180
		457	989	1052	828	1816	1880	864		1044	522					1270	1350
		556	1090	1153	928	2018	2081	1064		1244	622					1453	1538
683	850	452	1049	1049	805	1854	1854	861	125	1044	522	80	1015	Ø18		1600	1650
		554	1151	1151	904	2055	2055	1062		1244	622					1618	1673
		663	1260	1260	1013	2273	2273	1283		1463	732					1698	1750
683	1100	533	1130	1130	886	2017	2017	1026	125	1206	603	80	980	Ø18		2086	2141
		681	1278	1278	1031	2309	2309	1316		1496	748					2223	2277
		831	1427	1427	1181	2609	2609	1615		1796	898					2364	2418
683	1150	747	1354	1415	1095	2449	2510	1448	125	1631	815	80	980	Ø18		2293	2348
		963	1570	1628	1311	2878	2939	1880		2060	1030					2505	2559
		1179	1786	1844	1527	3310	3371	2311		2492	1246					2717	2770
704	1600	752	1290	1349	1102	2393	2451	1463	125	1646	823	81	1285	Ø18		2430	2484
		975	1514	1514	1328	2842	2901	1915		2096	1048					2641	2695
		1201	1740	1801	1552	3292	3353	2362		2545	1272					2854	2907

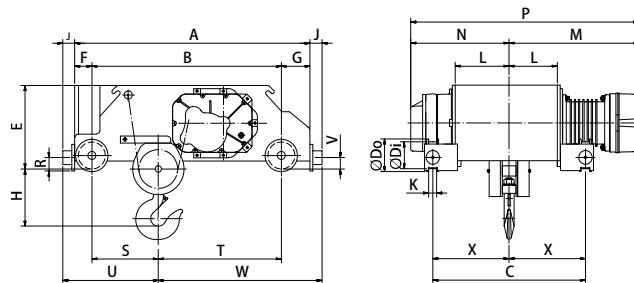


Model	Capacity (ton)	Lift (m)	Hoisting			Wire Rope	Reeving Type		
			Speed (m/min)		Motor				
			60Hz	50Hz	kw				
FUGI-2500	25	6	4	22	3.4	Ø18	2/6	1715	973
FUGID-2500		9							
		12	4/1.3	22/7.5	3.4/1.1				
FUGI-3000	30	6	4	30	3.4	Ø20	2/6	1715	846
FUGID-3000		9							
		12	4/1.3	30/10	3.4/1.1				
FUGJ-4000	40	9	3	30	2.5	Ø20	2/8	1715	973
FUGJ-4000		12							
FUGJD-4000		15	3/1	30/10	2.5/0.8				

Dimensions (mm)															Approx. Weight (kg)	
C	E	H	L	M	N	P	R	S	T	V1	V2	W	X	ØD		
742	765	1200	1041	1316	1521	2837	2083	104	2258	1132	1126	99	1240	Ø22	(S)	(D)
			1041	1316	1521	2837	2083		2258	1132	1126				4558	4558
			1191	1466	1671	3137	2383		2558	1282	1276				5190	5190
869	765	1300	1026	1303	1506	2809	2052	104	2231	1191	1040	99	1240	Ø22	4658	
			1026	1303	1506	2809	2052		2231	1191	1040				4658	4658
			1026	1402	1608	3010	2047		2531	1341	1190				5145	5145
742	765	1500	1026	1301	1506	2809	2052	104	2231	1191	1040	99	1240	Ø22	4863	
			1275	1552	1758	3310	2550		2231	1441	1290				5347	5347
			1476	1753	1958	3724	2951		3132	1642	1490				5742	5742

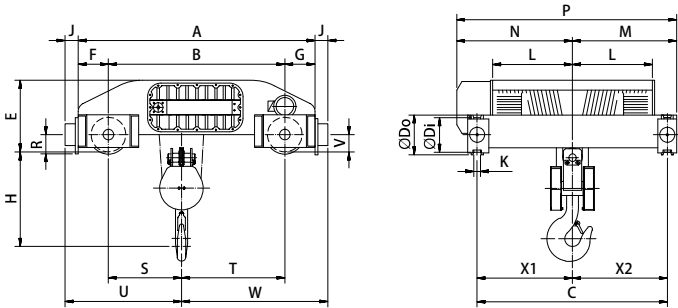
WRH (USA) DC Brake series

■ SU



Model	Capacity (ton)	Lift (m)	Hoisting			Traversing			Wire Rope Ømm	Reeving Type			
			Speed (m/min)		Motor kw	Speed (m/min)		Motor kw			A	B	C
			60Hz	50Hz		60Hz	50Hz						
SUBH-2000B	2	6	8.7	7.3	3.5	20.0	16.7	0.4	Ø8	2/4	1097	848	850
SUBHD-2000B		9	8.7/2.9	7.3/2.4	3.5/1.2	20.0/6.7	16.7/5.6	0.4/0.13					1000
		12											1200
SUCH-3000B	3	6	6.7	5.6	5.0	21.0	17.5	0.4	Ø10	2/4	1234	960	850
SUCHD-3000B		9	6.7/2.2	5.6/1.8	5.0/1.7	21.0/7.0	17.5/5.8	0.4/0.13					1150
		12											1150
SUDH-5000B	5	6	5.8	4.8	6.5	21.0	17.5	0.75	Ø10	2/4	1234	960	850
SUDHD-5000B		9	5.8/1.9	4.8/1.6	6.5/2.2	21.0/7.0	17.5/5.8	0.75/0.25					1150
		12											1150
SUEAH-7500B	7.5	6	4.8	4.0	8.0	19.0	16.0	1.1	Ø12	2/4	1600	1300	1150
SUEAHD-7500B		9	4.8/1.6	4.0/1.3	8.0/2.7	19.0/6.4	16.0/5.3	1.1/0.37					1150
		12											1300
SUFAH-10000B	10	6	5.0	4.2	11.0	15.0	12.5	1.5	Ø14	2/4	1600	1300	1150
SUFAHD-10000B		9	5.0/1.7	4.2/1.4	11.0/3.7	15.0/5.0	12.5/4.2	1.5/0.5					1350
		12											1350
SUIH-15000B	15	6	4.3	3.6	13.0	18.0	15.0	1.5	Ø18	2/4	1781	1405	1150
SUIHD-15000B		9	4.3/1.4	3.6/1.2	13.0/4.3	18.0/6.0	15.0/5.0	1.5/0.5					1350
		12											1550
SUII-20000B	20	6	3.2	2.7	13.0	18.0	15.0	2.2	Ø18	2/6	1869	1481	1300
SUIID-20000B		9	3.2/1.1	2.7/0.9	13.0/4.3	18.0/6.0	15.0/5.0	2.2/0.75					1600
		12											1900
SUD-25000B	25	6	2.1	1.8	11.0	18.0	15.0	2.2	Ø18	2/8	1984	1524	1700
SUID-25000B		9	2.1/0.7	1.8/0.59	11.0/3.7	18.0/6.0	15.0/5.0	2.2/0.75					2200
		12											2600
SUD-30000B	30	6	2.1	1.8	13.0	18.0	15.0	1.5	Ø18	2/8	2007	1549	1750
SUD-30000B		9	2.1/0.7	1.8/0.59	13.0/4.3	18.0/6.0	15.0/5.0	1.5/0.5					2200
		12											2650

Dimensions (mm)																				Approx Weight (kg)	
ØDi	ØDo	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X		(S)	(D)
									(S)	(D)	(S)	(D)									
120	148	541	130	119	250	64	40	323	716	757	513	1229	1270							425	466
								427	823	864	618	1441	1482	50	348	500	531	60	693	500	526
								533	927	968	723	1650	1691							600	586
150	178	574	114	160	300	66	45	330	775	859	610	1385	1469	76	391	569	574	75	792	425	669
								432	874	960	711	1585	1671							575	710
								505	950	1036	787	1737	1823							575	751
150	178	574	114	160	300	66	45	330	770	859	610	1380	1469	76	391	569	574	75	792	425	725
								432	869	958	711	1580	1669							575	766
								505	945	1034	787	1732	1821							575	807
160	196	600	140	160	400	86	60	358	889	950	729	1618	1679	81	516	785	742	80	1031	575	1273
								457	988	1049	828	1816	1877							575	1348
								556	1090	1151	927	2017	2078							650	1386
160	196	600	140	160	500	86	60	358	889	953	728	1617	1681	81	505	795	732	80	1041	575	1452
								457	988	1052	828	1816	1880							575	1552
								556	1090	1153	928	2018	2081							650	1352
200	226	711	200	175	900	74	60	452	1049	1049	805	1854	1854	99	523	881	795	100	1130	575	1850
		780						554	1151	1151	904	2055	2055							675	1868
								663	1260	1260	1013	2273	2273							775	1950
200	226	681	216	173	1100	86	60	533	1130	1130	886	2017	2017	99	589	892	889	100	1153	650	2527
		719						681	1278	1278	1031	2309	2309							800	2710
								831	1427	1427	1181	2609	2609							950	2891
300	335	770	231	229	1100	89	68	747	1354	1415	1095	2449	2510	145	538	986	856	155	1308	850	2877
								963	1570	1628	1311	2878	2939							1100	3214
								1179	1786	1844	1527	3130	3371							1130	3486
300	335	787	229	229	1550	61	70	752	1290	1349	1102	2393	2451	145	442	1107	729	150	1397	875	2877
								975	1514	1514	1328	2842	2901							1100	3150
								1201	1740	1801	1552	3292	3353							1325	3364



Model	Capacity (ton)	Lift (m)	Hoisting			Traversing			Wire Rope	Reeving Type			
			Speed (m/min)		Motor	Speed (m/min)		Motor			A	B	C
			60Hz	50Hz	kw	60Hz	50Hz	kw					
SUGI-2500	25	6	4	3.4	22	18	15	1.5	Ø18	2/6	2113	1671	2300
SUGID-2500		9	4/1.3	3.4/1.1	22/7.5	18/6	15/5	1.5/0.5					2600
SUGI-3000	30	6	4	3.4	30	18	15	2.2	Ø20	2/6	2197	1689	2300
SUGID-3000		9	4/1.3	3.4/1.1	3.0/10	18/6	15/5	2.2/0.75					2600
SUGJ-4000	40	9	3	2.5	30	18	15	2.2	Ø20	2/8	2197	1689	2300
SUGJD-4000		12	3/1	2.5/0.8	30/10	18/6	15/5	2.2/0.75					2800
		15											3200

Dimensions (mm)																				Approx. Weight (kg)	
ØDi	ØDo	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X1	X2		
300	445	780	254	254	1300	76	81	1026	1303	1506	2810	264	691	998	1021	200	1328	1153	1147	(S)	(D)
								1026	1303	1506	2810							1153	1147		5618
								1176	1453	1656	3110							1303	1297		6105
400	445	805	254	254	1300	76	81	1026	1303	1506	2810	264	691	998	1021	200	1328	1226	1074	(S)	(D)
								1026	1303	1506	2810							1226	1074		5618
								1176	1453	1656	3110							1376	1224		6105
400	445	805	254	254	1500	76	81	1026	1303	1506	2810	264	561	1128	892	200	1458	1226	1074	(S)	(D)
								1275	1552	1756	3310							1476	1324		6310
								1476	1753	1956	3708							1676	1524		6705

Green Product goes into your business

Cheng Day Taiwan develops the new wire rope hoist which has high efficiency PM motor, unique & reliable applied for different industries . Features are as below.

1. Permanent Magnetic Motor :

1.5 times of starting current. 230% high starting torque. Compared with traditional squirrel cage motor which has 6-8 times starting current, PM motor VVVF Lift Drive, save energy at least 30~50%. Very limited temperature rising, stable. Motor brake system triggers when motor rotation approach stop which makes brake lining with longer life span. Speed adjustment, the ratio of max. speed 1/10. The range of low/high speed can be adjustable. Two-steps switch to select low /high speed. Soft start / stop function can reduce swaying of the lifting objects.

2. Rope Guide :

adjustable type, fit different drums' size. Patents applied.

3. Planetary Geared Limit Switch Assembly:

3 steps or 4 steps setting. Patents applied.

4. High Strength :

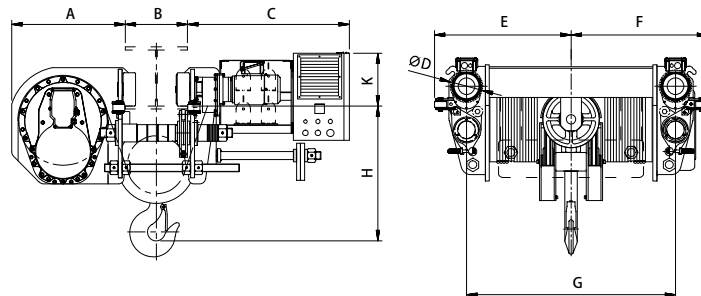
more than 6 times factor of safety.

5. Inverter :

standard device for main lifting.

6. Low headroom :

shape designed, compact.



Model	Capacity (ton)	Lift (m)	Hoisting		Traversing		Wire rope	
			Speed (m/min)	Motor kw x pole	Speed (m/min)		Motor kw x pole x set	Ømm R/F
					60Hz	50Hz		
TEAH-320PM	3.2	6	8/0.8	5 x 8	20 20/5	16.5 16.5/4	0.37 x 2 x 1 0.37/0.09 x 2/8 x 1	8 2/4
		9						
		12						
TEA1H-500PM	5	6	6/0.6	6.5 x 8	20 20/5	16.5 16.5/4	0.6 x 2 x 1 0.6/0.15 x 2/8 x 1	10 2/4
		9						
		12						
TEBH-500PM	5	9	8/0.8	9 x 8	20 20/5	16.5 16.5/4	0.6 x 2 x 1 0.6/0.15 x 2/8 x 1	10 2/4
		12						
		12						
TEB1H-630PM	6.3	9	7.2/0.7	9 x 8	20 20/5	16.5 16.5/4	0.6 x 2 x 1 0.6/0.15 x 2/8 x 1	10 2/4
		12						
		12						
TECH-800PM	8	9	7.2/0.7	13 x 8	18 18/4.5	15 15/3.7	0.6 x 2 x 2 0.6/0.15 x 2/8 x 2	12.5 2/4
		12						
		12						
TEC1H-1000PM	10	9	6/0.6	13 x 8	18 18/4.5	15 15/3.7	0.6 x 2 x 2 0.6/0.15 x 2/8 x 2	12.5 2/4
		12						
		12						
TEC2H-1250PM	12.5	9	5/0.5	13 x 8	18 18/4.5	15 15/3.7	0.6 x 2 x 2 0.6/0.15 x 2/8 x 2	14 2/4
		12						
		12						

※Rating Duty ED% : Dual speed 40/20% (Hoisting) ; Dual speed 40/20% (Traversing).

Model	Dimensions (mm)									N.W. (kg)
	H	A	B	C	D	E	F	G	K	
TEAH-320PM	400	406	150~300	693	100	505	500	712	225	623
						570	551	842		490
						635	616	972		510
TEA1H-500PM	500	403	150~300	690	125	545	524	792	225	505
						620	599	942		530
						695	674	1092		555
TEBH-500PM	500	471	150~300	712	125	589	589	888	225	705
						649	649	1008		730
						589	589	888		715
TEB1H-630PM	500	471	150~300	712	125	649	649	1008	225	740
						589	589	888		715
						649	649	1008		740
TECH-800PM	580	547	200~400	820	140	647	659	965	265	1100
						707	719	1085		1134
						647	659	965		1106
TEC1H-1000PM	580	547	200~400	820	160	707	719	1085	265	1140
						707	719	1085		1125
						777	789	1225		1160
TEC2H-1250PM	650	547	200~400	820	160	707	719	1085	265	1125
						777	789	1225		1160
						707	719	1085		1125

※Option of traversing single speed or dual speed, please remark your request on each formal order.

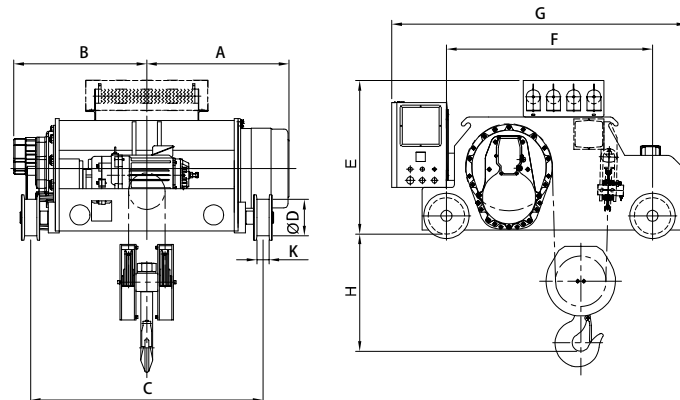


Rope Guide

- 1). To ensure positive winding of wire rope;
Prevent rope overlapping.
- 2). Patents :
Taiwan patent no. M482583
German patent no. Nr. 20 2014 002 972.5
Japan patent no. 3191390
China patent no. ZL 2014 2 0036251.0
United States patent no. US 91814069

Planetary Geared Limit Switch Assembly

- 1). Up & down are with auto stop limit switch device. Prevent rope over-rol.
- 2). Able to setup / stop location according to working environment.
- 3). Patents :
Taiwan patent no. M466909
German patent no. Nr. 20 2014 006 109.2
Japan patent no. 3193570
China patent no. ZL 2014 2 0395985.8
United States patent no. US 9263201



Model	Capacity (ton)	Lift (m)	Hoisting		Traversing			Wire rope	
			Speed (m/min)	Motor kw x pole	Speed (m/min)		Motor kw x pole x set	Ømm	R/F
					60Hz	50Hz			
SEAH-320PM	3.2	6	8/0.8	5 x 8	21 21/7	18 18/6	0.4 x 4 x 1 0.4/0.13 x 4/12 x 1	8	2/4
		9							
		12							
SEA1H-500PM	5	6	6/0.6	6.5 x 8	21 21/7	18 18/6	0.75 x 4 x 1 0.75/0.25 x 4/12 x 1	10	2/4
		9							
		12							
SEBH-500PM	5	9	8/0.8	9 x 8	21 21/7	18 18/6	0.75 x 4 x 1 0.75/0.25 x 4/12 x 1	10	2/4
		12							
		12							
SEB1H-630PM	6.3	9	7.2/0.7	9 x 8	21 21/7	18 18/6	0.75 x 4 x 1 0.75/0.25 x 4/12 x 1	10	2/4
		12							
		12							
SECH-800PM	8	9	7.2/0.7	13 x 8	17 17/6	14 14/5	1.1 x 4 x 1 1.1/0.37 x 4/12 x 1	12.5	2/4
		12							
		12							
SEC1H-1000PM	10	9	6/0.6	13 x 8	17 17/6	14 14/5	1.1 x 4 x 1 1.1/0.37 x 4/12 x 1	12.5	2/4
		12							
		12							
SEC2H-1250PM	12.5	9	5/0.5	13 x 8	17 17/6	14 14/5	1.1 x 4 x 1 1.1/0.37 x 4/12 x 1	14	2/4
		12							
		12							

Model	Dimensions (mm)									N.W. (kg)
	H	A	B	C	D	E	F	G	K	
SEAH-320PM	400	500	505	850	150	665	760	1085	45	576
		522	570	850						600
		587	635	1000						620
SEA1H-500PM	500	497	645	850	150	665	800	1125	45	603
		572	620	1000						650
		647	695	1150						675
SEBH-500PM	500	583	547	850	150	695	857	1199	45	730
		643	607	1000						760
		583	547	850						730
SEB1H-630PM	500	643	607	1000	150	695	857	1199	45	760
		644	598	1000						1190
		704	658	1150						1230
SECH-800PM	600	644	598	1000	180	780	1020	1435	60	1190
		704	658	1150						1230
		704	658	1150						1230
SEC1H-1000PM	600	704	658	1150	180	780	1020	1435	60	1250
		774	728	1300						1300
		774	728	1300						1300



Rope Guide (Lever)

- 1). To ensure positive winding of wire rope;
Prevent rope overlapping.

Planetary Geared Limit Switch Assembly

- 1). Up & down are with auto stop limit switch device. Prevent rope over-roll.
- 2). Able to setup / stop location according to working environment.

3). Patents:

Taiwan patent no. M466909

German patent no. Nr. 20 2014 006 109.2

Japan patent no. 3193570

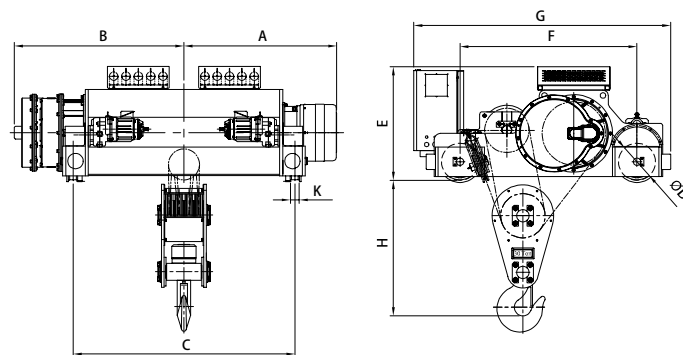
China patent no. ZL 2014 2 0395985.8

United States patent no. US 9263201



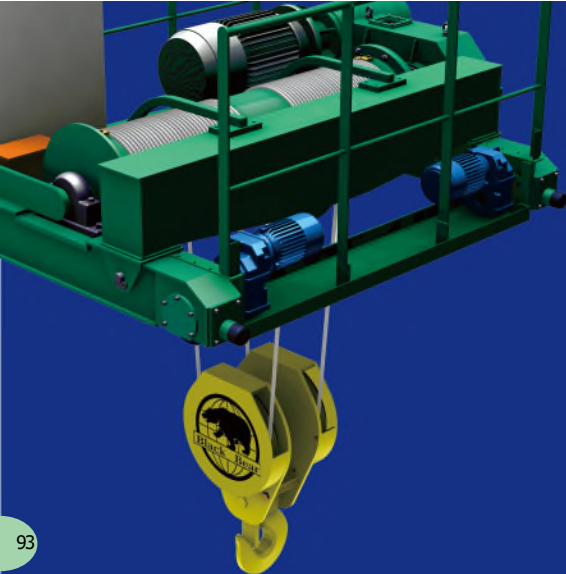
(Option)

Stepless variable speed control
/ Precise Speed Positioning



Model	Capacity (ton)	Lift (m)	Hoisting		Traversing			Wire rope	
			Speed (m/min)	Motor kw x pole	Speed (m/min)		Motor kw x pole x set		
					60Hz	50Hz		Ømm	R/F
SEDH-1600PM	16	8	5.0/0.5	16 x 8	18	15	0.75 x 4 x 2 0.75/0.25 x 4/12 x 2	18	2/4
		10			18/6	15/5			
		12							
SEDH-2000PM	20	8	4.5/0.45	18 x 8	18	15	0.75 x 4x2 0.75/0.25 x 4/12 x2	20	2/4
		10			18/6	15/5			
		12							
SEFJ-3000PM	30	8	5.0/0.5	30 x 8	21	18	1.5 x 4 x 2 1.5/0.5 x 4/12 x 2	18	2/8
		10			21/7	18/6			
		12							
		15							
SEF1J-4000PM	40	8	4.2/0.42	33 x 8	18	15	1.5 x 4 x 2 1.5/0.5 x 4/12 x 2	20	2/8
		10			18/6	15/5			
		12							
		15							
SEFR-5000PM	50	8	3.6/0.36	36 x 8	18	15	2.2 x 4 x 2 2.2/0.7 x 4/12 x 2	18	2/12
		10			18/6	15/5			
		12							
		15							

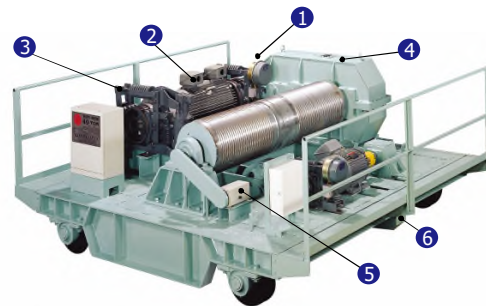
Model	Dimensions (mm)									N.W. (kg)
	H	A	B	C	D	E	F	G	K	
SEDH-1600PM	1000	773	1001	1150	215	900	1000	1625	60	1870
		848	1076	1300						1960
		898	1126	1400						2020
SEDH-2000PM	1100	798	1026	1200	215	900	1000	1625	60	1940
		848	1076	1300						2000
		948	1176	1500						2110
SEFJ-3000PM	1600	1050	1176	1400	300	970	1436	2135	70	3180
		1150	1276	1600						3305
		1250	1376	1800						3430
		1400	1526	2100						3620
SEF1J-4000PM	1700	1148	1273	1600	400	1100	1470	2265	80	4300
		1248	1373	1800						4470
		1348	1473	2000						4640
		1498	1623	2300						4890
		1248	1373	1800						4550
SEFR-5000PM	1800	1398	1523	2100	400	1150	1470	2275	80	4710
		1498	1623	2300						4950
		1748	1873	2800						5350



Crane & Components



■ Open Type Wire Rope Crab



① Electro Magnetic Brake

By using fail safe brake system, when power on then brake off; power off then brake on at the same second.

② Motor

Hoisting motor is winding exclusive for a hoisting purpose. Frames are according to IEC specifications and interchangeable. At least "F" insulation class in winding, as such, the motor is always in good insulation, good heart-resistance and proper water protection. It is reliable and safe for high frequency applications.

③ Electrohydraulic Brake

Using the electrohydraulic brake to control the initial lowering speed of hoist. The hydraulic action is controlled by the motor secondary winding. When power off, it works as a secondary brake to increase the brake's safety.

④ Gear Reducer

All the gears are designed according to hoist / crane forward + backward rating requirements, high strength and well anti-wearing. It is good for high frequency usage.

⑤ Limit Switch

The up / down limit switch is available. It is screw type mechanical limit switch in harmony with drum's rotating cycle.

⑥ Trolley Traversing Device

The driving of trolley is modularized for an easy maintenance. It contains brake, motor, reducing gear box and wheel set.

※ Eddy Current Speed Control

For a long lasting, a high speed and a large capacity lifting, we utilize the eddy current speed control for a better function of initial lowering speed control. Due to eddy current is without brake lining and no touching, it is long lasting and almost trouble free.

■ Economy Wire Rope Crab



※ Power frequency : 50Hz

※ Motor pole : 4P

Type	Gear box	Fall no. (P)	Capacity (ton)	Wire rope (mm)	Speed (m/min) / Motor (kw)				
EWC	E	4	15	Ø18	8.0/30	9.6/37	12.5/45	15/55	20/75
		4	12		8.0/22	9.6/30	12.5/37	15/45	-
		4	9		8.0/18.5	9.6/22	12.5/30	15/37	20/45
		4	7		8.0/15	9.6/18.5	12.5/22	15/30	20/37
		8	30	Ø18	4.0/30	4.9/37	6.3/45	7.3/55	9.6/75
		8	24		4.0/22	4.9/30	6.3/37	7.3/45	-
		8	18		4.0/18.5	4.9/22	6.3/30	7.3/37	9.6/45
		8	14		4.0/15	4.9/18.5	6.3/22	7.3/30	9.6/37
		12	45	Ø18	2.5/30	2.9/37	3.7/45	4.7/55	6.0/75
		12	36		2.5/22	2.9/30	3.7/37	4.7/45	-
		12	27		2.5/18.5	2.9/22	3.7/30	4.7/37	6.0/45
		12	21		2.5/15	2.9/18.5	3.7/22	4.7/30	6.0/37
	F	4	20	Ø20	6.0/30	7.3/37	9.2/45	10.8/55	14.6/75
		4	16		6.0/22	7.3/30	9.2/37	10.8/45	-
		4	13		6.0/18.5	7.3/22	9.2/30	10.8/37	14.6/45
		4	10		6.0/15	7.3/18.5	9.2/22	10.8/30	14.6/37
		8	40	Ø20	3.0/30	3.7/37	4.6/45	5.3/55	7.3/75
		8	32		3.0/22	3.7/30	4.6/37	5.3/45	-
		8	26		3.0/18.5	3.7/22	4.6/30	5.3/37	7.3/45
		8	20		3.0/15	3.7/18.5	4.6/22	5.3/30	7.3/37
		12	60	Ø20	1.9/30	2.3/37	2.8/45	3.4/55	4.7/75
		12	48		1.9/22	2.3/30	2.8/37	3.4/45	-
		12	39		1.9/18.5	2.3/22	2.8/30	3.4/37	4.7/45
		12	30		1.9/15	2.3/18.5	2.8/22	3.4/30	4.7/37
EWC	G	8	50	Ø22.4	3.6/45	4.5/55	6.0/75	-	-
		8	40		3.6/37	4.5/45	-	-	-
		8	30		3.6/30	4.5/37	6.0/45	-	-
		8	25		3.6/22	4.5/30	6.0/37	7.3/45	-
		12	75	Ø22.4	2.4/45	3.0/55	4.0/75	-	-
		12	60		2.4/37	3.0/45	-	-	-
		12	45		2.4/30	3.0/37	4.0/45	-	-
		12	35		2.4/22	3.0/30	4.0/37	4.8/45	-
		16	100	Ø22.4	1.8/45	2.3/55	2.8/75	-	-
		16	80		1.8/27	2.3/45	-	-	-
		16	60		1.8/30	2.3/37	2.8/45	-	-
		16	50		1.8/22	2.3/30	2.8/37	3.7/45	-

Product code

EWC	-	E	-	H	-	15	-	21
Type		Gear box		Reeving/Falling		S.W.L.		Lift
Economy Wire Rope Crab		E, F, G		H : 2/4 J : 2/8 R : 2/12 T : 2/16		15ton		21m

Type	Gear box	Fall No. (P)	Capacity (ton)	Traversing		
				Speed (m/min)		Motor kw X 2pcs. pole
				50Hz	60Hz	
EWC	E	4	15	18.3	22	0.75kw 4P
		8	30	18.3	22	1.5kw 4P
		12	45	18.3	22	2.2kw 4P
		4	20	18.3	22	1.1kw 4P
	F	8	40	18.3	22	1.5kw 4P
		12	60	18.3	22	2.2kw 4P
		8	50	18.3	22	2.2kw 4P
		12	75	18.3	22	3.0kw 4P
	G	16	100	16.7	20	3.75kw 6P

※ Power frequency : 60Hz

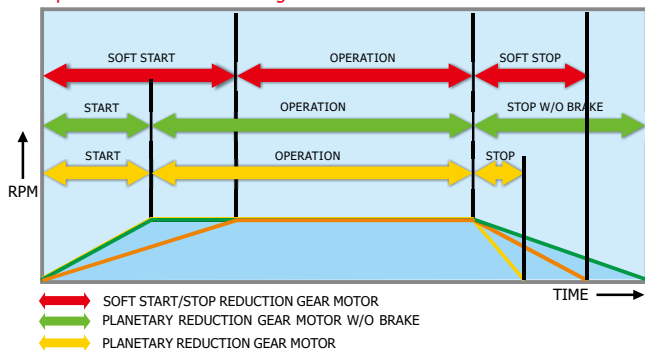
※ Motor pole : 4P

Type	Gear box	Fall No. (P)	Capacity (ton)	Wire rope (mm)	Speed (m/min) / Motor (kw)				
EWC	E	4	15	Ø18	9.6/30	11.5/37	15/45	18/55	24/75
		4	12		9.6/22	11.5/30	15/37	18/45	-
		4	9		9.6/18.5	11.5/22	15/30	18/37	24/45
		4	7		9.6/15	11.5/18.5	15/22	18/30	24/37
		8	30	Ø18	4.8/30	5.9/37	7.5/45	8.8/55	11.5/75
		8	24		4.8/22	5.9/30	7.5/37	8.8/45	-
		8	18		4.8/18.5	5.9/22	7.5/30	8.8/37	11.5/45
		8	14		4.8/15	5.9/18.5	7.5/22	8.8/30	11.5/37
	F	12	45	Ø18	3.0/30	3.5/37	4.4/45	5.6/55	7.2/75
		12	36		3.0/22	3.5/30	4.4/37	5.6/45	-
		12	27		3.0/18.5	3.5/22	4.4/30	5.6/37	7.2/45
		12	21		3.0/15	3.5/18.5	4.4/22	5.6/30	7.2/37
		4	20	Ø20	7.2/30	8.7/37	11/45	12.9/55	17.5/75
		4	16		7.2/22	8.7/30	11/37	12.9/45	-
		4	13		7.2/18.5	8.7/22	11/30	12.9/37	17.5/45
		4	10		7.2/15	8.7/18.5	11/22	12.9/30	17.5/37
	G	8	40	Ø20	3.6/30	4.4/37	5.5/45	6.4/55	8.7/75
		8	32		3.6/22	4.4/30	5.5/37	6.4/45	-
		8	26		3.6/18.5	4.4/22	5.5/30	6.4/37	8.7/45
		8	20		3.6/15	4.4/18.5	5.5/22	6.4/30	8.7/37
	G	12	60	Ø20	2.3/30	2.7/37	3.3/45	4.1/55	5.6/75
		12	48		2.3/22	2.7/30	3.3/37	4.1/45	-
		12	39		2.3/18.5	2.7/22	3.3/30	4.1/37	5.6/45
		12	30		2.3/15	2.7/18.5	3.3/22	4.1/30	5.6/37
	G	8	50	Ø22.4	4.3/45	5.4/55	7.2/75	-	-
		8	40		4.3/37	5.4/45	-	-	-
		8	30		4.3/30	5.4/37	7.2/45	-	-
		8	25		4.3/22	5.4/30	7.2/37	8.7/45	-
	G	12	75	Ø22.4	2.9/45	3.6/55	4.8/75	-	-
		12	60		2.9/37	3.6/45	-	-	-
		12	45		2.9/30	3.6/37	4.8/45	-	-
		12	35		2.9/22	3.6/30	4.8/37	5.8/45	-
	G	16	100	Ø22.4	2.2/45	2.7/55	3.3/75	-	-
		16	80		2.2/37	2.7/45	-	-	-
		16	60		2.2/30	2.7/37	3.3/45	-	-
		16	50		2.2/22	2.7/30	3.3/37	4.4/45	-

■ Soft Start/Stop Reduction Gear Motor



Operation chart of reduction gear motor :



■ Reducer

- 1.Reducer housing is formed from FC25 high strength material and machined with precision on computer programmed CNC machine.
- 2.Gears machined from SCM21 material, teeth are machine grooved, then gears are heat treated to high hardness for long life.

■ Flywheel (Soft Start / Stop)

- 1.Use a flywheel provide a smoother acceleration and greatly reduces the pendulum motion when decelerating.
- 2.It provides a restraining effect on the starting torque of the motor thus providing a smooth start and stop.

■ Motor

- 1.Motor housing design provides rapid heat dissipation.
- 2.Motor offers compact design, low starting amperages while yielding high starting torque: A mandatory requirement for motor.
- 3.Apply to speed of lower than 30 m/min .

■ Electromagnetic Brake

- 1.DC brake provides excellent braking capability and easy to adjust and control the braking force for custom application.
- 2.EMPloys wear-resistant linings for longer life.

■ Hollow shaft gear reducer motor



■ Hollow Shaft Drive

- Apply to high speed use higher than 30 m/min.
- Gear boxes are rugged cast iron construction precisely machined by our CNC machining center.
- Precision gearing is a combination of helical gear and spur gear to provide quiet and trouble free operations.
- Comply with IEC motor frame no. and rugged cast iron construction.
- Utilizing IEC motor brake, a rectified DC Magnetic Disc Brake with a Cooling Fan enclosure.
- Large oil reservoir insures constant adequate lubrication and thermal dissipation.
- Motor could be changed without dismantling the gear box because of its modular design.



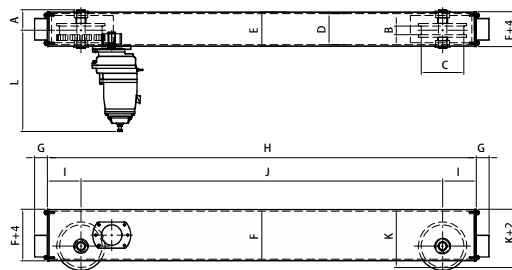
■ Hollow Shaft Motor with Wheel Block

- The wheel block travel unit is precisely engineered for outstanding performance and minimal maintenance proven under full dynamic load.
- Torque arm, connecting parts and bumper are easily fitted.



End Truck series

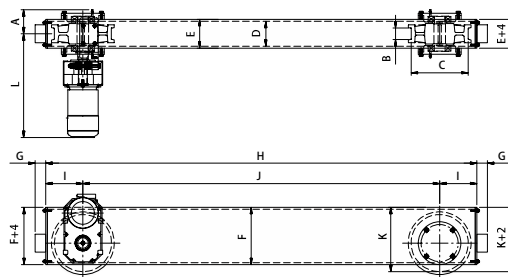
Soft Start Drive Tubular End Truck



Model	Wheel Dia. (mm)	Rail (kg/m)	Allowable Wheel Pressure (kg/per wheel)	Speed (m/min)		Motor kw x pole x set Single (Dual)
				60HZ Single (Dual)	50HZ Single (Dual)	
TRT-12-15	120	9	1600	22 (22/7)	18.3 (18.3/6.1)	0.4x4x2(0.4/0.13x4/12x2)
TRT-12-20	120	9	1600	22 (22/7)	18.3 (18.3/6.1)	0.4x4x2(0.4/0.13x4/12x2)
TRT-12-25	120	9	1600	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-15-15	150	12	2400	22 (22/7)	18.3 (18.3/6.1)	0.4x4x2(0.4/0.13x4/12x2)
TRT-15-20	150	12	2400	22 (22/7)	18.3 (18.3/6.1)	0.4x4x2(0.4/0.13x4/12x2)
TRT-15-25	150	12	2400	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-15-30	150	12	2400	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-20-20	195	12	3400	22 (22/7)	18.3 (18.3/6.1)	0.4x4x2(0.4/0.13x4/12x2)
TRT-20-25	195	12	3400	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-20-30	195	12	3400	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-20-35	195	12	3400	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-22-20	215	15	4000	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-22-25	215	15	4000	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-22-30	215	15	4000	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-22-35	215	15	4000	22 (22/7)	18.3 (18.3/6.1)	1.1x4x2(1.1/0.37x4/12x2)
TRT-25-20	250	30	5600	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-25-25	250	30	5600	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-25-30	250	30	5600	22 (22/7)	18.3 (18.3/6.1)	1.1x4x2(1.1/0.37x4/12x2)
TRT-25-35	250	30	5600	22 (22/7)	18.3 (18.3/6.1)	1.1x4x2(1.1/0.37x4/12x2)
TRT-25-40	250	30	5600	22 (22/7)	18.3 (18.3/6.1)	1.5x4x2(1.5/0.5x4/12x2)
TRT-30-20	300	30	9900	22 (22/7)	18.3 (18.3/6.1)	0.75x4x2(0.75/0.25x4/12x2)
TRT-30-25	300	30	9900	22 (22/7)	18.3 (18.3/6.1)	1.1x4x2(1.1/0.37x4/12x2)
TRT-30-35	300	30	9900	22 (22/7)	18.3 (18.3/6.1)	1.5x4x2(1.5/0.5x4/12x2)
TRT-30-40	300	30	9900	22 (22/7)	18.3 (18.3/6.1)	1.5x4x2(1.5/0.5x4/12x2)
TRT-40-25	400	37	14000	22 (22/7)	18.3 (18.3/6.1)	1.1x4x2(1.1/0.37x4/12x2)
TRT-40-30	400	37	14000	22 (22/7)	18.3 (18.3/6.1)	1.1x4x2(1.1/0.37x4/12x2)
TRT-40-35	400	37	14000	22 (22/7)	18.3 (18.3/6.1)	1.5x4x2(1.5/0.5x4/12x2)
TRT-40-40	400	37	14000	22 (22/7)	18.3 (18.3/6.1)	1.5x4x2(1.5/0.5x4/12x2)

Model	Dimension (mm)												N.W. (kg)
	A	B	ØC	D	E	F	G	H	I	J	K	L	
TRT-12-15	55	38	120	88	100	150	55	1516	128	1260	165	515	2x101
TRT-12-20	55	38	120	88	100	150	55	2016	128	1760	165	515	2x113
TRT-12-25	55	38	120	88	100	150	55	2516	128	2260	165	555	2x125
TRT-15-15	92	44	150	138	150	200	55	1516	128	1260	220	528	2x141
TRT-15-20	92	44	150	138	150	200	55	2016	128	1760	220	528	2x158
TRT-15-25	92	44	150	138	150	200	55	2516	128	2260	220	568	2x175
TRT-15-30	92	44	150	138	150	200	55	3016	128	2760	220	568	2x192
TRT-20-20	92	45	195	132	150	200	55	2016	153	1710	230	530	2x211
TRT-20-25	92	45	195	132	150	200	55	2516	153	2210	230	570	2x236
TRT-20-30	92	45	195	132	150	250	55	3016	153	2710	280	570	2x291
TRT-20-35	92	45	195	132	150	250	55	3516	153	3210	280	666	2x321
TRT-22-20	90	50	215	132	150	250	75	2020	165	1690	280	532	2x248
TRT-22-25	90	50	215	132	150	250	75	2520	165	2190	280	572	2x278
TRT-22-30	90	50	215	132	150	250	75	3020	165	2690	280	572	2x308
TRT-22-35	90	50	215	132	150	250	75	3520	165	3190	280	668	2x338
TRT-25-20	123	70	250	182	200	300	75	2020	200	1620	341	590	2x329
TRT-25-25	123	70	250	182	200	300	75	2520	200	2120	341	590	2x366
TRT-25-30	123	70	250	182	200	300	75	3020	200	2620	341	686	2x402
TRT-25-35	123	70	250	182	200	300	75	3520	200	3120	341	686	2x439
TRT-25-40	123	70	250	182	200	400	75	4020	200	3620	440	686	2x537
TRT-30-20	121	70	300	176	200	300	75	2020	230	1560	341	684	2x404
TRT-30-25	121	70	300	176	200	300	75	2520	230	2060	341	690	2x451
TRT-30-35	121	70	300	176	200	400	75	3520	230	3060	440	690	2x621
TRT-30-40	121	70	300	176	200	400	75	4020	230	3560	440	690	2x679
TRT-40-25	108	80	400	176	200	400	75	2520	260	2000	450	705	2x614
TRT-40-30	108	80	400	176	200	400	75	3020	260	2500	450	705	2x673
TRT-40-35	108	80	400	176	200	400	75	3520	260	3000	450	705	2x731
TRT-40-40	108	80	400	176	200	400	75	4020	260	3500	450	705	2x789

Hollow Shaft Drive Top Running Tubular End Truck



Model	Wheel Dia. (mm)	Rail (kg/m)	Allowable Wheel Pressure (kg/per wheel)	Speed (m/min)		Motor kw x pole x set
				60HZ	50HZ	
TRTH-12-15	120	9	1600	36	30	0.75x4x2
TRTH-12-20	120	9	1600	36	30	0.75x4x2
TRTH-12-25	120	9	1600	36	30	0.75x4x2
TRTH-15-15	150	12	2600	36	30	0.75x4x2
TRTH-15-20	150	12	2600	36	30	0.75x4x2
TRTH-15-25	150	12	2600	36	30	0.75x4x2
TRTH-15-30	150	12	2600	36	30	0.75x4x2
TRTH-20-20	195	12	3400	36	30	0.75x4x2
TRTH-20-25	195	12	3400	36	30	0.75x4x2
TRTH-20-30	195	12	3400	36	30	0.75x4x2
TRTH-20-35	195	12	3400	36	30	0.75x4x2
TRTH-22-20	215	15	4000	36	30	0.75x4x2
TRTH-22-25	215	15	4000	36	30	0.75x4x2
TRTH-22-30	215	15	4000	36	30	0.75x4x2
TRTH-22-35	215	15	4000	36	30	0.75x4x2
TRTH-25-20	250	30	8800	36	30	2.2x4x2
TRTH-25-25	250	30	8800	36	30	2.2x4x2
TRTH-25-30	250	30	8800	36	30	2.2x4x2
TRTH-25-35	250	30	8800	36	30	2.2x4x2
TRTH-25-40	250	30	8800	36	30	2.2x4x2
TRTH-30-20	300	30	10600	36	30	2.2x4x2
TRTH-30-25	300	30	10600	36	30	2.2x4x2
TRTH-30-35	300	30	10600	36	30	2.2x4x2
TRTH-30-40	300	30	10600	36	30	2.2x4x2
TRTH-40-25	400	37	14900	36	30	2.2x4x2
TRTH-40-30	400	37	14900	36	30	2.2x4x2
TRTH-40-35	400	37	14900	36	30	2.2x4x2
TRTH-40-40	400	37	14900	36	30	2.2x4x2

Model	Dimension (mm)												N.W. (kg)
	A	B	ØC	D	E	F	G	H	I	J	K	L	
TRTH-12-15	94	38	120	88	100	150	55	1516	128	1260	160	550	2 x 120
TRTH-12-20	94	38	120	88	100	150	55	2016	128	1760	160	550	2 x 131
TRTH-12-25	94	38	120	88	100	150	55	2516	128	2260	160	550	2 x 143
TRTH-15-15	119	44	150	138	150	200	55	1516	128	1260	217	575	2 x 148
TRTH-15-20	119	44	150	138	150	200	55	2016	128	1760	217	575	2 x 164
TRTH-15-25	119	44	150	138	150	200	55	2516	128	2260	217	575	2 x 179
TRTH-15-30	119	44	150	138	150	200	55	3016	128	2760	217	575	2 x 195
TRTH-20-20	119	45	195	132	150	200	55	2016	153	1710	228	575	2 x 215
TRTH-20-25	119	45	195	132	150	200	55	2516	153	2210	228	575	2 x 238
TRTH-20-30	119	45	195	132	150	250	55	3016	153	2710	278	575	2 x 284
TRTH-20-35	119	45	195	132	150	250	55	3516	153	3210	278	575	2 x 310
TRTH-22-20	123	50	215	132	150	250	75	2020	165	1690	280	580	2 x 245
TRTH-22-25	123	50	215	132	150	250	75	2520	165	2190	280	580	2 x 271
TRTH-22-30	123	50	215	132	150	250	75	3020	165	2690	280	580	2 x 297
TRTH-22-35	123	50	215	132	150	250	75	3520	165	3190	280	580	2 x 323
TRTH-25-20	156	70	250	182	200	300	75	2020	200	1620	325	725	2 x 455
TRTH-25-25	156	70	250	182	200	300	75	2520	200	2120	325	725	2 x 488
TRTH-25-30	156	70	250	182	200	300	75	3020	200	2620	325	725	2 x 521
TRTH-25-35	156	70	250	182	200	300	75	3520	200	3120	325	725	2 x 554
TRTH-25-40	156	70	250	182	200	400	75	4020	200	3620	425	725	2 x 643
TRTH-30-20	156	70	300	176	200	300	75	2020	230	1560	340	725	2 x 536
TRTH-30-25	156	70	300	176	200	300	75	2520	230	2060	340	725	2 x 579
TRTH-30-35	156	70	300	176	200	400	75	3520	230	3060	440	725	2 x 734
TRTH-30-40	156	70	300	176	200	400	75	4020	230	3560	440	725	2 x 786
TRTH-40-25	168	80	400	176	200	400	75	2520	260	2000	450	735	2 x 725
TRTH-40-30	168	80	400	176	200	400	75	3020	260	2500	450	735	2 x 778
TRTH-40-35	168	80	400	176	200	400	75	3520	260	3000	450	735	2 x 830
TRTH-40-40	168	80	400	176	200	400	75	4020	260	3500	450	735	2 x 883

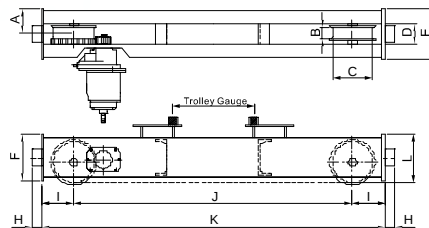
End Truck series

Top Running End Truck

TC series



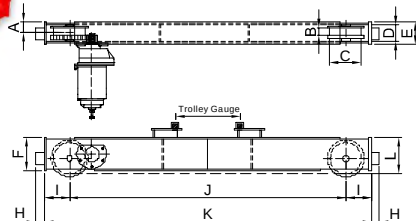
(Channel Steel Type)



TP series

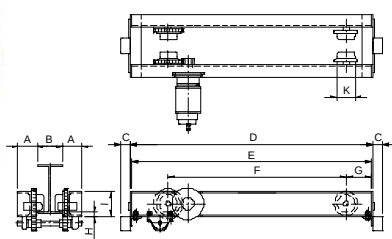


(Welded Plate / Box Type)



Suspension End Truck

SC series



Hoist Class

FEM	CMAA	HMI	ISO
10m	-	-	M1
1Cm	A	H1	M2
18m	B	H2	M3
1Am	C	H3	M4
2m	D	H4	M5
3m	D	H4	M6
4m	D or E	H4 or H5	M7
5m	-	-	M8

Comparison of FEM, HMI and CMAA Classifications

Hoist Classification			Corresponding crane class		Typical application	
FEM	HMI	ISO	CMAA	DIN 15018 and sim.	Example	
1Cm	H1	M2	Class A	H1/B2	Maintenance crane in machine house. Used only occasionally.	
18m	H2	M3	Class B	H1/B2	Light duty work shop crane, single shift operation, low average loads. Maximal load lifted occasionally.	
1Am	H3	M4	Class C	H2/B3	Light/Medium duty work shop crane, single shift operation, medium average loads. Occasional lifting of max load.	
2m	H4	M5	Class D	H2/B3	Medium/heavy duty work shop crane, 1 or 2 shift operation. Regular medium and heavy loads.	
3m	H4	M6	Class D	H2/B3 or H3/B4	Heavy duty crane, 2 shift operation. Nominal load regularly lifted. Traverse or other dead loads below the hook.	
4m	H4 or H7	M7	Class D or Class E	H3/B4 or H4/H6	Very heavy duty crane, 2-3 shift operation, grab or magnet below the hook. Regular heavy loads.	

Hoisting motor (FEM)

Group		Intermittent service			Short-time service
		Cycles / h	Starts / h	ED in %	Operating period (min)
1 Dm	M1	15	90	15	7.5
1 Cm	M2	20	120	20	7.5
1 Bm	M3	25	150	25	15
1 Am	M4	30	180	30	15
2m	M5	40	240	40	30
3m	M6	50	300	50	30
4m	M7	60	360	60	60
5m	M8	60	360	60	>60

Traversing & Travelling motor(FEM)

Group		Intermittent service			Short-time service
		Cycles / h	Starts / h	ED in %	Operating period (min)
1 Dm	M1	10	60	10	10
1 Cm	M2	15	90	15	10
1 Bm	M3	20	120	20	15
1 Am	M4	25	150	25	15
2m	M5	30	180	30	30
3m	M6	40	240	40	30
4m	M7	50	300	50	60
5m	M8	≥ 60	≥ 360	60	>60

The percentage duty cycle ED is found as follows $ED = \frac{\text{Operating periods}}{\text{Operating periods} + \text{rest periods}} \times 100$
based on a maximum cycle period of 10 minutes.

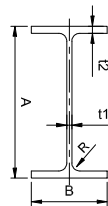
I-Beam Specification List

I-Beam	Weight kg/m	I _x cm ⁴	Z _x cm ³	Z _y cm ³	Allow able span (m)							
					0.5T	1T	2T	3T	5T	7.5T	10T	
150x75x5.5x9.5	17.1	819	109	15.3	3.15	2.34						
180x100x6x10	23.6	1670	186	27.5	4.50	3.34						
200x100x7x10	26.0	2170	217	27.7	5.17	3.80	2.72					
250x125x7x12.5	38.3	5180	414	53.9	7.98	5.90	4.19					
250x125x10x19	55.5	7310	585	86	9.49	7.00	4.99	4.11				
300x150x8x13	48.3	9480	632	78.4		7.98	5.67					
300x150x11x22	76.8	14700	978	143		9.93	7.06	5.82	4.43	3.50		
350x150x9x15	58.5	15200	870	93.5		10.10	7.18	5.92				
350x150x12x24	87.2	22400	1280	158		12.29	8.73	7.21	5.48	4.26	3.21	
400x150x10x18	72.0	24100	1200	115		12.69	9.02	7.44	5.20			
400x150x12.5x25	95.8	31700	1580	165			10.37	8.55	6.50	4.80	3.60	
450x175x11x20	91.7	39200	1740	173			11.53	9.51	7.23			
450x175x13x26	115.0	48800	2170	231			12.86	10.26	8.07	6.67	5.00	
600x190x13x25	133.0	98400	3280	259				15.06	11.45	8.35	6.25	

I-Beam (SS400)											
mm					kg/m	mm				kg/m	
A	B	t1	t2			A	B	t1	t2		
150	75	5.5	9.5		17.1	400	150	10	18	72.0	
180	100	6	10		23.6	400	150	12.5	95.8	122.1	
250	125	7.5	12.5		38.3	450	175	11	91.7	116.8	
250	125	10	19		55.5	450	175	13	115	146.1	
300	150	8	13		48.3	600	190	13	153	169.4	
300	150	10	18.5		65.5						
350	150	9	15		58.5						
350	150	12	24		87.2						

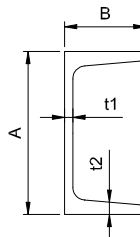
Rail	kg	mm						kg/m
		A	B	C	D	T	E	
	6	50.80	50.80	25.40	14.29	4.76	27.78	5.98
	9	63.50	63.50	32.10	17.48	5.90	35.72	8.94
	12	69.85	69.85	38.10	19.85	7.54	37.70	12.20
	15	79.37	79.37	42.86	22.22	8.33	43.65	15.20
	22	93.66	93.66	50.80	26.99	10.72	50.00	22.30
	30	107.95	107.95	60.33	30.95	12.30	57.55	30.10
	37	122.24	122.24	62.71	36.12	13.49	64.69	37.20
	50	144.46	127.00	67.87	46.04	14.29	70.64	50.40
	50N	153.00	127.00	65.00	49.00	15.00	74.00	50.40

H-Beam SS400 Wide Flange Beam



mm														
Dimensions	A	B	t1	t2	R	kg/m	Dimensions	A	B	t1	t2	R	kg/m	
100 x 50	100	50	5	7	8	9.3	350 x 175	346	174	6	9	13	41.2	
100 x 100	100	100	6	8	8	16.6		350	175	7	11	13	49.4	
125 x 60	125	60	6	8	9	13.2	350 x 250	340	250	9	14	13	78.1	
125 x 125	125	125	6.5	9	8	23.6	350 x 350	350	350	12	19	13	135	
150 x 75	150	75	5	7	8	14	400 x 200	396	199	7	11	13	56.1	
150 x 100	148	100	6	9	8	20.7	400 x 300	400	200	8	13	13	65.4	
150 x 150	150	150	7	10	8	31.1		390	300	10	16	13	105	
175 x 90	175	90	5	8	8	18	400 x 400	400	400	13	21	22	171.7	
175 x 175	175	175	7.5	11	13	40.4	450 x 200	446	199	8	12	13	65.1	
200 x 100	198	99	4.5	7	8	17.8		450	200	9	14	13	74.9	
	200	100	5.5	8	8	20.9	450 x 300	400	300	11	18	13	121	
200 x 150	194	150	6	9	8	29.9	500 x 200	496	199	9	14	13	77.9	
200 x 200	200	200	8	12	13	49.9		500	200	10	16	13	88.2	
250 x 125	248	124	5	8	8	25.1	500 x 300	482	300	11	15	13	111	
	250	125	6	9	8	29		488	300	11	18	13	125	
250 x 175	244	175	7	11	13	43.6	600 x 200	596	199	10	15	13	92.5	
250 x 250	250	250	9	14	13	71.8		600	200	11	17	13	103	
	250	255	14	14	13	81.6	600 x 300	582	300	12	17	13	133	
300 x 150	298	149	5.5	8	13	32		588	300	12	20	13	147	
	300	150	6.5	9	13	36.7	700 x 300	700	300	13	24	18	182	
300 x 200	294	200	8	12	13	55.8	800 x 300	800	300	14	26	18	207	
300 x 300	300	300	10	15	13	93	900 x 300	900	300	16	28	18	240	
	300	305	15	15	13	105								

Channel Steel SS400



mm											
A	B	t1	t2	kg/m	kg/ft	A	B	t1	t2	kg/m	kg/ft
75	40	5	7	6.92	2.11	200	90	8	13.5	30.30	9.24
100	50	5	7.5	9.36	2.85	250	90	9	13	34.60	10.55
125	65	6	8	13.40	4.08	300	90	9	13	38.10	11.61
150	75	6.5	10	18.60	5.67	300	90	10	15.5	43.80	13.35
150	75	9	12.5	24.00	7.32	380	100	10.5	16	54.50	16.61
180	75	7	10.5	21.40	6.52	380	100	13	20	67.30	20.51
200	80	7.5	11	24.60	7.50						