



Professional cranes & hoists for lifting



Electric Wire Rope Hoist / DC series



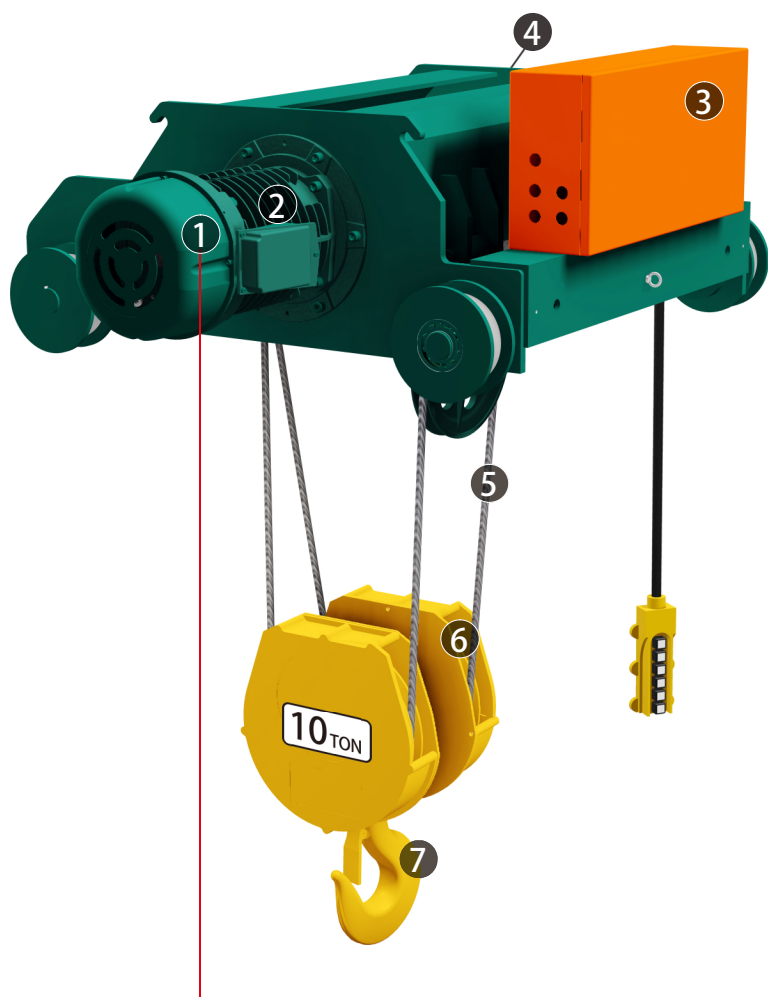
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- No further notice while sizes and dimensions update;
Quotations are based on practical dimensions.
- Due to the printing factors, the color of the products is
subject to minor deviation from the physical objects.



CHENG DAY MACHINERY WORKS CO., LTD.



DC BRAKE

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

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.

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.

(Optional function)

A 60%ED rate motor with cooling fan is available for heavy duty condition.

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

Model

T: MONORAIL TROLLEY
S: SADDLE TROLLEY
F: FOOTMOUNT

B

Gear box

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

H

Reeving/Falling

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

D

Blank:single speed

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

-

500

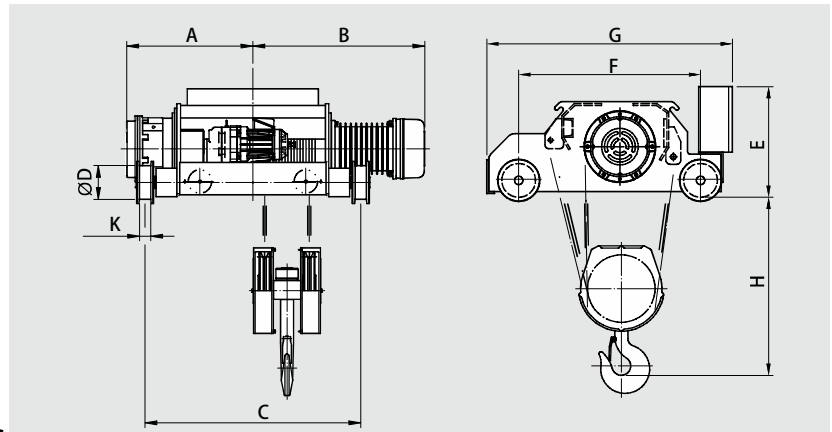
S.W.L.

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

DB

DC BRAKE

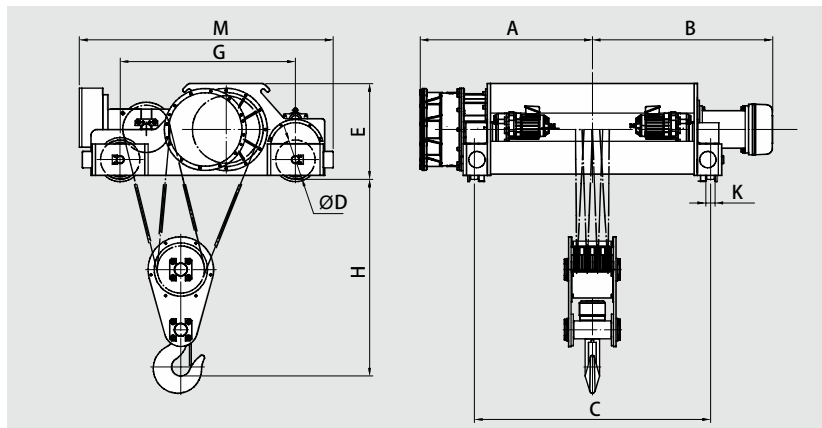
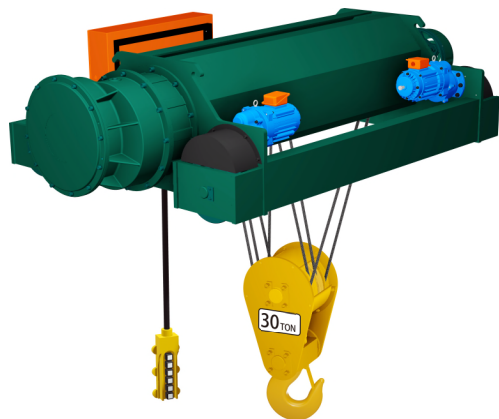
SB(A).SCA.SDA.SEA series



SPECIFICATIONS & DIMENSIONS:

Model	Capacity (ton)	Lift (m)	Hoisting				Traversing				Wire Rope		Approximate Dimension (mm)											Approximate Weight (kg)														
			Speed(m/min)		Motor kw pole	ED %		Speed(m/min)		Motor kw pole			ED %		H	A	B		C	D	E		F		G	K												
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual	Single	Dual			Single	Dual			Single	Dual																
SBH-500DB	5	6	7.3	6.1	7.5 4P	40	40/20	21	18	0.75 4P	40	40/20	\$ 10	2/4	750	553	726	870	850	150	545	545	690	988	45	680												
SBHD-500DB		9																																			690	
		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													603	776	920	850					
SBAH-500DB	5	6	5.1	4.3	5 4P	40	40/20	21	18	0.75 4P	40	40/20	\$ 10	2/4	750	553	728	816	850	150	545	545	690	988	45	680												
SBAHD-500DB		9																																			690	
		12	5.1/1.7	4.3/1.4	5/1.7 4/12P					21/7						18/6	0.75/0.25 4/12P													603	778	866	850					
SBH-750DB	7.5	6	7.3	6.1	1 4P	40	40/20	20	17	1 4P	40	40/20	\$ 14	2/4	1200	608	870	924	850	160	550	550	790	1095	60	880												
SBHD-750DB		9																																				1050
		12	7.3/2.4	6.1/2.0	11/3.7 4/12P					20/6.7						17/5.7	1.1/0.37 4/12P													743	1005	1059	1150					
SBL-1000DB	10	6	5.0	4.2	11 4P	40	40/20	17	14	1.1 4P	40	40/20	\$ 16	1/4	1300	605	853	907	850	180	590	580	970	1310	60	1070												
SBLD-1000DB		9																																				1080
		12	5.0/1.7	4.2/1.4	11/3.7 4/12P					17/5.7						14/4.7	1.1/0.37 4/12P													673	921	975	1150					
SCAH-1000DB	10	6	5.1	4.3	11 4P	40	40/20	17	14	1.1 4P	40	40/20	\$ 16	2/4	1500	702	853	907	850	180	580	580	920	1250	60	1290												
SCAHD-1000DB		9																																				1430
		12	5.1/1.7	4.3/1.4	11/3.7 4/12P					17/5.7						14/4.7	1.1/0.37 4/12P													817	968	1022	1150					
SDAH-1500DB	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20	\$ 18	2/4	1600	946	1112	1112	1400	200	720	720	1125	1465	60	2020												
SDAHD-1500DB		10																																				2080
		12	4.4/1.5	3.7/1.2	13/4.3 4/12P					18/6						15/5	1.5/0.5 4/12P													1007	1171	1171	1400					
SEAL-1500DB	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20	\$ 18	1/4	1550	690	965	965	1150	200	715	715	1160	1500	60	1600												
SEALD-1500DB		10																																				1815
		12	4.4/1.5	3.7/1.2	13/4.3 4/12P					18/6						15/5	1.5/0.5 4/12P													735	1010	1010	1150					
SCAL-2000DB	20	8	3.2	2.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20	\$ 20	1/4	1700	760	965	965	1150	200	715	715	1160	1500	60	2010												
SCALD-2000DB		10																																				2140
		12	3.2/1.1	2.7/0.9	13/4.3 4/12P					18/6						15/5	1.5/0.5 4/12P													806	1010	1010	1150					

SFA series



SPECIFICATIONS & DIMENSIONS :

Model	Capacity (ton)	Lift (m)	Hoisting				Traversing				Wire Rope		Approximate Dimension (mm)											Approximate Weight (kg)	
			Speed(m/min)		Motor kw pole	ED %		Speed(m/min)		Motor kw pole			ED %		H	A	B		C	D	E	G	K		M
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual	Single	Dual											
SFAH-1500DB	15	8	6.1	5.1	18.5 4P	40	40/20	18	15	1.5 4P	40	40/20	ø 18	2/4	1400	1007	1065	1188	1150	200	725	1150	60	1475	2165
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						1053	1111	1234	1400						2401
SFAJ-3000DB		12	6.1/2.0	5.1/1.7	18.5/6.2 4/12P			18/6	15/5	1.5/0.5 4/12P						1093	1151	1274	1400						2578
SFAJD-3000DB	30	8	3.0	2.5	18.5 4P	40	40/20	21	18	1.5 X 2 4P	40	40/20	ø 18	2/8	1800	1113	1171	1294	1400	300	730	1336	70	1936	2955
		10	3.0	2.5	18.5/6.2 4/12P			21/7	18/6	1.5/0.5X2 4/12P						1213	1271	1394	1600						3060
		12	3.0/1.0	2.5/0.83	18.5/6.2 4/12P			21/7	18/6	1.5/0.5X2 4/12P						1313	1371	1494	1800						3165

1.R/F=Reeving/falling numbers.

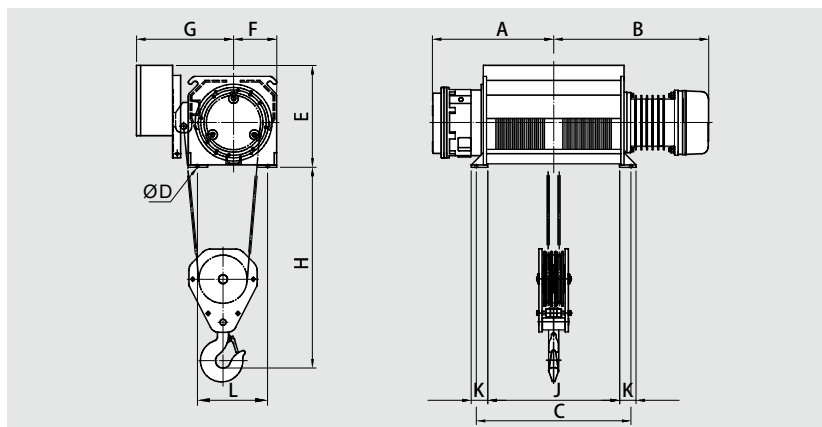
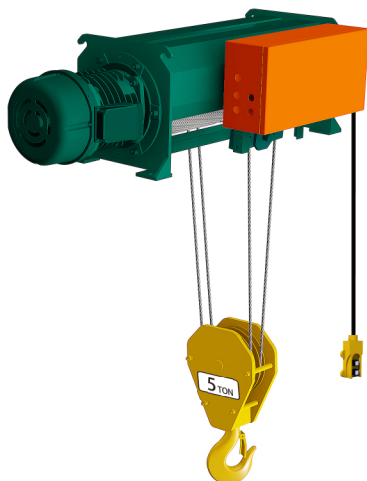
2.Dual speed model under green shadow.

3.Traversing pinion M4x18t.

4.Traversing motor standard supply, 50 Hz or 60Hz all used 4 pole, or please specify.

5.Traversing motor: used reducing gear motor.

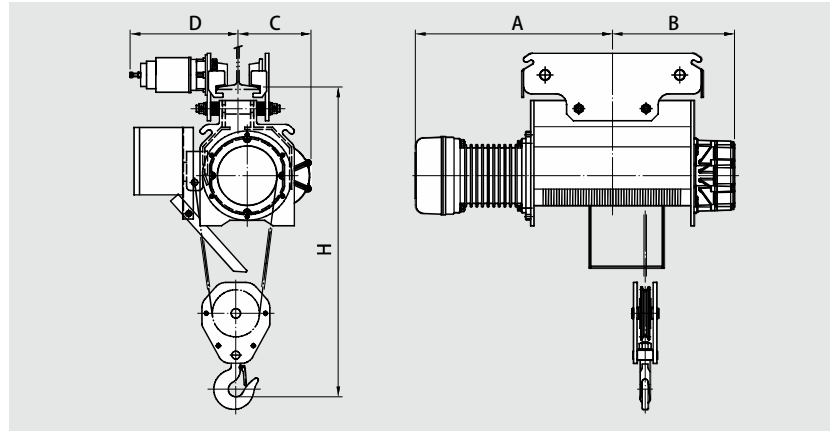
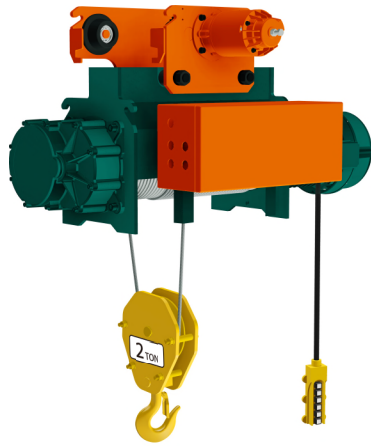
FP.FK.FG.FB series



SPECIFICATIONS & DIMENSIONS :

Model	Capacity (ton)	Lift (m)	Hoisting				Wire Rope		Approximate Dimension (mm)										Approximate Weight (kg)	
			Speed(m/min)		Motor kw pole	ED %			H	A	B	C	D	E	F	G	J	K		L
			60Hz	50Hz			ø mm	R/F												
FPM-100DB	1	6	10.8	9	2.2 4P	40	ø 8	1/2	650	314	539	467	ø 16	307	150	436	353	82	280	205
		9								364	589	567					453			215
		12								414	639	667					553			225
		15								480	707	800					686			248
		6								348	586	466					352			319
FKM-200DB	2	9	8	6.7	3 4P	40	ø 10	1/2	1150	401	638	571	ø 16	402	237	420	457	82	260	339
		12								453	691	676					562			359
		15								505	743	780					666			379
		6								422	660	614					500			359
		9								509	747	788					674			399
FKH-200DB	2	12	8	6.7	3 4P	40	ø 8	2/4	1150	596	833	961	ø 16	402	237	433	847	82	260	439
		15								693	930	1155					1041			474
		6								435	634	482					368			330
		9								477	675	565					451			350
		12								579	778	770					656			370
FGM-300DB	3	15	8	6.7	5 4P	40	ø 12	1/2	1250	633	832	878	ø 16	442	250	430	764	82	305	397
		6								450	688	670					556			350
		9								523	760	815					701			390
		12								675	912	1119					1005			430
		15								814	1052	1398					1284			473
FKL-300DB	3	6	4.4	3.7	3 4P	40	ø 10	1/4	1100	529	728	670	ø 16	377	275	443	556	82	310	330
		9								602	800	815					701			365
		12								719	917	1049					935			395
		15								814	1012	1239					1125			435
		6								529	728	670					556			413
FGH-300DB	3	9	8	6.7	5 4P	40	ø 10	2/4	1250	602	800	815	ø 16	442	250	443	701	82	305	433
		12								749	947	1109					995			490
		15								859	1058	1329					1215			520
		6								553	726	670					556			483
		9								603	776	770					656			523
FGL-500DB	5	12	4.4	3.7	5 4P	40	ø 10	1/4	1100	743	915	1049	ø 16	442	285	453	935	82	330	603
		15								818	991	1200					1086			641
		6								553	728	670					556			483
		9								603	778	770					656			523
		12								743	917	1049					935			603
FBH-500DB	5	15	7.3	6.1	7.5 4P	40	ø 10	2/4	1300	818	993	1200	ø 16	452	215	483	1086	82	350	641
		6								553	728	670					556			483
		9								603	778	770					656			523
		12								743	917	1049					935			603
		15								818	993	1200					1086			641
FBAH-500DB	5	6	5.1	4.3	5 4P	40	ø 10	2/4	1300	553	728	670	ø 16	452	215	483	556	82	350	483
		9								603	778	770					656			523
		12								743	917	1049					935			603
		15								818	993	1200					1086			641
		6								553	728	670					556			483

TP.TK.TG series



SPECIFICATIONS & DIMENSIONS :

Model	Capacity (ton)	Lift (m)	Hoisting				Traversing				Wire Rope		Approximate Dimension (mm)										Approximate Weight (kg)								
			Speed (m/min)		Motor kw pole	ED %		Speed (m/min)		Motor kw pole			ED %		H	A		B	C		D			Adjust for Std. I-Beam (mm)							
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual	Single	Dual		Single	Dual		Single	Dual	Single	Dual									
TPM-100DB	1	6	10.8	9	2.2 4P	40	40/20	24	20	0.25 4P	40	40/20	§ 8	1/2	1050	539	620	314	210	210	390	390	75-125	246							
TPMD-100DB		9	10.8/3.6	9/3	2.2/0.73 4/12P			24/8	20/6.7	0.25/0.08 4/12P						589	670	364						639	720	414	256				
		12																										666			
TKM-200DB	2	6	8	6.7	3 4P	40	40/20	24	20	0.25 4P	40	40/20	§ 10	1/2	1150	586	626	348	271	271	401	401	100-150	370							
TKMD-200DB		9																										638	678	401	390
		12	8/2.7	6.7/2.2	3/1 4/12P			24/8	20/6.7	0.25/0.08 4/12P						691	731	453						660	700	422	410				
TKH-200DB	2	6	8	6.7	3 4P	40	40/20	24	20	0.25 4P	40	40/20	§ 8	2/4	1150	660	700	422	267	267	403	403	100-150	400							
TKHD-200DB		9	8/2.7	6.7/2.2	3/1 4/12P			24/8	20/6.7	0.25/0.08 4/12P						747	787	509						833	873	596	420				
		12																										440			
TKL-300DB	3	6	4.4	3.7	3 4P	40	40/20	18	15	0.6 4P	40	40/20	§ 10	1/4	1150	688	728	518	275	275	443	443	125-175	410							
TKLD-300DB		9	4.4/1.5	3.7/1.2	3/1 4/12P			18/6	15/5	0.6/0.2 4/12P						1150	760	800						523	675	722	435	450			
		12																										490			
TGM-300DB	3	6	8	6.7	5 4P	40	40/20	18	15	0.6 4P	40	40/20	§ 12	1/2	1200	634	722	435	271	285	442	442	125-175	410							
TGMD-300DB		9																										675	763	477	430
		12	8/2.7	6.7/2.2	5/1.7 4/12P			18/6	15/5	0.6/0.2 4/12P						778	866	579						728	816	529	450				
TGH-300DB	3	6	8	6.7	5 4P	40	40/20	18	15	0.6 4P	40	40/20	§ 10	2/4	1200	778	866	579	271	285	442	443	125-175	390							
TGHD-300DB		9	8/2.7	6.7/2.2	5/1.7 4/12P			18/6	15/5	0.6/0.2 4/12P						800	888	602						917	1005	719	425				
		12																										455			
TGL-500DB	5	6	4.4	3.7	5 4P	40	40/20	18	15	0.6 4P	40	40/20	§ 10	1/4	1200	728	816	564	300	300	468	468	125-175	520							
TGLD-500DB		9	4.4/1.5	3.7/1.2	5/1.7 4/12P			18/6	15/5	0.6/0.2 4/12P						1200	800	888						602	907	1035	749	540			
		12																										1350	847	1035	749

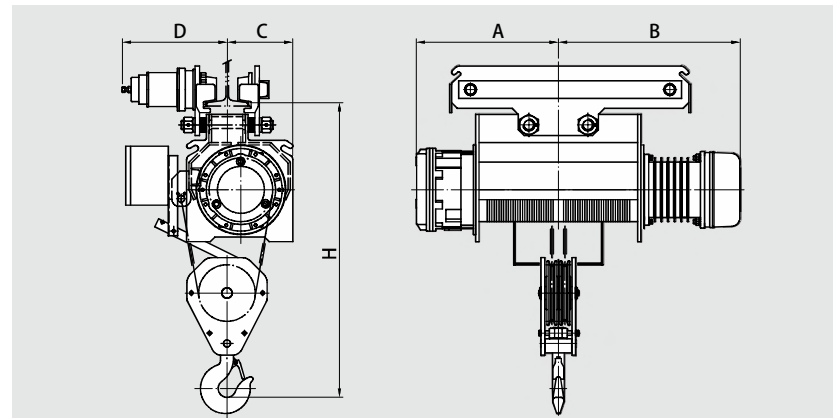
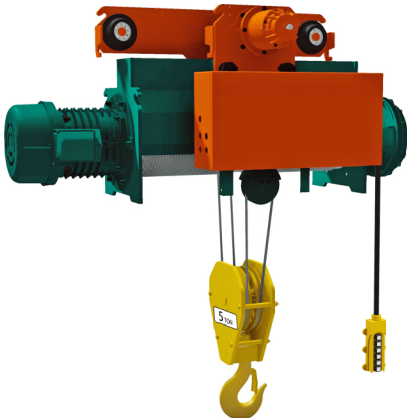
1.R/F=Reeving/falling numbers.

2.Dual speed model under green shadow.

3.Traversing pinion 2 ton M3.5x16t, 3-5 ton M3.5x12t.

4.Traversing motor standard supply, 50 Hz or 60Hz all used 4 pole, or please specify.

TB(A).TCA series



SPECIFICATIONS & DIMENSIONS :

Model	Capacity (ton)	Lift (m)	Hoisting				Traversing				Wire Rope		Approximate Dimension (mm)								Adjust for Std. I-Beam (mm)	Approximate Weight (kg)		
			Speed(m/min)		Motor kw pole	ED %		Speed(m/min)		Motor kw pole			ED %		H	A	B		C				D	
			60Hz	50Hz		Single	Dual	60Hz	50Hz		Single	Dual	\$ mm	R/F			Single	Dual	Single	Dual			Single	Dual
TBH-500DB	5	6	7.3	6.1	7.5 4P	40	40/20	18	15	0.6 4P	40	40/20	\$ 10	2/4	1250	553	726	870	278	315	445	453	125-175	590
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						603	776	920						710
TBAH-500DB	5	6	5.1	4.3	5 4P	40	40/20	18	15	0.6 4P	40	40/20	\$ 10	2/4	1250	553	728	816	278	315	445	453	125-175	590
TBHAD-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						603	778	866						710
TBH-750DB	7.5	6	7.3	6.1	11 4P	40	40/20	20	17	1.1 4P	40	40/20	\$ 14	2/4	2000	608	870	924	294	294	640	640	150-200	990
TBHD-750DB		9	7.3/2.4	6.1/2.0	11/3.7 4/12P			20/6.7	17/5.7	1.1/0.37 4/12P						743	1005	1059						1020
TBL-1000DB	10	6	5.0	4.2	11 4P	40	40/20	18	15	1.1 4P	40	40/20	\$ 16	1/4	2000	605	853	907	380	380	635	726	150-200	970
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						673	921	975						1000
TCAH-1000DB	10	6	5.1	4.3	11 4P	40	40/20	18	15	1.1 4P	40	40/20	\$ 16	2/4	2250	702	853	907	335	335	635	726	150-200	1100
TCAHD-1000DB		9	5.1/1.7	4.3/1.4	11/3.7 4/12P			18/6	15/5	1.1/0.37 4/12P						817	968	1022						1170
		12	5.1/1.7	4.3/1.4	11/3.7 4/12P			18/6	15/5	0.75x2 4P 0.75/0.25x2 4/12P						914	1065	1119			585	625		1240

1.R/F=Reeving/falling numbers.

2.Dual speed model under green shadow.

3.Traversing pinion 5 ton M3.5x12t, 7.5 ton M3.5x20t, 10 ton M3.5x23t.

4.Traversing motor standard supply, 50 Hz or 60Hz all used 4 pole, or please specify.

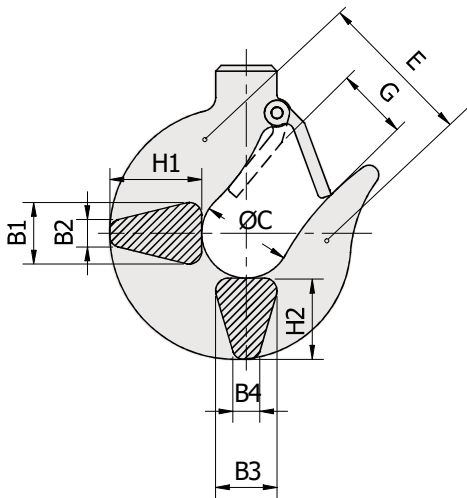
5.Traversing motor: 5 ton used planetary reducing gear motor, 7-10 ton used reducing gear motor.

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 6xP.Fi(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-100DB SBL-1000DB SCAH-1000DB	6x37-H	161
§ 18	SDAH-1500DB SEAL-1500DB SFAH-1500DB SFAJ-3000DB	IWRC 6xP.Fi(29)-H	234
§ 20	SCAL-2000DB	IWRC 6xP.Fi(29)-H	331

HOOK



Mode	Capacity (ton)	Dimension (mm)									Allow Stress (kg/mm ²)	Hook Block Weight (kg)
		H1	B1	B2	H2	B3	B4	C	G	E		
T;FPM	1	33	23	9	29	23	9	40	27	61	70	10
T;F;SKM	2	45	31	10	41	31	10	46	35	70	70	30
T;F;SKH												
T;F;SGM	3	56	38	12	51	38	12	60	42	90	70	40
T;F;SKL												
T;F;SGH												
T;F;SGL	5	75	48	16	68	48	16	75	56	105	70	40
T;F;SB(A)H												50
T;SBH	7.5	85	61	22	77	61	22	85	62	140	70	100
T;SBL	10	100	68	27	95	64	27	100	70	150	70	130
T;SCAH												
SDAH	15	120	85	32	110	83	32	120	82	165	70	220
SEAL												
SFAH												
SCAL	20	120	85	32	110	83	32	120	82	165	100	250
SFAJ	30	138	98	36	128	93	36	140	105	220	100	420



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)

Load spectrum	Cubic mean value Definitions	Average operating time per day in hours							
1 (light)	($k \leq 0.50$) Mechanisms or parts thereof, usually subject to very small loads and in exceptional cases only to maximum loads.	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16	> 16	
2 (medium)	($0.50 < k \leq 0.63$) Mechanisms or parts thereof, usually subject to small loads but rather often to maximum loads.	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16	> 16
3 (heavy)	($0.63 < k \leq 0.80$) Mechanisms or parts thereof, usually subject to medium loads but frequently to maximum loads.	≤ 0.12	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8	8-16
4 (very heavy)	($0.80 < k \leq 1$) Mechanisms or parts thereof, usually subject to maximum or almost to maximum loads.		≤ 0.12	0.12-0.25	0.25-0.5	0.5-1	1-2	2-4	4-8
Classification of Mechanisms FEM 9.511		1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m

ISO/FEM (9.511)

Classification of mechanisms:

1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m
M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8

Classification of mechanisms into groups:

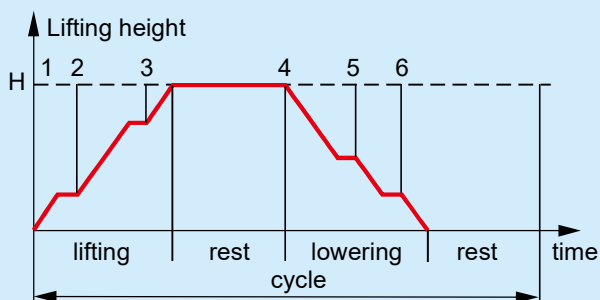
Load spectrum	Cubic mean value	Class of operation time									
		V0.06	V0.12	V0.25	V0.5	V1	V2	V3	V4	V5	
		T0	T1	T2	T3	T4	T5	T6	T7	T8	
		Average operating time per day in hours									
		≤ 0.12	≤ 0.25	≤ 0.5	≤ 1	≤ 2	≤ 4	≤ 8	≤ 16	> 16	
1 L1	$k \leq 0.50$			1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	
2 L2	$0.50 < k \leq 0.63$		1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m	
3 L3	$0.63 < k \leq 0.80$	1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m		
4 L4	$0.80 < k \leq 1.00$	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	5 m			

Class of operating time:

Class of operation time	Average operating time per day (in hours)	Calculated total operating time in hours
V0.06 T0	≤ 0.12	200
V0.12 T1	≤ 0.25	400
V0.25 T2	≤ 0.5	800
V0.5 T3	≤ 1	1600
V1 T4	≤ 2	3200
V2 T5	≤ 4	6300
V3 T6	≤ 8	12500
V4 T7	≤ 16	25000
V5 T8	> 16	50000

OPERATION CYCLE

Hoist with one speed



Hoist with two speed

