



ELECTRIC WIRE ROPE HOIST



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AC Brake

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

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.

Hook

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

Control box

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

Gear box

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

Wire rope

According to JIS no.6 standard for wire rope applications, we use 6x37-A and IWRC 6xFi (29)-B wire rope which features flexible and long life span.

Sheave

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

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
B : 7.5~11kw x 4P
CA : 11~13kw 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

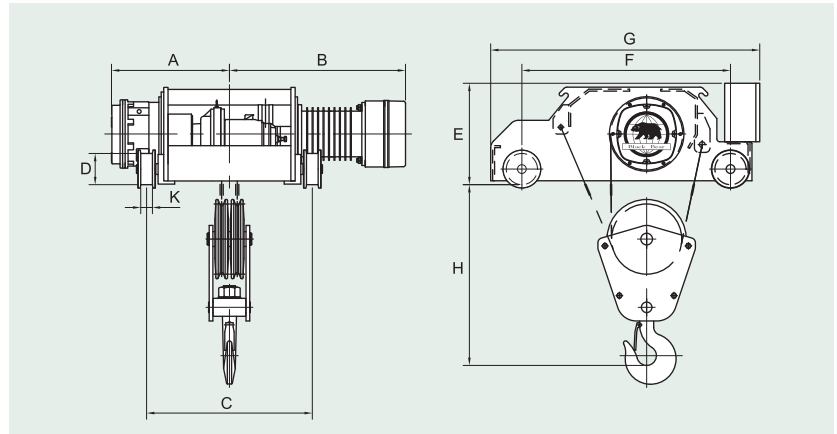
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500

S.W.L.

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

SB.SC.SE 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	\$ mm	R/F			Single	Dual			Single	Dual				
SBH-500	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	866	886	850	150	545	545	690	988	45	680
SBHD-500		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						603	916	936	850							690
		12														743	1056	1076	1150							720
SBH-750	7.5	6	7.3	6.1	11 4P	40	40/20	20	17	1.1 4P	40	40/20	\$ 14	2/4	1050	608	921	1000	850	160	500	500	790	1050	60	880
SBHD-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						743	1056	1135	1150							1050
		12														833	1146	1225	1300							1250
SBL-1000	10	6	5.0	4.2	11 4P	40	40/20	15	13	1.1 4P	40	40/20	\$ 16	1/4	1450	605	903	982	850	160	520	520	970	1280	60	1090
SBLD-1000		9	5.0/1.7	4.2/1.4	11/3.7 4/12P			15/5	13/4	1.1/0.37 4/12P						673	971	1050	1150							1100
		12														773	1071	1150	1150							1230
SCAH-1000	10	6	5.1	4.3	11 4P	40	40/20	17	14	1.1 4P	40	40/20	\$ 16	2/4	1500	702	903	982	850	180	580	580	920	1250	60	1290
SCAHD-1000		9	5.1/1.7	4.3/1.4	11/3.7 4/12P			17/6	14/5	1.1/0.37 4/12P						817	1018	1097	1150							1430
		12														914	1115	1194	1300							1590
SEAL-1500	15	8	4.4	3.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20	\$ 20	1/4	1500	690	980	1085	1150	200	665	715	1160	1500	60	1550
SEALD-1500		10	4.4/1.5	3.7/1.2	13/4.3 4/12P			18/6	15/5	1.5/0.5 4/12P						735	1026	1130	1150							1765
		12														801	1092	1196	1300							2000
SCAL-2000	20	8	3.2	2.7	13 4P	40	40/20	18	15	1.5 4P	40	40/20	\$ 20	1/4	1700	760	980	1040	1150	200	665	715	1160	1500	60	1950
SCALD-2000		10	3.2/1.1	2.7/0.9	13/4.3 4/12P			18/6	15/5	1.5/0.5 4/12P						735	1026	1086	1150							2080
		12														872	1092	1152	1300							2230

1.R/F=Reeving/falling numbers.

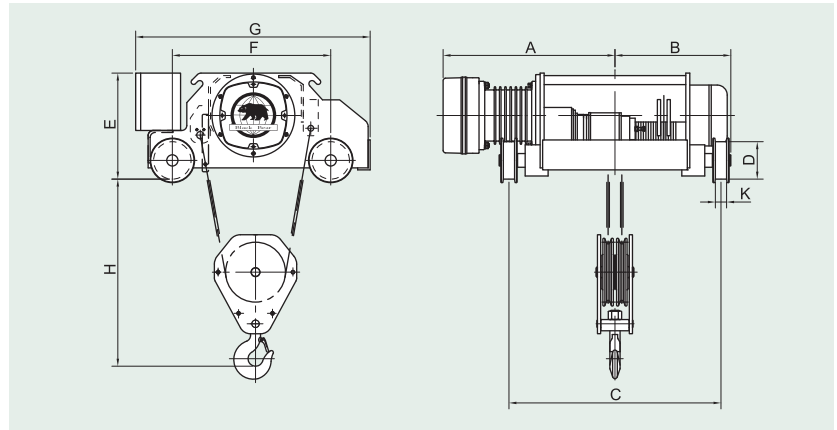
2.Dual speed model under green shadow.

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

3.Traversing pinion 5 ton M3.5x23t, 7.5 ton M3.5x20t, 10-20 ton M3.5x23t.

5.Traversing motor: used reducing gear motor.

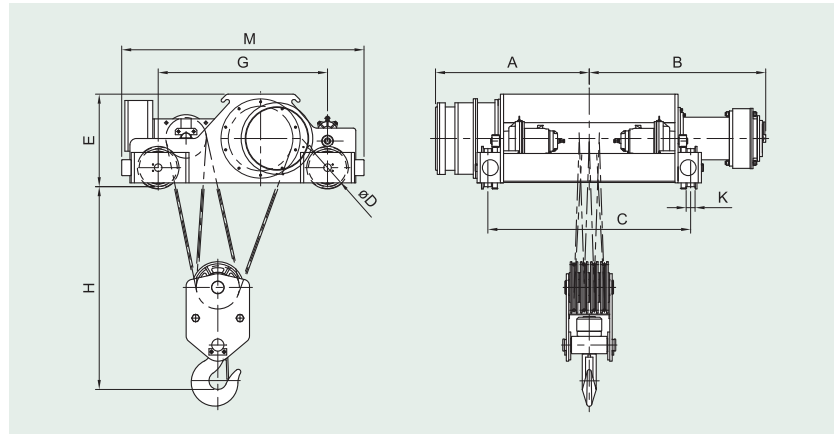
SK.SG SERIES



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	\$ mm	R/F		Single	Dual				Single	Dual				
SKM-200	2	6	8	6.7	3 4P	40	40/20	20	17	0.25 4P	40	40/20	\$ 10	1/2	600	640	680	401	600	120	390	460	615	923	40	420
SKMD-200		9	8/2.7	6.7/2.2	3/1 4/12P			20/6	17/6	0.25/0.08 4/12P						640	680	401	600							440
		12														692	732	462	850							450
SKH-200	2	6	8	6.7	3 4P	40	40/20	20	17	0.25 4P	40	40/20	\$ 8	2/4	600	661	701	462	850	120	390	460	615	923	40	450
SKHD-200		9	8/2.7	6.7/2.2	3/1 4/12P			20/6	17/6	0.25/0.08 4/12P						748	788	462	850							470
		12														834.5	874.5	612	1150							490
SKL-300	3	6	4.4	3.7	3 4P	40	40/20	21	18	0.4 4P	40	40/20	\$ 10	1/4	750	689	729	465	850	150	495	495	635	940	45	500
SKLD-300		9	4.4/1.5	3.7/1.2	3/1 4/12P			21/7	18/6	0.4/0.13 4/12P						762	802	523	850							530
		12														879	919	640	1150							560
SGM-300	3	6	8	6.7	4 4P	40	40/20	21	18	0.4 4P	40	40/20	\$ 12	1/2	750	702	814	477	850	150	495	495	660	968	45	490
SGMD-300		9	8/2.7	6.7/2.2	5/1.7 4/12P			21/7	18/6	0.4/0.13 4/12P						702	814	477	850							500
		12														804	916	579	850							510
SGH-300	3	6	8	6.7	5 4P	40	40/20	21	18	0.4 4P	40	40/20	\$ 10	2/4	750	754	866	529	850	150	495	495	635	940	45	520
SGHD-300		9	8/2.7	6.7/2.2	5/1.7 4/12P			21/7	18/6	0.4/0.13 4/12P						827	939	602	850							580
		12														944	1056	719	1150							610
SGL-500	5	6	4.4	3.7	5 4P	40	40/20	21	18	0.75 4P	40	40/20	\$ 10	1/4	900	754	866	529	850	150	495	545	635	940	45	570
SGLD-500		9	4.4/1.5	3.7/1.2	5/1.7 4/12P			21/7	18/6	0.75/0.25 4/12P						827	939	602	850							590
			12																			944	1056	719	1150	

SF SERIES



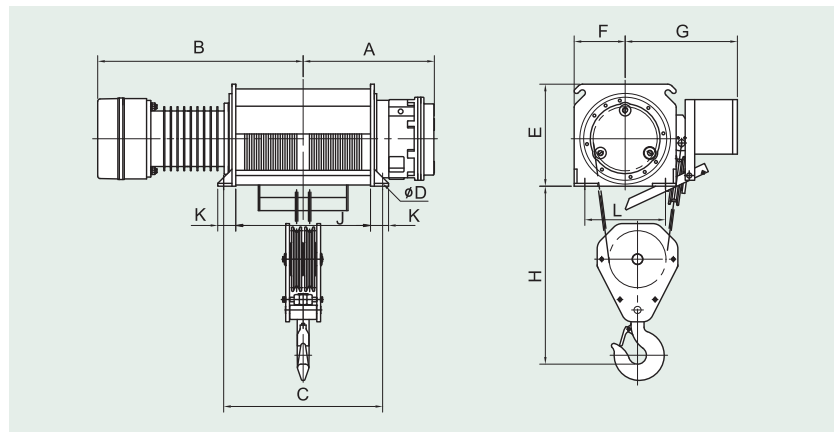
SPECIFICATIONS & DIMENSIONS :

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	\$ mm	R/F			Single	Dual							
SFAH-1500	15	8	6.1	5.1	18.5 4P	40	40/20	18	15	1.5 4P	40	40/20	\$ 18	2/4	1600	1007	1140.5	1234.5	1150	200	725	1150	60	1475	2115
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						1053	1186.5	1280.5	1400						2528
SFAJ-3000		12														1093	1226.5	1322.5	1400						2500
SFAJD-3000	30	8	3.0	2.5	18.5 4P	40	40/20	21	17.5	1.5 4P	40	40/20	\$ 18	2/8	1600	1113	1246	1343	1400	300	730	1336	70	1912	2725
		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						1213	1346	1443	1600						2950
		12														1313	1446	1543	1800						

3.Traversing pinion M4x18t.

5.Traversing motor: used reducing gear motor.

FP.FK.FG.FB SERIES

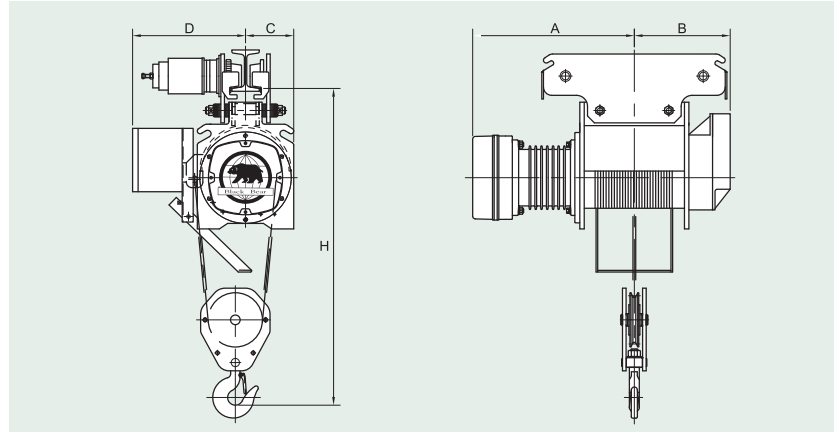


SPECIFICATIONS & DIMENSIONS:

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		Single	Dual	§ mm													R/F
FPM-100	1	6	10.8	9	2.2 4P	40	40/20	§ 8	1/2	650	314	531	467	§ 16	310	150	475	373	72	280	205
		364									581	567	473					215			
		414									631	667	573					225			
		464									681	767	673					235			
FKM-200	2	6	8	6.7	3 4P	40	40/20	§ 10	1/2	650	348	587	466	§ 16	390	175	420	372	72	260	319
		401									640	571	477					339			
		453									692	676	582					359			
		506									745	781	687					379			
FKH-200	2	6	8	6.7	3 4P	40	40/20	§ 8	2/4	650	422	661	614	§ 16	390	175	433	520	72	260	359
		509									748	788	694					399			
		596									835	961	867					439			
		682									921	1134	1040					479			
FGM-300	3	6	8	6.7	5 4P	40	40/20	§ 12	1/2	750	435	660	482	§ 16	430	185	430	384	74	280	330
		477									702	565	467					350			
		579									804	770	672					370			
		634									829	880	782					390			
FKL-300	3	6	4.4	3.7	3 4P	40	40/20	§ 10	1/4	750	450	689	670	§ 16	360	235	443	572	74	250	350
		523									762	815	717					390			
		640									879	1049	951					430			
		733									972	1235	1137					470			
FGH-300	3	6	8	6.7	5 4P	40	40/20	§ 10	2/4	750	529	754	670	§ 16	430	185	443	572	74	280	330
		602									827	815	717					365			
		719									944	1049	951					395			
		814									1039	1235	1141					425			
FGL-500	5	6	4.4	3.7	5 4P	40	40/20	§ 10	1/4	900	529	754	670	§ 16	430	245	453	572	74	270	413
		602									827	815	717					433			
		719									944	1049	951					453			
		805									1114	1221	1123					473			
FBH-500	5	6	7.3	6.1	7.5 4P	40	40/20	§ 10	2/4	750	553	866	670	§ 16	430	215	473	572	74	340	483
		603									916	770	672					523			
		743									1056	1049	951					603			
		838									1151	1239	1141					633			

1.R/F=Reeving/falling numbers.

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-100	1	6	10.8	9	2.2 4P	40	40/20	24	20	0.25 4P	40	40/20	§ 8	1/2	1150	530	571	314	235	235	380	380	75-125	246
TPMD-100		9	10.8/3.6	9/3	2.2/0.73 4/12P			24/8	20/6	0.25/0.08 4/12P						580	621	364						256
		12														630	671	414						266
TKM-200	2	6	8	6.7	3 4P	40	40/20	24	20	0.25 4P	40	40/20	§ 10	1/2	1150	587	627	350	175	175	410	410	100-150	370
TKMD-200		9	8/2.7	6.7/2.2	3/1 4/12P			24/8	20/6	0.25/0.08 4/12P						640	680	403						390
		12														692	732	455						410
TKH-200	2	6	8	6.7	3 4P	40	40/20	24	20	0.25 4P	40	40/20	§ 8	2/4	1150	661	701	422	175	175	433	433	100-150	400
TKHD-200		9	8/2.7	6.7/2.2	3/1 4/12P			24/8	20/6	0.25/0.08 4/12P						748	788	509						420
		12														834.5	874.5	595.5						440
TKL-300	3	6	4.4	3.7	3 4P	40	40/20	18	15	0.6 4P	40	40/20	§ 10	1/4	1200	689	729	452	235	235	443	443	125-175	410
TKLD-300		9	4.4/1.5	3.7/1.2	3/1 4/12P			18/6	15/5	0.6/0.2 4/12P						762	802	525						450
		12														879	919	642						490
TGM-300	3	6	8	6.7	5 4P	40	40/20	18	15	0.6 4P	40	40/20	§ 12	1/2	1200	660	772	438	185	210	430	455	125-175	410
TGMD-300		9	8/2.7	6.7/2.2	5/1.7 4/12P			18/6	15/5	0.6/0.2 4/12P						702	814	480						430
		12														804	916	582						450
TGH-300	3	6	8	6.7	5 4P	40	40/20	18	15	0.6 4P	40	40/20	§ 10	2/4	1200	754	866	532	185	210	433	468	125-175	390
TGHD-300		9	8/2.7	6.7/2.2	5/1.7 4/12P			18/6	15/5	0.6/0.2 4/12P						827	939	605						425
		12														944	1056	722						455
TGL-500	5	6	4.4	3.7	5 4P	40	40/20	18	15	0.6 4P	40	40/20	§ 10	1/4	1300	754	866	532	235	260	443	468	125-175	520
TGLD-500		9	4.4/1.5	3.7/1.2	5/1.7 4/12P			18/6	15/5	0.6/0.2 4/12P						827	939	605						540
		12														944	1056	722						560

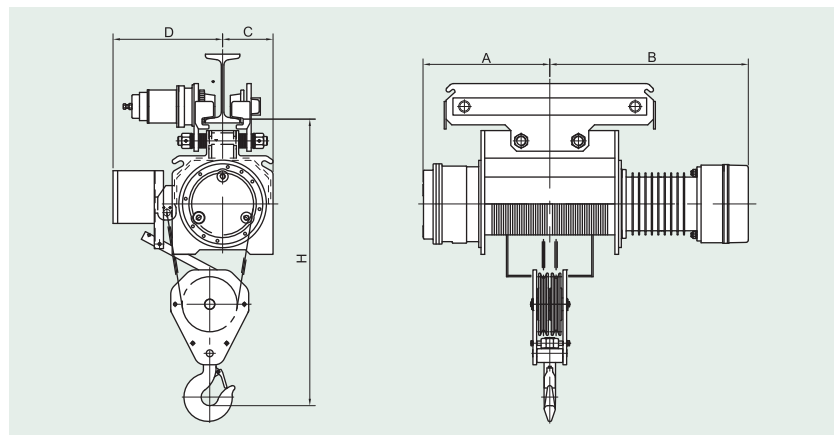
1.R/F=Reeving/falling numbers.

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 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	Single	Dual			Single	Dual	Single	Dual				
TBH-500	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	776	886	220	255	498	513	125-175	590
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						603	826	936						630
TBH-750	7.5	6	7.3	6.1	11 4P	40	40/20	20	17	1.1 4P	40	40/20	§ 14	2/4	1860	607.5	920.5	999.8	240	240	578	578	150-200	990
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						742.5	1055.5	1134.5						1020
TBL-1000	10	6	5.0	4.2	11 4P	40	40/20	18	15	1.1 4P	40	40/20	§ 16	1/4	2260	832.5	1145.5	1145.5	340	340	500	500	150-200	1060
TBLD-1000		9						1.1/0.37 4/12P	607	903						982	990							
		12	5.0/1.7	4.2/1.4	11/3.7 4/12P			18/6	15/5	0.75x2 0.75/0.25x2 4P						775	1071	1150						1060

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.

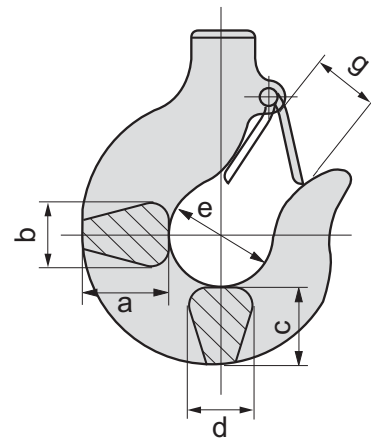
PRODUCT GUIDE

Capacity (ton)	Monorail High Speed	Crab High Speed	Footmount High Speed	Monorail Low Speed	Crab Low Speed	Footmount Low Speed	Dual Speed
1	TPM-100		FPM-100				TPMD-100
2	TKM-200	SKM-200	FKM-200				TKMD-200 SKMD-200
2	TKH-200	SKH-200	FKH-200				TKHD-200 SKHD-200
3	TGM-300	SGM-300	FGM-300	TKL-300	SKL-300	FKL-300	TGMD-300 SGMD-300 TKLD-300 SKLD-300
3	TGH-300	SGH-300	FGH-300				TGHD-300 SGHD-300
5	TBH-500	SBH-500	FBH-500	TGL-500	SGL-500	FGL-500	TBHD-500 SBHD-500 TGLD-500 SGLD-500
7.5	TBH-750	SBH-750					TBHD-750 SBHD-750
10		SCAH-1000		TBL-1000	SBL-1000		SCAHD-1000 SBLD-1000 TBLD-1000
15		SFAH-1500			SEAL-1500		SEALD-1500 SFAHD-1500
20					SCAL-2000		SCALD-2000
30					SFAJ-3000		SFAJD-3000

WIRE ROPE



HOOK



Rope Dia (mm) d	Model Being Used	Construction	Specified Breaking Load (kg)
§ 8	TPM-100 TKH-200 SKH-200 FPM-100 FKH-200	Steel Wire Rope 6x37-A	3470
§ 10	TKM-200 TKL-300 TGH-300 SKM-200 SKL-300 SGH-300 FKM-200 FKL-300 FGH-300		5420
	TGL-500 FGL-500 SBH-500 SGL-500 TBH-500 FBH-500	Steel Wire Rope IWRC 6XF(29)-B	6900
§ 12	TGM-300 SGM-300 FGM-300	Steel Wire Rope 6x37-A	9940
§ 14	TBH-750 SBH-750		10600
§ 16	TBL-1000 SBL-1000 SCAH-1000	Steel Wire Rope IWRC 6XF(29)-B	13900
§ 18	SFAH-1500 SFAJ-3000		22400
§ 20	SEAL-1500 SCAL-2000		27600

Capacity (ton)	Dimensions (mm)						Pull Stress (kg/cm ²)
	a	b	c	d	e	g	
1	39	26	39	26	39	27	7000
2	45	31	41	31	45	36	7000
3	57	38	52	38	60	43	7000
5	75	48	68	48	75	56	7000
7.5	85	62	77	62	85	62	7000
10	100	67	95	62	100	65	7000
15	120	87	110	85	120	82	7000
20	140	100	130	95	140	95	7000
30	140	108	130	103	140	95	10000



POWER SUPPLY :

- ▲ The "Black Bear" 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.

FEDERATION EUROPEENNE DE LA MANUTENTION

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:

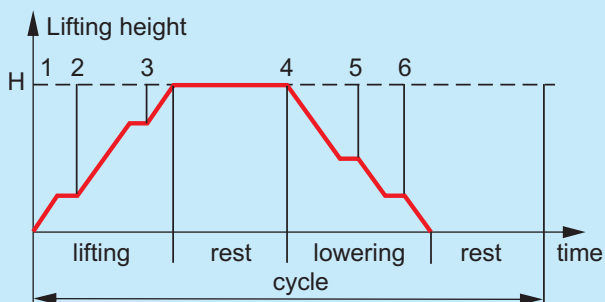
Load spectrum	Cubic mean value	Class of operation time									
		V0.06	V0.12	V0.25	V0.5	V1	V2	V3	V4	V5	
		TO	T1	T2	T3	T4	T5	T6	T7	T8	
		Average operating time per day in hours									
		≤ 0.12	≤ 0.25	≤ 0.5	≤ 1	≤ 2	≤ 4	≤ 8	≤ 16	> 16	
1 L1	$k \leq 0.50$			1 Dm	1 Cm	1 Bm	1 Am	2 m	3 m	4 m	
2 L2	$0.50 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

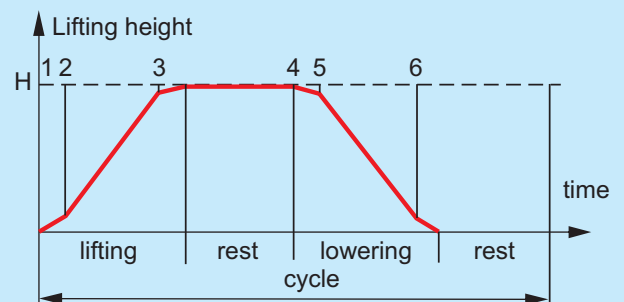
Class of operation time	Average operating time per day (in hours)	Calculated total operating time in hours
V0.06 T0	≤ 0.12	200
V0.12 T1	≤ 0.25	400
V0.25 T2	≤ 0.5	800
V0.5 T3	≤ 1	1600
V1 T4	≤ 2	3200
V2 T5	≤ 4	6300
V3 T6	≤ 8	12500
V4 T7	≤ 16	25000
V5 T8	> 16	50000

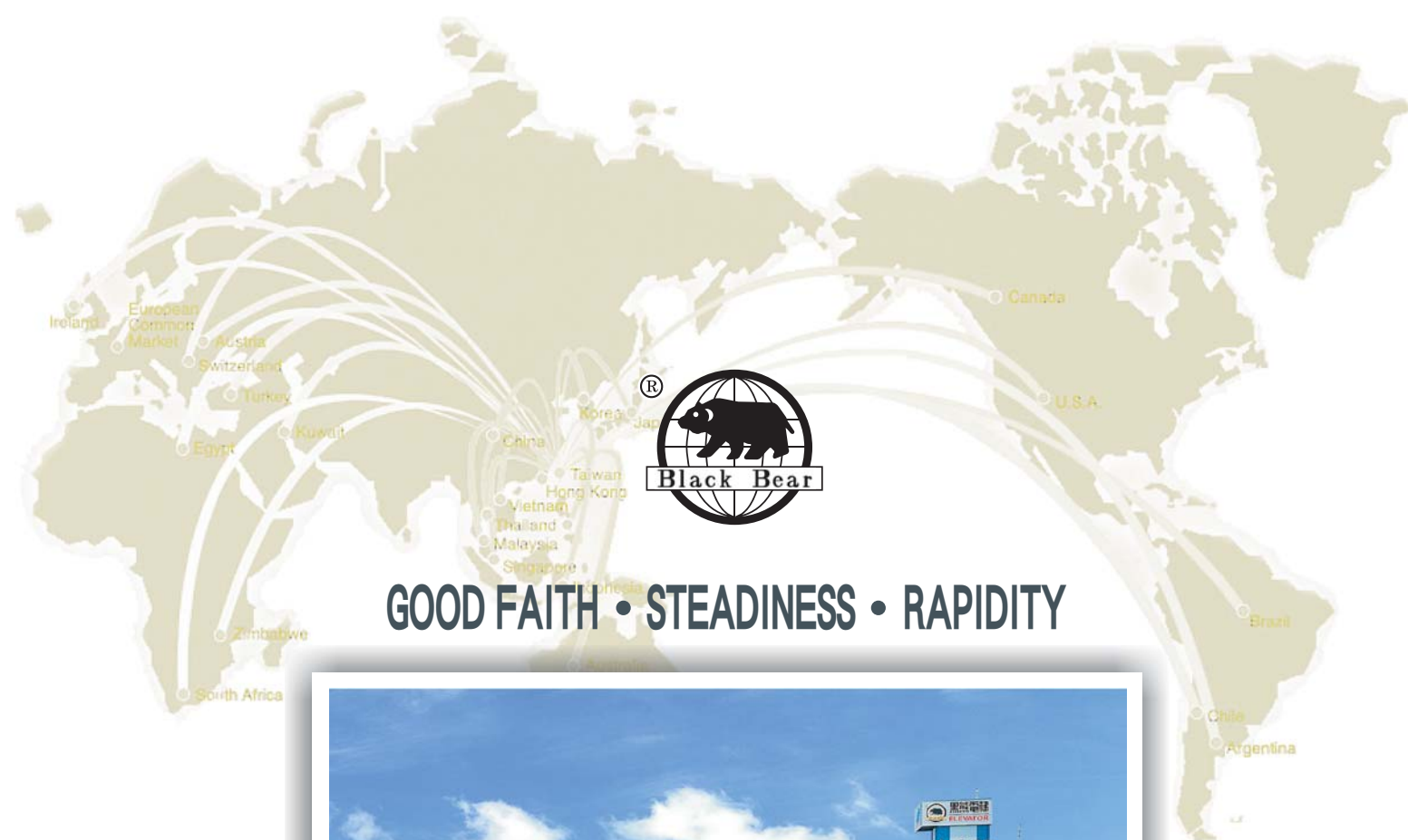
OPERATION CYCLE

Hoist with one speed



Hoist with two speed





GOOD FAITH • STEADINESS • RAPIDITY



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