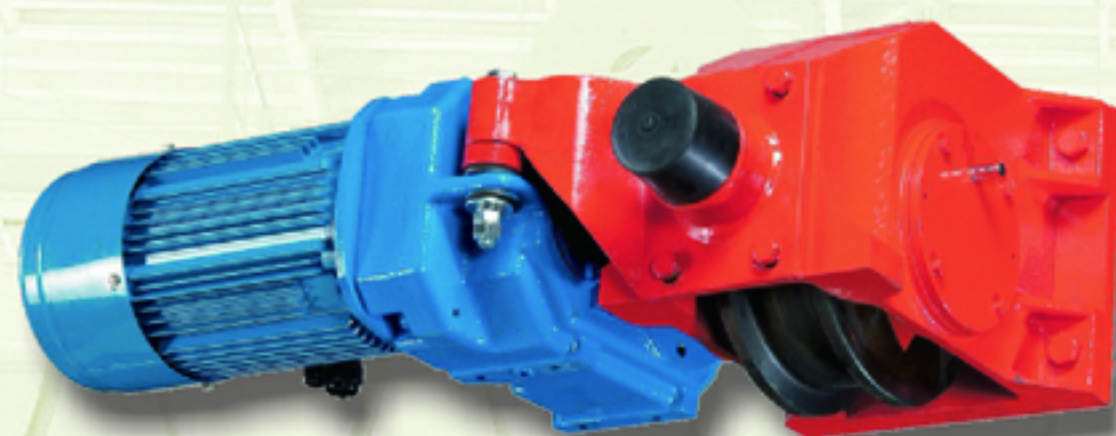


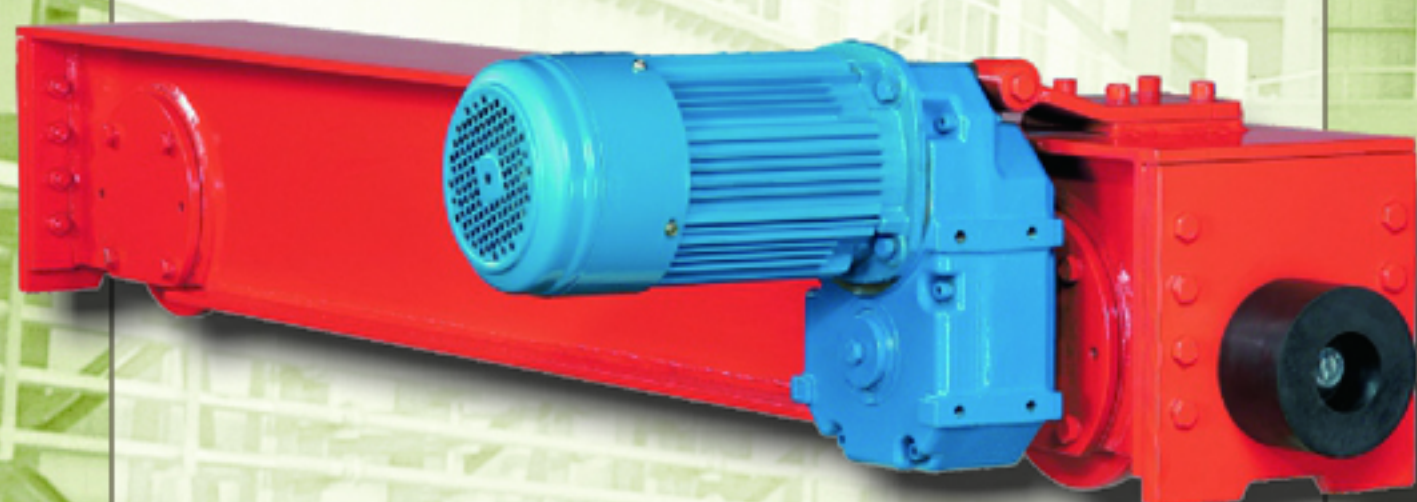
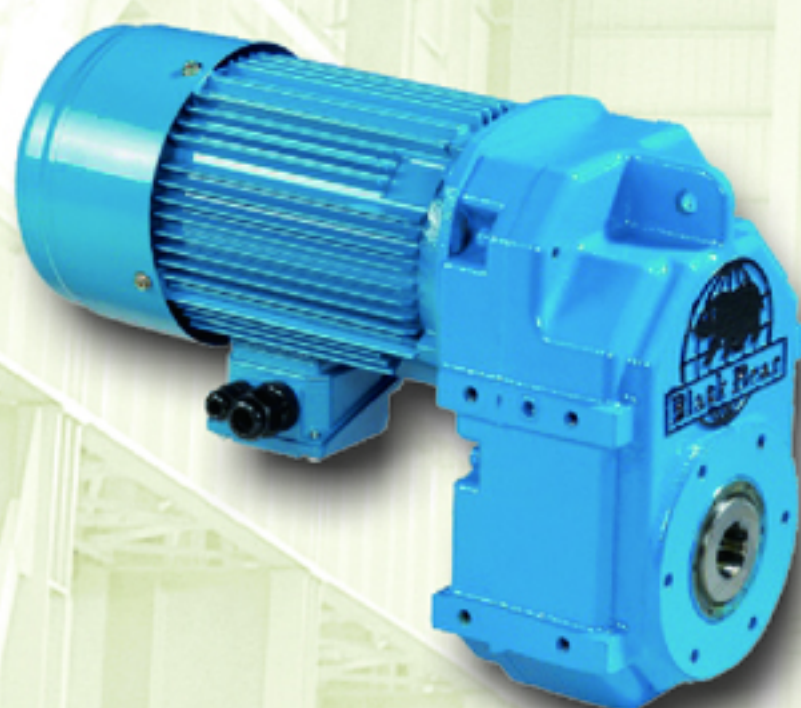
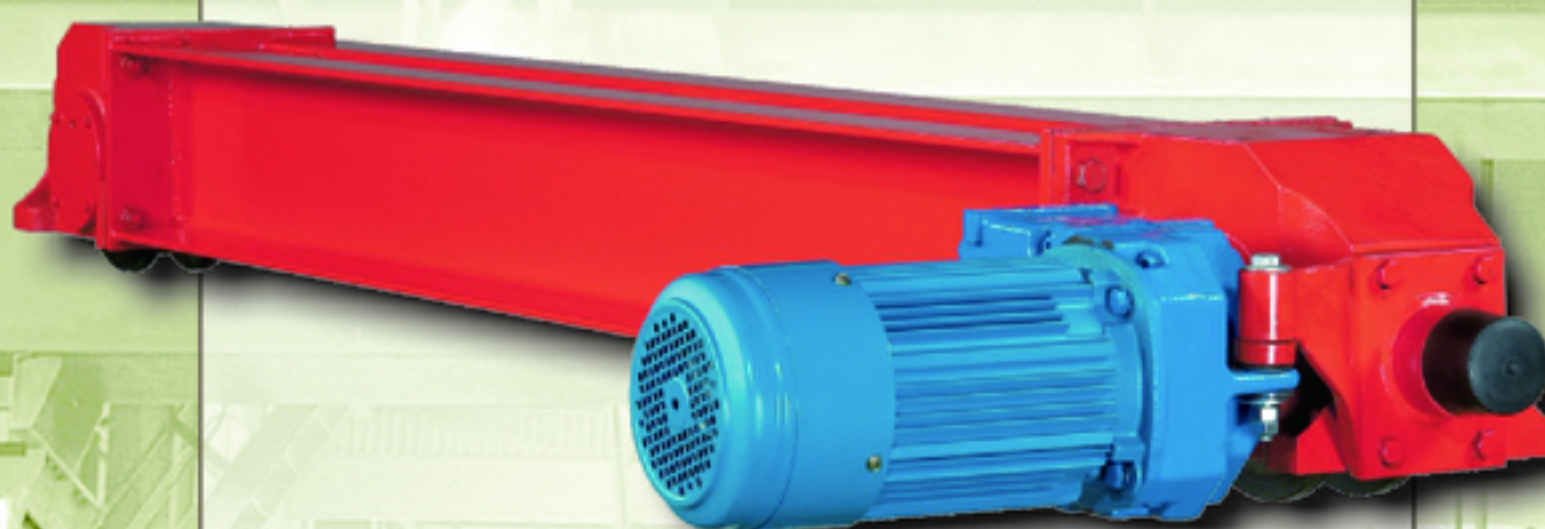


天車鞍座及其配件

Crane Components



安



台灣：徐興機械工業股份有限公司
越南總代理：廣聯天車電梯責任有限公司



架空式鞍座 TOP RUNNING END TRUCK



▲ 整體式鞍座

鞍座與輪組架構由鋼板焊接而成。

▲ All-in-one end truck

End truck and hollow shaft drive Wheel Block are integrated formed and welded by heavy plate steel.



▲ 車輪頭組鞍座

車輪頭組以螺栓連接鞍部的聯結。

▲ Wheel head end truck

Wheel head kits are bolted to the saddle by screwing connection.

■ 架空式鞍座

- 鞍座與輪組架構由鋼板焊接或組合成型。
- 鞍座軸承固定處以CNC精密中心機械加工。
- 高等級鋼輪軸精密定位於輪子內。
- 鞍座附上橡膠碰撞器，固定於端邊板。
- 鞍座端邊板鎖於鞍座板使輪子易於移除。
- 輪子採鍛鋼或鑄鋼雙法蘭精密加工，硬度HRC40~45。
- 機樑至鞍座的加勁板，可供選用全部聯結螺絲及焊接板。

■ TOP RUNNING END TRUCK

- Bearing mounting area of End truck is precisely machined by CNC machining center.
- Wheel Axles are precisely machined high grade steel and pressed fitting into the wheels.
- End trucks are supplied with rubber bumpers bolted to the end plates.
- End plates are bolted to the end truck frame for easy wheel removal.
- Wheels are double flange forged or cast steel precisely machined and hardness HRC 40~45.
- Connecting plate between girder and end truck could be supplied as a option and come complete with whole connection bolts and welded plates.



■ 中空軸減速馬達

- 齒箱為堅固鑄造結構，以CNC精密機械中心加工。
- 精密螺旋齒輪與正齒輪，提供安靜與無故障的運作。
- 選用IEC馬達框號為堅固鑄鐵結構。
- 選用IEC馬達剎車採整流直流電磁碟式剎車，內置冷卻風扇。
- 大油槽以確保足夠的潤滑與良好的散熱。
- 模組化設計，馬達可以在齒輪箱未拆除之情況下更換。

■ HOLLOW SHAFT GEAR REDUCER MOTOR

- Gearboxes 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 dismounting the gear box because of its modular design.

■ 車輪組

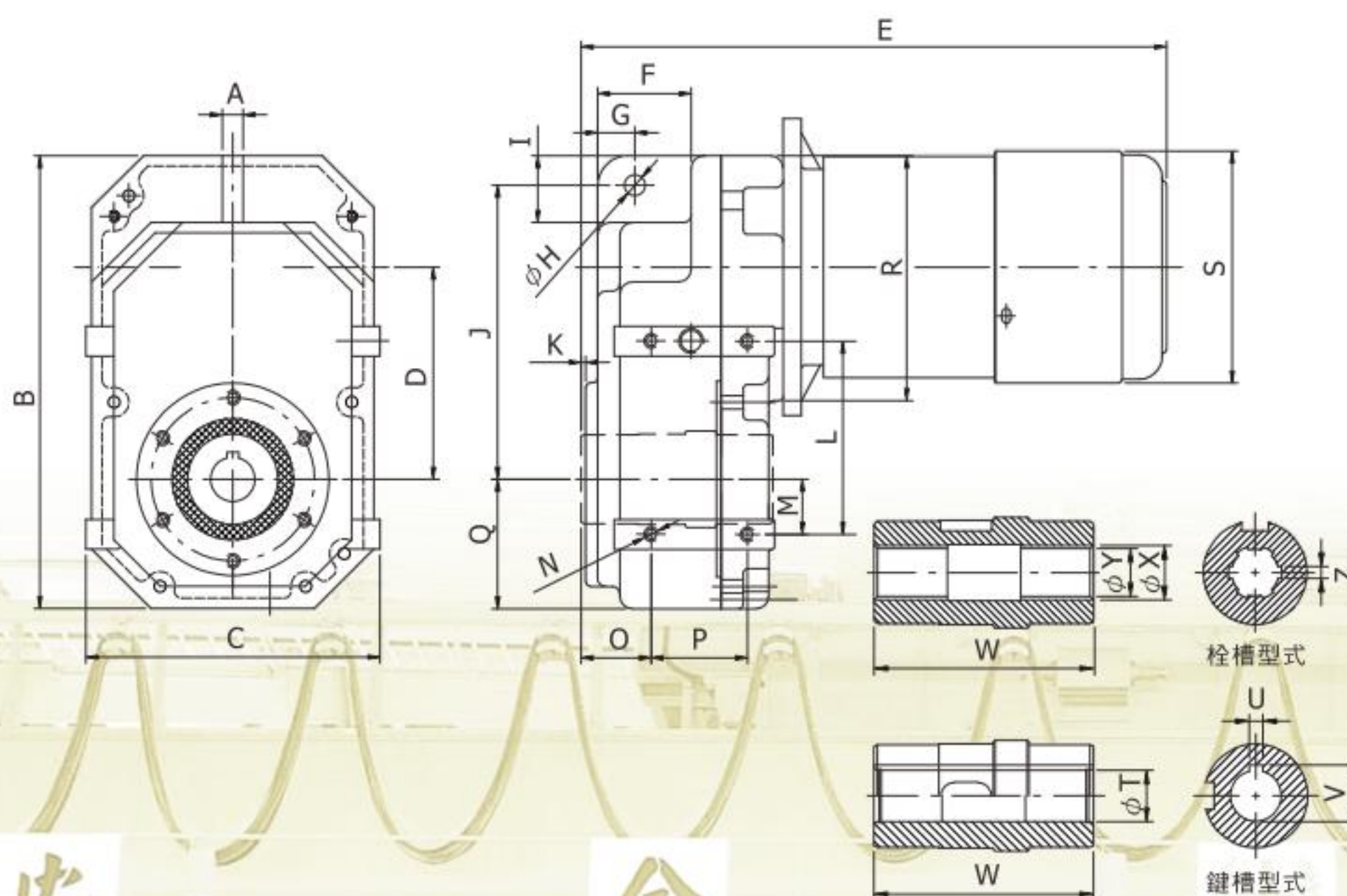
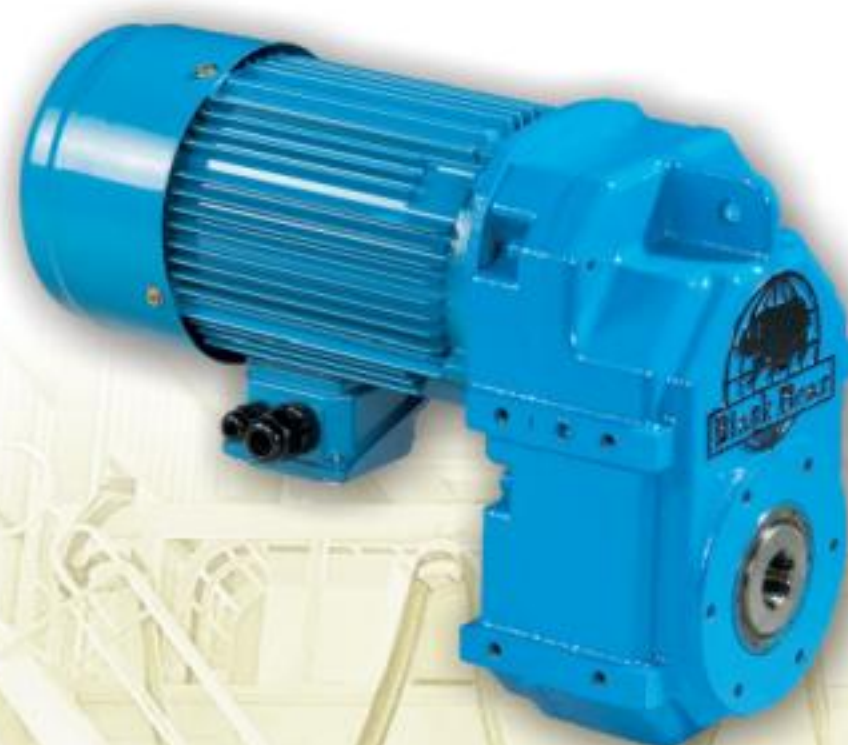
- 輪組傳動單元系統為精密設計，在滿載作動荷重測試下展現低維修的保證。
- 扭力板，連接零件與緩衝器簡易地固定。

■ WHEEL BLOCK

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



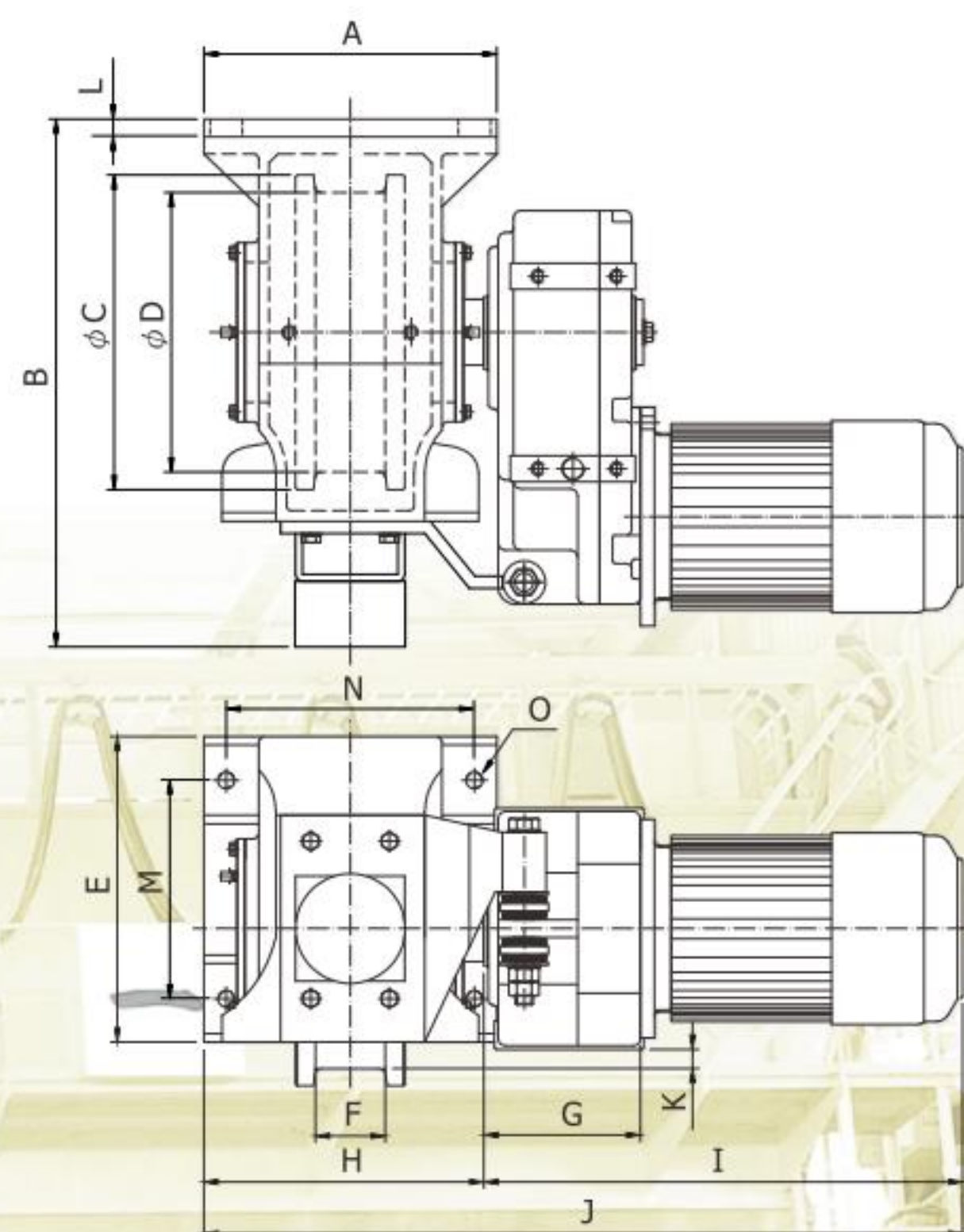
中空軸減速馬達 HOLLOW SHAFT GEAR REDUCER MOTOR



型號 Model	齒箱 Gear box	減速比 Reducing Gear Ratio	馬力 Power (kw)	極數 Pole (P)	概略尺寸 Approximate Dimensions (mm)										
					A	B	C	D	E	F	G	φH	I	J	K
HS2-28-04	HS2	28	0.4	4	14	305	198	142.79	394	63	25	14	45	197.80	3
HS2-36-04		36	0.4	4	14	305	198	142.79	394	63	25	14	45	197.80	3
HS2-14-07		14	0.75	4	14	305	198	142.79	431	63	25	14	45	197.80	3
HS2-18-07		18	0.75	4	14	305	198	142.79	431	63	25	14	45	197.80	3
HS2-22-07		22	0.75	4	14	305	198	142.79	431	63	25	14	45	197.80	3
HS2-31-07		31	0.75	4	14	305	198	142.79	431	63	25	14	45	197.80	3
HS2-45-07	HS3	45	0.75	4	14	305	198	142.79	431	63	25	14	45	197.80	3
HS3-18-15		18	1.5	4	16	355	234	175.84	542	81	27	14	45	228.84	4
HS3-22-15		22	1.5	4	16	355	234	175.84	542	81	27	14	45	228.84	4
HS3-56-15	HS4	56	1.5	4	16	355	234	175.84	542	81	27	14	45	228.84	4
HS4-45-15		45	1.5	6	20	450	276	211	548	91	30	22	62	286	5
HS4-63-15		63	1.5	6	20	450	276	211	548	91	30	22	62	286	5
HS4-28-22		28	2.2	4	20	450	276	211	548	91	30	22	62	286	5
HS4-40-22		40	2.2	4	20	450	276	211	548	91	30	22	62	286	5
HS4-45-22		45	2.2	4	20	450	276	211	548	91	30	22	62	286	5
HS4-63-22	HS5	63	2.2	4	20	450	276	211	548	91	30	22	62	286	5
HS5-80-22		80	2.2	6	24	524	338	265.77	594	111	35	22	60	340.77	5
HS5-90-22		90	2.2	6	24	524	338	265.77	594	111	35	22	60	340.77	5
HS5-36-37		36	3.75	4	24	524	338	265.77	594	111	35	22	60	340.77	5
HS5-45-37		45	3.75	4	24	524	338	265.77	594	111	35	22	60	340.77	5
HS5-80-37		80	3.75	4	24	524	338	265.77	594	111	35	22	60	340.77	5
HS5-90-37		90	3.75	4	24	524	338	265.77	594	111	35	22	60	340.77	5
HS5-56-37		56	3.75	4	24	524	338	265.77	594	111	35	22	60	340.77	5

型號 Model	概略尺寸 Approximate Dimensions (mm)															
	L	M	N	O	P	Q	R	S	φT	U	V	W	φX	φY	Z	槽數 Spine
HS2-28-04	130	37.21	M10*1.5	47	65	87.21	165	156	30	8	33.3	129	32	28	7	6
HS2-36-04	130	37.21	M10*1.5	47	65	87.21	165	156	30	8	33.3	129	32	28	7	6
HS2-14-07	130	37.21	M10*1.5	47	65	87.21	165	175	30	8	33.3	129	32	28	7	6
HS2-18-07	130	37.21	M10*1.5	47	65	87.21	165	175	30	8	33.3	129	32	28	7	6
HS2-22-07	130	37.21	M10*1.5	47	65	87.21	165	175	30	8	33.3	129	32	28	7	6
HS2-31-07	130	37.21	M10*1.5	47	65	87.21	165	175	30	8	33.3	129	32	28	7	6
HS2-45-07	130	37.21	M10*1.5	47	65	87.21	165	175	30	8	33.3	129	32	28	7	6
HS3-18-15	160	41.66	M12*1.75	52	80	104.16	175	196	40	12	43.3	150	40	36	7	8
HS3-22-15	160	41.66	M12*1.75	52	80	104.16	175	196	40	12	43.3	150	40	36	7	8
HS3-56-15	160	41.66	M12*1.75	52	80	104.16	175	196	40	12	43.3	150	40	36	7	8
HS4-45-15	220	64	M16*2.0	62	90	139	225	219	60	18	64.4	174	62	56	10	8
HS4-63-15	220	64	M16*2.0	62	90	139	225	219	60	18	64.4	174	62	56	10	8
HS4-28-22	220	64	M16*2.0	62	90	139	225	219	60	18	64.4	174	62	56	10	8
HS4-40-22	220	64	M16*2.0	62	90	139	225	219	60	18	64.4	174	62	56	10	8
HS4-45-22	220	64	M16*2.0	62	90	139	225	219	60	18	64.4	174	62	56	10	8
HS4-63-22	220	64	M16*2.0	62	90	139	225	219	60	18	64.4	174	62	56	10	8
HS5-80-22	260	73	M16*2.0	60	110	158.23	225	219	70	20	75.4	194	72	62	12	8
HS5-90-22	260	73	M16*2.0	60	110	158.23	225	219	70	20	75.4	194	72	62	12	8
HS5-36-37	260	73	M16*2.0	60	110	158.23	225	219	70	20	75.4	194	72	62	12	8
HS5-45-37	260	73	M16*2.0	60	110	158.23	225	219	70	20	75.4	194	72	62	12	8
HS5-80-37	260	73	M16*2.0	60	110	158.23	225	219	70	20	75.4	194	72	62	12	8
HS5-90-37	260	73	M16*2.0	60	110	158.23	225	219	70	20	75.4	194	72	62	12	8
HS5-56-37	260	73	M16*2.0	60	110	158.23	225	219	70	20	75.4	194	72	62	12	8

車輪組傳動裝置 HOLLOW SHAFT DRIVE WHEEL BLOCK

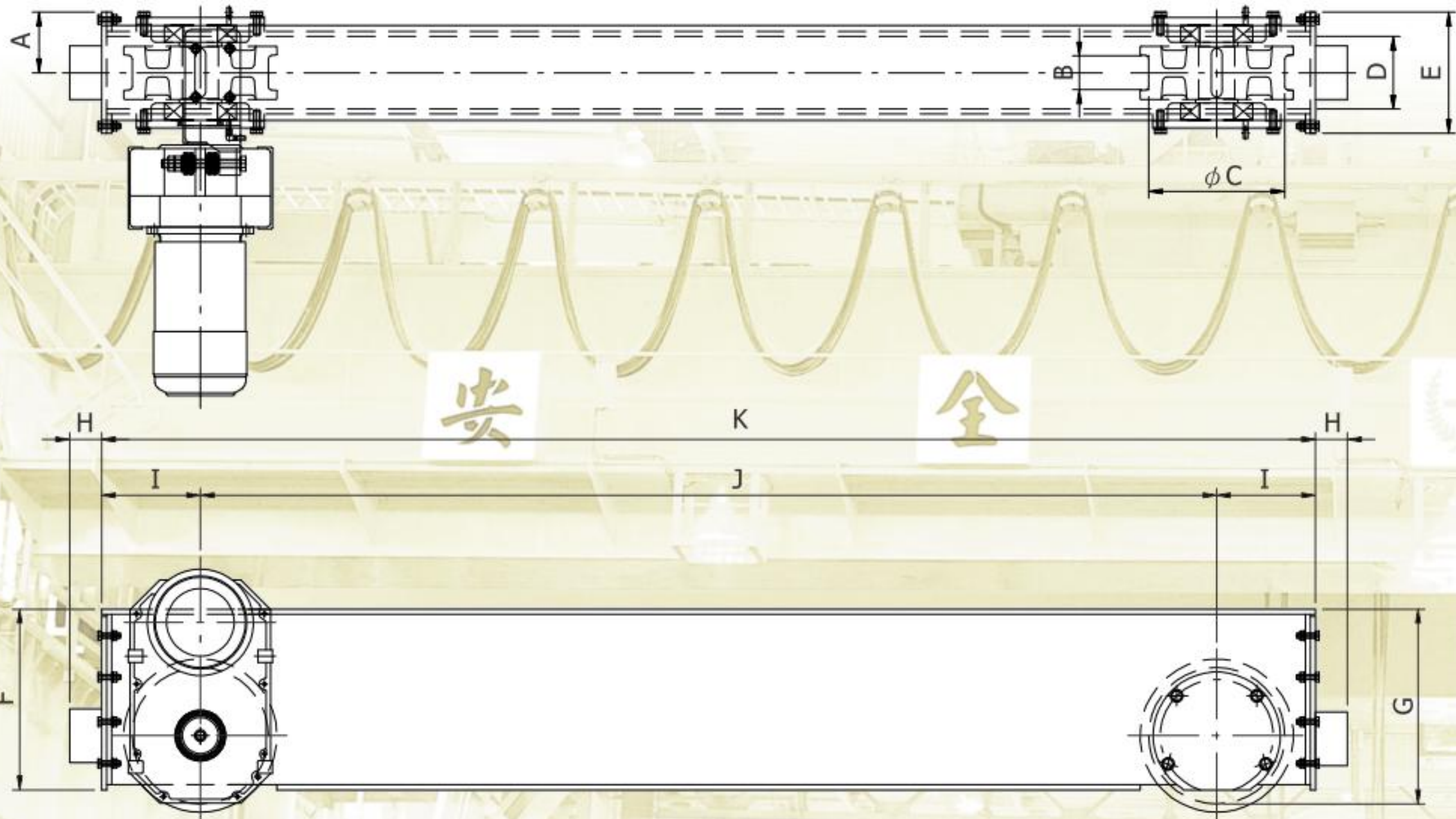


型號說明：
Product Code :

WH	-	2	-	12	-	24	-	04	-	D
車輪頭組 Wheel Head		齒箱編號 Gear box 2=HS2 3=HS3 4=HS4 5=HS5 0=none		輪徑 Wheel Dia. B		速度 Speed		馬力 Power 04=0.4kw 07=0.75kw 15=1.5kw 22=2.2kw 37=3.75kw 0=none		D=傳動輪 Driver I=隨動輪 Idle

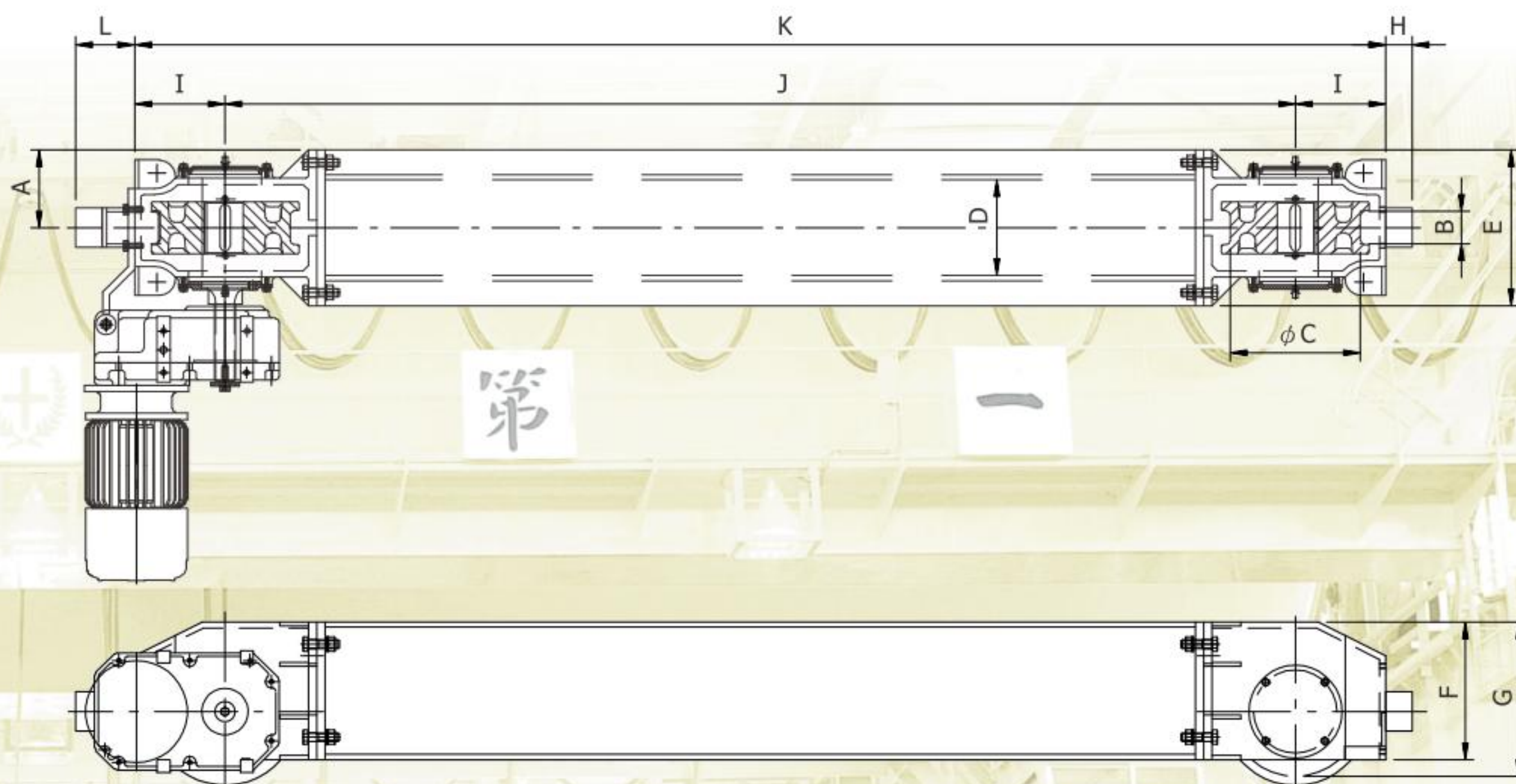
型 號 Model	齒 箱 Gear box	輪 徑	速 度	馬 力	減速比	極 數	概略尺寸 Approximate Dimensions (mm)														
		Wheel Dia.B (mm)	Speed (m/min)	Power (kw)	Reducing Gear Ratio	Pole (P)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
WH-2-12-24-04-D	HS2	125	24	0.4	1/28	4	206	371	150	125	155	44	136	198	394	592	36.5	16	88	166	M14x2.0
WH-2-12-36-07-D		125	36	0.75	1/18	4	206	371	150	125	155	44	136	198	427	625	36.5	16	88	166	M14x2.0
WH-2-12-48-07-D		125	48	0.75	1/14	4	206	371	150	125	155	44	136	198	427	625	36.5	16	88	166	M14x2.0
WH-2-16-24-04-D		160	24	0.4	1/36	4	226	395	190	160	188	50	136	220	394	614	19	16	121	186	M14x2.0
WH-2-16-36-07-D		160	36	0.75	1/22	4	226	395	190	160	188	50	136	220	427	647	19	16	121	186	M14x2.0
WH-2-20-24-07-D		200	24	0.75	1/45	4	250	419	235	200	225	60	136	252	427	679	1	16	158	210	M14x2.0
WH-2-20-36-07-D		200	36	0.75	1/31	4	250	419	235	200	225	60	136	252	427	679	1	16	158	210	M14x2.0
WH-3-16-48-15-D	HS3	160	48	1.5	1/18	4	226	430	190	160	188	50	156	218	542	760	37	16	121	186	M14x2.0
WH-3-20-48-15-D		200	48	1.5	1/22	4	250	454	235	200	225	60	156	247	542	789	17	16	158	210	M14x2.0
WH-3-25-24-15-D		250	24	1.5	1/56	4	300	479	284	250	265	80	156	297	542	839	8	16	179	250	M16x2.0
WH-4-25-36-22-D	HS4	250	36	2.2	1/40	4	300	539	284	250	265	80	179	290	548	838	13	16	179	250	M16x2.0
WH-4-25-48-22-D		250	48	2.2	1/28	4	300	539	284	250	265	80	179	290	548	838	13	16	179	250	M16x2.0
WH-4-32-24-15-D		320	24	1.5	1/45	6	335	604	360	320	350	80	179	320.5	548	868.5	22	20	250	284	M20x2.5
WH-4-32-36-22-D		320	36	2.2	1/45	4	335	604	360	320	350	80	179	320.5	548	868.5	22	20	250	284	M20x2.5
WH-4-40-24-15-D		400	24	1.5	1/63	6	380	671	444	400	420	80	179	365	548	913	62	22	310	320	M20x2.5
WH-4-40-36-22-D		400	36	2.2	1/63	4	380	671	444	400	420	80	179	365	548	913	62	22	310	320	M20x2.5
WH-5-32-48-37-D	HS5	320	48	3.75	1/36	4	335	649	360	320	350	80	199	320.5	594	914.5	9	20	250	284	M20x2.5
WH-5-40-48-37-D		400	48	3.75	1/45	4	380	696	444	400	420	80	199	365	594	959	31	22	310	320	M20x2.5
WH-5-50-24-22-D		500	24	2.2	1/80	6	410	774	546	500	510	80	199	395	594	989	81	25	386	335	M24x3.0
WH-5-50-36-37-D		500	36	3.75	1/80	4	410	774	546	500	510	80	199	395	594	989	81	25	386	335	M24x3.0
WH-5-50-48-37-D		500	48	3.75	1/56	4	410	774	546	500	510	80	199	395	594	989	81	25	386	335	M24x3.0

整體式鞍座 ALL IN ONE DRIVER



型號 Model	輪徑 Wheel Dia.B (mm)	概略尺寸 Approximate Dimensions (mm)											概略重量 (kg/2組)	面積 Area A (cm ²)	單位重量 Weight W (kg/cm)	剖面慣性矩 Moment of Inertia		剖面係數 Section Modulus	
		A	B	C	D	E	F	G	H	I	J	K				Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)	Zy (cm ³)
TPH-12-15	125	90.5	44	125	95	181	146	158.5	51	128	1260	1516	221	43	0.3	1353	910.9	185.3	131.1
TPH-12-20	125	90.5	44	125	95	181	146	158.5	51	128	1760	2016	265	43	0.3	1353	910.9	185.3	131.1
TPH-12-25	125	90.5	44	125	95	181	150	162.5	51	128	2260	2516	309	53.8	0.4	1657.5	1000.4	221	143.9
TPH-16-25	160	99.5	50	160	108	199	196	213	51	128	2260	2516	494	53.1	0.4	2927.8	1287.7	290.1	176.4
TPH-16-30	160	99.5	50	160	108	199	210	225	51	128	2760	3016	502	68.4	0.5	3957.1	1609.6	376.9	211.8
TPH-20-25	200	110	60	200	120	220	240	260	51	155	2210	2520	528	77.6	0.6	6221.1	2652.9	518.4	315.8
TPH-20-30	200	110	60	200	120	220	240	260	51	155	2710	3020	567	77.6	0.6	6221.1	2652.9	518.4	315.8
TPH-20-35	200	110	60	200	120	220	240	260	51	155	3210	3520	606	77.6	0.6	6221.1	2652.9	518.4	315.8
TPH-25-30	250	127	80	250	153	254	320	345	75	202	2620	3024	836	99.4	0.8	13069.1	4387.3	816.8	445.4
TPH-25-35	250	127	80	250	153	254	320	345	75	202	3120	3524	887	99.4	0.8	13069.1	4387.3	816.8	445.4
TPH-25-40	250	127	80	250	153	254	320	345	75	202	3620	4024	937	99.4	0.8	13069.1	4387.3	816.8	445.4
TPH-32-35	320	142	80	320	170	284	424	457	75	232	3060	3524	1145	149.3	1.2	35416.3	10149.5	1670.6	914.4
TPH-32-40	320	142	80	320	170	284	424	457	75	232	3560	4024	1338	149.3	1.2	35416.3	10149.5	1670.6	914.4
TPH-40-40	400	149.5	80	400	194	299	475	515	75	262	3500	4024	1534	139.4	1.1	41866.7	11837.3	1762.8	978.3
TPH-40-45	400	149.5	80	400	194	299	475	515	75	262	4000	4524	1606	139.4	1.1	41866.7	11837.3	1762.8	978.3
TPH-50-45	500	154	80	500	194	308	532	586	75	322	3880	4524	2282	242.6	1.9	79972.9	17324.8	3006.5	1343

車輪頭組式鞍座 WHEEL HEAD TYPE END TRUCK



型號 Model	輪徑 Wheel Dia.B (mm)	概略尺寸 Approximate Dimensions (mm)												概略重量 (kg/2組)	面積 Area A (cm ²)	單位重量 Weight W (kg/cm)	剖面慣性矩 Moment of Inertia		剖面係數 Section Modulus	
		A	B	C	D	E	F	G	H	I	J	K	L				Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)	Zy (cm ³)
WHP-12-15	120	103	44	125	104	206	155	165	51	101	1300	1502	145	241	55.2	0.4	2140.4	1864.2	276.2	181
WHP-12-20	120	103	44	125	104	206	155	165	51	101	1800	2002	145	293	55.2	0.4	2140.4	1864.2	276.2	181
WHP-12-25	120	103	44	125	104	206	155	165	51	101	2300	2502	145	345	55.2	0.4	2140.4	1864.2	276.2	181
WHP-16-25	160	113	50	160	124	226	188	203	51	123	2260	2506	125	460	63.7	0.5	3609.6	2739.3	384	242.4
WHP-16-30	160	113	50	160	124	226	188	203	51	123	2760	3006	125	488	63.7	0.5	3609.6	2739.3	384	242.4
WHP-20-25	200	125	60	200	140	250	225	245	51	146	2210	2502	103	562	91	0.7	7218.1	4913.8	641.6	393.1
WHP-20-30	200	125	60	200	140	250	225	245	51	146	2710	3002	103	606	91	0.7	7218.1	4913.8	641.6	393.1
WHP-20-35	200	125	60	200	140	250	225	245	51	146	3210	3502	103	652	91	0.7	7218.1	4913.8	641.6	393.1
WHP-25-30	250	150	80	250	184	300	265	297.5	51	174	2660	3008	113	875	109	0.9	12209.8	9114.5	921.5	607.6
WHP-25-35	250	150	80	250	184	300	265	297.5	51	174	3160	3508	113	932	109	0.9	12209.8	9114.5	921.5	607.6
WHP-25-40	250	150	80	250	184	300	265	297.5	51	174	3660	4008	113	989	109	0.9	12209.8	9114.5	921.5	607.6
WHP-32-35	320	167.5	80	320	206	335	350	380	75	216	3070	3502	144	1180	158.6	1.2	29901.9	16824.2	1708.7	1004.4
WHP-32-40	320	167.5	80	320	206	335	350	380	75	216	3570	4002	144	1376	158.6	1.2	29901.9	16824.2	1708.7	1004.4
WHP-40-40	400	190	80	400	236	380	420	460	75	258	3500	4016	129	1744	186.2	1.5	50384.6	25599.2	2399.3	1347.3
WHP-40-45	400	190	80	400	236	380	420	460	75	258	4000	4516	129	1841	186.2	1.5	50384.6	25599.2	2399.3	1347.3
WHP-50-45	500	205	80	500	236	410	510	560	75	305	3900	4510	129	2458	284.2	2.2	101914.9	36032	3996.7	1757.7

銷售完整起重系統

COMPLETE CRANE COMPONENT SYSTEM AVAILABLE

黑熊為一國際認證優良起重機製造廠，設計全系列的標準起重系統、客戶訂做特殊用途吊車及所有相關零組件。

Black Bear, an international recognized manufacturer of high quality cranes, designs full range of standard crane systems, customs cranes for special applications and produces all their component kits.

標準產品

- 固定式架空/門型起重機
- 無塵室專用吊車
- 船用吊車
- 電動鏈條吊車
- 電動鋼索吊車
- 滑動/鏈動/電動小車
- 手拉/手搖鏈條吊車
- 各式電源供應系統
- 架空式/懸吊式鞍座
- 中空軸式鞍座/傳動裝置/齒箱/輪組
- 緩衝減速齒輪馬達
- 游星減速齒輪馬達
- 客貨升降機/電梯主機

※依客戶要求訂做特殊品

STANDARD PRODUCTS

- Overhead Cranes/Gantry Crane
- Clean Room Crane
- Marine Room Overhead Crane
- Electric Wire Rope Hoist
- Electric Chain Hoist
- Plain/Geared/Motorized Trolleys
- Hand Chain Block/Lever Hoist
- Multiple Power Supply System Available
- Top Running/Suspension End Trucks
- Hollow Shaft Type End Truck/Drive/
Gear Box/Wheel block
- Soft Start/Stop Reduction Gear Motors
- Planetary Reduction Gear Motors
- Passenger and Cargo Elevators and
Elevator Traction Machine

※Special Options Available on Request.

誠信 踏實 迅速



台灣 Black Bear 製造廠



越南廣聯工廠



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