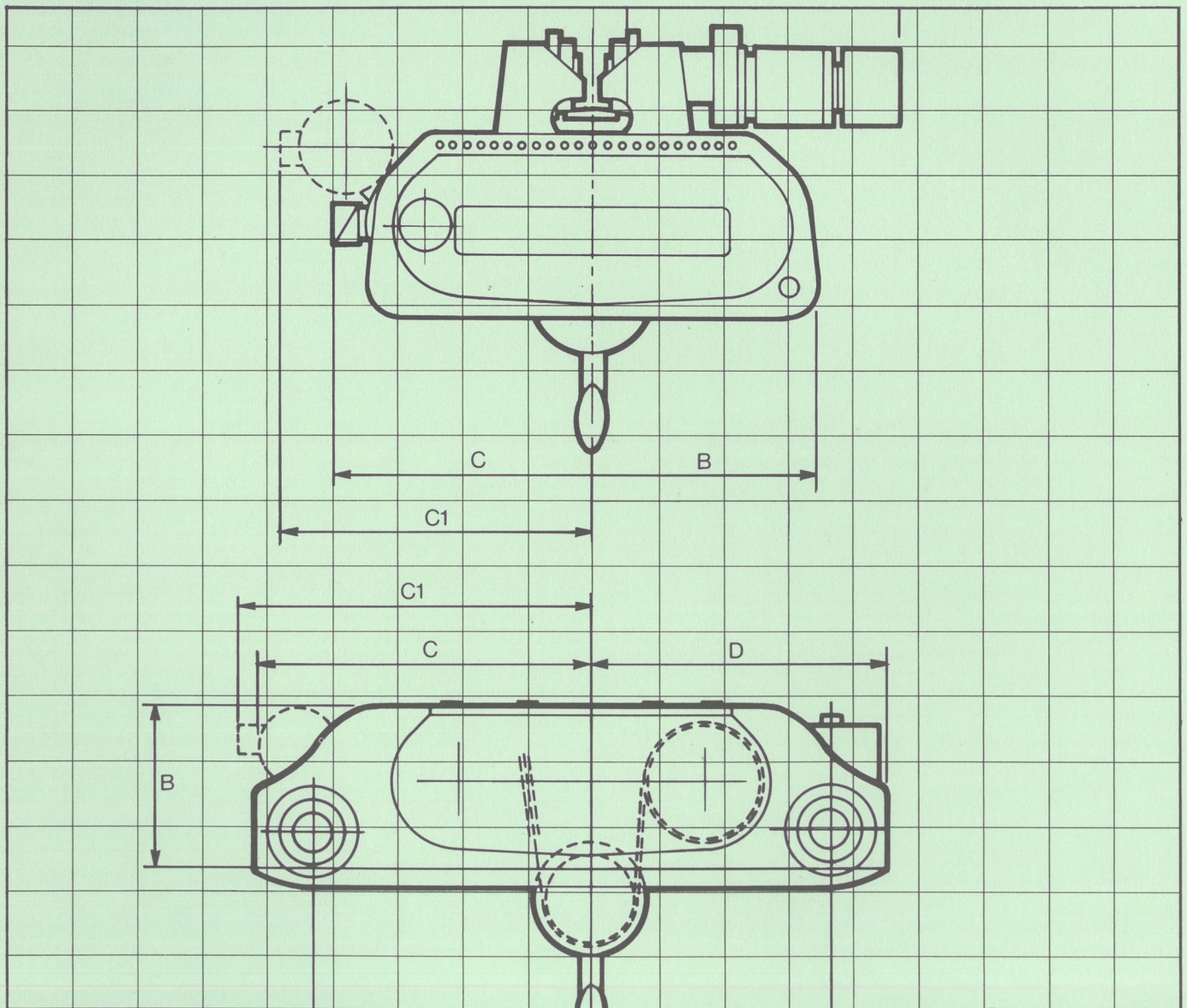


MATTERSON SPACEFINDERS

Hoists and Crabs dimensions and data



Spacefinder Hoists

Capacity	Model JS	Height Lift Metres	Lifting Speed M.P.M.	Hoist Motor kW.	Optional Speed		Creep Motor kW.	Headroom A		Other leading dimensions with hook in top position							Runway Sizes			Weight	
					Slow M.P.M.	Creep M.P.M.		Trol. mm.	Bolt mm.	B mm.	C mm.	C1 mm.	D mm.	E mm.	F mm.	G mm.	Min. Depth mm.	Flange width		Trol kg.	Bolt kg.
																		Min	Max		
1 TONNE	3B1D0	7.9	6.0	3.7	2.0	1.2	1.5	508	535	413	489	597	559	610	640	559	250	130	400	500	362
	3B1D2	7.9	9.0	3.7	3.0	1.8	1.5	508	535	413	489	597	559	610	640	559	250	130	400	500	362
	3B1D4	7.9	15.2	3.7	5.0	3.0	1.5	508	535	413	489	597	559	610	640	559	250	130	400	500	362
	5B1D4	14.0	15.2	3.7	5.0	3.0	1.5	584	610	502	578	699	673	711	640	559	250	130	460	816	680
	3B1C4	18.0	15.2	3.7	5.0	3.0	1.5	635	650	413	489	597	356	813	640	559	250	150	400	500	362
	7B1D8	22.8	15.2	3.7	5.0	3.0	1.5	762	787	667	667	730	775	762	680	711	300	150	600	1452	1270
	5B1C4	31.4	15.2	3.7	5.0	3.0	1.5	685	710	502	578	699	394	991	640	559	250	130	460	816	680
	7B1D9	32.6	15.2	3.7	5.0	3.0	1.5	762	787	667	667	730	927	914	680	711	300	150	600	1542	1360
	7B1X8	47.2	15.2	3.7	5.0	3.0	1.5	762	787	667	667	730	1156	1143	680	711	300	150	600	1678	1496
	7B1C8	49.0	15.2	3.7	5.0	3.0	1.5	864	889	667	667	730	470	1067	680	711	300	150	600	1452	1270
	7B1X9	62.0	15.2	3.7	5.0	3.0	1.5	762	787	667	667	730	1384	1372	680	711	300	150	600	1814	1633
	7B1C9	69.0	15.2	3.7	5.0	3.0	1.5	864	889	667	667	730	470	1372	680	711	300	150	600	1542	1360
	7B1W8	99.0	15.2	3.7	5.0	3.0	1.5	864	889	667	667	730	470	1830	680	711	300	150	600	1678	1496
	7B1W9	129.0	15.2	3.7	5.0	3.0	1.5	864	889	667	667	730	470	2286	680	711	300	150	600	1814	1633
2 TONNE	3B2D0	7.9	6.0	3.7	2.0	1.2	1.5	508	533	413	489	597	559	610	640	559	250	130	400	500	362
	3B2D2	7.9	9.0	3.7	3.0	1.8	1.5	508	533	413	489	597	559	610	640	559	250	130	400	500	362
	3B2D4	7.9	15.2	6.3	—	3.0	1.5	508	533	413	489	597	559	610	640	559	250	130	400	500	362
	3B2C2	14.0	9.0	3.7	3.0	1.8	1.5	635	650	413	489	597	356	813	640	559	250	130	400	500	362
	3B2C4	14.0	15.2	6.3	—	3.0	1.5	635	650	413	489	597	356	813	640	559	250	130	400	500	362
	5B2D2	14.0	9.0	3.7	3.0	1.8	1.5	584	610	502	578	699	673	711	640	559	250	130	460	816	680
	5B2D4	14.0	15.2	6.3	5.0	3.0	1.5	584	610	502	578	699	673	711	640	559	250	130	460	816	680
	7B2D8	22.8	15.2	6.3	5.0	3.0	1.5	762	787	667	667	730	775	762	680	711	300	150	600	1452	1270
	5B2C2	24.7	9.0	3.7	3.0	1.8	1.5	685	710	502	578	699	394	991	640	559	250	130	460	816	680
	5B2C4	24.7	15.2	6.3	5.0	3.0	1.5	685	710	502	578	699	394	991	640	559	250	130	460	816	680
	7B2D9	32.6	15.2	6.3	5.0	3.0	1.5	762	787	667	667	730	927	914	680	711	300	150	600	1542	1360
	7B2C8	38.4	15.2	6.3	5.0	3.0	1.5	864	889	667	667	730	470	1067	680	711	300	150	600	1452	1270
	7B2X8	47.2	15.2	6.3	5.0	3.0	1.5	762	787	667	667	730	1156	1143	680	711	300	150	600	1678	1496
	7B2C9	54.6	15.2	6.3	5.0	3.0	1.5	864	889	667	667	730	470	1372	680	711	300	150	600	1542	1360
7B2X9	62.2	15.2	6.3	5.0	3.0	1.5	762	787	667	667	730	1384	1372	680	711	300	150	600	1814	1633	
7B2W8	78.6	15.2	6.3	5.0	3.0	1.5	864	889	667	667	730	470	1830	680	711	300	150	600	1678	1496	
7B2W9	103.0	15.2	6.3	5.0	3.0	1.5	864	889	667	667	730	470	2286	680	711	300	150	600	1814	1633	
3 TONNE	3B3D0	7.3	6.0	3.7	2.0	1.2	1.5	559	584	413	489	597	559	610	640	559	250	130	400	500	362
	3B3D2	7.3	9.0	6.3	—	1.8	1.5	559	584	413	489	597	559	610	640	559	250	130	400	500	362
	5B3D2	13.4	9.0	6.3	3.0	1.8	1.5	635	660	502	578	699	673	711	640	559	250	130	460	816	680
	5B3D4	13.4	15.2	9.3	—	3.0	2.2	635	660	502	635	775	673	711	640	559	250	130	460	861	726
	5B3C2	19.5	9.0	6.3	3.0	1.8	1.5	787	812	502	578	699	394	991	640	559	250	130	460	816	680
	5B3C4	19.5	15.2	9.3	—	3.0	2.2	787	812	502	635	775	394	991	640	559	250	130	460	861	726
	7B3D4	21.3	8.5	6.3	2.8	1.8	1.5	762	787	667	667	730	775	762	680	711	300	150	600	1452	1270
	7B3D8	21.3	15.2	9.3	5.0	3.0	2.2	762	787	667	724	864	775	762	680	711	300	150	600	1497	1315
	7B3D5	31.0	8.5	6.3	2.8	1.8	1.5	762	787	667	667	730	927	914	680	711	300	150	600	1451	1270
	7B3D9	31.0	15.2	9.3	5.0	3.0	2.2	762	787	667	718	864	927	914	680	711	300	150	600	1497	1315
	7B3C4	31.4	8.5	6.3	2.8	1.8	1.5	864	889	667	667	730	470	1067	680	711	300	150	600	1451	1270
	7B3C8	31.4	15.2	9.3	5.0	3.0	2.2	864	889	667	724	864	470	1067	680	711	300	150	600	1497	1315
	7B3C5	43.6	8.5	6.3	2.8	1.8	1.5	864	889	667	667	730	470	1372	680	711	300	150	600	1497	1361
	7B3C9	43.6	15.2	9.3	5.0	3.0	2.2	864	889	667	724	864	470	1372	680	711	300	150	600	1497	1361
7B3X4	45.1	8.5	6.3	2.8	1.8	1.5	762	787	667	667	730	1156	1143	680	711	300	150	600	1452	1361	
7B3X8	45.1	15.2	9.3	5.0	3.0	2.2	762	787	667	724	864	1156	1143	680	711	300	150	600	1724	1542	
7B3X5	59.4	8.5	6.3	2.8	1.8	1.5	762	787	667	667	730	1384	1372	680	711	300	150	600	1814	1633	
7B3X9	59.4	15.2	9.3	5.0	3.0	2.2	762	787	667	724	864	1384	1372	680	711	300	150	600	1860	1678	
7B3W4	62.5	8.5	6.3	2.8	1.8	1.5	864	889	667	667	730	470	1830	680	711	300	150	600	1678	1496	
7B3W8	62.5	15.2	9.3	5.0	3.0	2.2	864	889	667	724	864	470	1830	680	711	300	150	600	1724	1542	
7B3W5	82.3	8.5	6.3	2.8	1.8	1.5	864	889	667	667	730	470	2286	680	711	300	150	600	1814	1633	
7B3W9	82.3	15.2	9.3	5.0	3.0	2.2	864	889	667	724	864	470	2286	680	711	300	150	600	1860	1678	
5 TONNE	3B5G0	6.4	3.0	3.7	—	0.6	1.5	686	711	425	476	584	394	775	640	559	250	130	375	545	408
	3B5G2	6.4	4.5	6.3	—	0.9	1.5	686	711	425	476	584	394	775	640	559	250	130	375	545	408
	5B5D0	9.7	6.0	6.3	2.0	1.2	1.5	686	711	502	578	699	673	711	640	559	250	130	460	816	680
	5B5D2	9.7	9.0	9.3	—	1.8	2.2	686	711	502	635	775	673	711	640	559	250	130	460	861	726
	7B5D2	15.5	6.0	6.3	2.0	1.2	1.5	762	762	667	667	730	775	762	680	711	300	150	600	1452	1270
	7B5D4	15.5	8.5	9.3	2.8	1.8	2.2	762	762	667	667	724	864	775	762	680	711	300	150	600</	

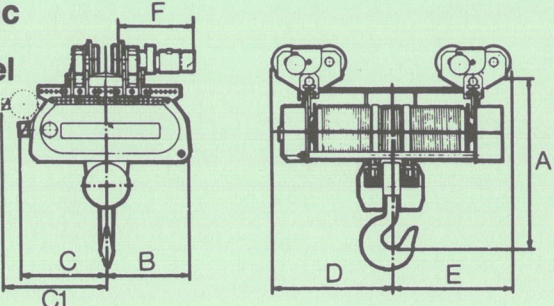
Capacity	Model JS	Height Lift Metres	Lifting Speed M.P.M.	Hoist Motor kW.	Optional Speed		Creep Motor kW.	Headroom A		Other leading dimensions with hook in top position								Runway Sizes			Weight	
					Slow M.P.M.	Creep M.P.M.		Trol. mm.	Bolt mm.	B mm.	C mm.	C1 mm.	D mm.	E mm.	F mm.	G mm.	Min. Depth mm.	Flange width		Trol kg.	Bolt kg.	
																		Max mm.				
12 TONNE	9B2J2	4.8	3.0	9.3	0.9	0.61	2.2	1448	1448	667	724	864	826	826	680	—	300	165	610	2132	1950	
	9B2J4	4.8	4.3	13.5	—	0.9	3.0	1448	1448	667	724	864	826	826	680	—	300	165	610	2132	1950	
	9B2J3	8.1	3.0	9.3	0.9	0.61	2.2	1448	1448	667	724	864	978	978	680	—	300	165	610	2268	2177	
	9B2J5	8.1	4.3	13.5	—	0.9	3.0	1448	1448	667	724	864	978	978	680	—	300	165	610	2268	2177	
	9B2Z2	12.9	3.0	9.3	0.9	0.61	2.2	1448	1448	667	724	864	1207	1207	680	—	300	165	610	2585	2404	
	9B2Z4	12.9	4.3	13.5	—	0.9	3.0	1448	1448	667	724	864	1207	1207	680	—	300	165	610	2585	2404	
	9B2Z3	17.8	3.0	9.3	0.9	0.61	2.2	1448	1448	667	724	864	1435	1435	680	—	300	165	610	2812	2631	
	9B2Z5	17.8	4.3	13.5	—	0.9	3.0	1448	1448	667	724	864	1435	1435	680	—	300	165	610	2812	2631	
15 TONNE	9B5J0	4.4	2.3	9.3	0.76	0.45	2.2	1498	1498	667	724	864	826	826	680	—	300	165	610	2132	1950	
	9B5J2	4.4	3.0	9.3	0.9	0.6	2.2	1498	1498	667	724	864	826	826	680	—	300	165	610	2132	1950	
	9B5J4	4.4	4.3	13.5	—	0.9	3.0	1498	1498	667	724	864	826	826	680	—	300	165	610	2132	1950	
	9B5J1	7.3	2.3	9.3	0.76	0.45	2.2	1498	1498	667	724	864	978	978	680	—	300	165	610	2268	2177	
	9B5J3	7.3	3.0	9.3	0.9	0.6	2.2	1498	1498	667	724	864	978	978	680	—	300	165	610	2268	2177	
	9B5J5	7.3	4.3	13.5	—	0.9	3.0	1498	1498	667	724	864	978	978	680	—	300	165	610	2268	2177	
	9B5Z0	11.8	2.3	9.3	0.76	0.45	2.2	1498	1498	667	724	864	1207	1207	680	—	300	165	610	2585	2404	
	9B5Z2	11.8	3.0	9.3	0.9	0.6	2.2	1498	1498	667	724	864	1207	1207	680	—	300	165	610	2585	2404	
	9B5Z4	11.8	4.3	13.5	—	0.9	3.0	1498	1498	667	724	864	1207	1207	680	—	300	165	610	2585	2404	
	9B5Z1	16.2	2.3	9.3	0.76	0.45	2.2	1498	1498	667	724	864	1435	1435	680	—	300	165	610	2812	2631	
	9B5Z3	16.2	3.0	9.3	0.9	0.61	2.2	1498	1498	667	724	864	1435	1435	680	—	300	165	610	2812	2631	
	9B5Z5	16.2	4.3	13.5	—	0.9	3.0	1498	1498	667	724	864	1435	1435	680	—	300	165	610	2812	2631	
20 TONNE	9B0J0	4.0	2.3	9.3	0.76	0.45	2.2	1524	1524	667	724	864	826	826	680	—	300	165	610	2132	1950	
	9B0J2	4.0	3.0	13.5	—	0.61	3.0	1524	1524	667	724	864	826	826	680	—	300	165	610	2132	1950	
	9B0J0	6.7	2.3	9.3	0.76	0.45	2.2	1524	1524	667	724	864	978	978	680	—	300	165	610	2268	2177	
	9B0J3	6.7	3.0	13.5	—	0.61	3.0	1524	1524	667	724	864	978	978	680	—	300	165	610	2268	2177	
	9B0Z0	10.7	2.3	9.3	0.76	0.45	2.2	1524	1524	667	724	864	1207	1207	680	—	300	165	610	2585	2404	
	9B0Z2	10.7	3.0	13.5	—	0.61	3.0	1524	1524	667	724	864	1207	1207	680	—	300	165	610	2585	2404	
	9B0Z1	14.6	2.3	9.3	0.76	0.45	2.2	1524	1524	667	724	864	1435	1435	680	—	300	165	610	2812	2631	
	9B0Z3	14.6	3.0	13.5	—	0.61	3.0	1524	1524	667	724	864	1435	1435	680	—	300	165	610	2812	2631	

ALL DIMENSIONS SUBJECT TO ALTERATION WITHOUT NOTICE

METHOD OF DESIGNATION /EXAMPLE

J	S	3	B	1	D	2	5
RANGE	UNIT	MODEL SIZE	CODE	CAPACITY	ROPE REEVING	BARREL SPEED	SUSPENSION
	S. Hoist K. Crab		A – American B – British		C = 2/1 D = 4/2 G = 4/1 J = 8/2 W = 2/1 X = 4/2 Z = 8/2		1 Bolt 2 Footmount 3 Push travel 4 Hand geared 5 Electric travel

Electric Travel 8 wheel



Hoist/Crab Unit

FRAME All steel, welded and bolted. The main hoist gearcase forms an integral part of one side plate rigidly aligned with the opposite side plate through substantial transverse members which also form the main hoist mounting platform.

Gearcase incorporates multi-stage horizontal gear reductions of unitary construction, with access from removable top cover. Totally enclosed gearcase fitted with oil level indicator window, oil filler and breather and magnetic drain plug.

HOIST GEARING Heat treated alloy steel spur gear train with gears to BS 436, revolve on ball or roller bearings. Intermediate gears supported on precision ground fixed steel axles with keep plates and shaft end covers, input pinion keyed and pinned direct on hoist motor drive shaft or solid with input shaft, final gear keyed and clamped direct to rope drum shaft, complete with necessary oil seals. Gears and bearings oil bath/splash lubricated.

ROPE DRUM Steel drum revolves on ball and roller bearings accurately located in hoist end frames and machine grooved in accordance with BS 466, accommodating the whole working length of rope in one layer with a minimum of 2 'dead' turns and provision for rope stretch. Flanges provided at both ends to ensure safe operation without rope guides. Rope anchorages positive and easily accessible.

HOOK BLOCK Drop forged higher tensile steel safety hook to BS 2903/1980 with spring loaded safety catch suspended through ball thrust bearing and carried in a steel block with guarded sheaves to BS 466 revolving on ball bearings. Hook proof loaded in compliance with BS 2903/1980. Safe working load indicator plate provided.

WIRE ROPE Flexible steel wire metric rope to BS 302 1968 6/36 construction 180 kg/mm² minimum breaking load and minimum safety factor of 6. Rope terminates with swaged bobbin end(s) for positive attachment to barrel and/or spliced thimble for attachment to top sheave beam in the case of 4/1 rope reeve arrangements.

TOP SHEAVE BEAM Fabricated steel top sheave beam, pivot located at each end on inside of end frames, carrying cast iron rope sheave(s) supported on plain steel pin for 'dead' sheave, or revolving on sealed ball bearing if 'live' sheave(s). For 4/1 rope reeve arrangement, rope end with spliced thimble located on steel anchor pin. The beam incorporates rope guard(s) preventing rope leaving sheave groove.

TROLLEY GEAR Fabricated steel trolley wheel carriers rigidly bolted to series of holes in hoist end frames, providing adjustment to suit width of crane beam. Fine adjustment obtainable by disposition of washers on wheel axles. Single flanged runner wheels fitted with sealed ball bearings, carried on steel axles secured in trolley frame by bolted keep plates. Two wheels machined with integral gearing on flange, two wheels plain. Trolley wheels machined from dropped forged steel En9 or spheroidal graphite C.I. BS 2789 SNG 37/2.

HOIST TRAVEL DRIVES Flange mounted cast aluminium gearbox with straight cut spur reduction gears, incorporating adjustable friction clutch for gradual acceleration and overload protection at end stops. Projecting steel spur pinion engages with both geared flange runners in trolley, driven from flange mounted squirrel cage high torque motor with brake at non-drive end.

CRAB TRAVEL DRIVES Four double flanged spheroidal graphite wheels solidly mounted on robust axles revolving on ball bearings in self-aligning grease retaining housings located in accurately machined holes in the crab frame.

One pair of runners driven by 'live' axle from a totally enclosed cast iron gearbox containing a double reduction of alloy steel spur gears to BS 436. Input pinion shaft coupled to foot mounted drive motor by a readily adjustable friction clutch. Gearbox grease filled with sealed life of 3 years.

BEARINGS Proprietary ball, roller or needle roller bearings are used throughout. All bearings are enclosed or adequately protected to prevent the ingress of foreign matter.

LUBRICATION All bearings, axles and shafts requiring grease lubrication fitted with grease nipples to BS 1486 Part 1, 1959.

Main Drives

MOTOR Squirrel cage high torque motors to BS.3979, BS.5000 and relevant parts of BS.4999, class 'F' insulated, having shaft extension at non-drive end for flange mounted brakes.

Powers are conservatively matched to loads and speeds on basis of S4 duty, 40% rating.

BRAKES Electro-mechanical single phase A.C. disc brakes, flange mounted at non-drive end of motors.

Hoist brake is self adjusting, having a minimum capacity of 150% motor running torque.

Travel brakes easily adjustable for wear or torque settings.

Electrical

LIMIT SWITCH Overwinding totally enclosed shunt type self re-setting limit switch, operated by movement of hook block or rotation of barrel. Switch self re-setting.

FIXED WIRING Fixed wiring carried out in 300/500 volt grade PVC/PVC cables, terminating in rigid glands.

All cables fitted with ferrule markers, corresponding with markings on wiring diagram.

CONTACTOR GEAR Hoist and traverse contactor control gear protected by self coloured glass fibre laminated enclosure located on unit end frame and including triple pole reversing contactors with mechanical and electrical interlocks and 110 volt operating coils for each motor, one set of 3 HRC fuses, for creep hoist motor (if fitted) and traverse motor circuits, 415/110 volt transformer with primary fuses and secondary fuse and link for low voltage control circuits, incoming and outgoing terminals.

PENDANT CONTROL STATION Multi gang pendant control station incorporates press-to-run buttons for each direction of motion with direction legends. Pendant fed by multi-core EPR/CSP cable, with weight taken by a nylon covered steel strainer wire.

Fittings and Finish

FITTINGS 'Matterson' nameplate and serial number plate mounted on side of unit end frame. Safe working load indicator plate fitted in hook block.

GUARDING All gear wheels, pinions and rotating parts not enclosed in gearcases and not deemed safe by their position fitted with effective guards.

PAINTING Unmachined outer surfaces of steelwork and fabrications thoroughly cleaned of all rust, mill scale and grease by scraping, wire brushing and cleaning with white spirit before receiving:

Priming Coat – Red Oxide Universal Primer ref. 127/15.

Undercoat – Off-white semi-gloss undercoat, ref. 146/0093.

Finishing Coat – Barford Orange full gloss enamel, ref. 180/1120.

Internal surfaces of gearboxes thoroughly fettled and cleaned before receiving one coat of white semi-gloss Crankcase Sealer Machinery Enamel ref. 122/607 brush applied.

Machined outer surfaces of crane and hoist treated with one coat of Shell Ensic protective coating laquer before despatch.

SUNDRY ITEMS AND FIXINGS All bolts and associated units above 6mm diameter of hexagon head type, selected from metric precision range BS 3692 grade 8.8 and also from UNC precision range – BS 1768 grade 'R' and 'S'. All bolts fitted with high tensile spring washers.

Screw sizes below 6mm diameter, selected from B.A. range BS 57. Bolts fitted with high tensile spring washers.

TESTING Before despatch units are subjected to load and overload tests as required by BS 466 and statutory test certificates issued.

Spacefinder Crabs

Electric Travel 15–20–30 M.P.M. Rail size 50mm x 38mm high

Capacity	Model JK	Height Lift Metres	Lifting Speed M.P.M.	Hoist Motor kW.	Optional Speed		Creep Motor kW.	Head-room A mm.	Other leading dimensions								Nett Weight kg.
					Slow M.P.M.	Creep M.P.M.			B mm.	C1 mm.	C mm.	D mm.	E mm.	F mm.	G mm.	H mm.	
1 TONNE	3B1D0	7.9	6.0	3.7	2.0	1.2	1.5	152	381	686	635	648	559	508	914	1041	590
	3B1D2	7.9	9.0	3.7	3.0	1.8	1.5	152	381	686	635	648	559	508	914	1041	590
	3B1D4	7.9	15.2	3.7	5.0	3.0	1.5	152	381	686	635	648	559	508	914	1041	590
	5B1D4	14.0	15.2	3.7	5.0	3.0	1.5	127	419	737	724	750	673	662	1143	1219	907
	7B1D8	22.8	15.2	3.7	5.0	3.0	1.5	203	508	940	940	953	762	673	1219	1575	1678
	7B1D9	32.6	15.2	3.7	5.0	3.0	1.5	203	508	940	940	953	914	826	1524	1575	1860
	7B1X8	47.2	15.2	3.7	5.0	3.0	1.5	203	508	940	940	953	1143	1054	1981	1575	2222
	7B1X9	62.0	15.2	3.7	5.0	3.0	1.5	203	508	940	940	953	1372	1283	2438	1575	2359
2 TONNE	3B2D0	7.9	6.0	3.7	2.0	1.2	1.5	152	381	686	635	648	559	508	914	1041	544
	3B2D2	7.9	9.0	3.7	3.0	1.8	1.5	152	381	686	635	648	559	508	914	1041	544
	3B2D4	7.9	15.2	6.3	—	3.0	1.5	152	381	686	635	648	559	508	914	1041	590
	5B2D2	14.0	9.0	3.7	3.0	1.8	1.5	127	419	737	724	750	673	662	1143	1219	907
	5B2D4	14.0	15.2	6.3	5.0	3.0	1.5	127	419	737	724	750	673	662	1143	1219	907
	7B2D8	22.8	15.2	6.3	5.0	3.0	1.5	203	508	940	940	953	762	673	1219	1575	1678
	7B2D9	32.6	15.2	6.3	5.0	3.0	1.5	203	508	940	940	953	914	826	1524	1575	1860
	7B2X8	47.2	15.2	6.3	5.0	3.0	1.5	203	508	940	940	953	1143	1054	1981	1575	2222
	7B2X9	62.2	15.2	6.3	5.0	3.0	1.5	203	508	940	940	953	1372	1283	2438	1575	2359
3 TONNE	3B3D0	7.3	6.0	3.7	2.0	1.2	1.5	203	381	686	635	648	559	508	914	1041	544
	3B3D2	7.3	9.0	6.3	—	1.8	1.5	203	381	686	635	648	559	508	914	1041	590
	5B3D2	13.4	9.0	6.3	3.0	1.8	1.5	178	419	787	724	750	673	662	1143	1219	953
	5B3D4	13.4	15.2	9.3	—	3.0	2.2	178	419	787	724	750	673	662	1143	1219	1043
	7B3D4	21.3	8.5	6.3	2.8	1.8	1.5	203	508	940	940	953	762	673	1219	1575	1678
	7B3D8	21.3	15.2	9.3	5.0	3.0	2.2	203	508	940	940	953	762	673	1219	1575	1769
	7B3D5	31.0	8.5	6.3	2.8	1.8	1.5	203	508	940	940	953	914	826	1524	1575	1814
	7B3D9	31.0	15.2	9.3	5.0	3.0	2.0	203	508	940	940	953	914	826	1524	1575	1905
5 TONNE	7B3X4	45.1	15.2	6.3	5.0	3.0	2.2	203	508	940	940	953	1143	1054	1981	1575	2222
	7B3X8	45.1	15.2	9.3	5.0	3.0	2.2	203	508	940	940	953	1143	1054	1981	1575	2313
	7B3X5	59.4	8.5	6.3	2.8	1.8	1.5	203	508	940	940	953	1372	1283	2438	1575	2359
	7B3X9	59.4	15.2	9.3	5.0	3.0	2.2	203	508	940	940	953	1372	1283	2438	1575	2449
	5B5D0	9.7	6.0	6.3	2.0	1.2	1.5	229	419	787	724	750	673	662	1143	1219	998
	5B5D2	9.7	9.0	9.3	—	1.8	2.2	229	419	787	724	750	673	662	1143	1219	1043
	7B5D2	15.5	6.0	6.3	2.0	1.2	1.5	203	508	940	940	953	762	673	1219	1575	1724
	7B5D4	15.5	8.5	9.3	2.8	1.8	2.2	203	508	940	940	953	762	673	1219	1575	1769
6 TONNE	7B5D6	15.5	12.8	13.5	—	2.4	3.0	203	508	940	940	953	762	673	1219	1575	1769
	7B5D3	23.2	6.0	6.3	2.0	1.2	1.5	203	508	940	940	953	914	826	1524	1575	1905
	7B5D5	23.2	8.5	9.3	2.8	1.8	2.2	203	508	940	940	953	914	826	1524	1575	1950
	7B5D7	23.2	12.8	13.5	—	2.4	3.0	203	508	940	940	953	914	826	1524	1575	1950
	7B5X2	33.5	6.0	6.3	2.0	1.2	1.5	203	508	940	940	953	1143	1054	1981	1575	2222
	7B5X4	33.5	8.5	9.3	2.8	1.8	2.2	203	508	940	940	953	1143	1054	1981	1575	2268
	7B5X6	33.5	12.8	13.5	—	2.4	3.0	203	508	940	940	953	1143	1054	1981	1575	2268
	7B5X3	45.1	6.0	6.3	2.0	1.2	1.5	203	508	940	940	953	1372	1283	2438	1575	2404
7½ TONNE	7B5X5	45.1	8.5	9.3	2.8	1.8	2.2	203	508	940	940	953	1372	1283	2438	1575	2449
	7B5X7	45.1	12.8	13.5	—	2.4	3.0	203	508	940	940	953	1372	1283	2438	1575	2449
	7B6D0	12.5	4.6	6.3	1.5	0.9	1.5	305	508	940	940	953	762	673	1219	1575	1724
	7B6D2	12.5	6.0	9.3	2.0	1.2	2.2	305	508	940	940	953	762	673	1219	1575	1769
	7B6D4	12.5	8.5	13.5	—	1.8	3.0	305	508	940	940	953	762	673	1219	1575	1769
	7B6D1	19.2	4.6	6.3	1.5	0.9	1.5	305	508	940	940	953	914	826	1524	1575	1905
	7B6D3	19.2	6.0	9.3	2.0	1.2	2.2	305	508	940	940	953	914	826	1524	1575	1950
	7B6D5	19.2	8.5	13.5	—	1.8	3.0	305	508	940	940	953	914	826	1524	1575	1950
7½ TONNE	7B6X0	28.7	4.6	6.3	1.5	0.9	1.5	305	508	940	940	953	1143	1054	1981	1575	2268
	7B6X2	28.7	6.0	9.3	2.0	1.2	2.2	305	508	940	940	953	1143	1054	1981	1575	2313
	7B6X4	28.7	8.5	13.5	—	1.8	3.0	305	508	940	940	953	1143	1054	1981	1575	2313
	7B6X1	38.4	4.6	6.3	1.5	0.9	1.5	305	508	940	940	953	1372	1283	2438	1575	2449
	7B6X3	38.4	6.0	9.3	2.0	1.2	2.2	305	508	940	940	953	1372	1283	2438	1575	2494
	7B6X5	38.4	8.5	13.5	—	1.8	3.0	305	508	940	940	953	1372	1283	2438	1575	2494
	5B7G0	7.9	3.0	6.3	0.9	0.6	1.5	432	419	737	724	750	559	776	1143	1219	1134
	5B7G2	7.9	4.6	9.3	—	0.9	2.2	432	419	787	724	750	559	776	1143	1219	1134
7½ TONNE	7B7D0	11.3	4.6	9.3	1.5	0.9	2.2	305	508	940	940	953	762	673	1219	1575	1724
	7B7D2	11.3	6.0	9.3	2.0	1.2	2.2	305	508	940	940	953	762	673	1219	1575	1769
	7B7D4	11.3	8.5	13.5	—	1.8	3.0	305	508	953	940	953	762	673	1219	1575	1769
	7B7D1	17.4	4.6	9.3	1.5	0.9	2.2	305	508	940	940	953	914	826	1524	1575	1905
	7B7D3	17.4	6.0	9.3	2.0	1.2	2.2	305	508	940	940	953	914	826	1524	1575	1950

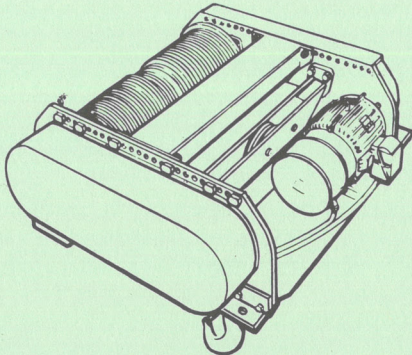
ALL DIMENSIONS SUBJECT TO ALTERATION WITHOUT NOTICE

METHOD OF DESIGNATION/EXAMPLE

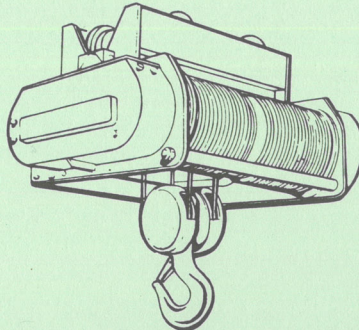
J	K	3	B	1	D	2	5
RANGE	UNIT	MODEL SIZE	CODE	CAPACITY	ROPE REEVING	BARREL SPEED	SUSPENSION
	K. Crab S. Hoist		A – American B – British		C = 2/1 D = 4/2 G = 4/1 J = 8/2 W = 2/1 X = 4/2 Z = 8/2		1 Bolt 2 Footmount 3 Push travel 4 Hand geared 5 Electric travel

Capacity	Model JK	Height Lift Metres	Lifting Speed M.P.M.	Hoist Motor kW.	Optional Speed		Creep Motor kW.	Head-room A mm.	Other leading dimensions								Nett Weight kg.
					Slow M.P.M.	Creep M.P.M.			B mm.	C1 mm.	C mm.	D mm.	E mm.	F mm.	G mm.	H mm.	
7½ TONNE	7B7D5	17.4	8.5	13.5	—	1.8	3.0	305	508	953	940	953	914	826	1524	1575	1950
	7B7X0	26.5	4.6	9.3	1.5	0.9	2.2	305	508	940	940	953	1143	1054	1981	1575	2268
	7B7X2	26.5	6.0	9.3	2.0	1.2	2.2	305	508	940	940	953	1143	1054	1981	1575	2313
	7B7X4	26.5	8.5	13.5	—	1.8	3.0	305	508	953	940	953	1143	1054	1981	1575	2313
	7B7X1	35.1	4.6	9.3	1.5	0.9	2.2	305	508	940	940	953	1372	1283	2438	1575	2449
	7B7X3	35.1	6.0	9.3	2.0	1.2	2.2	305	508	940	940	953	1372	1283	2438	1575	2494
	7B7X5	35.1	8.5	13.5	—	1.8	3.0	305	508	953	940	953	1372	1283	2438	1575	2494
10 TONNE	5B0G0	7.9	3.0	6.3	1.0	0.6	1.5	457	419	737	724	750	559	776	1143	1219	1225
	5B0G2	7.9	4.6	9.3	—	0.9	2.2	457	419	737	724	750	559	776	1143	1219	1225
	7B0D0	9.8	4.6	9.3	1.5	0.9	2.2	356	508	940	940	953	762	673	1219	1575	1860
	7B0D2	9.8	6.0	13.5	—	1.2	3.0	356	508	953	940	953	762	673	1219	1575	1860
	7B0D1	15.2	4.6	9.3	1.5	0.9	2.2	356	508	940	940	953	914	826	1524	1575	1995
	7B0D3	15.2	6.0	13.5	—	1.2	3.0	356	508	953	940	953	914	826	1524	1575	1995
	7B0X0	23.5	4.6	9.3	1.5	0.9	2.2	356	508	940	940	953	1143	1054	1981	1575	2313
	7B0X2	23.5	6.0	13.5	—	1.2	3.0	356	508	953	940	953	1143	1054	1981	1575	2313
	7B0X1	31.4	4.6	9.3	1.5	0.9	2.2	356	508	940	940	953	1372	1283	2438	1575	2494
7B0X3	31.4	6.0	13.5	—	1.2	3.0	356	508	953	940	953	1372	1283	2438	1575	2494	
12 TONNE	9B2J4	4.8	3.0	9.3	1.0	0.6	2.2	762	533	965	940	965	762	673	1219	1575	1240
	9B2J4	4.8	4.3	13.5	—	0.9	3.0	762	533	965	940	965	762	673	1219	1575	1240
	9B2J3	8.1	3.0	9.3	1.0	0.6	2.2	762	533	965	940	965	914	826	1524	1575	2449
	9B2J5	8.1	4.3	13.5	—	0.9	3.0	762	533	965	940	965	914	826	1524	1575	2449
	9B2Z2	12.9	3.0	9.3	1.0	0.6	2.2	762	533	965	940	965	1143	1054	1981	1575	2812
	9B2Z4	12.9	4.3	13.5	—	0.9	3.0	762	533	965	940	965	1143	1054	1981	1575	2812
	9B2Z3	17.8	3.0	9.3	1.0	0.6	2.2	762	533	965	940	965	1372	1283	2438	1575	3084
	9B2Z5	17.8	4.3	13.5	—	0.9	3.0	762	533	965	940	965	1372	1283	2438	1575	3084
15 TONNE	9B5J0	4.4	2.3	9.3	0.76	0.45	2.2	787	533	965	940	965	762	673	1219	1575	1240
	9B5J2	4.4	3.0	9.3	1.0	0.6	2.2	787	533	965	940	965	762	673	1219	1575	1240
	9B5J4	4.4	4.3	13.5	—	0.9	3.0	787	533	965	940	965	762	673	1219	1575	1240
	9B5J1	7.3	2.3	9.3	0.76	0.45	2.2	787	533	965	940	965	914	826	1524	1575	2449
	9B5J3	7.3	3.0	9.3	1.0	0.6	2.2	787	533	965	940	965	914	826	1524	1575	2449
	9B5J5	7.3	4.3	13.5	—	0.9	3.0	787	533	965	940	965	914	826	1524	1575	2449
	9B5Z0	11.8	2.3	9.3	0.76	0.45	2.2	787	533	965	940	965	1143	1054	1981	1575	2812
	9B5Z2	11.8	3.0	9.3	1.0	0.6	2.2	787	533	965	940	965	1143	1054	1981	1575	2812
	9B5Z4	11.8	4.3	13.5	—	0.9	3.0	787	533	965	940	965	1143	1054	1981	1575	2812
	9B5Z1	16.2	2.3	9.3	0.76	0.45	2.2	787	533	965	940	965	1372	1283	2438	1575	3084
	9B5Z3	16.2	3.0	9.3	1.0	0.6	2.2	787	533	965	940	965	1372	1283	2438	1575	3084
9B5Z5	16.2	4.3	13.5	—	0.9	3.0	787	533	965	940	965	1372	1283	2438	1575	3084	
20 TONNE	9B0J0	4.0	2.3	9.3	0.76	0.45	2.2	813	533	965	940	965	762	673	1219	1575	1240
	9B0J2	4.0	3.0	13.5	—	0.6	3.0	813	533	965	940	965	762	673	1219	1575	1240
	9B0J1	6.7	2.3	9.3	0.76	0.45	2.2	813	533	965	940	965	914	826	1524	1575	2449
	9B0J3	6.7	3.0	13.5	—	0.6	3.0	813	533	965	940	965	914	826	1524	1575	2449
	9B0Z0	10.7	2.3	9.3	0.76	0.45	2.2	813	533	965	940	965	1143	1054	1981	1575	2812
	9B0Z2	10.7	3.0	13.5	—	0.6	3.0	813	533	965	940	965	1143	1054	1981	1575	2812
	9B0Z1	14.6	2.3	9.3	0.76	0.45	2.2	813	533	965	940	965	1372	1283	2438	1575	3084
9B0Z3	14.6	3.0	13.5	—	0.6	3.0	813	533	965	940	965	1372	1283	2438	1575	3084	

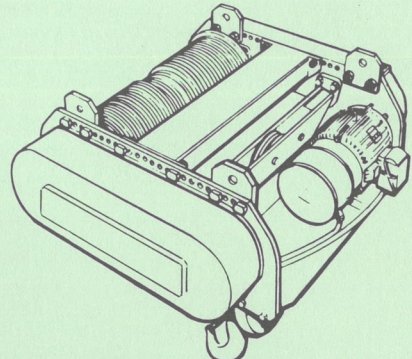
VARIOUS HOIST MODES



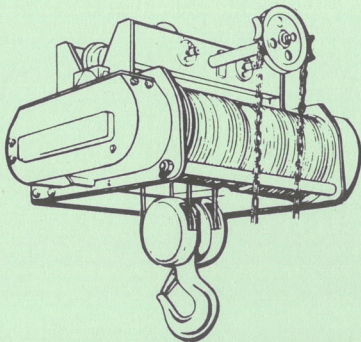
FOOT MOUNTED



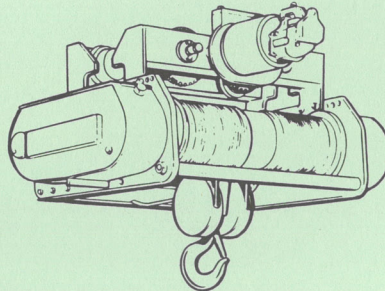
PLAIN TROLLEY



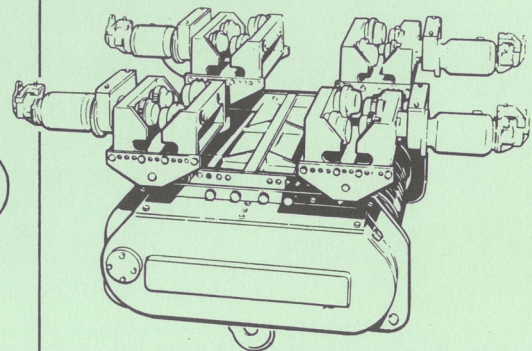
BOLT SUSPENSION



HAND GEARED TROLLEY

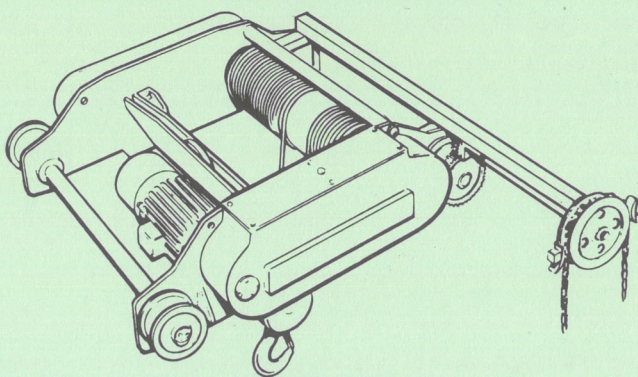


MOTOR TROLLEY

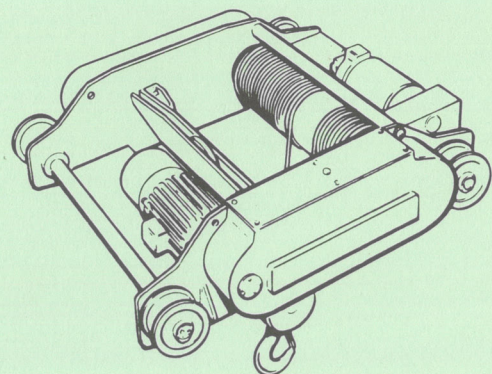


16 WHEEL MOTOR TROLLEY

CRAB MODES



HAND-GEARED TRAVEL



ELECTRIC TRAVEL CRAB

MATTERSON • CRANES

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