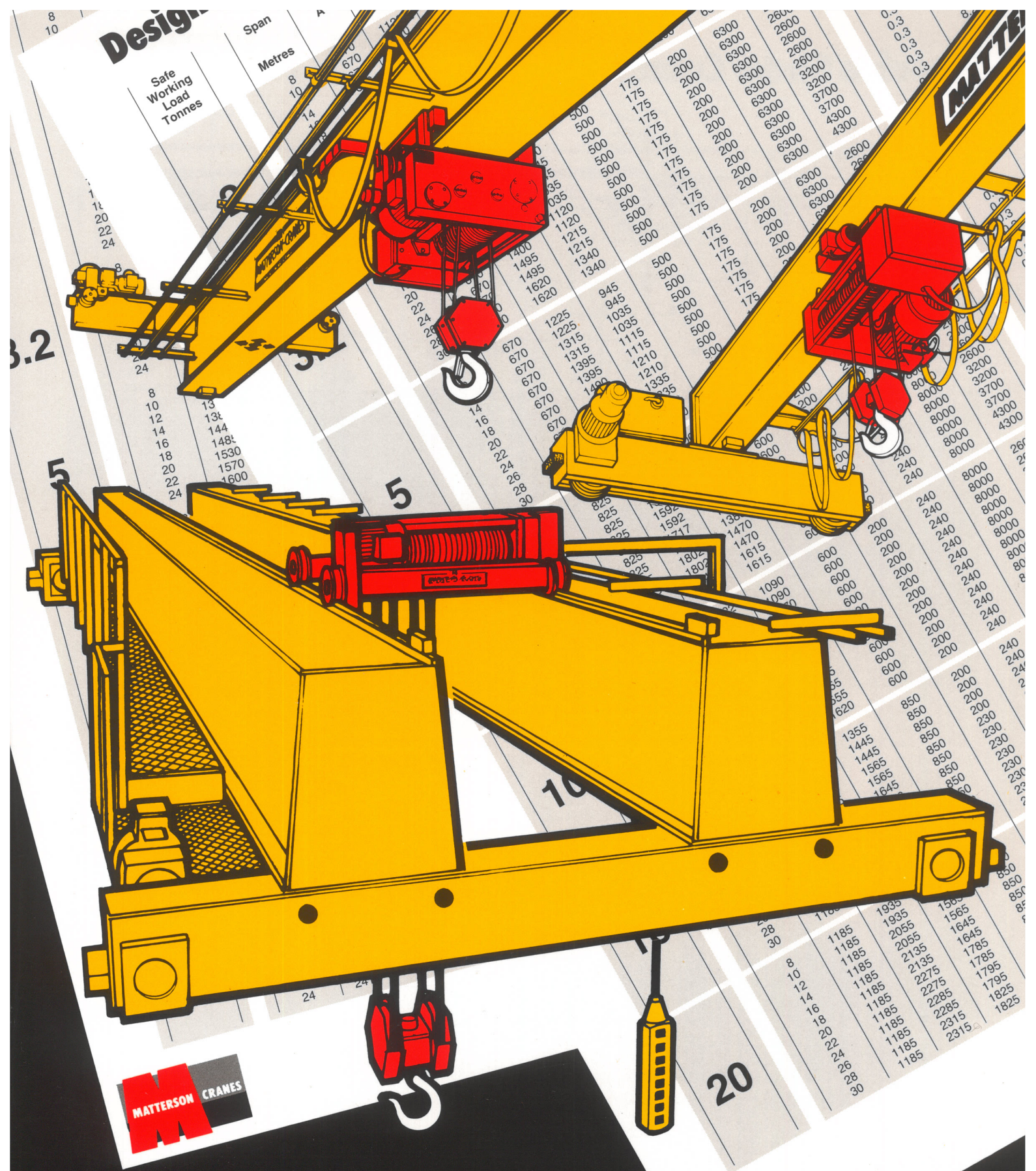
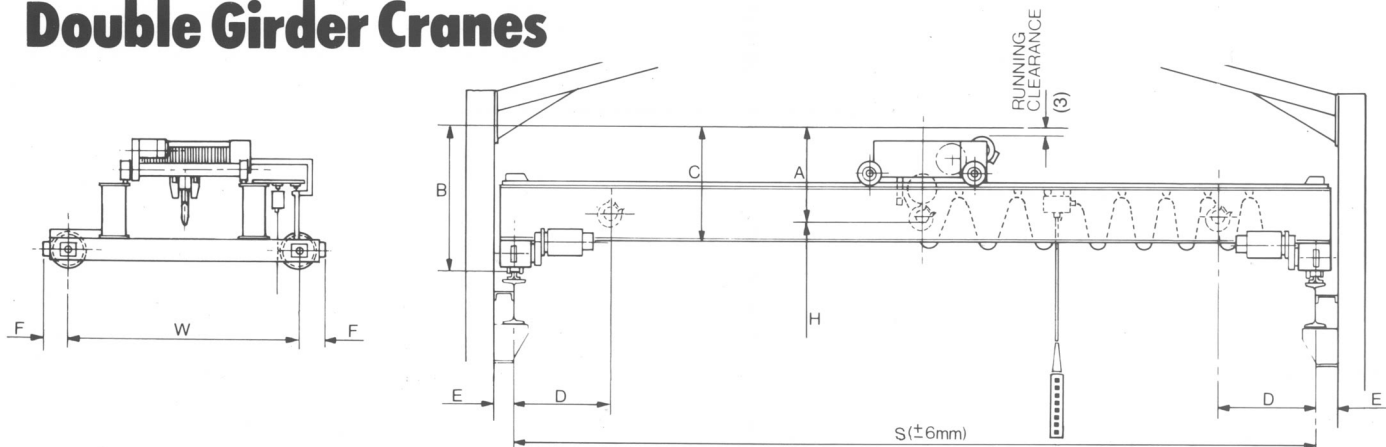




MATTERSON CRANES

Standard Design Data

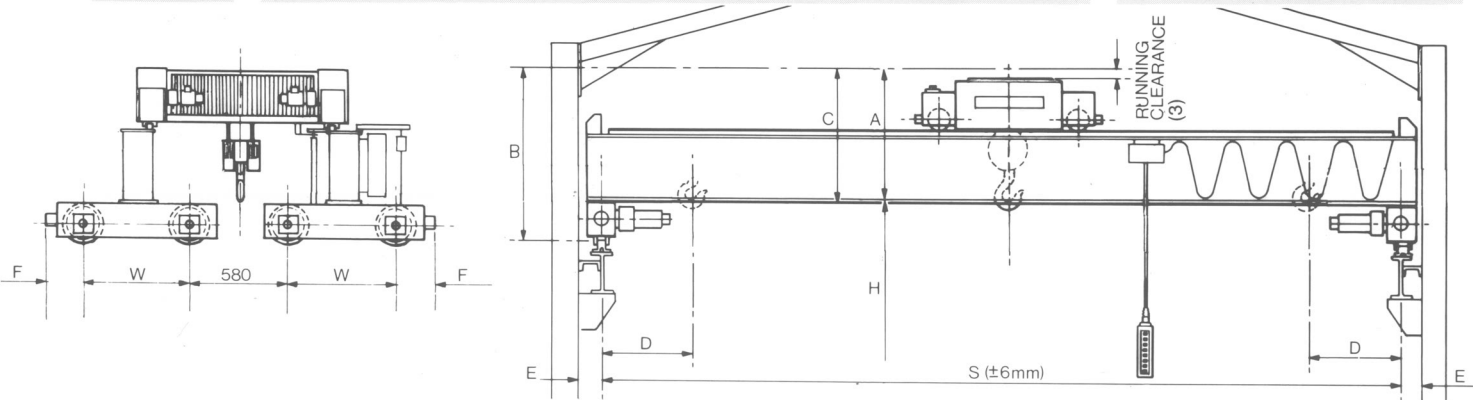
Double Girder Cranes



Safe Working Load Tonnes	Span Metres	A	B (1)	C	D	E	F	H (2)	W	Crab Gross Weight Tonnes	Crane Gross Weight Tonnes	Max. Static Wheel Load Tonnes
2	8	670	1120	840	500	175	200	6300	2600	0.3	2.58	1.65
	10	670	1170	890	500	175	200	6300	2600	0.3	3.25	1.85
	12	670	1225	945	500	175	200	6300	2600	0.3	3.50	1.90
	14	670	1225	945	500	175	200	6300	2600	0.3	3.90	2.00
	16	670	1315	1035	500	175	200	6300	2600	0.3	4.70	2.22
	18	670	1315	1035	500	175	200	6300	2600	0.3	5.15	2.33
	20	670	1400	1120	500	175	200	6300	3200	0.3	6.25	2.60
	22	670	1400	1120	500	175	200	6300	3200	0.3	6.76	2.74
	24	670	1495	1215	500	175	200	6300	3700	0.3	8.26	3.12
	26	670	1495	1215	500	175	200	6300	3700	0.3	8.86	3.27
	28	670	1620	1340	500	175	200	6300	4300	0.3	10.71	3.74
	30	670	1620	1340	500	175	200	6300	4300	0.3	11.40	3.91
3.2	8	670	1170	890	500	175	200	6300	2600	0.3	2.83	2.28
	10	670	1250	970	500	175	200	6300	2600	0.3	3.64	2.50
	12	670	1225	945	500	175	200	6300	2600	0.3	3.50	2.48
	14	670	1225	945	500	175	200	6300	2600	0.3	3.90	2.60
	16	670	1315	1035	500	175	200	6300	2600	0.3	4.70	2.80
	18	670	1315	1035	500	175	200	6300	2600	0.3	5.13	2.91
	20	670	1400	1120	500	175	200	6300	3200	0.3	6.25	3.20
	22	670	1400	1120	500	175	200	6300	3200	0.3	6.76	3.33
	24	670	1495	1215	500	175	200	6300	3700	0.3	8.26	3.70
	26	670	1495	1215	500	175	200	6300	3700	0.3	8.86	3.86
	28	670	1620	1340	500	175	200	6300	4300	0.3	11.16	4.44
	30	670	1620	1340	500	175	200	6300	4300	0.3	11.84	4.61
5	8	670	1225	945	500	175	200	6300	2600	0.3	2.75	3.10
	10	670	1225	945	500	175	200	6300	2600	0.3	3.12	3.23
	12	670	1315	1035	500	175	200	6300	2600	0.3	3.83	3.43
	14	670	1315	1035	500	175	200	6300	2600	0.3	4.27	3.55
	16	670	1395	1115	500	175	200	6300	2600	0.3	5.20	3.80
	18	670	1395	1115	500	175	200	6300	2600	0.3	5.70	4.00
	20	670	1490	1210	500	175	200	6300	3200	0.3	7.42	4.37
	22	670	1490	1210	500	175	200	6300	3200	0.3	8.00	4.52
	24	670	1667	1335	500	200	240	6300	3700	0.3	9.72	4.95
	26	670	1667	1335	500	200	240	6300	3700	0.3	10.40	5.13
	28	670	1752	1420	500	200	240	6300	4300	0.3	11.90	5.50
	30	670	1752	1420	500	200	240	6300	4300	0.3	12.65	5.70
8	8	825	1332	1000	600	175	200	8000	2600	0.56	3.37	4.66
	10	825	1422	1090	600	200	240	8000	2600	0.56	4.02	4.89
	12	825	1502	1170	600	200	240	8000	2600	0.56	4.84	5.14
	14	825	1502	1170	600	200	240	8000	2600	0.56	5.33	5.29
	16	825	1592	1260	600	200	240	8000	2600	0.56	6.45	5.60
	18	825	1592	1260	600	200	240	8000	2600	0.56	7.03	5.76
	20	825	1717	1385	600	200	240	8000	3200	0.56	8.55	6.15
	22	825	1717	1385	600	200	240	8000	3200	0.56	9.22	6.33
	24	825	1802	1470	600	200	240	8000	3700	0.56	10.63	6.70
	26	825	1802	1470	600	200	240	8000	3700	0.56	11.36	6.88
	28	825	1947	1615	600	200	240	8000	4300	0.56	13.44	7.41
	30	825	1947	1615	600	200	240	8000	4300	0.56	14.27	7.63
10	8	825	1422	1090	600	200	240	8000	2600	0.56	3.59	5.65
	10	825	1422	1090	600	200	240	8000	2600	0.56	4.02	5.83
	12	825	1502	1170	600	200	240	8000	2600	0.56	4.84	6.10
	14	825	1592	1260	600	200	240	8000	2600	0.56	5.88	6.39
	16	825	1592	1260	600	200	240	8000	2600	0.56	6.46	6.56
	18	825	1717	1385	600	200	240	8000	2600	0.56	7.82	6.92
	20	825	1717	1385	600	200	240	8000	3200	0.56	8.55	7.12
	22	825	1807	1475	600	200	240	8000	3200	0.56	10.32	7.58
	24	825	1807	1475	600	200	240	8000	3700	0.56	11.17	7.80
	26	825	1887	1555	600	200	240	8000	3700	0.56	12.81	8.22
	28	825	1887	1555	600	200	240	8000	4300	0.56	13.73	8.46
	30	825	1952	1620	600	200	240	8000	4300	0.56	15.38	8.88
16	8	1185	1687	1355	850	200	240	8000	2600	1.2	4.66	8.56
	10	1185	1777	1445	850	200	240	8000	2600	1.2	5.53	8.96
	12	1185	1777	1445	850	200	240	8000	2600	1.2	6.09	9.22
	14	1185	1897	1565	850	200	240	8000	2600	1.2	7.26	9.60
	16	1185	2055	1565	850	240	310	8000	2600	1.2	7.89	9.84
	18	1185	2135	1645	850	240	310	8000	2600	1.2	9.42	10.26
	20	1185	2140	1650	850	240	310	8000	3200	1.2	10.15	10.50
	22	1185	2275	1785	850	240	310	8000	3200	1.2	11.39	10.82
	24	1185	2285	1795	850	240	310	8000	3700	1.2	13.05	11.28
	26	1185	2285	1795	850	240	310	8000	3700	1.2	15.44	11.90
	28	1185	2290	1800	850	240	310	8000	4300	1.2	16.41	12.16
	30	1185	2315	1825	850	240	310	8000	4300	1.2	19.69	13.00

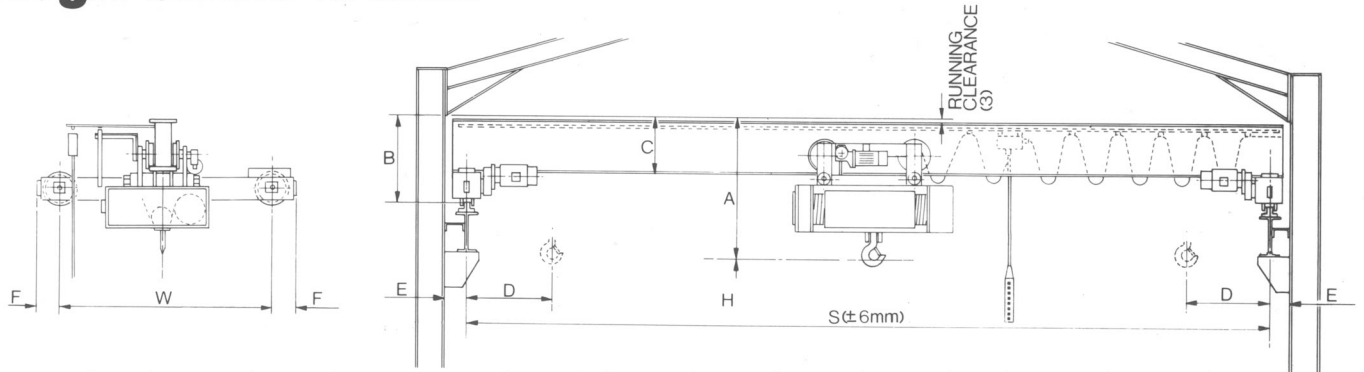
Double Girder Cranes

Safe Working Load Tonnes	Span	A	B (1)	C	D	E	F	H (2)	W	Crab Gross Weight Tonnes	Crane Gross Weight Tonnes	Max. Static Wheel Load Tonnes
	Metres											
20	8	1185	1935	1445	850	240	310	8000	2600	1.2	5.12	11.08
	10	1185	1935	1445	850	240	310	8000	2600	1.2	5.67	11.22
	12	1185	2055	1565	850	240	310	8000	2600	1.2	6.85	11.51
	14	1185	2055	1565	850	240	310	8000	2600	1.2	7.31	11.63
	16	1185	2135	1645	850	240	310	8000	2600	1.2	8.92	12.03
	18	1185	2135	1645	850	240	310	8000	2600	1.2	9.65	12.21
	20	1185	2275	1785	850	240	310	8000	3200	1.2	11.72	12.76
	22	1185	2275	1785	850	240	310	8000	3200	1.2	12.57	13.00
	24	1185	2285	1795	850	240	310	8000	3700	1.2	15.13	13.68
	26	1185	2285	1795	850	240	310	8000	3700	1.2	16.11	13.93
	28	1185	2315	1825	850	240	310	8000	4300	1.2	18.88	14.67
	30	1185	2315	1825	850	240	310	8000	4300	1.2	20.00	14.95
25	8	1530	2170	1680	1100	240	310	8000	3200	2.8	7.06	13.29
	10	1530	2170	1680	1100	240	310	8000	3200	2.8	7.68	13.77
	12	1530	2255	1765	1100	240	310	8000	3200	2.8	8.79	14.29
	14	1530	2255	1765	1100	240	310	8000	3200	2.8	9.48	14.70
	16	1530	2335	1846	1100	240	310	8000	3200	2.8	11.16	15.18



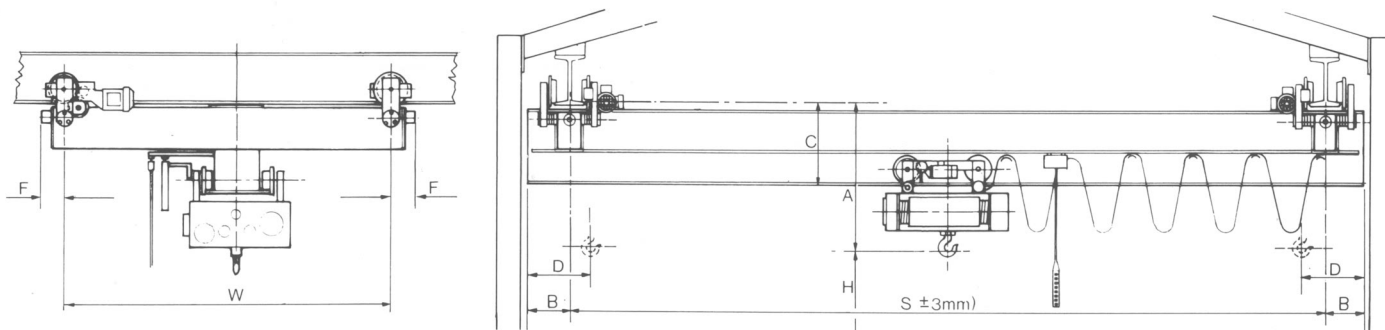
Safe Working Load Tonnes	Span	A	B (1)	C	D	E	F	H (2)	W	Crab Gross Weight Tonnes	Crane Gross Weight Tonnes	Max. Static Wheel Load Tonnes
	Metres											
25	18	1530	2335	1845	1100	240	310	8000	2x1500	2.8	12.85	7.64/ 9.36
	20	1530	2405	1915	1100	240	310	8000	2x1500	2.8	15.04	7.92/ 9.63
	22	1530	2405	1915	1100	240	310	8000	2x1500	2.8	15.99	8.03/ 9.76
	24	1530	2510	2020	1100	240	310	8000	2x2000	2.8	19.74	6.70/12.01
	26	1530	2510	2020	1100	240	310	8000	2x2000	2.8	20.92	6.80/12.20
	28	1530	2515	2125	1100	240	310	8000	2x2000	2.8	23.20	7.06/12.58
	30	1530	2515	2125	1100	240	310	8000	2x2000	2.8	24.75	7.18/12.77
32	8	1530	2175	1685	1100	240	310	8000	2x1500	2.8	8.42	7.05/10.48
	10	1530	2175	1685	1100	240	310	8000	2x1500	2.8	9.09	7.27/10.51
	12	1530	2255	1765	1100	240	310	8000	2x1500	2.8	10.45	7.59/10.82
	14	1530	2255	1765	1100	240	310	8000	2x1500	2.8	11.23	8.15/11.02
	16	1530	2380	1890	1100	240	310	8000	2x1500	2.8	12.69	8.26/11.26
	18	1530	2380	1890	1100	240	310	8000	2x1500	2.8	13.61	8.37/11.38
	20	1530	2445	1955	1100	240	310	8000	2x1500	2.8	17.32	8.82/11.85
	22	1530	2445	1955	1100	240	310	8000	2x1500	2.8	18.44	9.02/12.01
	24	1530	2615	2125	1100	240	310	8000	2x2000	2.8	21.20	7.18/14.46
	26	1530	2615	2125	1100	240	310	8000	2x2000	2.8	22.45	7.41/14.76
	28	1530	2750	2260	1100	240	310	8000	2x2000	2.8	25.17	7.70/15.12
	30	1530	2750	2260	1100	240	310	8000	2x2000	2.8	26.50	7.85/15.34
40	8	1530	2255	1765	1100	240	310	8000	2x1500	2.8	8.72	8.42/12.34
	10	1530	2255	1765	1100	240	310	8000	2x1500	2.8	9.46	8.72/12.75
	12	1530	2335	1845	1100	240	310	8000	2x1500	2.8	10.65	9.05/13.07
	14	1530	2335	1845	1100	240	310	8000	2x1500	2.8	11.45	9.26/13.31
	16	1530	2400	1910	1100	240	310	8000	2x1500	2.8	13.61	9.66/13.66
	18	1530	2400	1910	1100	240	310	8000	2x1500	2.8	14.51	9.87/13.84
	20	1530	2555	2065	1100	240	310	8000	2x1500	2.8	18.07	10.42/14.24
	22	1530	2555	2065	1100	240	310	8000	2x1500	2.8	19.26	10.64/14.42
	24	1530	2745	2255	1100	240	310	8000	2x2000	2.8	22.23	8.49/17.40
	26	1530	2745	2255	1100	240	310	8000	2x2000	2.8	23.57	8.65/17.63
	28	1530	2755	2265	1100	240	310	8000	2x2000	2.8	29.04	9.26/18.37
	30	1530	2755	2265	1100	240	310	8000	2x2000	2.8	30.64	9.45/18.64

Single Girder Cranes

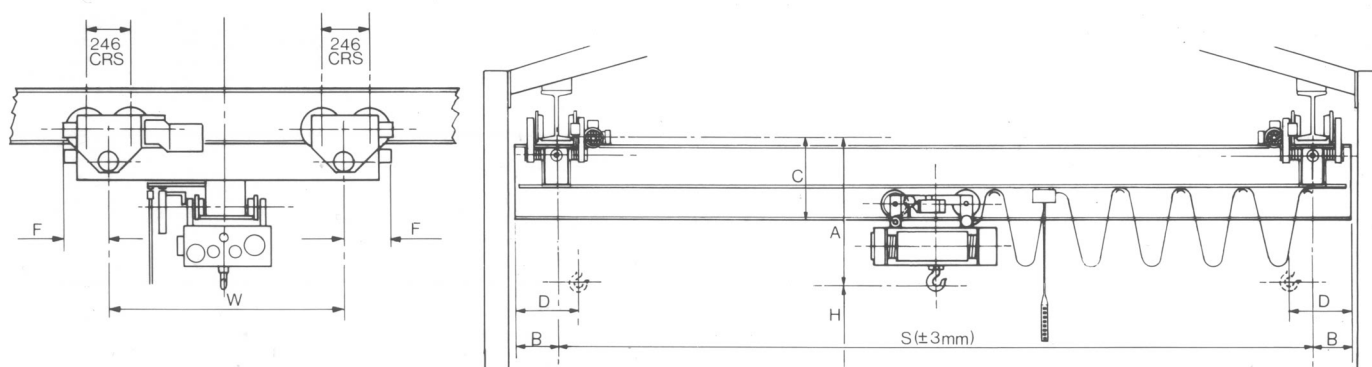


Safe Working Load Tonnes	Span Metres	A	B (1)	C	D	E	F	H (2)	W	Hoist Gross Weight Tonnes	Crane Gross Weight Tonnes	Max. Static Wheel Load Tonnes
1	8	1164	764	484	550/750	175	200	6300	1500	0.29	1.58	0.92
	10	1170	770	490	550/750	175	200	6300	1500	0.29	1.75	0.97
	12	1210	810	530	550/750	175	200	6300	2000	0.29	2.00	1.04
	14	1250	850	570	550/750	175	200	6300	2000	0.29	2.32	1.13
	16	1310	910	630	550/750	175	200	6300	2600	0.29	2.79	1.25
	18	1380	980	700	550/750	175	200	6300	2600	0.29	3.21	1.35
	20	1445	1045	765	500/750	175	200	6300	3200	0.29	3.69	1.48
	22	1505	1105	825	550/750	175	200	6300	3200	0.29	4.23	1.61
	24	1570	1170	890	550/750	175	200	6300	3500	0.29	4.89	1.78
2	8	1164	764	484	550/750	175	200	6300	1500	0.29	1.58	1.39
	10	1170	770	490	550/750	175	200	6300	1500	0.29	1.75	1.45
	12	1210	810	530	550/750	175	200	6300	2000	0.29	2.00	1.52
	14	1250	850	570	550/750	175	200	6300	2000	0.29	2.32	1.60
	16	1310	910	630	550/750	175	200	6300	2600	0.29	2.79	1.73
	18	1380	980	700	550/750	175	200	6300	2600	0.29	3.21	1.84
	20	1445	1045	765	500/750	175	200	6300	3200	0.29	3.69	1.96
	22	1505	1105	825	550/750	175	200	6300	3200	0.29	4.23	2.10
	24	1570	1170	890	550/750	175	200	6300	3500	0.29	4.89	2.27
3.2	8	1155	755	475	550/750	175	200	6300	1500	0.29	1.65	1.97
	10	1215	815	535	550/750	175	200	6300	1500	0.29	1.87	2.05
	12	1255	855	575	550/750	175	200	6300	2000	0.29	2.22	2.15
	14	1315	915	635	550/750	175	200	6300	2000	0.29	2.53	2.24
	16	1385	985	705	550/750	175	200	6300	2600	0.29	2.89	2.34
	18	1385	985	705	550/750	175	200	6300	2600	0.29	3.42	2.47
	20	1450	1050	770	500/750	175	200	6300	3200	0.29	3.79	2.57
	22	1510	1110	830	550/750	175	200	6300	3200	0.29	4.39	2.73
	24	1570	1170	890	550/750	175	200	6300	3500	0.29	5.50	3.00
5	8	1220	820	540	550/750	175	200	6300	1500	0.29	1.70	2.82
	10	1275	875	595	550/750	175	200	6300	1500	0.29	1.96	2.92
	12	1315	915	635	550/750	175	200	6300	2000	0.29	2.42	3.06
	14	1385	985	705	550/750	175	200	6300	2000	0.29	2.75	3.15
	16	1445	1045	765	550/750	175	200	6300	2600	0.29	3.26	3.30
	18	1485	1085	805	550/750	175	200	6300	2600	0.29	3.73	3.42
	20	1530	1185	850	500/750	175	200	6300	3200	0.29	4.70	3.68
	22	1570	1225	890	550/750	175	200	6300	3200	0.29	5.35	3.85
	24	1600	1255	920	550/750	175	200	6300	3500	0.29	5.92	4.00
8	8	1440	915	580	680/890	200	240	8000	1500	0.5	2.40	4.37
	10	1500	975	640	680/890	200	240	8000	1500	0.5	2.85	4.56
	12	1570	1045	710	680/890	200	240	8000	2000	0.5	3.24	4.70
	14	1650	1125	790	680/890	200	240	8000	2000	0.5	3.75	4.87
	16	1700	1175	840	680/890	200	240	8000	2600	0.5	4.36	5.05
	18	1725	1200	865	680/890	200	240	8000	2600	0.5	5.02	5.23
	20	1755	1230	895	680/890	200	240	8000	3200	0.5	5.88	5.46
	22	1785	1260	925	680/890	200	240	8000	3200	0.5	6.51	5.63
	24	1850	1325	990	680/890	200	240	8000	3500	0.5	7.10	5.80
10	8	1465	940	605	680/890	200	240	8000	1500	0.5	2.50	5.31
	10	1525	1000	665	680/890	200	240	8000	1500	0.5	2.98	5.52
	12	1580	1055	720	680/890	200	240	8000	2000	0.5	3.44	5.70
	14	1640	1115	780	680/890	200	240	8000	2000	0.5	4.01	5.88
	16	1710	1185	850	680/890	200	240	8000	2600	0.5	4.71	6.10
	18	1760	1235	900	680/890	200	240	8000	2600	0.5	5.17	6.23
	20	1790	1265	930	680/890	200	240	8000	3200	0.5	6.05	6.47
	22	1810	1285	950	680/890	200	240	8000	3200	0.5	6.95	6.71
	24	1875	1350	1015	680/890	200	240	8000	3500	0.5	7.62	6.90
16	8	1870	1045	700	800/1000	200	240	8000	1500	1.10	3.50	8.29
	10	1930	1105	760	800/1000	200	240	8000	1500	1.10	4.00	8.41
	12	2000	1175	830	800/1000	200	240	8000	2000	1.10	4.60	8.85
	14	2070	1245	900	800/1000	200	240	8000	2000	1.10	5.33	9.12
	16	2090	1265	920	800/1000	200	240	8000	2600	1.10	6.20	9.40
	18	2180	1515	1010	800/1000	240	310	8000	2600	1.10	7.58	9.80
	20	2250	1585	1080	800/1000	240	310	8000	3200	1.10	8.44	10.04
	22	2330	1665	1160	800/1000	240	310	8000	3200	1.10	9.14	10.25
	24	2365	1700	1195	800/1000	240	310	8000	3500	1.10	10.88	10.71
20	8	1870	1205	700	800/1000	240	310	8000	1500	1.10	3.98	10.17
	10	2000	1335	830	800/1000	240	310	8000	1500	1.10	4.66	10.55
	12	2050	1385	880	800/1000	240	310	8000	2000	1.10	5.25	10.84
	14	2090	1425	920	800/1000	240	310	8000	2000	1.10	6.20	11.18
	16	2150	1485	980	800/1000	240	310	8000	2600	1.10	7.00	11.45
	18	2250	1585	1080	800/1000	240	310	8000	2600	1.10	7.69	11.68
	20	2335	1670	1165	800/1000	240	310	8000	3200	1.10	8.30	11.88
	22	2365	1700	1195	800/1000	240	310	8000	3200	1.10	9.65	12.26
	24	2410	1745	1240	800/1000	240	310	8000	3500	1.10	11.17	12.67

Underslung Cranes



Safe Working Load Tonnes	Span Metres	A	B (1)	C	D	F	H (2)	W	Hoist Gross Weight Tonnes	Crane Gross Weight Tonnes	Max. Static Bogie Load Tonnes
1	8	1045	250	375	300/745	150	6300	1200	0.29	1.58	0.92
	10	1105	250	435	300/745	150	6300	1500	0.29	1.75	0.97
	12	1145	250	475	300/745	150	6300	1500	0.29	2.00	1.04
	14	1185	250	515	300/745	150	6300	2000	0.29	2.32	1.13
	16	1245	250	575	300/745	150	6300	2000	0.29	2.79	1.25
2	8	1045	250	375	300/745	150	6300	1200	0.29	1.58	1.39
	10	1105	250	435	300/745	150	6300	1500	0.29	1.75	1.45
	12	1145	250	475	300/745	150	6300	1500	0.29	2.00	1.52
	14	1185	250	515	300/745	150	6300	2000	0.29	2.32	1.60
	16	1245	250	575	300/745	150	6300	2000	0.29	2.79	1.73
3.2	8	1085	250	417	300/745	150	6300	1200	0.29	1.65	1.97
	10	1145	250	477	300/745	150	6300	1500	0.29	1.87	2.05
	12	1185	250	517	300/745	150	6300	1500	0.29	2.22	2.15
	14	1245	250	477	300/745	150	6300	2000	0.29	2.53	2.24
	16	1315	250	647	300/745	150	6300	2000	0.29	2.89	2.34
5	8	1145	250	480	300/745	150	6300	1200	0.29	1.70	2.82
	10	1205	250	540	300/745	150	6300	1500	0.29	1.96	2.92
	12	1245	250	580	300/745	150	6300	1500	0.29	2.42	3.06
	14	1315	250	650	300/745	150	6300	2000	0.29	2.75	3.15
	16	1375	250	700	300/745	150	6300	2000	0.29	3.26	3.30



8	8	1365	250	525	340/850	250	8000	1200	0.5	2.40	4.37
	10	1425	250	585	340/850	250	8000	1500	0.5	2.85	4.56
	12	1495	250	655	340/850	250	8000	1500	0.5	3.24	4.70
	14	1575	250	735	340/850	250	8000	2000	0.5	3.75	4.87
	16	1625	250	785	340/850	250	8000	2000	0.5	4.36	5.05
10	8	1385	250	550	340/850	250	8000	1200	0.5	2.50	5.31
	10	1445	250	610	340/850	250	8000	1500	0.5	2.98	5.52
	12	1495	250	660	340/850	250	8000	1500	0.5	3.44	5.70
	14	1555	250	720	340/850	250	8000	2000	0.5	4.01	5.88
	16	1625	250	790	340/850	250	8000	2000	0.5	4.71	6.10

OPERATING SPEEDS

Standard operating speeds of pendant controlled cranes.

Safe working load (SWL) te	2	3.2	5	8	10	16	20	25	32	40
Hoisting/lowering MPM	4	4	3.2	4	3.2	4	3.2	4	4	3.2
Traverse (East/West) MPM	16									
Travel (North/South) MPM	32*									

(*25 MPM on underslung cranes)

Dual speed option is available on all motions. Main speeds remain as above, additional secondary speeds have 3:1 reduction on hoisting/lowering and 4:1 on traverse and travel. Other speeds and speed combinations are available.

DIMENSIONS

- (1) Alternative end constructions can be provided to either increase or decrease dimension B to suit varying building conditions.
- (2) The height of lift, or hook path dimension, is based upon a standard lifting unit. Alternative units are available in all capacities for extended lift heights.
- (3) Vertical clearance between top of crane and lowest overhead obstruction in accordance with BS466:1984, Appendix H.

WEIGHTS AND WHEEL LOADS

All dimensions are in millimetres, weights and wheel loads in tonnes. Tables do not allow for maintenance platforms.

Crane gross weight includes the weight of the lifting unit.

GENERAL

All tabulated data is for guidance purposes only and subject to confirmation by the Company. The policy of Matterson Limited is one of continued progress and as such we reserve the right to amend this published information without notice.



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