Double girder pendant controlled cranes Class II Duty.*

To BS 466 & BS 2573. Part 1.

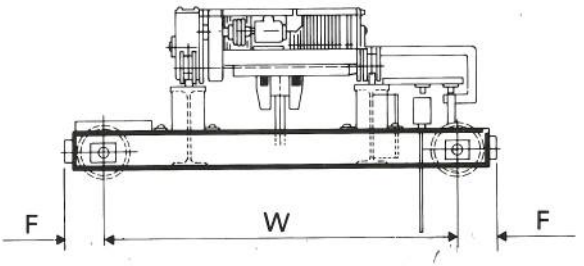
Dimensions

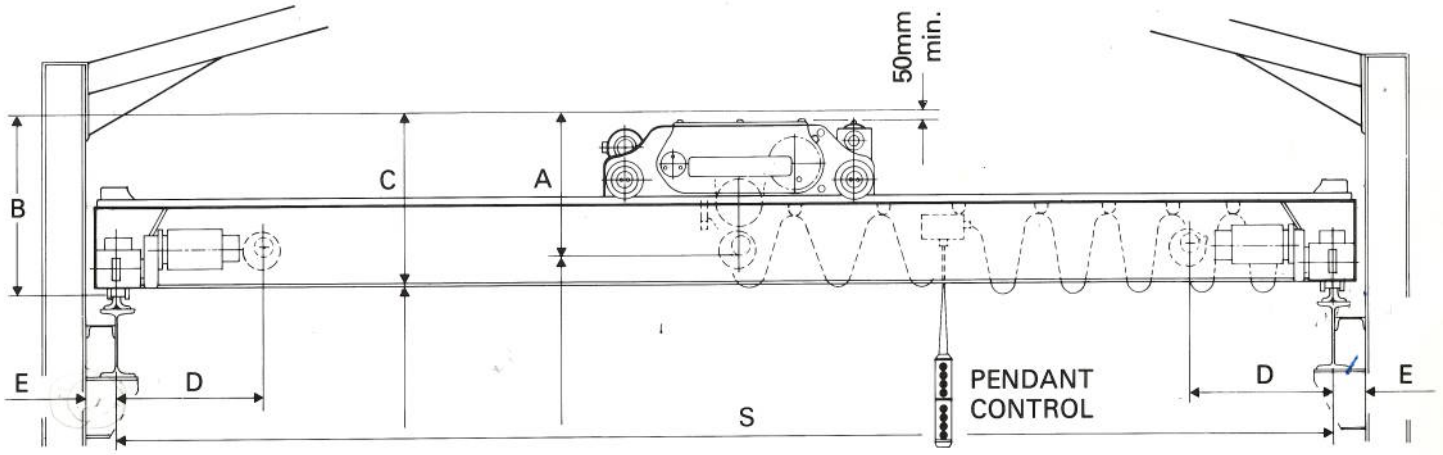
1. Dimension B is based upon construction where end carriages are built into bridge members for maximum rigidity and compact headroom dimension.
Alternative end constructions can be provided to either increase or reduce dimension B to suit existing building conditions.
2. The height of lift, or hook path dimension, is based upon a standard crab unit. Alternative crabs are available in all capacities for extended heights of lift.

Weights and Wheel Loads

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

Crane gross weight includes the weight of the crab.





*Class II duty is defined in Table 1 of BS 2573: Part 1 as follows:

Class	No. of stress cycles to be assumed for fatigue calculations	Description of duty	Duty factor	Impact factor
II	6×10^5	Medium duty — general use in factories and warehouses	0.95	1.3

Double girder pendant controlled cranes Class II Duty*

To BS 466 & BS 2573. Part 1

See diagram on page U3. Dimensions are in millimetres

Safe working load tonnes	Span metres	A	B (1)	C	D	E	F	H (2)	W	Crab gross weight tonnes	Crane gross weight tonnes	Static wheel load tonnes
	8	590	920	895					2500		2.52	1.69
	10	590	970	945					2500		3.41	1.94
	12	590	1040	1015					2500		4.20	2.15
	14	590	1120	1095					3100		5.56	2.49
	16	590	1120	1095					3700		6.87	2.83
2	18	590	1120	1095	660	200	260	7900	3700	0.55	7.50	2.98
	20	620	1380	1355					3700		8.91	3.33
	22	620	1380	1355					3700		10.43	3.71
	24	620	1380	1355					4300		11.23	3.91
	26	620	1545	1520					4300		12.95	4.34
	8	640	970	945					2500		2.96	2.27
	10	640	1040	1015					2500		3.77	2.50
	12	640	1120	1095					2500		4.66	2.73
	14	640	1120	1095					3100		6.22	3.14
	16	640	1120	1095					3700		6.86	3.32
3	18	640	1135	1110	660	200	260	7300	3700	0.55	9.16	3.86
	20	670	1380	1355					3700		8.91	3.82
	22	670	1380	1355					3700		10.43	4.20
	24	670	1380	1355					4300		11.23	4.40
	26	670	1545	1520					4300		12.95	4.83
	8	700	1070	1045					2500		3.68	3.44
	10	700	1140	1115					2500		4.65	3.73
	12	700	1140	1115					2500		5.64	4.01
	14	700	1140	1115					3100		6.62	4.28
	16	700	1170	1145					3700		8.85	4.80
5	18	700	1170	1145	760	200	260	9700	3700	0.95	9.69	5.03
	20	730	1420	1395					3700		9.29	4.93
	22	730	1420	1395					3700		10.81	5.32
	24	730	1420	1395					4300		11.61	5.55
	26	730	1585	1560					4300		13.33	5.98
	8	870	1250	1225			260		2500		4.88	4.92
	10	870	1250	1225			260		2500		5.84	5.27
	12	870	1250	1225			260		2500		6.45	5.49
	14	870	1280	1255			260		3100		8.77	6.07
	16	870	1280	1255			260		3700		9.57	6.30
7½	18	870	1350	1325	970	200	260	11250	3700	1.70	11.21	6.74
	20	900	1510	1485			260		3700		10.01	6.44
	22	900	1510	1485			260		3700		11.53	6.82
	24	900	1675	1650			260		4300		13.17	7.28
	26	900	1850	1800			430		4300		14.73	7.67
	8	920	1250	1225					2500		5.18	6.19
	10	920	1250	1225					2500		5.84	6.47
	12	920	1280	1255					2500		7.98	6.98
	14	920	1280	1255					3100		8.82	7.26
	16	920	1375	1325					3700		10.68	7.77
10	18	920	1375	1325	970	200	430	9700	3700	1.70	11.60	8.04
	20	950	1535	1485					3700		11.11	7.91
	22	950	1715	1665					3700		12.67	8.30
	24	950	1715	1665					4300		13.65	8.61
	26	950	1865	1815					4300		15.17	8.99

*See page U3.

Double girder pendant controlled cranes Class II Duty*

To BS 466 & BS 2573. Part 1

See diagram on page U3. Dimensions are in millimetres

Safe working load tonnes	Span metres	A	B (1)	C	D	E	F	H (2)	W	Crab gross weight tonnes	Crane gross weight tonnes	Static wheel load tonnes
	8		1420	1370		200	430		3700		6.30	8.72
	10		1420	1370		200	430		3700		6.93	8.96
	12		1575	1525		200	430		3700		8.17	9.44
	14		1575	1525		200	430		3700		9.26	9.81
	16		1575	1525		200	430		3700		10.58	10.23
15	18	1415	1740	1690	970	200	430	7300	3700	2.40	12.02	10.59
	20		1740	1690		200	430		3700		12.86	10.89
	22		1890	1840		200	430		3700		14.34	11.26
	24		1890	1780		220	500		4300		20.59	13.15
	26		1890	1780		220	500		4300		21.76	13.48
	8		1575	1525		200	430		3700		7.12	11.16
	10		1575	1525		200	430		3700		7.70	11.41
	12		1575	1525		200	430		3700		9.02	11.96
	14		1740	1690		200	430		3700		10.30	12.40
	16		1740	1690		200	430		3700		11.14	12.72
20	18	1440	1890	1840	970	200	430	6700	3700	2.40	12.50	13.06
	20		1890	1780		220	500		3700		18.32	14.90
	22		1890	1780		220	500		3700		19.48	15.24
	24		2035	1925		220	520		4300		22.07	15.93
	26		2035	1925		220	520		4300		23.35	16.29
	8		1650	1540		220	500		4300		11.40	14.90
	10		1650	1540		220	500		4300		11.97	15.04
	12		1650	1540		220	500		4300		13.14	15.62
	14		1800	1690		220	500		4300		14.36	16.13
	16		1800	1690		220	500		4300		15.22	16.49
25	18	1650	1950	1840	1150	220	500	8000	4300	4.00	18.83	17.52
	20		1950	1840		220	500		4300		20.03	17.92
	22		2100	1990		220	520		4900		22.54	18.64
	24		2100	1990		235	600		4900		24.53	19.20
	26		2125	2035		235	620		4900		27.78	20.08
	8		1650	1540		220	500		4300		11.00	17.65
	10		1650	1540		220	500		4300		12.33	18.24
	12		1800	1690		220	500		4300		13.49	18.87
	14		1800	1690		220	500		4300		14.14	19.37
	16		1950	1840		235	600		4900		18.45	20.57
32	18	1650	1950	1840	1150	235	600	8000	4900	4.00	19.61	21.00
	20		2100	1990		235	600		4900		21.99	21.71
	22		2100	1990		235	600		4900		23.26	22.14
	24		2210	2035		250	620		4900		26.69	23.07
	26		2210	2035		250	620		4900		28.11	23.51

*See page U3.

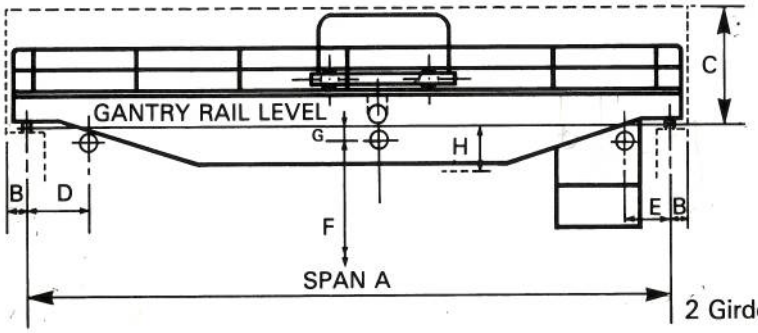
Single Hoist Cranes for Class II * Duty

To BS 466 and BS 2573: Part 1

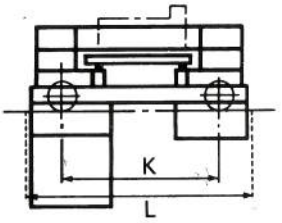
Courtesy NEI, Clarke Chapman Cranes Ltd

Dimensions are in metres except where marked

2 Girder type



2 Girder Type



2 Wheel End Carriage

Capacity tonnes	Span A m	B mm	C m	D m	E m	F m	G m	H m	K m	L m	Crab Wt. tonnes	Crane Wt. tonnes	Wheel Load tonnes	Wheels in end carr.
	10	240	1.6					0.8	3.0	4.1		5.0	3.9	
	12.5	240	1.6					1.0	3.7	4.7		6.5	4.7	
5	16	250	1.6	0.9	0.8	16	0	1.1	3.8	4.9	1.76	8.5	5.7	2
	20	250	1.7					1.3	4.1	5.2		11.0	6.7	
	25	270	1.7					1.4	4.6	5.6		14.0	7.8	
	32	270	1.7					1.4	5.1	6.1		17.5	9.6	
	10	240	1.7					0.8	3.1	4.1		6.9	5.6	
	12.5	240	1.7					1.0	3.7	4.7		8.8	6.3	
8	16	250	1.7	0.9	0.8	16	0.27	1.1	3.7	4.9	2.6	11.4	7.4	2
	20	250	1.8					1.3	4.1	5.2		15.0	8.6	
	25	270	1.8					1.4	4.6	5.6		19.4	9.8	
	32	270	1.8					1.5	5.1	6.1		24.5	11.5	
	10	250	1.8					0.8	3.1	4.1		7.5	6.8	
	12.5	250	1.8					1.0	3.7	4.7		10.0	7.7	
10	16	270	1.8	1.0	0.8	16	0.3	1.1	3.9	4.9	2.8	12.9	8.7	2
	20	270	1.9					1.3	4.1	5.2		17.0	9.8	
	25	280	1.9					1.4	4.6	5.6		21.7	11.5	
	32	280	1.9					1.5	5.1	6.1		27.5	12.7	
	10	270	2.0					0.8	3.2	4.6		8.5	8.2	
	12.5	270	2.0					1.0	3.8	4.9		10.7	9.3	
12.5	16	280	2.0	1.1	1.0	16	0.3	1.1	4.0	5.0	2.8	13.8	10.3	2
	20	280	2.1					1.3	4.1	5.2		18.0	11.5	
	25	290	2.1					1.4	4.6	5.8		22.8	12.7	
	32	290	2.1					1.5	5.1	6.2		28.8	14.5	
	10	270	2.0					0.8	3.4	4.6		9.4	9.8	
	12.5	270	2.0					1.0	3.8	4.9		11.9	11.0	
16	16	280	2.0	1.1	1.0	16	0.4	1.1	4.0	5.0	3.0	15.0	11.8	2
	20	280	2.1					1.3	4.1	5.2		19.3	13.0	
	25	290	2.1					1.4	4.6	5.8		24.0	14.5	
	32	290	2.1					1.5	5.1	6.2		30.5	16.0	
	10	280	2.1					0.8	3.4	4.6		11.0	12.0	
	12.5	280	2.1					1.0	3.8	4.9		13.6	13.3	
20	16	290	2.1	1.2	1.1	16	0.5	1.1	4.0	5.0	4.0	16.6	14.5	2
	20	290	2.2					1.3	4.1	5.2		21.3	16.0	
	25	300	2.2					1.4	4.6	5.8		26.3	17.5	
	32	300	2.2					1.5	5.1	6.2		32.5	19.5	
	10	290	2.2					0.8	3.4	4.6		12.5	15.0	
	12.5	290	2.2					1.0	3.8	4.9		15.0	16.0	
25	16	300	2.2	1.4	1.1	16	0.6	1.1	4.0	5.0	4.5	18.5	17.5	2
	20	300	2.3					1.3	4.1	5.2		23.0	19.0	
	25	300	2.3					1.4	4.6	5.8		28.0	20.3	
	32	300	2.3					1.6	5.1	6.2		34.0	22.0	

See page U3.

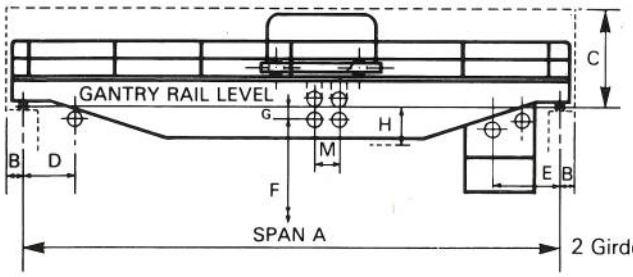
Double Hoist Cranes for Class II* Duty

To BS 466 and BS 2573: Part 1

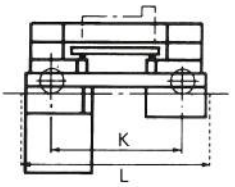
Courtesy NEI, Clarke Chapman Cranes Ltd

Dimensions are in metres except where marked

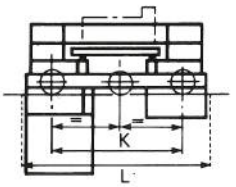
2 Girder type



2 Girder type



2 Wheel End Carriage



3 Wheel End Carriage
2 Girder Type

Capacity tonnes	Span A m	B mm	C m	D m	E m	F m	G m	H m	K m	L m	M m	Crab Wt. tonnes	Crane Wt. tonnes	Wheel Load tonnes	Wheels in end carr.
	10	280	2.1					0.8	3.5	4.6			12.5	13.0	
	12.5	280	2.1					1.0	3.8	4.9			16.0	14.0	
20/5	16	290	2.1	1.2	1.7	16	0.5	1.1	4.0	5.0	0.8	8.0	17.5	15.5	2
	20	290	2.2					1.3	4.1	5.2			23.0	17.0	
	25	300	2.2					1.4	4.6	5.8			28.0	18.5	
	32	300	2.2					1.6	5.1	6.2			36.0	20.0	
	10	300	2.3					0.8	4.0	5.0			15.0	20.0	
	12.5	300	2.3					1.0	4.2	5.2			18.0	22.0	
25/5	16	300	2.4	1.4	1.8	16	0.5	1.1	4.3	5.3	0.9	12	22.0	23.5	2
	20	300	2.4					1.3	4.4	5.5			26.5	25.0	
	25	300	2.4					1.4	4.6	5.8			32.5	27.0	
	32	300	2.4					1.6	5.1	6.2			41.0	30.0	
	10	320	2.5					0.8	4.0	5.0			17.0	24.0	
	12.5	320	2.5					1.0	4.2	5.2			20.0	25.0	
32/5	16	320	2.5	1.4	1.9	16	0.5	1.1	4.3	5.3	1.0	14	24.0	27.0	2
	20	330	2.6					1.3	4.4	5.5			28.5	28.5	
	25	330	2.6					1.4	4.6	5.8			35.0	30.5	
	32	330	2.6					1.6	5.1	6.4			43.0	33.0	
	10	320	2.5					0.8	4.2	5.3			18.5	24.0	
	12.5	320	2.5					1.0	4.4	5.5			22.0	26.0	
40/10	16	320	2.5	1.4	1.9	16	0.6	1.1	4.5	5.6	1.1	15	26.0	27.8	2
	20	330	2.6					1.3	4.7	5.7			30.5	30.0	
	25	330	2.6					1.4	4.8	6.0			37.0	32.0	
	32	330	2.6					1.6	5.1	6.4			45.0	34.5	
	10	330	2.6					0.8	4.3	5.5			21.0	30.0	
	12.5	330	2.6					1.0	4.6	5.8			25.0	32.0	
50/10	16	330	2.6	1.5	2.0	16	0.6	1.1	4.7	5.9	1.1	20	30.0	34.2	2
	20	340	2.7					1.3	4.9	6.1			35.0	37.0	
	25	340	2.7					1.4	5.0	6.2			41.0	40.0	
	32	340	2.7					1.6	5.2	6.4			50.0	43.0	
	10	380	3.0					0.8	4.6	5.8			28.0	36.0	2
	12.5	380	3.0					1.0	4.7	5.9			33.0	38.0	2
63/10	16	380	3.0	1.7	2.1	16	0.6	1.1	4.9	6.1	1.1	25	38.0	42.0	2
	20	380	3.0					1.3	5.0	6.2			44.0	45.0	2
	25	380	3.0					1.4	5.1	6.2			51.0	23.9	4
	32	380	3.0					1.6	5.2	6.4			60.0	26.0	4

Notes: 1. Weights of crane and crab are with unloaded hooks.

2. Wheel loads are for static conditions with maximum working load and minimum crab approach.

3. Above information is approximate only and is intended for guidance.

*See page U3.