

Over head crane design dimensions and loads

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Capacity ton	Span (L) m	Geometrical Dimensions					Weights		Wheel loads	
		a m	b m	c m	d m	e m	bridge ton	carriage ton	Rmax ton	Rmin ton
3	10	0.7	0.2	0.45	1.7	2.2	5.5	3	4.2	1.5
	15	0.7	0.2	0.45	1.7	3	8	3	4.9	2.1
	20	0.7	0.2	0.45	1.7	3.6	11	3	5.7	2.8
5	10	0.8	0.25	0.5	1.8	2.2	6	3.5	5.4	1.8
	15	0.8	0.25	0.5	1.8	3	9.5	3.5	6.4	2.6
	20	0.8	0.25	0.5	1.8	3.6	12.5	3.5	7.3	3.2
	25	0.8	0.25	0.5	1.8	4.2	16.5	3.5	8.2	4.3
10	10	0.9	0.3	0.55	1.9	2.2	8	4	8.4	2.6
	15	0.9	0.3	0.55	1.9	3	12	4	9.6	3.4
	20	0.9	0.3	0.55	1.9	3.6	16	4	10.7	4.3
	25	0.9	0.3	0.55	1.9	4.2	21	4	12	5.5
15	10	1	0.35	0.6	2	2.2	10	5	11.5	3.5
	15	1	0.35	0.6	2	3	14.5	5	13	4.2
	20	1	0.35	0.6	2	3.6	19.5	5	14.4	5.4
	25	1	0.35	0.6	2	4.2	25	5	15.9	6.6
	30	1	0.35	0.6	2	4.6	31	5	17.5	8
20	10	1	0.35	0.6	2.1	2.2	12	6	14.7	4.3
	15	1	0.35	0.6	2.1	3	17	6	16.4	5.1
	20	1	0.35	0.6	2.1	3.6	22.5	6	18	6.3
	25	1	0.35	0.6	2.1	4.2	29	6	19.7	7.8
	30	1	0.35	0.6	2.1	4.6	36	6	21.6	9.4

	10	1	0.4	0.7	2.3	2.2	15	8	20.7	5.8
	15	1	0.4	0.7	2.3	3	21	8	22.8	6.7
30	20	1	0.4	0.7	2.3	3.6	27	8	24.7	7.8
	25	1	0.4	0.7	2.3	4.2	35	8	27	9.5
	30	1	0.4	0.7	2.3	4.6	44	8	29.4	11.6
	10	1.3	0.4	0.7	2.5	2.2	19.5	11	31.4	8.8
	15	1.3	0.4	0.7	2.5	3	27	11	34.6	9.4
50	20	1.3	0.4	0.7	2.5	3.6	35	11	37.3	10.7
	25	1.3	0.4	0.7	2.5	4.2	44	11	40	12.5
	30	1.3	0.4	0.7	2.5	4.6	54	11	42.7	14.8

