



STT 7543-12

Experts in the field



Technical drawing of a crane system. The drawing shows a horizontal beam supported by a vertical column. The beam has a total length of 25.4m. The column height is 9.6m. The beam is divided into sections with weights of 12t, 9.16t, 6.96t, 5.7t, 4.7t, and 4.3t. The distances between the weights are 41.85m, 51.85m, 61.85m, 71.85m, and 76.85m. The beam is supported by a vertical column with a height of 9.6m. The beam is divided into sections with weights of 12t, 9.16t, 6.96t, 5.7t, 4.7t, and 4.3t. The distances between the weights are 41.85m, 51.85m, 61.85m, 71.85m, and 76.85m. The beam is supported by a vertical column with a height of 9.6m. The beam is divided into sections with weights of 12t, 9.16t, 6.96t, 5.7t, 4.7t, and 4.3t. The distances between the weights are 41.85m, 51.85m, 61.85m, 71.85m, and 76.85m.

Figure 10: Comparison of the design of the four towers. The figure shows four tower diagrams labeled YA850, YA851, XA850, and XA851. Each diagram displays the tower's height, segment lengths, and load capacities. The towers are compared in terms of their structural design and load-bearing capabilities.

Tower	Segment	Height (m)	Length (m)	Load Capacity (t)	
YA850	1	15.28	0.15	175	
	2	21.06	0.15	117	
	3	26.84	0.15	128	
	4	32.62	0.15	76	
	5	38.40	0.15	97	
	6	44.18	0.15		
	7	49.96	0.15		
	8	55.74	0.15		
	9	61.52	0.15		
	10	67.30	0.15		
	11	73.08	0.15		
	12	78.86	0.15		
	YA851	1	22.33	0.15	175
		2	28.11	0.15	117
3		33.89	0.15	128	
4		39.67	0.15	76	
5		45.45	0.15	97	
6		51.23	0.15		
7		57.01	0.15		
8		62.79	0.15		
9		68.57	0.15		
10		74.35	0.15		
11		80.13	0.15		
XA850		1	22.13	0.15	175
		2	27.91	0.15	117
		3	33.69	0.15	128
	4	39.47	0.15	76	
	5	45.25	0.15	97	
	6	51.03	0.15		
	7	56.81	0.15		
	8	62.59	0.15		
	XA851	1	22.33	0.15	175
		2	28.11	0.15	117
		3	33.89	0.15	128
		4	39.67	0.15	76
		5	45.45	0.15	97
		6	51.23	0.15	
7		57.01	0.15		
8		62.79	0.15		
9		68.57	0.15		
10		74.35	0.15		
11		80.13	0.15		

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Jib

Standard trolley 2/4 fall (when using  subtract 0.3t from the loads )

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Specifications Mechanisms

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Mechanisms	Motor type	Speeds m/min		Capacity t.	Rope lenght	Motor kW
Hoisting	75RCS30 ⬆️⬆️	2 fall	0-40	6	533m >533m ★	51.5
			0-80	3		
		4 fall	0-20	12		
			0-40	6		
	75LVF30R ⬆️⬆️	2 fall	0-40	6	570m >570m ★	55
			0-86	3		
		4 fall	0-20	12		
			0-43	6		
	102LVF30F ⬆️⬆️	2 fall	0-50	6	1000m >1000m★	75
			0-100	3		
		4 fall	0-25	12		
			0-50	6		
	120LVF30 ⬆️⬆️	2 fall	0-65	6	900m >900m ★	90
			0-130	3		
		4 fall	0-32.5	12		
			0-65	6		
Trolleying	XD185K ◀️■▶️	15-30-60				185N.m
	12DVF ◀️■▶️	0-60				185N.m
	12DCV ◀️■▶️	0-60				185N.m
Slewing	OMD85 ⬆️	0-0.7r/min				2 × 9
	RCV185 ⬆️	0-0.7r/min				3 × 185N.m
	37RVF ⬆️	0-0.7r/min				3 × 185N.m
Travelling	RT643 ◀️●▶️	16-32				6 × 2.6/5.2
	42TVF ◀️●▶️	0-32				6 × 2.6/5.2

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