



LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CK850-III - 85 TON CAPACITY

Winch Performance Data

Line speed and line pull based on Hino J08E-TM at 2,000 rpm.

Line speed and line pull based on single line. Line pull is not based on wire rope strength.

1. Front and rear drum

Line speed (ft/min)								
Layer		1	2	3	4	5	6	7
Line Pull (lbs)	0	394	420	446	472	499	525	Storage only
	5,000	394	420	446	472	499	525	
	10,000	353	353	353	353	353	353	
	15,000	235	235	235	235	235	235	
	17,000	208	208	208	208	208	208	
	20,000	177	177	177	177	179	182	
	25,000	141	146	148	149	149		
	32,000	115						
Storage Capacity (ft)		130	139	148	156	165	174	183

Rated Line Pull = 17,000 lbs

Maximum Line Pull = 32,000 lbs

Total Storage Capacity = 1,095 ft

2. Third drum (Optional)

Line speed (ft/min)								
Layer		1	2	3	4	5	6	7
Line Pull (lbs)	0	394	420	446	472	499	525	Storage only
	5,000	394	420	446	472	499	525	
	10,000	353	353	353	353	353	353	
	15,000	235	235	235	235	235	235	
	17,000	208	208	208	208	208	208	
	20,000	177	177	177	177	179	182	
	25,000	141	146	148	149	149		
	32,000	115						
Storage Capacity (ft)		130	139	148	156	165	174	183

Rated Line Pull = 17,000 lbs

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Total Storage Capacity = 1,095 ft

Wire Rope Specifications

Use	Construction	No load diameter	Length	Safety Factor	Required minimum breaking strength
Front drum	6 x 25 Filler IWRC Right hand lay, Regular lay	0.887" to 0.904" (22.54 mm to 22.97 mm)	869' (265 m)	3.5: 1	59,500 lbs (26,990 kg)
Rear drum	6 x 25 Filler IWRC Right hand lay, Regular lay	0.887" to 0.904" (22.54 mm to 22.97 mm)	673' (205 m)	3.5: 1	59,500 lbs (26,990 kg)
Third drum (Optional)	6 x 25 Filler IWRC Right hand lay, Regular lay	0.887" to 0.904" (22.54 mm to 22.97 mm)	869' (265 m)	3.5: 1	59,500 lbs (26,990 kg)
Boom drum	6 x 31 Warrington seal Right hand lay, Regular lay	0.639" to 0.653" (16.24 mm to 16.58 mm)	492' (150 m)	3.5: 1	47,180 lbs (21,400 kg)