



LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CK1600-II - 160 TON CAPACITY

Winch Performance Data

WINCH PERFORMANCE DATA

Front and Rear drum

Wire rope diameter: 26 mm
 Rated line pull: 29,500 lbs (13,380 kg)
 Maximum pull: 50,250 lbs (22,800 kg)
 Total storage capacity: 1,383 ft (422 m)

		Line Speed (ft/min)							
		Layer	1	2	3	4	5	6	7
Line Pull (lbs)	0		393	419	445	471	497	523	
	5,000		386	412	437	462	487	512	
	10,000		353	353	353	353	353	353	
	15,000		235	235	235	235	235	235	
	20,000		177	177	177	177	177	177	storage only
	29,500		120	120	120	120	120	120	
	35,000		101	101	101	101	101	101	
	40,000		90	90	90	90			
	50,250		73						
Storage Capacity (ft)			165	176	187	198	208	219	230

Third drum (optional)

Wire rope diameter: 26 mm
 Rated line pull: 29,500 lbs (13,380 kg)
 Maximum pull: 54,510 lbs (24,730 kg)
 Total storage capacity: 795 ft (243 m)

		Line Speed (ft/min)					
		Layer	1	2	3	4	5
Line Pull (lbs)	0		328	355	379	403	427
	5,000		326	349	372	395	418
	10,000		241	234	231	231	231
	15,000		154	154	154	154	154
	20,000		115	115	115	115	115
	29,500		78	78	78	78	78
	40,000		58	57	57	57	57
	50,000		46	46			
	54,510		43				
Storage Capacity (ft)			139	149	159	169	179

Wire Rope Specifications

	Construction	No Load Diameter	Working Length	Safety Factor	Required Minimum Breaking Strength
Front Drum	UNI rope (U3 x SeS48) Regular lay, Right hand lay	1.050" to 1.069" (26.65 mm to 27.17 mm)	886' (270 m)	3.5:1	103,250 lbs (46,840 kg)
Rear Drum	UNI rope (U3 x SeS48) Regular lay, Right hand lay	1.050" to 1.069" (26.65 mm to 27.17 mm)	820' (250 m)	3.5:1	103,250 lbs (46,840 kg)
Boom Drum	6 x 31 Warrington seal Regular lay, Right hand lay	0.807" to 0.822" (20.50 mm to 20.90 mm)	623' (190 m)	3.5:1	73,640 lbs (33,400 kg)
Third Drum (optional)	6x25 Filler IWRC Regular lay, Right hand lay	1.050" to 1.069" (26.65 mm to 27.17 mm)	787' (240 m)	3.5:1	103,250 lbs (46,840 kg)