



LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CK1000-III - 100 TON CAPACITY

Winch Performance Data

Note:

Line speed and line pull based on Hino P11C-0N at 2,000 rpm.

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

Front & Rear Drum

Wire Rope Diameter = 1"

Rated Line Pull = 25,100 lbs (11,380 kg)

Maximum Line Pull = 44,100 lbs (20,000 kg)

Total Storage Capacity = 1,023 ft (312 m)

		Line speed (ft/min)					
Layer		1	2	3	4	5	6
Line Pull (lbs)	0	394	420	449	476	505	storage only
	5,000	394	420	449	476	505	
	10,000	390	420	446	476	502	
	15,000	381	381	381	381	381	
	20,000	285	285	285	285	285	
	25,100	226	226	236	233	230	
	30,000	194	190	184	177	164	
	35,000	157	148	138	135		
	44,100	105					
Storage Capacity (ft)		145	155	165	176	186	196

Third Drum (for Load hoist)

Wire Rope Diameter = 1"

Rated Line Pull = 25,100 lbs (11,380 kg)

Maximum Line Pull = 44,100 lbs (20,000 kg)

Total Storage Capacity = 1,023 ft (312 m)

		Line speed (ft/min)					
Layer		1	2	3	4	5	6
Line Pull (lbs)	0	410	436	466	495	525	storage only
	5,000	406	434	463	492	520	
	10,000	356	356	356	356	356	
	15,000	237	237	237	237	237	
	20,000	178	178	178	178	178	
	25,100	142	142	142	142	142	
	30,000	119	119	119	127	134	
	35,000	105	112	118	125		
	44,100	103					
Storage Capacity (ft)		145	155	165	176	186	196

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	1.050" to 1.069" (26.65 mm to 27.17 mm)	771' (235 m)	3.5: 1	87,850 lbs (39,850 kg)
Rear drum	6 x 25 Filler IWRC Right hand lay, Regular lay	1.050" to 1.069" (26.65 mm to 27.17 mm)	525' (160 m)	3.5: 1	87,850 lbs (39,850 kg)
Third drum (Optional)	6 x 25 Filler IWRC Right hand lay, Regular lay	1.050" to 1.069" (26.65 mm to 27.17 mm)	623' (190 m)	3.5: 1	87,850 lbs (39,850 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)