

Wire Rope Specifications

Clamshell and Grapple
Boom No. 222HD With Open Throat Top

Wire Rope Lengths					
Boom Length		Front Drum Closing Line		Rear Drum Holding Line	
Ft.	Meters	Ft.	Meters	Ft.	Meters
40	12.2	185	56	125	38
50	15.2	205	62	145	44
60	18.3	225	69	165	50
70	21.3	245	75	185	56
80	24.4	265	81	205	62
90	27.4	285	87	225	69
100	30.5	305	93	245	75

Wire rope lengths are based on 65 Degree boom angle, 20 Ft. (6m) digging depth and 63 Ft. (19m) for reeving bucket.

Note: Rewrap on rear drum (holding line) will occur if hoisting distance exceeds approximately 90 Ft. (27m). 1st layer capacity is 112 Ft. (34m). 22 Ft. (7m) is deducted from the 1st layer capacity for 3 dead wraps per 27 in. (686 mm) diameter drum.

Rewrap on front drum (closing line) will occur if hoisting distance exceeds approximately 54 Ft. (16m). 1st layer capacity is 112 Ft. (34m). 22 Ft. (7m) is deducted from the 1st layer capacity for 3 dead wraps per 27 in. (686 mm) diameter lagging. 36 Ft. (11m) is deducted for closing bucket.

The occurrence of rewrap may vary depending on boom angle, digging depth, bucket size or length of wire rope chosen for the operation.

Normal operation may include rewrap on the controlled pressure closing line, but for maximum rope life, rewrap should not be allowed on the holding line.

Wire Rope Specifications		
Closing Line: (Front Drum)	1-1/4 in. (32 mm) -	6 x 31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC (MCC Part No. 719278) Minimum Breaking Strength 159,800 Lbs. (72 480 kg) Approximate Weight = 2.89 Lbs. Per. Ft. (4.30 kg/m)
Holding Line: (Requires Optional Rear High Line Pull Drum)	1-1/4 in. (32 mm) -	6 x 31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC (MCC Part No. 719278) Minimum Breaking Strength 159,800 Lbs. (72 480 kg) Approx. Weight = 2.89 Lbs. Per. Ft. (4.30 kg/m)

Refer to Drum and Lagging chart No. **9089-A**.