

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



WIRE ROPE SPECIFICATIONS

3900B

CLAMSHELL, GRAPPLE
BOOM NO. 8 OR NO. 9

3900 VICON

WIRE ROPE LENGTHS					
BOOM LENGTH		RIGHT DRUM CLOSING LINE		LEFT DRUM HOLDING LINE	
FT.	METERS	FT.	METERS	FT.	METERS
60	18.3	215	66	160	49
70	21.3	235	72	180	55
80	24.4	255	78	200	61
90	27.4	275	84	220	67
100	30.5	295	90	240	73
110	33.5	315	96	260	79
120	36.6	335	102	280	85

LENGTHS ARE BASED ON A 65 DEGREE BOOM ANGLE, 20' (6m) DIGGING DEPTH AND 55' (17m) FOR REEVING BUCKET.

REWRAP ON EQUAL SPLIT DRUMS WILL OCCUR IF HOISTING DISTANCE EXCEEDS APPROXIMATELY 50' (15m) WITH BOOM AT A 65 DEGREE ANGLE AND A DIGGING DEPTH OF 20' (6m). THE OCCURANCE OF REWRAP MAY VARY DEPENDING ON DUMPING HEIGHT, BOOM ANGLE, DIGGING DEPTH, BUCKET SIZE OR LENGTH OF WIRE ROPE CHOSEN FOR THE OPERATION.

NON-VICON

CLOSING LINE: 1" (26 mm) - 6 X 25 FILLER WIRE, IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 89,800 LBS. (40 730 kg).

HOLDING LINE: 1" (26 mm) - 6 X 25 FILLER WIRE, IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 89,800 LBS. (40 730 kg).

VICON

CLOSING LINE: 1-1/8" (29 mm) - 6 X 25 FILLER WIRE, IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 113,000 LBS. (51 260 kg).

HOLDING LINE: 1-1/8" (29 mm) - 6 X 25 FILLER WIRE, IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 113,000 LBS. (51 260 kg).

REFER TO DRUM AND LAGGING CHART NO. 6106.