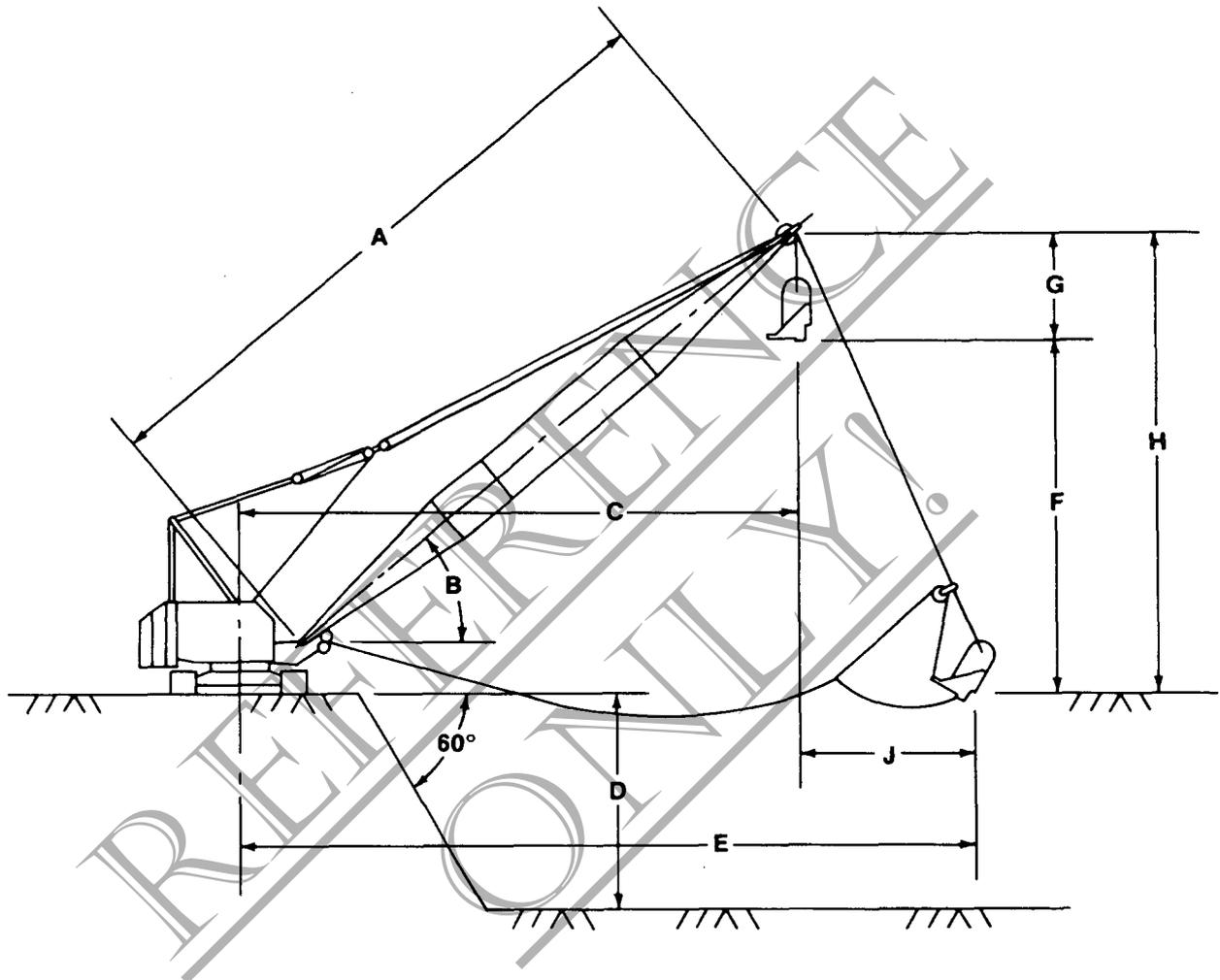




DRAGLINE RANGE DIAGRAM _____ 3900B, 3900 VICON

HINGED FAIRLEAD — WIDE AND NARROW DRUMS



A	BOOM LENGTH	FEET	60			70			80		
		METERS									
B	BOOM ANGLE	DEGREES	30	40	50	30	40	50	30	40	50
C	CL OF ROTATION TO CENTER DUMP	FEET	60	54	47	69	62	53	77	69	59
		METERS	18.3	16.5	14.3	21.0	18.9	16.2	23.5	21.0	18.0
D	DEPTH CUT APPROX.	FEET	45	34	21	60	47	32	74	61	44
		METERS	13.7	10.4	6.4	18.3	14.3	9.8	22.6	18.6	13.4
E	DIGGING REACH APPROX.	FEET	68	65	60	78	75	69	88	84	77
		METERS	20.7	19.8	18.3	23.8	22.9	21.0	26.8	25.6	23.5
F	DUMPING HEIGHT	FEET	23	32	39	28	38	47	33	44	54
		METERS	7.0	9.8	11.9	8.5	11.6	14.3	10.1	13.4	16.5
H	HEIGHT FROM GRADE TO CL OF BOOM POINT	FEET	38	47	54	43	53	62	48	59	69
		METERS	11.6	14.3	16.5	13.1	16.2	18.9	14.6	18.0	21.0
J	CASTING DISTANCE	FEET	8	11	13	9	13	16	11	15	18
		METERS	2.4	3.4	4.0	2.7	4.0	4.9	3.4	4.6	5.5

(Continued on Reverse Side)

MANITOWOC ENGINEERING CO.

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



HINGED FAIRLEAD — WIDE AND NARROW DRUMS

A	BOOM LENGTH	FEET	90			100		
		METERS	27.4			30.5		
B	BOOM ANGLE	DEGREES	30	40	50	30	40	50
C	CL OF ROTATION TO CENTER DUMP	FEET	86	77	66	95	85	72
		METERS	26.2	23.5	20.1	29.0	25.9	21.9
D	DEPTH CUT APPROX.	FEET	65	74	55	54	66	66
		METERS	19.8	22.6	16.8	16.5	20.1	20.1
E	DIGGING REACH APPROX.	FEET	99	94	87	109	104	95
		METERS	30.2	28.7	26.5	33.2	31.7	29.0
F	DUMPING HEIGHT	FEET	38	51	62	43	57	70
		METERS	11.6	15.5	18.9	13.1	17.4	21.3
H	HEIGHT FROM GRADE TO CL OF BOOM POINT	FEET	53	66	77	58	72	85
		METERS	16.2	20.1	23.5	17.7	21.9	25.9
J	CASTING DISTANCE	FEET	13	17	21	14	19	23
		METERS	4.0	5.2	6.4	4.3	5.8	7.0

The working ranges in the tables above are based on the following conditions:

1. Dimension 'F' is based on a 'G' dimension of 15' (4.6m).
2. Dimension 'D' is based on a 12' (3.7m) floor level bottom to fill the bucket and casting distance 'J' equal to approximately 1/3 the dumping height 'F'. The two dimensions are also based on wide and narrow drums with one layer of rope on wide drum and allowing a rewrap on narrow drum. Right

drum (drag) capacity — 86' (26.2m) of 1-1/4" (31.8mm) diameter rope — lagging No. 32784. The depth of cut, casting distance and digging reach may vary considerably depending on digging conditions, design of bucket and operator's skill. Maximum digging depths are attainable under ideal conditions and cannot be guaranteed.

3. New machines equipped with wire rope to dig to a depth of 40' (12.2m).

