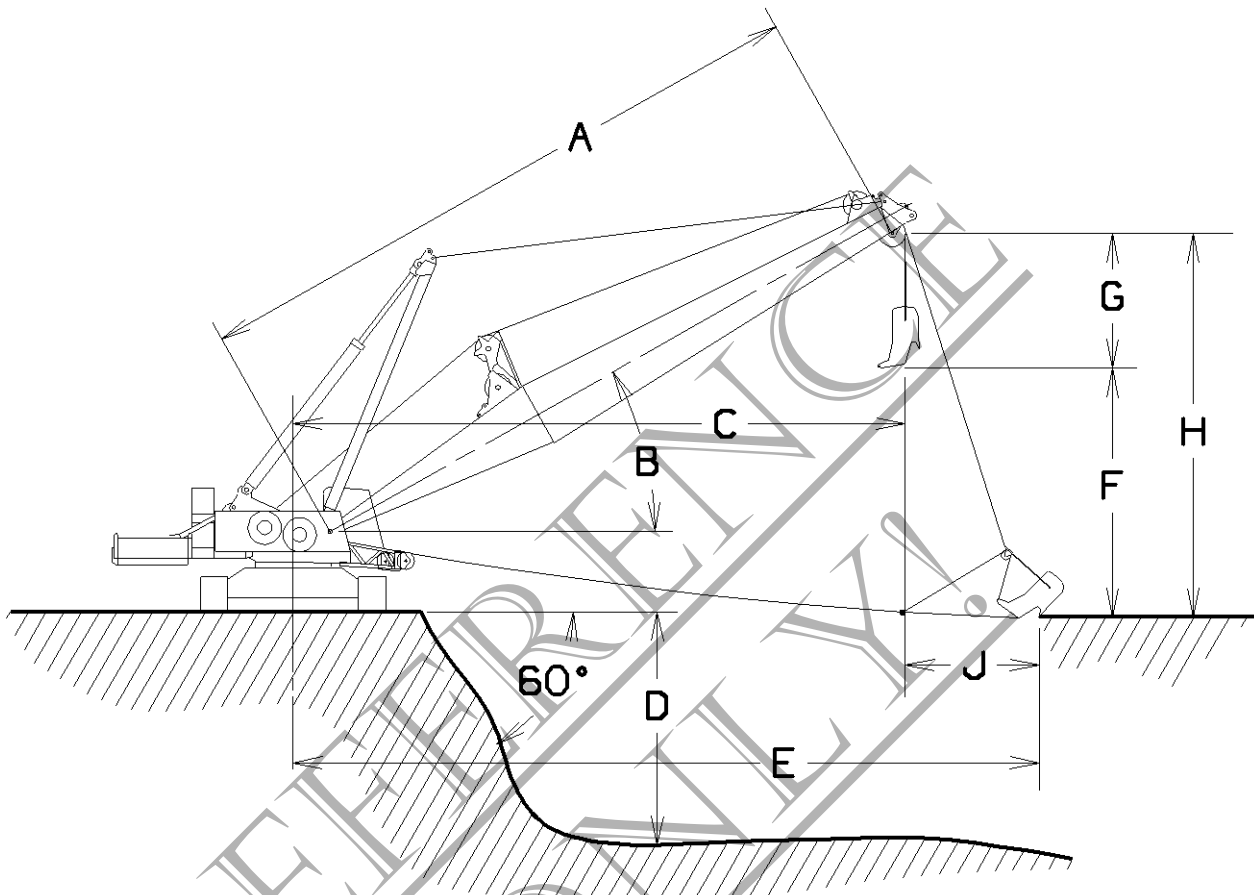


# Dragline Range Diagram

## 777 SERIES 1



A Boom Length	Ft.	60				70				80			
	Meters	18.3				21.3				24.4			
B Boom Angle	Deg.	30	35	40	45	30	35	40	45	30	35	40	45
C CL of Rotation to Center Dump	Ft.	57	55	52	48	66	63	60	55	75	71	67	62
	Meters	17.4	16.8	15.8	14.6	20.1	19.2	18.3	16.8	22.9	21.6	20.4	18.9
D Depth Cut (Approx.)	Ft.	41	36	31	25	56	50	44	37	71	64	57	49
	Meters	12.5	11.0	9.4	7.6	17.1	15.2	13.4	11.3	21.6	19.5	17.4	14.9
E Digging Reach (Approx.)	Ft.	62	62	60	58	73	72	70	67	84	82	80	76
	Meters	18.9	18.9	18.3	17.7	22.3	21.9	21.3	20.4	25.6	25.0	24.4	23.2
F Dumping Height	Ft.	17	22	26	30	22	27	32	37	27	33	39	44
	Meters	5.2	6.7	7.9	9.1	6.7	8.2	9.8	11.3	8.2	10.1	11.9	13.4
H Height from Grade to CL of Boom Point	Ft.	36	41	45	49	41	46	51	56	46	52	58	63
	Meters	11.0	12.5	13.7	14.9	12.5	14.0	15.6	17.1	14.0	15.8	17.7	19.2
J Casting Distance	Ft.	5	7	8	10	7	9	10	12	9	11	13	14
	Meters	1.5	2.1	2.4	3.0	2.1	2.7	3.0	3.7	2.7	3.4	4.0	4.3

# Dragline Range Diagram

## 777 SERIES 1

<b>A</b> Boom Length	Ft.	90				100			
	Meters	27.4				30.5			
<b>B</b> Boom Angle	Deg.	30	35	40	45	30	35	40	45
<b>C</b> CL of Rotation to Center Dump	Ft.	83	80	75	70	92	87	82	77
	Meters	25.3	24.4	22.9	21.3	28.0	26.5	25.0	23.5
<b>D</b> Depth Cut (Approx.)	Ft.	59	64	68	61	48	55	61	65
	Meters	18.0	19.5	20.7	18.6	14.6	16.8	18.6	19.8
<b>E</b> Digging Reach (Approx.)	Ft.	93	93	90	87	104	102	99	96
	Meters	28.3	28.3	27.4	26.5	31.7	31.1	30.2	29.3
<b>F</b> Dumping Height	Ft.	32	39	45	51	37	45	52	58
	Meters	9.8	11.9	13.7	15.5	11.3	13.7	15.8	17.7
<b>H</b> Height from Grade to CL of Boom Point	Ft.	51	58	64	70	56	64	71	77
	Meters	15.5	17.7	19.5	21.3	17.1	19.5	21.6	23.5
<b>J</b> Casting Distance	Ft.	10	13	15	17	12	15	17	19
	Meters	3.0	4.0	4.6	5.2	3.7	4.6	5.2	5.8

Working ranges are based on following conditions:

1. Dimension **F** is based on a **G** Dimension of 19 Ft. (5.8m).
2. Dimension **D** is based on a 12 Ft. (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 maximum drum capacity with one layer of rope. Front drum (drag) useable length - 72 Ft. (22m) of 1 in. (26 mm) diameter rope. Rear drum (hoist) capacity - 142 Ft. (43m) of 1 in. (26 mm) diameter rope. 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. Machines are equipped with wire rope to dig to a depth of 25 Ft. (8m), 35 Ft. (11m), 45 Ft. (14m), 55 Ft. (17m) and 45 Ft. (14m) for boom lengths of 60 Ft. (18.3m), 70 Ft. (21.3m), 80 Ft. (24.4m), 90 Ft. (27.4m) and 100 Ft. (30.5m) respectively.