



# **FLYSHEET**

## CRAWLER MOUNTED

Dimensions Working Ranges Lifting Capacities Specifications



# GENERAL INFORMATION ONLY

#### **DIMENSIONS AND WORKING RANGES**

Standard — 6' 8" Gauge, 10' 3" Long Overall CRAWLERS Intermediate — 7' 2" Gauge, 11' 0" Long Overall Long-Wide — 7' 7" Gauge, 12' 1" Long Overall

RADIUS	
B	P. P. S.
R O S	

		Standard Lower	Intermediate Lower	Long-Wide Lower
Basic boom length	Α	30′ 0″	30′ 0″	30' 0"
Boom angle	В			
Height of boom hinge pin	Y	5′0″	5′ 1″	5′ 2″
Radius of boom hinge pin	х	3′ 1″	3′ 1″	3′ 1″
Overall cab height	P	10′ 2″	10′ 3″	10′ 4″
Overall height, low gantry	P,	10′ 2″	10′ 3″	10′ 4″
Overall height, retractable gantry lowered	P <sub>2</sub>	10′ 11″	10′ 11″	11' 0"
Overall height, retractable gantry raised	P <sub>3</sub>	13′ 1″	13′ 2″	13′ 3″
Tailswing of counterweight "AB"	U.	8′ 3″	8′ 3″	8′ 3″
Tailswing of counterweight "ABC"	U	8′ 9″	8′ 9″	8′ 9″
Ground clearance under counterweight "AB"	N	3′ 4″	3′ 5″	3′ 6″
Ground clearance under counterweight "ABC"	N	3′ 1″	3′ 2″	3′ 3″
Crawler ground bearing length	0	8′ 8″	9′ 5″	10′ 6″
Center to center of track drive sprocket				
and idler roller	R	7′ 9″	8′ 6″	9′ 7″
Overall crawler length	s	10′ 3″	11' 0"	12′ 1″
Overall width		8′ 0″	l	
with 16" wide track shoes	l	8 U 8′ 8″	9′ 2″	9' 7"
with 24" wide track shoes		8 8	9' 2'	10' 1"
with 30" wide track shoes			9.8	
with 36" wide track shoes	*		7/ 40"	10′ 7″
Overall cab width		7′ 10″	7′ 10″	7' 10"
Minimum ground clearance		1′ 0″	1′ 1″	1′ 2″
Miscellaneous:				
Swing speed			4.9	r.p.m.

Travel speed ...... Low .96, High 2.1 m.p.h.

Approximate working weights with 30' lifting crane attachment, low gantry,

24" wide track shoes, but no bucket, hook block or tagline winder;

29,000#

#### **DRUM ROPE CAPACITIES** LINE SPEEDS AND LINE PULL

				FRONT	DRUM				1.5	REAR	DRUM				В	оомно	ST DRUM			
			ndard gging		le Line 1d Speed		um cities		andard gging	Sing Pull ar	le Line 1d Speed		um Cities		indard gging		le Line Id Speed		um cities	
Attachment	Wire Rope Dia.	Root Dia.	Groove	F.P.M. 1st Layer	Puli ibs. 1st Layer	1st Layer Cap.	Total Cap.	Root Dia.	Groove	F.P.M. 1st Layer	Pull lbs. 1st Layer	1st Layer Cap.	Total Cap.	Rost Dia.	Groove	F.P.M. 1st Layer	Pull lbs. 1st Layer	1st Layer Cap.	Total Cap.	Wire Rope Dia.
Crane	1/2"	9"	1/2"	135	14,200	34'	422'	9"	1/2"	135	13,300	34'	422'	9"	5/8"	135	13,300	20'	183'	1/2"
Clamshell	5/8"	11"	5/8"	164	11,700	42'	208′	11"	5/8"	164	11,000	42'	208						.:	
										•		1			1	THIRD	DRUM			1 1
Dragline	3/4"	10"	3/4"	154	12,500	31′	170′	11"	5/8"	164	11,000	42'	208'	9"	1/2"	136	13,750	35	422'	1/2"
												- 1		11"	1/2"	164	11,350	42′	320′	1/2"

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#### LS-58 CAPACITIES WITH LOW GANTRY Standard Lower

- PCSA CLASS 10-28

Intermediate Lower — PCSA CLASS 10-31

Long-Wide Lower

- PCSA CLASS 10-34

≪Refer to all NOTES Page 3
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(Retractable gantry required for booms over 40' long.)

		BOOM	21.12.20 amen	Point		RD LOWER	Point	INTERMED	IATE LOWER	Point	LONG-W	IDE LOWER
10' 77' 34' 2" 16,400 \$20,800 \$ 34' 3" 18,200 \$34' 3" 18,200 \$35' 90' 33' 9" 13,300 \$30' 9" 15,300 \$4,500 \$16' 2" 3,300 \$50' 25' 7" 5,400 \$50' 5.00 \$30' 9" 12,200 \$30' 9" 12,200 \$30' 9" 12,200 \$30' 9" 12,200 \$30' 9" 12,200 \$30' 9" 12,200 \$30' 9" 12,200 \$30' 10" 13,600 \$30'	Length		Angle						The second secon			
30' 15' 67' 32' 8' 9,000 15,000 33' 8" 13,700 12.00 33' 9" 15,300 35' 0" 15,000 32' 7" 10,800 25' 00' 56' 56' 4,400 5,800 25' 10' 6,800 8,000 25' 7" 5,400 5,000 16' 20' 3,800 16' 20' 11' 7,300 33' 0.0' 1,000 30' 26' 18' 11" 3,500 38' 00' 3,800 5,500 18' 3" 4,200 3,500 15' 77' 35' 38' 9" 12,200 15,600 38' 00' 13,800 18' 00' 39' 4,200 38' 00' 11' 15,200 39' 4" 11' 15,200 31,400 38' 00' 9,800 12' 80' 38' 11' 15,200 39' 00' 11' 17' 8,800 11',400 38' 00' 9,800 12' 80' 38' 11' 15,200 39' 00' 15' 00' 39' 00' 15' 00' 38' 11" 15,200 39' 00' 15' 00' 38' 11" 15,200 39' 00' 15' 00' 38' 11" 15,200 39' 00' 38' 10' 13,800 12' 80' 38' 11' 15,200 39' 00' 38' 11' 15,200 39' 00' 38' 11' 15,200 39' 00' 38' 11' 15,200 39' 00' 38' 11' 15,200 39' 00' 38' 11' 15,200 39' 00' 38' 0				34′ 2″	16,400	<b>20,800</b>		18,200	±23,000 ·		20,000	
207			73°		12,300							
25'   43'   25'   5"   4,400   5,600   25'   6"   4,900   5,000   16'   3"   5,000   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   16'   3"   4,200   5,400   15'   75'   38'   9"   12,200   15,600   38'   10'   15,000   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   38'   10'   15,200   35'   8"   6,500	30'											
107   291   181   17   3,500   2,600   181   27   3,800   5,000   181   37   4,200   2,5400   127   757   381   97   12,200   15,600   381   07   13,600   17,300   381   11   19,000   19,000   15,700   37   381   11   19,000   19,000   39,000												
107												
12'   75'   38'   9'   12,200   11,600   38' 10'   13,600   37,300   38' 11'   15,200   99,000   25' 00'   61'   35' 7'   5,900   7,700   35' 8'   6,500   38' 10'   10,700   13,500   25' 51'   32' 3'   43,000   5,700   32' 4'   4,800   5,300   32' 4'   4,800   5,300   32' 4'   4,800   5,300   32' 4'   4,800   5,300   35' 9'   7,200   5,300   35' 9'   7,200   3,500   35' 9'   7,200   3,500   35' 24'   19' 2'   2,700   3,700   19' 3'   3,100   4,000   19' 4'   3,500   5,300   35' 24'   19' 2'   2,700   3,700   19' 3'   3,100   4,000   19' 4'   3,500   4,500   12'   77'   43' 11'   12,100   15,500   44' 0'   13,500   12' 0' 0.5'   4,100   15' 4'   19' 12'   1,000   43' 3'   8,700   12' 40'   44' 1'   15,100   18,900   15'   73'   43' 2'   8,800   11,300   43' 3'   8,700   12' 40'   44' 1'   15,100   13,400   44' 0'   15,500   12' 0' 18'   44' 1'   15,100   13,400   44' 1'   15,100   18,000   44' 1'   15,100   18,000   44' 1'   15,100   18,000   44' 1'   15,100   18,000   44' 1'   15,100   18,000   44' 1'   15,100   18,000   44' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   18,000   45' 1'   15,100   15,000   15,000   15,000   15,000   15,000		30′	26°		3,500	4,600		3,800	20 H 20 D 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
15'   70'   37' 11"   8.900   11.400   38' 0"   9.800   12.500   38' 1"   10.700   13.500   35' 8"   5.900   37.000   35' 8"   6.500   6.400   35' 5"   5.300   6.800   32' 5"   5.300   6.800   32' 5"   5.300   6.800   32' 4"   4.800   6.500   32' 5"   5.300   6.800   32' 5"   5.300   6.800   35' 8"   40' 27' 8"   3.400   4.500   27' 4"   3.700   4.600   27' 5"   4.100   5.300   4.500   19' 4"   15' 100   15' 10												
35'   20'   61'   35'   7"   5.900   7.700   35'   8'   6.500   8.400   35'   9"   7.200   9.200   9.200   30'   40'   27'   3"   3.400   4.500   27'   4"   3.700   4.500   27'   5"   5.300   6.800   35'   44'   19'   2"   2.700   3.700   19'   3"   3.100   4.500   27'   5"   4"   1.00   5.300   35'   44'   19'   2"   2.700   3.700   19'   3"   3.100   4.500   27'   5"   4"   3.500   4.500   35'   44'   4"   16.200   20.600   44'   5"   18.000   22.800   44'   6"   19.800   24.800   12'   77"   43'   11"   12.100   15.500   44'   0"   13.500   7.200   44'   1"   10.600   13.400   25'   57'   38'   4"   4.200   5.600   38'   5"   4.700   5.200   38'   5"   5.200   44'   4"   10.600   13.400   25'   57'   38'   4"   4.200   5.600   38'   5"   4.700   5.200   38'   5"   5.200   38'   5"   5.200   58'   5"   5"   5"   5"   5"   5"   5"   5												
25'   51'   32' 2'   4.300   5.700   32' 4'   4.900   5.600   32' 5'   5.300   \$6.800   35' 3'   4.00   4.500   27' 4'   3.700   4.900   27' 5'   4.900   4.500   28' 800   44' 6'   3.500   4.												
30'   40'   27' 3"   3,400   4,500   27' 4"   3,700   4,900   27' 5"   4'' 1,000   5,800   4,500   10' 3"   3' 3.100   4,000   19' 3"   3,100   4,000   19' 3"   3,100   4,000   19' 3"   3,100   4,000   19' 3"   3,100   4,000   19' 3"   3,100   4,000   19' 3"   3,100   4,000   19' 3"   4,000   1,000	35′											
35'   24'   19'   2700   3,700   19'   3'   3,100   4,000   19'   4'   3,500   24,800   12'   77'   43' 11'   12,100   15,500   44' 0'   13,500   17,200   44' 1'   15,100   16,900   40'   20'   65'   41' 2''   8,800   11,300   44' 3'   3'   9,700   12,800   43' 4''   7,100   13,500   36'   30'   48'   34'   6''   3,300   4,400   34' 7'   3,600   48'   34'   6''   3,300   3,400   34' 7''   3,600   4,000   29'   2''   3,400   4,400   35'   37'   29' 0'   2,600   3,600   29' 1''   3,000   4,000   29' 2''   3,400   4,400   40'   23'   20'   3'   2,200   3,600   29' 1''   3,000   4,000   29' 2''   3,400   4,400   40'   23'   20'   3'   2,200   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   4''   2,400   3,500   26' 5'   2,700   3,600   20'   68'   48'   5''   8,700   11,200   48'   6''   5,100   48'   7''   10,500   18,800   45'   28''   4,600   44'   5''   4,600   48'   7''   10,500   13,300   40'   53'   36'   9'   2,500   3,500   36'   10'   2,300   3,200   36'   11''   3,300   3,500   36'   10''   2,300   3,500   36'   10''   2,300   3,500   36'   10''   2,300   3,500   36'   10''   2,300   3,500												
10'   80'   44'   4"   16,200   20,600   44'   5"   15,000   22,800   44'   6"   19,800   24,800   12'   77"   43' 11"   12,100   3,500   44'   0"   13,500   17,200   44'   1"   15,100   18,900   25'   57"   38'   4"   420'   5,800   7,600   41'   3"   6,400   8,300   41'   4"   7,100   3,100   35'   57"   38'   4"   4200   5,600   38'   5"   4,700   6,200   38'   6"   5,200   6,700   34'   3"   6,400   34'   3"   6,400   34'   6"   5,200   6,700   35'   37"   29'   0"   2,600   3,600   29'   1"   3,000   4,800   34'   8"   5,200   6,700   38'   6"   5,200   3,800   29'   1"   3,000   4,000   34'   8"   4,000   5,200   40'   23"   20'   3,200   3,000   20'   4"   2,400   3,300   20'   5"   3,400   4,000   34'   8"   4,000   5,200   3,600   29'   1"   3,000   4,000   34'   8"   4,000   5,200   3,600   29'   1"   3,000   4,000   34'   8"   4,000   5,200   3,600   29'   1"   3,000   4,000   3,200   20'   5"   3,400   4,000   3,200   40'   23"   49'   1"   12,000   15,400   49'   2"   13,400   17,100   49'   3"   15,000   18,800   45'   25'   61'   44'   4"   4,100   5,500   44'   5"   4,600   8,200   46'   11"   10,500   3,300   45'   25'   61'   44'   4"   4,100   5,500   44'   5"   4,600   8,200   46'   11"   7,000   9,000   35'   53"   41'   1"   3,200   4,300   41'   2"   3,500   4,000   41'   6"   5,100   6,600   45'   21'   21'   5"   7,700   2,400   21'   6"   1,300   3,000   30'   11"   3,300   5,100   45'   21'   21'   5"   7,700   2,400   21'   6"   1,300   3,000   30'   11"   3,300   4,300   4,300   41'   2"   3,500   3,000   30'   11"   3,300   4,300   41'   2"   3,500   3,000   30'   11"   3,300   4,300   4,300   41'   2"   3,500   3,000   30'   11"   3,300   4,300   4,300   41'   2"   3,500   3,000   30'   11"   3,300   3,000   3,000   30'   11"   3,300   3,000   30'   11"   3,300   3,000   30'   11"   3,300   3,000   30'					3,400							
12'   77"   43' 11"   12.100   15.500   44' 0"   13.500   17.200   44' 1"   15.100   18.900   13.400   20'   65"   41' 2"   5.800   7.600   41' 3"   6.400   8.500   41' 4"   7.100   9.100   33' 00'   35"   37"   29' 0"   2.600   3.600   29' 1"   3.000   4.000   29' 2"   3.400   4.400   4.000						Today . The same Anna Trans			C. L. TO De CARDON CONTRACTOR DE LA PROPERTIE			And The Very State Control of the Co
15'   73°   43'   2"   5,800   11,300   43'   3"   9,700   12,400   43'   4"   10,600   13,400												
40'   20'   65°   41' 2"   5800   7690   41' 3"   6,400   8,500   41' 4"   7,100   9,100     30'   48'   34' 6"   4,200   5,600   38' 5"   4,700   6,200   38' 6"   5,200   6,700     30'   48'   34' 6"   3,300   4,400   34' 7"   3,600   4,800   34' 8"   4,000   5,200     40'   23'   20' 3"   2,200   3,600   29' 1"   3,000   4,800   29' 2"   3,400   4,800     12'   79°   49' 1"   12,000   415,400   49' 2"   13,400   17,100   49' 3"   15,000   18,800     20'   68'   46' 9"   5,700   7,500   44' 15"   4,600   6,300   6,200   46' 11"   7,000   9,000     45'   25'   61°   44' 4"   4,100   5,500   44' 5"   4,600   6,100   44' 6"   5,100   6,600     30'   53'   34'   1"   3,200   4,300   41' 2"   3,500   4,700   41' 3"   3,900   5,100     45'   21'   21'   5"   1,700   2,400   36' 10"   2,900   36' 10"   2,900   36' 11"   3,900   3,500     46'   21'   21'   5"   1,700   2,400   21' 6"   1,900   2,700   21' 7"   2,200   3,000     45'   21'   21'   5"   1,700   2,400   21' 6"   1,900   2,700   21' 7"   2,200   3,000     45'   21'   21'   5"   1,700   2,400   53' 8"   9,500   3,000   36' 11"   3,000   3,000   36' 10"   3,000   3,000   36' 10"   3,000   3,000   36' 10"   3,000												
25'   57'   38'   4'   4200   5 600   38'   5'   4700   6 200   38'   6'   5,200   6,700   35'   37'   28'   0'   2,600   3,600   29'   1'   3,000   4,000   29'   2'   3,400   4,400   34'   7''   3,600   4,300   29'   2''   2,700   3,600   29'   2''   2,700   3,600   20'   4''   2,400   3,300   20'   5''   2,700   3,600   29'   2''   2,700   3,600   20'   4''   2,400   3,300   20'   5''   2,700   3,600   29'   2''   2,700   3,600   20'   4''   2,400   3,300   20'   5''   2,700   3,600   20'   3,600   20'   3''   2,700   3,600   20'   3''   15,000   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   5''   2,700   3,600   20'   3,000   45'   1''   10,500   13,300   45'   20'   25'   61*   44'   4"   4,100   5,500   44'   5"   4,600   6,100   44'   6"   5,100   6,600   35'   30'   35'   30'   9"   2,100   2,900   3'10"   2,900   3,900   36'   11"   3,300   4,300   40'   35'   30'   9"   2,100   2,900   30'   10"   2,900   3,900   36'   11"   3,300   4,300   40'   35'   30'   9"   2,100   2,900   30'   10"   2,300   3,200   30'   11"   2,600   3,500   45'   21"   21'   5"   1,700   2,400   21'   6"   1,900   2,700   35'   3''   1,400   3,500   3,500   35'   5''   3''   8,600   311,00   35'   8"   9,500   2,200   35'   9"   10,400   3,200   40'   43"   3	40,											
30'   48'   34'   6"   3,300   3,4'   7"   3,600   34'   80   34'   8"   4,000   5,200     40'   23'   29'   0"   2,600   3,000   20'   4"   2,400   3,300   20'   5"   2,700   3,600     15'   79'   48'   1"   12,000   15,400   49'   2"   13,400   17,100   49'   3"   15,000   18,600     15'   75'   75'   48'   5"   8,700   11,200   48'   6"   9,600   12,300   48'   7"   10,500   13,300     45'   25'   61'   44'   4"   4,100   5,500   44'   5"   4,600   6,100   44'   6"   5,100   6,600     30'   33'   41'   1"   3,200   4,300   41'   2"   3,500   4,700   41'   3"   3,900   5,100     45'   35'   36'   9"   2,100   2,900   30'   10"   2,900   3,000   3,000   3,000   3,000   3,000     12'   80'   54'   0"   11,900   15,500   44'   6"   1,900   3,000   3,000   3,000   3,000     12'   80'   54'   0"   11,900   15,300   54'   1"   13,000   1,700   54'   2"   14,900   18,700     15'   76'   53'   7"   8,600   11,100   53'   8"   9,500   12,200   53'   9"   10,400   13,200     25'   64'   49'   1"   4,000   5,400   50'   0"   4,500   6,000   50'   1"   5,000   6,500     30'   33'   34'   34'   3,300   4,000   34'   6"   3,400   43'   7"   3,300   5,200   3,000     12'   80'   54'   2"   1,100   2,400   21'   6"   1,900   2,200   53'   9"   10,400   13,200     26'   70'   52'   0"   5,600   7,400   52'   1"   6,200   6,000   50'   1"   5,000   6,500     35'   56'   44'   49'   1"   3,100   4,200   47'   2"   3,400   4,600   50'   4'   3,300   5,200   3,400     40'   43'   38'   8"   2,000   2,800   38'   9"   2,200   3,800   43'   7"   3,300   5,000     35'   50'   43'   5"   1,600   2,800   38'   9"   2,200   3,000   38'   10"   2,500   3,400     40'   43'   38'   8"   2,000   2,800   38'   9"   2,200   3,000   50'   1"   5,000   6,500     50'   70'   52'   2"   5,000   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000   50'   1"   5,000	40											
12'   79'   49'   71'   12,000   3,600   29'   7"   3,000   4,000   29'   2"   3,400   4,400   12'   79'   49'   1"   12,000   15,400   49'   2"   13,400   17,100   49'   3"   15,000   18,600   15'   75'   48'   5"   8,700   7,500   46'   6"   9,600   12,300   48'   7"   10,500   13,300   45'   25'   61'   44'   4"   4,100   5,500   44'   5"   4,600   6,100   44'   6"   5,100   5,600   40'   35'   33'   41'   1"   3,200   4,300   41'   2"   3,500   3,500   3,501   41'   3'   3,500   45'   21'   21'   5"   1,700   2,400   21'   6"   1,900   2,700   21'   7"   2,200   3,500   45'   21'   21'   5"   1,700   2,400   21'   6"   1,900   2,700   21'   7"   2,200   3,500   22'   7"   1,500   55'   43'   5"   2,500   3,400   43'   6"   4,500   4,5												
40'   23'   20'   3"   2,200   3,000   20'   4"   2,400   3,300   20'   5"   2,700   3,600     12'   79'   48'   5"   12,000   15,400   49'   2"   13,400   17,100   48'   3"   15,000   18,300     15'   75'   48'   5"   8,700   11,200   48'   6"   9,600   12,300   48'   7"   10,500   13,300     45'   25'   61'   44'   4"   4,100   5,500   44'   5"   4,600   6,100   44'   6"   5,100   6,600     30'   53'   41'   1"   3,200   4,300   41'   2"   3,500   4,700   41'   3"   3,900   5,100     45'   21'   21'   5"   1,700   2,400   21'   6"   1,900   2,700   21'   7"   2,200   3,500     45'   21'   21'   5"   1,700   2,400   21'   6"   1,900   2,700   21'   7"   2,200   3,000     12'   80'   54'   0"   11,900   15,300   54'   1"   13,300   17,000   54'   2"   14,900   18,700     15'   76'   53'   7"   8,600   11,100   53'   8"   9,500   12,200   53'   9"   10,400   18,700     25'   64'   49'   11"   4,000   5,400   50'   0"   4,500   50'   1"   5,000   50												
12' 79' 49' 1" 12,000												
15'   75'   48' 5'   8,700   11,200   48' 6''   9,600   12,300   48' 7''   10,500   13,300   45' 25' 61'   44' 4''   4,100   5,500   46' 10''   6,300   8,200   46' 11''   7,000   9,000   45' 6''   3,500   46' 10''   7,000   9,000   45' 6''   3,500   4,600   4,600   4,600   44' 6''   5,100   6,600   35' 45'   36' 9''   2,500   3,500   3,610''   2,900   3,900   36' 11''   3,300   4,300   41' 2''   3,500   4,700   41' 3''   3,300   4,300   41' 2''   3,500   4,700   41' 3''   3,300   4,300   40'   35'   30' 9''   2,100   2,900   30' 10''   2,300   3,200   30' 11''   2,600   3,500   45' 21'   21' 5''   1,700   2,400   21' 6''   1,900   2,700   21' 7''   2,200   3,500   15' 76'   53' 7''   8,600   11,000   53' 8''   9,500   12,200   53' 9''   10,400   13,200   20' 70'   55' 0''   5,600   7,400   55' 2''   6,200   8,900   35' 5''   47' 1''   3,100   4,200   4,500   50' 0''   4,500   5,000   50' 1''   5,000   8,500   35' 5''   47' 1''   3,100   4,200   47' 2''   3,400   4,600   47' 3''   3,800   5,000   35' 5''   50' 43' 5''   2,100   2,800   38' 9''   2,200   3,000   36' 10''   2,500   3,000   35' 5''   33' 33' 32' 2''   1,600   2,800   38' 9''   2,200   3,000   32' 4''   2,100   2,900   30' 6''   2,200   3,000   32' 4''   2,100   2,500   3,000   35' 5''   33'' 33'' 32''   1,600   2,300   32' 3''   1,800   2,500   35' 5''   3,300   4,200   55' 0''   5,000   55' 0''   5,000   5,000   35' 5''   33'' 32' 2''   1,600   2,300   32' 3''   1,800   2,500   32' 4''   2,100   2,900   32' 4''   3,000   35' 55''   33'' 32' 2''   1,500   2,200   22' 5''   1,800   2,500   35' 50'   33' 35' 5''   3,200   4,200   55' 10''   3,600   55' 10''	l		1						to 11 may and to a proposed on the said and a said			
45' 25' 68' 46' 8" 5,700 7,550 46' 10" 6,300 8,200 46' 11" 7,000 8,000 5,000 30' 53' 41' 1" 3,200 4,300 41' 2" 3,500 42' 5" 4,600 6,100 44' 6" 5,100 6,600 44' 6" 5,100 6,600 44' 6" 5,100 6,600 44' 6" 5,100 6,600 44' 6" 35' 35' 45' 36' 9" 2,500 3,500 36' 10" 2,900 3,900 36' 11" 3,300 4,300 4,500 45' 21' 21' 21' 5" 1,700 2,400 21' 6" 1,900 2,700 21' 7" 2,200 3,000 45' 21' 7" 2,200 3,500 21' 6" 1,900 2,700 21' 7" 2,200 3,000 15' 70' 2,900 15' 70' 2,900 15' 70' 70' 2,900 15' 70' 70' 2,900 15' 70' 70' 70' 70' 70' 70' 70' 70' 70' 70												
45' 25' 61' 44' 4" 4,100 5,500 44' 5" 4,600 6,100 44' 6" 5,100 6,600 30' 35' 45" 33' 41' 1" 3,200 4,300 41' 2" 3,500 4,700 41' 3" 3,900 5,100 4,000 41' 3" 3,900 5,100 4,000 45' 45' 21' 21' 5" 1,700 2,900 30' 10" 2,300 3,000 30' 11" 2,600 3,500 4,500 45' 21' 21' 5" 1,700 2,400 21' 6" 1,900 2,700 21' 7" 2,200 3,500 15' 76' 6,53' 7" 8,600 11,400 53' 8" 9,500 12,200 53' 9" 10,400 13,200 25' 64' 49' 11" 4,000 53' 8" 9,500 12,200 53' 9" 10,400 13,200 25' 64' 49' 11" 4,000 53' 8" 9,500 12,200 53' 9" 10,400 13,200 25' 64' 49' 11" 4,000 5,400 50' 0" 4,500 6,000 50' 1" 5,000 6,500 35' 5" 47' 1" 3,100 4,200 47' 2" 3,400 4,600 47' 3" 3,800 5,000 35' 5" 47' 1" 3,100 4,200 47' 2" 3,400 4,600 47' 3" 3,800 5,000 50' 35' 50' 43' 5" 2,400 3,400 43' 6" 2,800 3,800 43' 7" 3,200 4,200 45' 33' 32' 2" 1,600 2,200 32' 3" 1,800 2,600 32' 4" 2,100 2,200 3,400 45' 33' 33' 32' 2" 1,600 2,200 32' 3" 1,800 2,600 32' 4" 2,100 2,200 30' 63' 5" 45' 69' 60' 9" 5,200 60' 15' 5,200 62' 7" 5,200 62' 7" 5,200 62' 7" 5,200 62' 7" 5,200 62' 7" 5,200 62' 7" 5,200 62' 8' 69' 60' 9" 5,200 60' 10" 5,200 62' 7" 5,200 62' 7" 5,200 62' 7" 6,200 52' 3' 5,200 62' 7" 6,200 52' 3' 5,200 62' 7" 6,200 52' 3' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5,200 62' 7" 6,200 52' 5' 5' 5,200 62' 7" 6,200 52' 5' 5' 5,200 52' 5' 5' 5,200 62' 7" 6,200 52' 5' 5' 5,200 62' 7" 6,200 52' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5'												
30'   53'   41'   1"   3,200   4,500   41'   2"   3,500   3,700   36' 11"   3,300   5,100     40'   35'   30'   9"   2,500   3,500   30' 10"   2,300   3,200   30' 11"   2,600   3,500     45'   21°   21'   5"   1,700   2,400   21'   6"   1,900   2,700   21'   7"   2,200   3,000     12'   80°   54'   0"   11,900   15,300   54'   1"   13,900   12,200   53'   9"   10,400   13,200     15'   76°   53'   7"   8,600   11,100   53'   8"   9,500   12,200   53'   9"   10,400   13,200     20'   70°   52'   0"   5,600   7,400   52'   1"   6,200   8,100   52'   2"   6,900   6,900     25'   64°   49' 11"   4,000   5,400   55'   1"   6,200   8,100   52'   2"   6,900   6,500     35'   50°   43'   5"   2,400   3,400   43'   6"   2,800   3,800   43'   7"   3,200   4,200     40'   43°   33'   33'   2"   1,600   2,300   32'   3"   1,800   2,600   32'   4"   2,100   2,900     50'   30'   57°   47'   1"   3,100   2,300   32'   3"   1,800   2,600   32'   4"   2,100   2,900     50'   22'   74°   62'   6"   7200   63'   9"   1,800   2,600   32'   4"   2,100   2,900     50'   22'   74°   62'   6"   7200   63'   9"   1,800   2,500   32'   4"   2,100   2,900     15'   79°   63'   8"   8"   8"   8"   8"   8"   8"   8	45'											
35'   45'   36'   9"   2,500   3,500   36' 10"   2,900   3,900   36' 11"   3,300   4,300   4,500   45'   21'   5"   1,700   2,400   21'   6"   1,900   2,700   21'   7"   2,200   3,000   3,	70								4 700			
40'   35'   30'   9"   2,100   2,900   30' 10"   2,300   3,200   30' 11"   2,600   3,500												
45'   21'   21'   5"   1,700   2,400   21'   6"   1,900   2,700   21'   7"   2,200   3,000												
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$												
15'   76°   53'   7"   8,600   11,100   53'   8"   9,500   12,200   53'   9"   10,400   513,200									これをおけるので、 マングルを行うというになっている。			<b>318,700</b>
20'   70°   52' 0"   5,600   7,400   52' 1"   6,200   8,100   52' 2"   6,900   8,900										53′ 9″	10,400	
50'         64°         49'11"         4,000         5,400         50'         4,500         6,000         50' 1"         5,000         6,500           30'         57°         47' 1"         3,100         4,200         4,200         3,400         43' 6"         2,800         3,800         43' 7"         3,800         5,000           40'         43°         38' 8"         2,000         2,800         38' 9"         2,200         3,100         38' 10"         2,500         3,400           45'         33°         32' 2"         1,600         2,300         32' 3"         1,800         2,600         32' 4"         2,100         2,900           50'         20°         22' 3"         1,300         2,000         22' 4"         1,500         2,200         32' 5"         1,800         2,500           15'         79°         63' 8"         —         *10,900         63' 9"         —         12,000         63' 10"         —         13,000           20'         74°         62' 6"         —         7,200         62' 7"         —         7,900         62' 8"         —         8,700           25'         69°         60' 9"         —         5,200									8,100		6,900	
50'         30'         57°         47'         1"         3,100         4,200         47'         2"         3,400         3,600         3,600         47'         3"         3,800         5,000         42'         6"         2,800         3,800         47'         7"         3,200         4200 <td></td> <td>25'</td> <td>64°</td> <td>49′ 11″</td> <td></td> <td></td> <td>50′ 0″</td> <td></td> <td>6,000</td> <td></td> <td></td> <td></td>		25'	64°	49′ 11″			50′ 0″		6,000			
40'         43°         38' 8"         2,000         2,800°         38' 9"         2,200         3,100         38' 10"         2,500         3,400           45'         33°         32' 2"         1,600         2,300         32' 3"         1,800         2,600         32' 4"         2,100         2,900           50'         20°         22' 3"         1,300         2,000         22' 4"         1,500         2,200         22' 5"         1,800         2,500           15'         79°         63' 8"         —         10,900         63' 9"         —         12,000         63' 10"         —         13,000           20'         74°         62' 6"         —         7,200         62' 7"         —         7,900         62' 8"         —         8,700           25'         69°         60' 9"         —         5,200         60' 10"         —         5,800         60' 11"         —         6,300           30'         63°         58' 8"         —         4,000         58' 9"         —         4,400         58' 10"         —         4,800           40'         52°         52' 2"         —         2,600         52' 3"         —         2,900	50'		57°		3,100							
45'   33°   32'   2"   1,600   2,300   32'   3"   1,800   2,600   32'   4"   2,100   2,900		35′										
50'         20°         22' 3"         1,300         2,000         22' 4"         1,500         2,200         22' 5"         1,800         2,500           15'         79°         63' 8"         —         10,900         63' 9"         —         12,000         63' 10"         —         13,000           20'         74°         62' 6"         —         7,200         60' 7"         —         7,900         62' 8"         —         8,700           25'         69°         60' 9"         —         5,200         60' 10"         —         5,800         60' 11"         —         6,700           30'         63°         58' 8"         —         4,000         58' 9"         —         4,800           40'         52°         52' 2"         —         2,600         52' 3"         —         2,900         55' 11"         —         4,000           40'         52°         52' 2"         —         2,600         52' 3"         —         2,900         52' 4"         —         3,200           50'         39°         42' 4"         —         1,800         42' 5"         —         2,000         47' 11"         —         2,700           <												
15' 79° 63' 8"												
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		70′	17"	25′ 6″		600	25 /		800	20 <b>0</b>		1,000



### NOTES

#### Lifting Crane

- 1. For lifting 25,000 pounds with 1/2'' rope, six parts of 1/2'' type "A" hoist rope is required.
- Capacities shown are in pounds and are based on 75% of minimum tipping loads, with machine standing on firm level ground. Deduction must be made for weight of hookblock, hook, sling, grapple, etc.
- 3. Retractable gantry required for booms over 40 feet long.

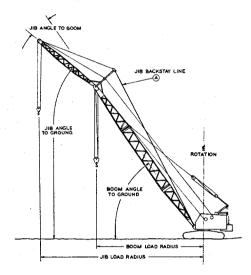
#### Dragline, clamshell and magnet

- Dragline capacities are equal to the crane capacities with counterweight "AB", except limited to a maximum of 6,000 pounds.
- Clamshell and magnet capacities are equal to 90°/o of the crane capacities with counterweight "AB", except limited to a maximum of 7,000 pounds.
- All dragline, clamshell and magnet capacities are for ideal conditions.
   The user must make allowances for rapid cycle operation, soft or uneven supporting surfaces, etc.
- Dragline, clamshell and magnet capacities include weight of bucket or magnet plus load.
- 5. Boom length should not exceed 40 feet.
- 6. Dragline operation with boom angle less than 35° is seldom advisable.

#### **LS-58 JIB CAPACITIES**

Jib Angle	ngle JIB LE	ENGTH
To Ground	20'	30'
80°	8,000	6,000
65°	7,000	5,000
50°	6,000	4,000
35°	4,500	3,000
20°	4,000	2,500

- Capacities shown are in pounds and are based on a Link-Belt Speeder jib with a cross section 16" wide by 16" deep and used with a 7'0" high jib mast in the proper working position.
- To determine jib angle to ground, deduct jib angle to boom from the boom angle to ground.
- The jib backstay line (A) is anchored to the boom base section.
- 4. The jib angle to boom must not exceed 30°.
- 5. Determining machine jib capacities
  - a. Add the length of boom plus length of jib used.
  - b. Determine the jib load radius.
  - c. Refer to lifting crane capacity chart and select the boom length that corresponds to the total length of boom and jib in (a) and the radius in (b).
    - (1) The jib capacity is equal to the lifting crane capacity unless restricted by the maximum jib capacities shown above.



- d. If the total length of boom and jib exceeds the longest boom length listed in the lifting capacity chart deduct 250 lbs. from the capacity shown for the longest boom length for the radius required in (b).
  - (1) The jib capacity is the resulting figure unless restricted by the maximum jib capacities shown above.
- 6. Determining lifting crane capacities with jib on boom:
  - a. When operating off the main boom peak sheaves with a jib on the boom, the following reductions in machine lifting capacities must be made.
    - (1) 20' jib 1,000 lbs.
    - (2) 30' jib 1,300 lbs.

# MAXIMUM BOOM-JIB MACHINE CAN LIFT OFF GROUND UNASSISTED

	Counte	rweight "AB"	Counter	weight "ABC"
LIFT OFF GROUND	Boom	Boom + Jib	Boom	Boom + Jib
Standard Lower Over ends Over sides	50 <b>′</b> 50 <b>′</b>	50' + 30' 50' + 30'	70 <b>'</b> 70'	60' + 30' 55' + 30'
Intermediate Lower Over ends Over sides	50 <b>′</b> 50 <b>′</b>	50' + 30' 50' + 30'	70 <b>'</b> 70'	65' + 30' 60' + 30'
Long-Wide Lower Over ends Over sides	50' 50'	50' + 30' 50' + 30'	70' 70'	70' + 30' 65' + 30'



GENERAL INFORMATION ONLY



### **GENERAL SPECIFICATIONS**

**CRAWLER MOUNTINGS**—

**LOWER FRAME** — All-welded, stress relieved, precision machined; line bored for travel shaft.

**ROLLER PATH WITH INTEGRAL RING GEAR** — Double-flanged, machined roller path. Swing pinion meshes with internal ring gear.

TRACTION SHAFT — Mounted in line bore in bronze bushings. Two-piece, joined with involute splined couplings; powered through bevel gears, enclosed in oil; sprockets on end of shaft chain drive the track chain sprocket inside of frames; travel-steer jaw clutches splined to shaft. All shaft components are mounted within the lower frames.

**POWER HYDRAULIC TRAVEL-STEER** — For travel or steer, jaw clutches splined to traction shaft are power hydraulically engaged with jaws on brake drums, releasing the spring applied steer-digging brakes. Brake drums are splined to shaft. Jaw clutches and brakes are inter-connected so that brakes are not released until jaw clutches are preloaded or fully engaged.

SIDE FRAMES — Side frames are welded to cross axles.

#### **UPPER**

**UPPER FRAME** — All-welded, stress relieved, precision machined unit. Side housings bolted to upper frame.

TURNTABLE ROLLERS — Four adjustable, heat-treated, conical, hook-type rollers mounted on bronze bushings or optional anti-friction bearings. Two individual pair mounted both front and rear. Six rollers optional, two equalized pair in front and two individual rollers in rear, available with bronze bushings or anti-friction bearings.

**TRANSMISSION** — Link-Belt quadruple roller chain enclosed in oil tight chain case with oil drip lubrication. Engine pinion and chain wheel have machine-cut teeth.

**REDUCTION SHAFT** — Two-piece shaft, joined by an involute splined coupling mounted in side housings on antifriction bearings.

Two Drive Pinions — Heat-treated, machine cut teeth, involute splined to reduction shaft. Pinions mounted outside side housings.

**CLUTCHES** — Speed-o-Matic power hydraulic actuated for swing, travel, operating drums, boomhoist and optional load lowering. Internal expanding two-shoe type, aluminum alloy shoes; 17<sup>1</sup>/<sub>4</sub>" diameter, 4" face width. Load lowering drum clutch 11" diameter, 3" face width. Load lowering clutches not available with gear-driven two-speed hoist.

Spiders — Involute splined to horizontal shafts.

DRUMS - Front, rear, and third operating drums (optional).

Shafts — Mounted in line bores on anti-friction bearings. Rear drum shaft only extended to accommodate optional load lowering clutches. Special shaft required to accommodate two-speed drums.

Spur Gears — Machine-cut teeth; mounted on antifriction bearings on shaft.

Clutch Drums — Bolted to spur gears.

# GENERAL INFORMATION ONLY

One-piece track-chain drive sprocket mounted on bronze bushings. Chain driven from sprocket on traction shaft; one per side frame. Track sprocket lugs mesh with shoe lugs; track sprocket axle adjusted for chain take-up. Track idler roller mounted on bronze bushings; one per side frame; axle adjusted for track take-up.

TRACKS — Sixty shoes on standard lower; sixty-four shoes on intermediate lower; seventy shoes on long-wide lower; heat-treated, self-cleaning, multiple-hinged shoes. Track shoes joined by full floating pin. Ground contact area: Standard lower — 16 in. shoes, 3,300 sq. in.; 24 in. shoes, 5,000 sq. in.; Intermediate lower — 24 in. shoes, 5,400 sq. in.; 30 in. shoes, 6,750 sq. in.; Long-Wide lower — 24 in. shoes, 6,100 sq. in.; 30 in. shoes, 7,550 sq. in.; 36 in. shoes, 9,100 sq. in.

**TRACK ROLLERS** — Standard lower, six rollers; Intermediate lower, seven rollers; Long-Wide lower, eight rollers; heat-treated, mounted on sintered iron bushings per side frame. Optional track rollers with dirt seals for increased protection of bushings and axles available. Two track carrier rollers per side frame.

**Brakes** — Two-piece, external contracting band, mechanically foot pedal operated, front, rear drum 18" diameter, 3" face width.

Brake Drums — Involute splined to drum shaft.

**Drum Laggings** — Two-piece, removable; bolted to brake drum.

**DRUM ROTATION INDICATOR (Optional)** — Mounted on control stand. Dial actuated by flexible shaft from front and rear main operating drum shafts.

TWO-SPEED FRONT AND REAR DRUMS (Optional):

Gear-Driven Hoist Only — Intermediate gears installed in side housings convert two-shoe load lowering clutches to high-speed hoist clutches; hoist rope speed increased 100% over standard speeds.

**HORIZONTAL SWING-TRAVEL SHAFT** — Mounted in line bore on anti-friction bearings.

**Spur Gears** — Machine-cut teeth. Mounted on shaft on anti-friction bearings.

Bevel Gear - Involute splined to shaft.

INDEPENDENT SWING-TRAVEL SHAFT (Optional) — Mounted in line bore on anti-friction bearings.

**Spur Gears** — Machine-cut teeth. Mounted on shaft on anti-friction bearings.

Bevel Gear — Involute splined to shaft.

INDEPENDENT BOOMHOIST — Spur gear driven with precision boom raising and lowering through optional lowering clutch or ratchet. A rope drum locking pawl, manually controlled from operator's position, is provided.

Shaft — Mounted in line bore on anti-friction bearings.

Spur Gears — Machine-cut teeth mounted on anti-friction bearings on shaft.



# GENERAL INFORMATION ONLY



Rope and Brake Drum — Involute splined to shaft. Ratchet wheel and 16'' diameter  $3^{1/4}''$  face width brake drum are cast integral.

Brake - External contracting band, 16" diameter, 3" face width; spring applied and power hydraulically released.

BOOMHOIST LIMITING DEVICE - When the boom approaches minimum radius, it actuates a diverter valve located in front of the control console, releasing the boom raising clutch, and automatically applying the spring applied boomhoist brake.

VERTICAL SWING SHAFT - Mounted in line bore on bronze bushings.

Spur Gear — Involute splined to shaft: machine-cut teeth.

Swing Pinion — Involute splined to shaft; teeth mesh with internal teeth of ring gear.

SWING BRAKE (Optional) - Mounted on the right hand platform inside cab. Two-directional, external contracting band; spring-applied and power hydraulically released. Vertical shaft, with swing brake drum splined to the top and a standard swing pinion splined to the bottom.

SWING LOCK — Mechanically controlled pawl engages with internal teeth of ring gear.

GANTRY - Mounted to upper to support bail, boom suspension system, and two rope guides.

Low Gantry — Standard.

Retractable Gantry — Optional — Required for booms over 40 feet long.

Bail — Pinned to gantry frame. Contains two sheaves with bronze bushings for 6-part boomhoist (low gantry), and three sheaves with bronze bushings for 8part boomhoist (retractable gantry). 4-part boomhoist for hoe and shovel.

CAB — Operator's door, rear doors and front window slide on ball bearing rollers. Full-vision operator's compartment with safety glass panels. A 5 lb. dry chemical fire extinguisher and electric horn warning device are furnished as standard.

COUNTERWEIGHTS - Counterweight "A" is not removable. Counterweights "B" and "C" are removable and held in position by bolts.

Ctwt. "A" - Standard for shovel.

Ctwt. "AB" - Standard for hoe, crane, dragline and clamshell.

Ctwt. "ABC" — Optional for lifting crane only.

2,900 lb. Ctwt. "A"

Waukesha 195GK

6,000 lb. Ctwt. "AB" 9,600 lb. Ctwt. "ABC"

2.100 lb. Ctwt. "A"

5,200 lb. Ctwt. "AB" 8,800 lb. Ctwt. "ABC" General Motors 3030C (3-71)

CONTROL SYSTEM — Speed-o-Matic power hydraulics;

an open system. Operating pressure is transmitted through oil to all operating two-shoe clutch cylinders, swing brake power steer, and boomhoist drum brake cylinders. The system includes a pump to provide a constant flow of oil, an accumulator to maintain operating pressure and variable pressure operator-controlled valves to regulate this pressure to the cylinders.

Pump — Vickers; rated at 4.7 g.p.m. at 1,200 r.p.m.

Oil Filter - Link-Belt Speeder; replaceable Skinner ribbon-type filter element.

Relief Valve - Link-Belt Speeder; set to operate at 1,250 p.s.i.

Unloader Valve - Link-Belt Speeder; set to unload pump at a maximum 1,050 p.s.i. and to load pump when pressure drops below 900 p.s.i.

Accumulator - Link-Belt Speeder; piston-type, precharged with nitrogen gas to 650 p.s.i.

Sump Tank - Link-Belt Speeder; 7 gal. capacity with filter and strainer assembly.

Control Valves - Link-Belt Speeder; variable pressure type.

ENGINES - Full pressure lubrication, oil filter, air cleaner, hour meter. 36 gallon capacity fuel tank with fuel gauge, and flame arrester fill unit.

Foot Throttle — Optional.

Hand Throttle Control — Optional — Twist type, mounted on swing control lever.

	Waukesha 195GK	GM 3-71 (3030C)
Number of Cylinders Bore and Stroke (inches) Piston Displacement	6 4¹/8 x 4	3 4 <sup>1</sup> / <sub>4</sub> x 5
(cubic inches)	320	212.7
High Idle Speed, r.p.m.	1968	1480
Full Load Speed, r.p.m.	1790	1340
Net Engine H.P. at Full Load Speed	62	62
Peak Torque, lbs. ft. Peak Torque, r.p.m.	213 800	246 1050
Electrical System Batteries	12 volt 2 — 6-volt	12 volt 2 — 6-volt
Clutch-Type	Friction Twin Disc C-110-P2	Friction Twin Disc SP111-HP1
Transmission —		
No. chain wheel teeth	164	123
No. engine pinion teeth	19	19



#### FRONT END CRANE BOOM EQUIPMENT



**BOOM** — Two-piece 30' total length, 15' upper and lower sections; 22" deep and 243/4" wide at connections. Chord angles, alloy steel, 2" x 2" x 1/4".

Boomfoot - 1" wide on 321/2" centers.

Boompoint Machinery - Three 12" root diameter sheaves mounted on anti-friction bearings on boompeak shaft. Two sheaves optional.

Connections — Bolted with cap screws standard. Pin connections to permit easy removal and addition of extensions, optional.

BOOM EXTENSIONS — Available in 5', 10' and 20' lengths with proper length pendants.

BOOM BACKSTOPS - Optional - Dual, rigid type with spring-loaded bumpers.

**BOOMHOIST BRIDLE** — Serves as a connection between the pendants and live boomhoist rope. Bridle contains three or four 8" root diameter sheaves mounted on bronze bushings for 6-part or 8-part boomhoist.

JIB - 20' two-piece with 10' upper and lower sections; 10' extension available for 30' jib. Jib is 16" wide and 16" deep at the connections; chord angles 2" x 2" x  $\frac{3}{16}$ " for lower, upper and extension. Jib and extension are bolted.

# GENERAL INFORMATION ONLY

Jib Mast - 7' high, mounted on jib base section; two deflector sheaves mounted on needle bearings for jib hoist line within the mast; two equalizer sheaves for jib frontstay and jib backstay lines mounted to top of mast:

Jib Backstop — Wire rope type.

Peak Sheave — Mounted on anti-friction bearings.

Peak Shaft - Anchor is provided at peak of jib for two-part jib hoist line. Jib frontstay line anchors are suspended from shaft.

FAIRLEADER — Full-revolving type with barrel, sheaves and guide rollers mounted on anti-friction bearings.

TAGLINE WINDER - Rud-o-Matic Model 630; spring wound drum type mounted on crane boom. Rope pull off drum - 40' to 50' from neutral.

BOOM ANGLE INDICATOR - Mounted on boom near base.

HOIST LINE DEFLECTOR ROLLERS - To deflect main hoist line over top of boom. Required when third drum rope passes over crane boom. Rollers mounted on antifriction bearings, following numbers recommended: One through 35'; two through 55'; three through 70'.

#### **WIRE ROPE**

#### TYPE AND SIZE USED

Live Boomhoist - Type "A", 1/2" dia.

Main hoist — Type "A", 1/2" dia.

Jib Hoistline — Type "K", 1/2" dia.

Dragline hoist — Type "K", 5/8" dia.

Dragline inhaul — Type "D", 5/8" dia.

Clamshell holding — Type "A", 5/8" dia.
Clamshell closing — Type "A", 5/8" dia.
Tagline — Type "A", 5/8" dia.
Jib staylines — Type "A", 1/2" dia.

Boom pendants — Type "F", 3/4" dia.

#### WIRE ROPE TYPES

Type "A" - 6 x 25 (6 x 19 class), filler wire, improved plow steel, preformed, fiber center, right lay, regular

Type "D" — 6 x 25 (6 x 19 class), filler wire, improved plow steel, preformed, independent wire rope center,

right lay, lang lay. **Type "F"** — 6 x 25 (6 x 19 class), filler wire, improved plow steel, preformed, independent wire rope center, right lay, regular lay.

Type "K" — 18 x 7 non-rotating, improved plow steel, fiber center.

#### MAIN HOIST LINE LENGTH

Parts		ВО	OM LENG	STH	
of Line	30'	40'	50'	60'	70′
1	70'	90'	110′	130′	150′
. 2	110'	140'	170'	200'	230'
3	140'	180'	220'	260'	300'
4	180'	230'	280'	330′	380′
- 5	220'	280'	340'	400 <b>′</b>	460'
6	260'	330'	400'	470′	540′

#### LIVE BOOMHOIST ROPE LENGTH

Low Gantry	_	6	pt.	Line	 140'
High Gantry					

#### JIB HOISTLINE LENGTH

	Parts		воо	M LEN	IGTH	
, i	of Line	30'	40'	50'	60'	70'
20' Jib	1 2	115′ 170′	135′ 200′	155' 230'	175' 260'	195 <b>′</b> 290 <b>′</b>
30' Jib	1 2	135' 200'	155' 230'	175 <b>′</b> 260 <b>′</b>	195' 290'	215' 320'

#### DRAGLINE ROPE LENGTH

	В	OOM LENGT	H
	30'	35'	40'
Hoist	80'	88'	94'
Inhaul	38'	43'	48'

#### CLAMSHELL ROPE LENGTH

	BOOM LENGTH		
	30′	35′	40'
Holding Closing	76′ 106′	86 <b>'</b> 116 <b>'</b>	96 <b>'</b> 126 <b>'</b>
Tagline	Furnished with Rud-O-Matic		

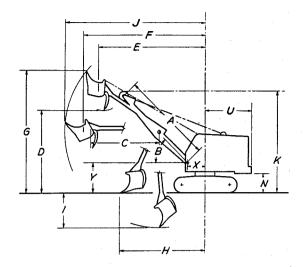
#### JIB MAST STAYLINES

#### BACKSTAY

Boom Length	20' Jib	30' Jib
30'	26'	26'
40 <b>′</b>	36'	36' 46' 56'
50'	46'	46 <b>′</b>
60 <b>′</b>	56'	56'
70 <b>′</b>	66'	66′

FRONTSTAY - For all booms with 20' jib, 22' long; with 30' jib, 32'.





#### SHOVEL WORKING RANGES\*

		Standard Lower	Intermediat Lower
Dipper capacity, cubic yards (struck measure)		5/8	5/8
Boom length, center to center of pins Effective boom length (center of	A	16′ 0″	16′ 0″
boomfoot pin to rope pitch line of peak sheave)		16′ 9″	16′ 9″
Dipper stick length, effective Dipper stick length, overall	C	12′ 3″ 13′ 0″	12′ 3″ 13′ 0″
Ground clearance under counter- weight "A"	N	3′ 5″	3′ 6″
Tailswing of counterweight "A"	U	7′ 8″	7′ 8″
Radius of boom hinge pin Height of boom hinge pin	X	3′ 1″ 5′ 0″	3′ 1″ 5′ 1″

_			idard wer	Intermediate Lower	
Boom Angle	В	60°	40°	60°	40°
Maximum dumping height	D	17' 6"	12′ 11″	17' 7"	13' 0"
Dumping radius maximum					
height	E	16′ 0″	20' 6"	16' 0"	20' 6"
Maximum dumping radius	F	19′ 11″	21′ 11″	19' 11"	21' 11"
Maximum cutting height	G	24' 8"	19' 6"	24' 9"	19' 7"
Maximum clean-up radius	H	13′ 5″	14' 9"	13′ 5″	14′ 9″
Maximum digging depth		5′ 0 <b>″</b>	6' 7"	4′ 11″	6' 6"
Maximum cutting radius	J	22′ 11″	24' 10"	22' 11"	24' 10"
Boom clearance height	K	19' 8"	16′ 2″	19′ 9″	16′ 3″
Miscellaneous:					
Swing Speed 4.9 r.p.m.					

 Iow gantry, counterweight "A":
 29,300 lbs.

 Standard Lower
 29,300 lbs.

 Intermediate Lower
 30,650 lbs.

#### SHOVEL ATTACHMENT (Independent chain crowd)

**BOOM** — All-welded, box type construction, 16' from center of boomfoot pin to center of head shaft. Boomfoot machinery supports welded integral with boom. Boom mounts in upper frame lugs in bronze bushings.

Boomfoot and Boomfoot Machinery — Boomfoot is 1" wide on 321/2" centers; double sprocket, mounted on bronze bushing, on shaft, in line bore, at base of boom, carries crowd and retract chains. Chain tightener assembly is mounted on top of boom at the base.

**Boomhead Machinery** — One 16" root diameter sheave mounted on bronze bushing on headshaft; bail with two  $6^{1}/2^{"}$  root diameter boomhoist sheaves mounted to head shaft.

Shipper Shaft Machinery — Shaft is mounted on bronze bushings in boom hubs; chain sprocket and crowd pinions are involute splined to shaft; dipper trip drum and sheave are mounted on bronze bushings on shipper shaft.

**Saddle Block** — Mounted to shipper shaft on bronze bushings; two rollers mounted on bronze bushings guide dipper stick on each side.

**DIPPER STICK** — All-welded, box type construction; effective working length 12' 3"; pitch brace and bucket connections have steel, heat treated bushings.

**PADLOCK ASSEMBLY** — Cast steel side frames with one 16" root diameter sheave mounted on bronze bushing; padlock assembly pinned to dipper.

**DIPPER** — <sup>5</sup>/<sub>8</sub> cubic yard L-BS welded high-strength steel; four all manganese steel replaceable teeth.

**DIPPER TRIP** — Speed-o-Matic power hydraulic cylinder mounted near base of boom actuates a wire rope running over a sheave on the shipper shaft to a latch on the dipper door. Dipper is dumped by a slight side movement of the hoist lever on the control console.

CROWD AND RETRACT — A split sprocket on the front drum shaft, through utilization of hoist and lowering clutches, provides the crowd and retract action. A heavy-duty chain with provisions for tightening runs from the split sprocket on the drum shaft to a double sprocket at the base of the boom. A second heavy-duty chain goes from the double sprocket over a chain tightener to drive the shipper shaft. The shipper shaft has two pinions that mesh with the racks on the dipper stick to power move the dipper stick for crowd and retract. Crowd and retract action is actuated by one lever on the control console.

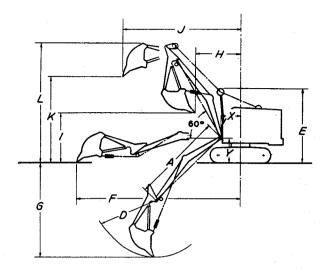
#### WIRE ROPE

**Boomhoist** — 4 part line,  $\frac{1}{2}$ " diameter, Type A 100 ft. **Hoist** — 2 part line,  $\frac{5}{8}$ " diameter, Type A 62 ft. **Dipper Trip** —  $\frac{5}{16}$ " diameter, Type B 25 ft.



<sup>\*</sup>Long-Wide Lower not recommended for shovel.





#### HOE WORKING RANGES

		Standard Lower	Intermediate Lower	Long-Wide Lower	
Bucket capacity, cubic yards		5/8	5/8	5/8	
Bucket cutting width	1	321/2"	32 <sup>1</sup> /2"	321/2"	
Boom length	Α	16′ 6″	16′ 6″	16' 6"	
Average sweep radius	D	9′ 10″	9′ 10″	9′ 10″	
Height of hoe mast	E	13′ 7″	13′ 8″	13' 9"	
Maximum digging radius	F	29′ 7″	29′ 7″	29′ 7″	
Maximum digging depth					
(with boom at 55°) (1)	G	19' 0"	18′ 11″	18' 10"	
Maximum digging depth					
(with boom at 45°) (1)	G1	17′ 2″	17′ 1″	17' 0"	
Radius beginning of dump	Н	8′8″	8′ 8″	8′ 8″	
Ground clearance,					
dumping cycle	1	9′ 3″	9′ 4″	9′5″	
Clearance radius, end					
of dump	J	21′ 2″	21′ 2″	21′2″	
Ground clearance, end					
of dump	K	15′ 6″	15′ 7″	15′ 8″	
Overall height, end of dump	L	20′ 6″	20′ 7″	20' 8"	
Radius of boom hinge pin	Х	3′ 7″	3′ 7″	3′ 7″	
Height of boom hinge pin	Υ	4' 4"	4′ 5″	4' 6"	
Overall height, attachment					
in travel position		10′ 5″	10′ 6″	10′ 7″	
Overall length, attachment					
in travel position		31′ 7″	31′7″	31′ 7″	
Miscellaneous					
Swing speed 4.9 r.p.m.					
Approximate working weight with					
24" wide track shoes, low		lbs.	lbs.	lbs.	
gantry, ctwt. "AB"		32,500	33,850	35,500	

(1) Maximum effective digging depth will vary with the type of soil and excavation.

#### HOE LIFTING CAPACITIES

These are maximum lifting capacities for hoe when used for laying pipe. Two part hoist line used.

<del></del>	
BOOM RADIUS®	LIFTING CAPACITIES
12'	9,300 lbs.
15′	7,600 lbs.
20'	4,700 lbs.

② Radius is measured from machine centerline of rotation to centerline of boom peak shaft. Capacities are based upon the arm being in a vertical position.

# GENERAL INFORMATION ONLY

#### **HOE ATTACHMENT**

**BOOM** — All-welded construction of steel plates; gooseneck design. Boom mounts in upper frame lugs in bronze bushings.

Boomfoot Idler Roller and Pin — Boomfoot idler roller rotates on boomfoot pin that is bolted in fixed position to brackets mounted on front of upper frame.

inhaul Rope Sheaves — 13<sup>1</sup>/<sub>2</sub>" root diameter, mounted on shaft through boom; live sheave mounted on bronze bushing.

Boompeak Shaft — Secured from turning by pin through peak of boom.

**Deflector Rollers** —  $6^{1}/_{2}$ " root diameter, pinned to boom near head.

ARM — All-welded box section design; oscillates on bronze bushings.

Arm Machinery — Bridle frame of welded plate construction pinned to arm on bronze bushings, contains 11<sup>5</sup>/<sub>8</sub>" root diameter hoist sheave mounted on bronze bushing.

**BUCKET AND CONNECTIONS** — ESCO <sup>5</sup>/<sub>8</sub> cubic yard with side cutters for 37" cutting width. Arm pins to rear of bucket.

Pitch Brace — All-welded steel construction, pins to arm and lugs on bucket.

Bucket Bail — Horizontal sheave type, 131/2" root diameter sheave, mounted on bronze bushing. Bail connected to bucket with 2 cast-steel links on each side.

MAST — 7' 8" long from peakshaft to foot pin. Pipe and steel plate construction pinned to lugs of upper frame.

Mast Machinery For Two-Part Hoist — 13<sup>1</sup>/<sub>2</sub>" root diameter sheave, mounted on bronze bushings, on peakshaft.

Mast Machinery For Four-Part Boomhoist — Two 61/2" root diameter sheaves, mounted on bronze bushings, mounted on peakshaft.

MAST BACKSTOPS — Optional telescoping type; permits mast to be lowered by operator from vertical position to 5° or 10° forward.

Hoist — 2 part line, 5/8" diameter, Type A . . . . 69 ft.

Inhaul — optional — 2 part line, 5/8" diameter, Type D ...... 58 ft.

We are constantly improving our products and therefore reserve the right to change designs and specifications. For certified dimensions, consult factory.



## Link-Belt Speeder

DIVISION OF FMC CORPORATION

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