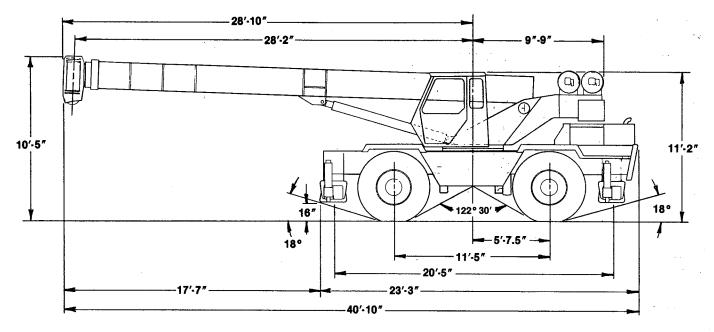


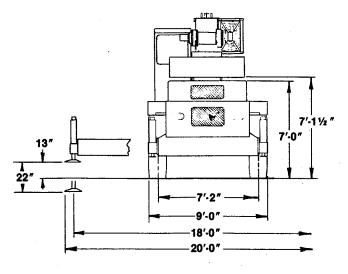
## LORAIN. LRT 330

# general specifications hydraulic rough terrain crane — 33 ton capacity

## **General Dimensions**

Note: Dimensions given assume boom is fully retracted in travel position and crane is equipped with standard tires.





## **Operating Weight**

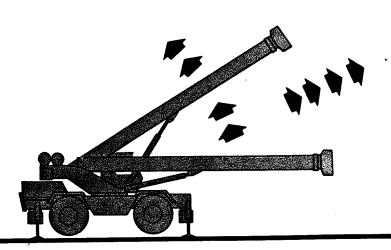
#### WEIGHT

55,950 lbs with 81' boom, main winch only and 4,300 lb. counterweight.

#### **WEIGHT DISTRIBUTION**

	Front lbs	Rear lbs	Total Ibs
Standard Machine Add: 32' Jlb	29,610 + 1,520 + 1,860 10 + 210	26,340 - 620 - 460 - + 110 + 210	55,950 + 900 + 1,200 + 400 -

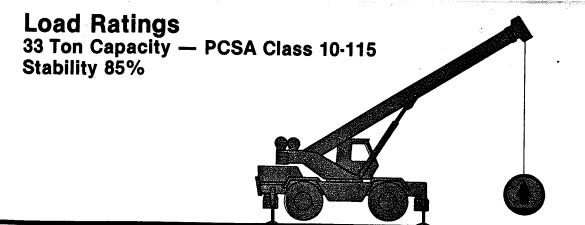
## Range Diagram



### 140 49' Ext 🖁 130.00 130 120 32' Jib 2'-11" 13.00 110 100 90 70° 60° 80' 50° 70 40° 60' 87.80 30° 50 40' 20° 10 70 80' 50 60 40 10 20' 301

## GENERAL AND SPECIFIC CAPACITY CONDITIONS AND LIMITATIONS

- The rated loads as determined by boom length, radius or boom angle pertain to this crane as originally manufactured and equipped. They are maximum load ratings.
- 2. Crane load ratings are based on freely suspended loads with the machine leveled and standing on a firm, uniform, supporting surface. Practical working loads require the USER to make due allowances for the particular job conditions dependent upon supporting surface, wind, pendulum action of load, jerking or sudden stopping of loads, hazardous surroundings, experience of personnel, etc. Positioning of, or operation at, radii and boom or jib length beyond the maximum and minimum shown is not intended or approved. For boom lengths not shown, use load ratings of next longer boom. SIDE PULL ON BOOM IS EXTREMELY DANGEROUS.
- 3. Weight of hooks, hook blocks, slings and all other load handling devices, except hoist rope, shall be included as part of the load.
- 4. Chart ratings shown above the bold line or as specified are based on the machine's structural strength and not on the machine's stability. All other ratings are based on stability and do not exceed the specified percentage of tipping load.
- 5. CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON OUTRIGGERS ALL BEING FULLY EXTENDED AND SET ON A FIRM SUPPORTING SURFACE TO PROVIDE FOR A LEVEL MACHINE.
- This crane and rated loads shown are in accordance with standards of Power Crane And Shovel Association Standard No. 2 and SAE Crane Load Stability Test Code J-765.
- 7. The operator and other personnel should read and fully understand the Operator's Manual furnished by the manufacturer before operating this machine and rules for safe operation of equipment should be adhered to at all times. Operators and supervisors must fully understand safety standards for mobile hydraulic cranes ANSI B30.15 and be familiar with Federal, State and Local Safety Regulations.
- The maximum load which may be telescoped is limited by boom angle, hydraulic pressure, boom lubrication, etc. When extending boom with load, do not exceed load rating at longest boom length required.
- For clamshell, magnet, or concrete bucket operation, weight of bucket or magnet and load must not exceed 90% of load rating chart capacities.



			ON	OUTRIG	GEF	RS OVE	R FA	ONT							-
RAD-US	42GJш	BOOM LENGTH 32.00' Retracted	4ZGJE	BOOM LENGTH 44.25	AZGJJ	BOOM LENGTH 56.50'	AZGJE	BOOM LENGTH 68.75	42 <i>G</i> JE	BOOM LENGTH 81,00'	6 0 0 0 5	CRANE	_	MER FRONT	TIONS
10 12 15 20 25 30 35 40 50 60 70	65° 61° 55° 43° 27°	66,000 55,000 49,500 35,400 26,900	73° 70° 65° 58° 50° 41° 30° 9°	51,100 47,200 43,000 35,900 27,400 21,800 17,700 14,600	75° 72° 66° 61° 55° 48° 40°	36,600 34,200 27,000 23,400 20,600 17,900 15,000	75° 71° 66° 62° 57° 52° 40° 24°	26,000 21,500 18,200 15,400 13,600 12,100 9,750 7,300	75° 72° 63° 59° 40° 26° 16°	20,000 17,200 14,800 12,500 11,250 9,000 7,400 6,150 5,300	10 12 15 20 25 30 35 40 50 70 75	LIMIT WHIC SHOW	S OF W	DETERMINE ORKING POSI ESPOND TO T HE CRANE C	ITIONS HOSE
				ON OU	TRIC	GERS :	360°		*:			-SIDE	STO	W JIB -	
RAD-US	42G-m	BOOM LENGTH 32.00' Retracted	420lm	BOOM LENGTH 44.25'	420.m	BOOM LENGTH 56.50'	42G.JW	BOOM LENGTH 68.75'	ANGLE	BOOM LENGTH 81.00'	AZGJE	MAX BOOM E 32' JIB	42G-1	MAX BOOM S 49' JIB	RAD-US
10 12 15 25 30 55 40 75 75	65° 61° 55° 43° 27°	66,000 55,000 45,200 32,200 24,400	73° 70° 65° 58° 50° 41° 30° 9°	51,100 47,200 43,000 32,700 24,900 18,900 14,300 11,100	75° 72° 66° 61° 55° 48° 40° 9°	36,600 34,200 27,000 23,400 19,300 14,700 11,500 -7,500	75° 71° 66° 62° 57° 52° 40° 24°	26,000 21,500 18,250 15,400 13,600 7,700 5,150	75° 72° 67° 63° 59° 50° 40° 26°	20,000 17,200 14,800 12,500 11,250 7,900 5,300 3,800 3,100	######################################	9,400 9,000 8,700 7,700 5,500 4,000 3,400 2,400	78° 73° 68° 63° 58° 56° 56°	5,300 4,900 4,300 3,500 3,200 2,900	10 12 15 20 25 30 35 40 50 60 75 85

	ST. C		RES FRONT	r
R	MAX,	MIN.		l a
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	Ğ	Ŝ	BOOM	1 1
Š	Ę	ŧ	LENGTHS	Į Ų.
10	750		the same that the same	100
12	75°	67°	50,200	10
15	2.5	83°	41,500	12
MATERIAL C	75°	57°	30,700	15
20	75°	45°	20,500	20
25	.75°	29°	14,700	25
30	740	-0°	10,500	30
35	69°	O.	8,050	35
40	61°	00	6,250	40
50	52°	O°	3,950	50
60	410	O°	2,550	60
70	27°	O"	1,600	70

	ON	TIRE	S 360°	
RAD-US	MAX. A N G L E	MIN. A NG LE	ALL BOOM LENGTHS	RADIUS
10	75°	67°	26,900	10
12	75°	63°	22,600	12
15	75°	57°	14,100	15
20	75°	45°	9,750	20
25	75°	29°	6,500	25
30	74°	O°	4,200	30
35	69°	O°	2,850	35
40	61°	0°	1,950	40

MAXIMUM PERMISSIBLE LOAD IN LBS									
Line Parts			3 .						
Main Hoist					57,000 66,000				
Aux. Hoist	5,000	10,000	15,000 20.	000 25.000	30,000 35,000				
Boom Head	2.	2-D -	2-3 1/2	LD 1-2-3	1-2-3-D 1-2-3-4				
Hook Block					1-2-3 1-2-3-0				

Main Hoist Line - 5/8" Dia. 6x19 IWRC, IPS, Reg. Lay Preformed Wire Rope.

Minimum Breaking Strength - 17.9 Tons. Max. Permissible Line Pull - 10,228 Lbs.

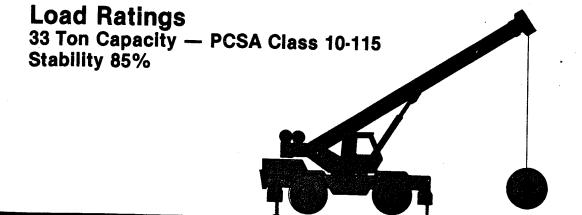
Aux. Hoist Line - 1/2" Dia. 6x19 IWRC, IPS, Preformed Wire Rope.
Minimum Breaking Strength - 11.5 Tons.

Max. Permissible Line Pull - 5,265 Lbs.

- For boom lengths less than maximum with the side stow jib erected, the rated loads are determined by boom angle only in the appropriate jib plus boom column. For boom angles not shown, use the capacity of the next lower boom angle.
- When lifting off main boom head and jib is erected, deduct 1800 lbs. for side stow jib from main boom load chart capacities.

#### **CAUTION**

Without outriggers, never maneuver boom beyond 70' radius over front or 40' radius over side to ensure stability.



R		The second	UN	OUTRIC	iGE	RS OVE	R FR	ONT							
	AZGLE	BOOM LENGTH 32.00'	AZGLE	BOOM LENGTH 44.25	AZGLE	BOOM LENGTH 56.50'	AZG-LE	BOOM LENGTH 68.76	<b>420</b> J₩	BOOM LENGTH -81.00' Extended		CRANE		OVER FRONT	ITIO
0 2 5 0 5 0 5 0 0 0 0	65° 61° 55° 43° 27°	66,000 55,000 49,500 35,400 26,900	73° 70° 65° 58° 50° 41° 30° 9°	51,190 47,200 43,000 35,900 27,400 21,800 17,700 14,600	75° 72° 66° 61° 55° 48° 40°	36,600 34,200 27,000 23,400 20,600 17,900 15,000	75° 71° 66° 62° 57° 52° 40° 24°	26,000 21,500 18,200 15,400 13,600 12,100 9,750 7,300	76° 72° 63° 55° 60° 26° 16°	20,000 17,200 14,800 12,500 11,250 9,000 7,400 6,150 5,300	1 0 12 B 20 20 35 40 80 80 70 20	LIMI WHIC SHOW	SE LINES IS OF W	S DETERMINE POS ESPOND TO THE CRANE (	THOSE
				ON OU	TRIC	GERS	380°		20	1 9,300		eine	eto.	W JIB-	
	AZG	BOOM LENGTH	ANG	BOOM LENGTH	A N G	воом	4 Z G	воом	Ą	BOOM LENGTH	*	MAX	4.72	MAX.	1
	Ē	32.00' Retracted	LE	44.25	Ę	LENGTH 56.50'	G	LENGTH	<b>2</b> G_L	81.00′	20	BOOM	8	BOOM.	
	i L		73° 70° 65° 58° 50°		75° 72° 66° 61°	36,600 34,200 27,000 23,400	75° 71° 66°	26,000 21,500 18,250	G LE 75° 72°		The Control of the Co		20-W	The second second second	1 1 1 2
	65° 61° 55° 43°	Retracted 66,000 55,000 45,200 32,200	73° 70° 65° 58°	44.25' 51,100 47,200 43,000 32,700	75° 72° 66°	56.50° 36,600 34,200 27,000	75° 71° 66° 62° 57° 52° 40°	26,000 21,500 18,250 15,400 13,600 11,700 7,700	LE 75° 72° 65° 59° 50°	20,000 17,200 14,800 12,500 11,250 7,900	PAS	8 80 9 000 8 700 7 700	TO TO SEP	8	111223934
	65° 61° 55° 43°	Retracted 66,000 55,000 45,200 32,200	73° 70° 65° 58° 50° 41° 30°	44.25' 51,100 47,200 43,000 32,700 24,900 18,900 14,300	75° 72° 66° 61° 55° 48° 40°	36,600 34,200 27,000 23,400 19,300 14,700 11,500	75° 71° 66° 62° 57°	26,000 21,500 18,250 15,400 13,600	LE 75° 72" 65° 65° 55°	81.00° Extended 20,006 17,200 14,800 12,500 11,250	9-14 75 72 P	9.400 9.400 9.700	78° 73°	5,300 4,900	111122233345677万段9

	ST. C		RES FRONT	
R	MAX.	MIN.	ALL	R
â	42GJu	Â G	BOOM	ß.
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	7	ŧ	LENGTHS	
10 12	75°	67°	50,200	10
15	75° 75°	63°	41,500	12
20	75°	57° 45°	30,700 20,500	15
25	75°	200	14,700	20 25
30	740		10.500	30
35	69°	0"	8.050	35
40	61°	œ	6,250	40
50	52°	ም	3,950	50
60	410	O°	2,550	60
70	279	0' 1	1,600	70

	_		S 360°	
R D	MAX.	MIN.	ALL	A
D	N	N.	воом	Ď
Ų Š	Ľ	Ĭ.		ÿ
	75. <b>2</b> - 17	3. <b>E</b> 2.3	LENGTHS	S
10	75°	67°	26,900	10
12	75°	63°	22.690	12
15	75°			
.10		57°	14,100	15
20	75°	452	9,750	20
25	754	290	6.500	25
	3.异语类	2.44		25
30	740	o	4,200	30
35	69°	œ	2.850	35
40	610			
	01"	· 0°	1,950	40

MAXIMUM PERMISSIBLE LOAD IN LBS									
Line Parts	李钟 1975	2	<b>3.3</b>	4	5	6 4 7			
Main Hoist	9,500	19,000	28.500	38.000	47.500	57,000 88,000			
Aux. Hoist	5,000	10,000	15,000	20.000	25,000	30,000 35,000			
Boom Head	2	2-D	2-3	1-2-D	1-2-3	1-2-2-0 1-2-2-4			
Hook Block	D :	. 2	2-D	1-2	1-2-D	123 1230			

- Main Hoist Line 5/8" Dia. 6x19 IWRC, IPS, Reg. Lay Preformed Wire Rope.
  Minimum Breaking Strength 17.9 Tons.
- Max. Permissible Line Pull 10,228 Lbs.

  Aux. Hoist Line 1/2" Dia. 6x19 IWRC, IPS, Preformed Wire Rope.
  - t Line 1/2" Dia. 6x19 IWRC, IPS, Preformed Wire Rope Minimum Breaking Strength - 11.5 Tons. Max: Permissible Line Pull - 5,265 Lbs.
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