

## **features**

- 30 ton (30 mt) capacity
- 29-95 ft. (8.8-29 m) 4-section full power boom
- 26-45 ft. (7.9-13.7 m) telescopic swingaway extension
- Max main boom tip height of 102.5 ft. (31.2 m)
- "E" Series cab
- Max overall tip height 146 ft. (44.5 m)
- One double-acting telescoping cylinder
- 9 3 position outriggers, max spread 20 ft. (6.1 m)
- Cummins QSB 5.9L diesel, 6 cyl., turbocharged engine

## contents

Features	2
Specifications	3
Dimensions	5
Working Range	6
Load Charts	7
Load Handling	11



**Rough Terrain Hydraulic Crane** 

## features







Fixed length or tele-swingaway boom extension options provide 26 ft. (7.9 m) or 26-45 ft. (7.9-13.7 m) of additional height that can offset to 0° & 30°. Max RT530E tip height with the tele extension is 146 ft. (44.5 m) and also provides a max working radius of 120 ft. (36.6 m). Optional fulllength decking is also available.







Features common to the Grove "E" Series cab include:

 hot water heater/defroster

• single axis joystick controllers

 sliding skylight and adjustable sunscreen

 engine instrumentation

> full acoustical lining

The PAT i-Flex 5 graphic display LMI includes a work area definition

system which allows the operator to define a preferred working area.

A quick reeve boom nose and swingaway alignment device help operators put the RT530E to work quickly.





## specifications

#### Superstructure

### Boom

29 ft. - 95 ft. (8.8 m - 29 m) four-section, full power boom. Maximum tip height: 102.5 ft. (31.2 m).



#### - \*Optional Fixed Swingaway Extension

26 ft. (7.92 m) offsettable swingaway extension. Offsettable at 0° and 30°. Stows alongside base boom section. Maximum tip height: 127.6 ft. (38.9 m).



#### \*Optional Telescopic Swingaway Extension

26 ft. - 45 ft. (7.92 m - 13.7 m) telescoping offsettable swingaway extension. Offsettable at 0° and 30°. Stows alongside base boom section. Maximum tip height: 146 ft. (44.5 m).

## Boom Nose

Three nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boom nose. \*Optional removable auxiliary boom nose with removable pin type rope guard.

### Boom Elevation

One double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to +76°.

### Load Moment & Anti-Two Block System

Standard "Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition. The standard Work Area Definition System allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.

## Cab

Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted hydraulic single-axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: hot water heater, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper, electric windshield wash/wipe, fire extinguisher, seat belt, and sunscreen.

## **T** Swing

Planetary swing with foot applied multi-disc brake. Spring applied, hydraulically released swing brake and plunger-type, one position, mechanical house lock operated from cab. \*Optional 360° mechanical swing lock. Maximum speed: 2.8 RPM.



Counterweight

8,400 lbs. (3 810 kg) pinned to superstructure.



Three main gear pumps with a combined capacity of 100 GPM (381 L/min). Maximum operating pressure: 3,500 PSI (26.2 MPa).

Two individual valve banks.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16.

90 gallon (341 L) reservoir. Integral oil cooler. System pressure test ports.

#### HOIST SPECIFICATIONS Main and Auxiliary Hoist Model HP15B-17G

M

Planetary reduction with automatic spring applied multi-disc brake. Grooved drum. Electronic hoist drum rotation indicator and hoist drum cable followers.

Maximum Single Line Pull:	11,640 lbs. (5 280 kg)
Maximum Single Line Speed:	445 FPM (136 m/min)
Maximum Permissible Line Pull: w/standard 6 x 37 class rope: w/optional 35 x 7 class rope:	11,640 lbs. (5 280 kg) 11,640 lbs. (5 280 kg)
Rope Diameter:	5/8 in. (16 mm)
Rope Length:	450 ft. (137 m)
Rope Type: 6 x 37 class EIPS IWRC *Optional 35 x 7 class rotation resista	ant

aximum Rope Stowage:	750 ft.
	(228 m)

\*Denotes optional equipment



## specifications

#### Carrier

#### Chassis

Box section frame fabricated from high-strength, low alloy steel. Integral outrigger housings and front/rear towing and tie down lugs.

### Uutrigger System

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral

holding valves. Three position setting. All steel

fabricated quick release type outrigger floats, 16.5 in. (419 mm) square.

Maximum outrigger pad load: 48,900 lbs. (22 498 kg)

#### **Utrigger Controls**

Controls and crane level indicator located in cab.

### 📕 Engine

Cummins QSB 5.9L diesel, six cylinders, turbo- charged, 155 bhp (116 kW) (Gross) @ 2,500 RPM. Maximum torque: 440 ft. lbs. (597 Nm) @ 1,500 RPM.

### **Fuel Tank Capacity**

58 gallons (220 L)

## **Iransmission**

Full powershift with 6 forward and 6 reverse speeds. Front axle disconnect for 4 x 2 travel.

## **4** Electrical System

Two 12 V - maintenance free batteries. 12 V starting and lighting, battery disconnect switch.

```
Drive
```

4 x 4

### **T** Steering

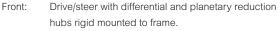
Fully independent power steering:

Front: Full hydraulic steering wheel controlled.

Rear: Full hydraulic switch controlled.

Provides infinite variations 4 main steering modes: front only, rear only, crab and coordinated. Rear steer indicating gauge.

## + Axles



Rear: Drive/steer with differential and planetary reduction hubs pivot mounted to frame.

Automatic full hydraulic lockouts on rear axle permit oscillation only with boom centered over the front.

### **O** Brakes

Full hydraulic split circuit disc-type brakes operating on all wheels. Spring-applied, hydraulically released transmission-mounted parking brake.



```
20.5 x 25-24PR bias earthmover type.
```

\*16.00 x 25-28PR bias earthmover type.

### 🕒 Lights

Full lighting package including turn indicators, head, tail, brake and hazard warning lights.



24 MPH (39 km/h)

### Gradeability (Theoretical)

70% (Based on 58,000 [26 309 kg] GVW) 20.5 x 25 tires, pumps engaged, 95 ft. (29 m) boom, and tele-swingaway.

#### **Miscellaneous Standard Equipment**

Full width steel fenders, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well, tachometer, rear wheel position indicator, hot water heater, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist). Cold start aid and immersion type engine block heater, 120 V, 1500 watt.

#### \*Optional Equipment

\* AUXILIARY HOIST PACKAGE (includes Model HP15B-17G auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 450 ft. (137 m) of 5/8 in. (16 mm) 35 x 7 class wire rope and auxiliary single sheave boom nose. \* AIR CONDITIONING PACKAGE (includes hydraulic driven air conditioning).

\*AUXILIARY LIGHTING PACKAGE (includes cab mounted, 360° rotation spotlight, cab mounted amber flashing light, and dual base boom mounted floodlights).

\*CONVENIENCE PACKAGE (includes in cab LMI lightbar). \*Pintle hook - rear

\*Full length aluminum decking

\*CE mark conformance

\*15 ton 2 sheave hookblock

\*Cab-controlled cross axle differential locks

(front & rear)

\*360 degree NYC style positive swinglock \*PAT Datalogger

\*Denotes optional equipment



**GROVE**.

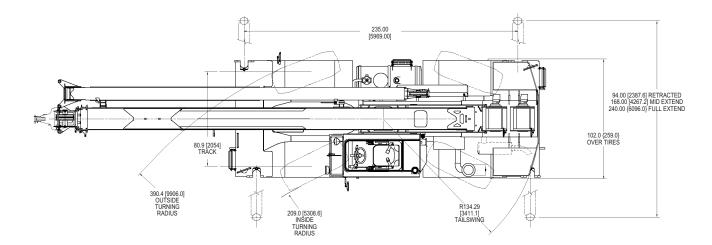
## dimensions

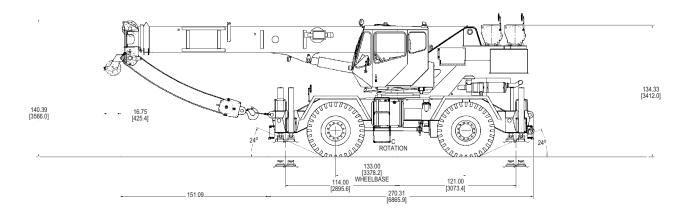
5

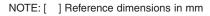
NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY. 2. BOOM ELEVATION IS -3° TO +76°.

DIMS. SHOWN BASED ON 20.5 X 25 TIRES.
 ADD 1.36 [34.5] FOR 16.0 X 25 TIRES.







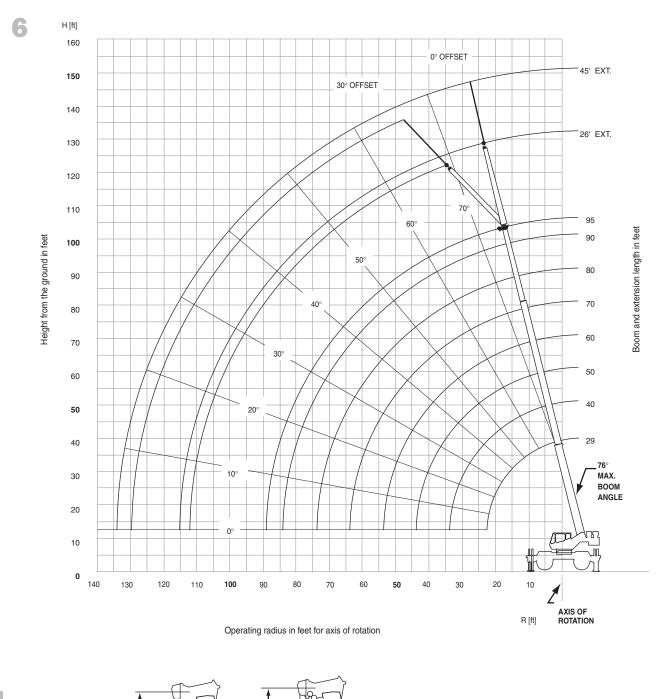
Weights						
	G	GVW		ont	Rear	
	lb.	kg	lb.	kg	lb.	kg
<b>RT530E Basic Machine</b>	54,483	24,713	25,090	11,381	29,393	13,333
ADD: 26 - 45 ft Tele swingaway	1,790	812	2,853	1,294	-1,063	-482
ADD: 26 ft swingaway	1,300	590	2,111	958	-811	-368
ADD: Auxiliary Hoist cable	339	154	-127	-58	466	211
ADD: Auxiliary boom nose	142	64	283	128	-141	-64
ADD: 30 ton (28mt) 3-sheave hook- block (stowed)	580	263	611	277	-31	-14
ADD: 7.5 ton (6.8mt) headache ball (stowed)	369	167	388	176	-19	-9
Remove: counterweight	-8,400	-3,810	2,668	1,210	-11,068	-5,020





## working range

### Working range - 95 ft. Main Boom + 26-45 ft. extension





THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

**GROVE**.

# **RT530E load chart**

9-95 ft.	8,400 lbs	100% 20' spread	<b>Q</b> 360					
				Po	unds			
Feet	29	40	50	60	70	80	90	95
10	60,000 (60.5)	50,100 (69.5)	46,950 (74.5)					
12	54,650 (56)	50,100 (66.5)	44,950 (72)	*38,850 (76)				
15	42,850 (47.5)	43,800 (61.5)	41,050 (68)	36,000 (72)	*29,450 (76)	*22,450 (76)		
20	30,700 (30)	31,650 (53)	32,100 (61.5)	29,500 (67)	27,400 (71)	22,450 (73.5)	*18,550 (76)	*15,500 (76)
25	(50)	24,050 (42.5)	24,500 (54.5)	24,800 (61.5)	23,100 (66.5)	19,250 (70)	16,500 (72.5)	15,300 (74)
30		18,800 (29)	19,250 (47)	19,550 (56)	19,600 (61.5)	16,850 (66)	14,400 (69)	13,200 (70.5)
35	<b>_</b>	()	15,550 (38)	15,850 (49.5)	16,000 (56.5)	14,850 (61.5)	12,700 (65.5)	11,500 (67.5)
40			12,800 (26)	12,950 (42.5)	13,000 (51.5)	13,050 (57.5)	11,000 (62)	10,000 (64)
45		E	(20)	10,450 (34.5)	10,500 (46)	10,550 (53)	9,630 (58.5)	9,060 (60.5)
50				8,610 (23.5)	8,630 (39.5)	8,670 (48)	8,720 (54.5)	7,990 (57)
55				(23.5)	7,170	7,200	7,250	7,100
60					(32) 6,000	(43) 6,030	(50) 6,100	(53) 6,110
65					(22)	(37) 5,080	(45.5) 5,120	(49) 5,150
70						(30) 4,270	(40.5) 4,330	(44.5) 4,350
75						(20.5)	(35) 3,650	(40) 3,700
							(28.5) 3,100	(34.5) 3,100
80							(20)	(28)
85								2,600 (20)
mum hoom an	gle (i) for indicated le	ngth (no load)						0

#LMI operating code. Refer to LMI manual for operating instructions.

	s based on maximum bo	on anglor		acities at Zero Degr utriggers Fully Exte				
Boom Angle	29	40	Main Bo 50	oom Length in Feet 60	70	80	90	95.2
0 deg.	26,100 (22.8)	15,800 (33.8)	11,000 (43.8)	7,430 (53.8)	5,220 (63.8)	3,730 (73.8)	2,660 (83.8)	2,220 (89)

NOTE: ( ) Reference radii in feet.

A6-829-101755

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



# **RT530E load chart**

Pounds

#0023

30i OFFSET

\*5,780 (76)

5,780 (73.5)

2,780

(49)

2,410 (45)

1,970 (40.5)

1,580 (35.5)



Θ

Feet

30

35

40

45

50

55

60

65

70

75

80

85

90

95

100

105

110

8

26-45 ft.

-



\*\*26 ft. LENGTH

#0021

0i OFFSET

\*8.200

(76) 8,200

(73.5)

8,200 (71)

8,120 (68.5)

2,520

(45)

2.050

(41)

1,670

(37)

1,370 (32.5)

1.020

(27.5)

Q 360...

#0043

30i OFFSET

2,420

(61.5)

2.390

(58.5) 2,370 (55.5)

2.310

(52)

2.000

(49)

1,580

<u>h-</u>

100%

#0041

0i OFFSET

\*5,250

(76)

5,250 (75)

4,940 (73)

45 ft. LENGTH

29-60 ft.





Q

360...

			Pounds	
		#90	05	
Feet	M 29	Aain Boom Length 40	in Feet 50	60
10	25,550 (60.5)	25,550 (70)	*16,450 (76)	
12	20,600 (56)	20,600 (66.5)	16,450 (72)	
15	14,350 (47.5)	14,350 (62)	14,350 (68)	14,350 (72.5)
20	8,280 (30)	8,280 (53)	8,280 (61.5)	8,280 (67)
25		5,330 (42.5)	5,330 (54.5)	5,330 (61.5)
30		3,630 (29)	3,630 (47)	3,630 (56)
35			2,500 (38)	2,500 (49.5)
40			1,690 (26)	1,690 (42.5)

Min. boom angle for indicated length (no load)

Max. boom length at 0; boom angle (no load)

NOTE: ( ) Boom angles are in degrees. #LMI operating code. Refer to LMI manual for instructions. \*This capacity is based upon maximum boom angle.

Lifting Capacity at Zero Degree On Rubber - 360;

Boom	Ma	ain Boom Length	in Feet	
Angle	29	40	50	
0i	6,110 (22.8)	2,730 (33.8)	1,210 (43.8)	
NOTE: Reference	e radii in feet.			A6-829-100274C

NOTE: Reference radii in feet.

Q  $\mathbf{O}$ 29-60 ft 8,400 lbs Stationary Defined Arc

**Over Front** 

1.090

(34.5)

34

50 ft.

			Pounds	
		#90	005	
Feet	м	ain Boom Length	in Feet	
reet	29	40	50	60
10	30,100 (60.5)	26,550 (70)	16,450 (74.5)	
12	26,550 (56)	22,100 (66.5)	16,450 (72)	
15	22,100 (47.5)	22,100 (62)	16,450 (68)	16,450 (72.5)
20	16,050 (30)	16,050 (53)	16,050 (61.5)	16,050 (67)
25		11,005 (42.5)	11,005 (54.5)	11,005 (61.5)
30		8,060 (29)	8,060 (47)	8,060 (56)
35			6,110 (38)	6,110 (49.5)
40			4,720 (26)	4,720 (42.5)
45				3,680 (34.5)
50				2,870 (23.5)
	ingle for indicated	0 ( )		0 <sub>i</sub>
		rees. Il manual for instru		60 ft.
	Lifting C Stationary- De	apacity at Zero D fined Arc Boom C	egree On Rubber Centered Over Fro	ont
Boom	м	ain Boom Length	in Feet	
Angle				

6,500 (33.8)

Angle 29 12,700 (22.8)

3,890 (43.8) A6-829-100275B

60

(53.8)

7,350 (66) 5,360 (71) 4,540 (71) 3 6.370 4,750 4.150 \*2,730 (63) (68) (68.5) (76) 3 4,290 (65) 5,670 (60,5) 3,890 2,730 (74.5) (66) 40 4,820 (57.5 3,870 (62) 3,740 (64) 2,730 (72) 45 4,200 (54.5) 3,530 3,600 2,580 (59) (61.5) (69.5) 3,680 (51.5) 3,230 (56) 3,470 (59) 2,520 (67) 3,080 (48.5) 3,000 2,460 (64) 3.240 (52.5) (56.5)

3,050

(54)

2.820

(51)

2,480 (48.5)

2 0 9 0

(45.5)

1.740

(42)

1,430

(38.5)(45) 1,150 (35) 1,260 (40.5) 115 900 120 (30.5) Min. boom angle for indicated length (no load) 30 30j 30j 24i Max. boom length at 0; boom angle (no load) 80 ft. 80 ft. #LMI operating code. Refer to LMI manual for instructions. \*This capacity based on maximum boom angle. A6-829-100272A \*\*\*26 ft. capacities are also applicable to fixed offsettable ext. However, the LMI codes will change to **#0051** and **#0053** for 0<sub>1</sub> and 30<sub>1</sub> offset, respectively.

respectively

#### BOOM EXTENSION CAPACITY NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 26 ft. and 45 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers fully extended and vertical jacks set only.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

0i

NOTE: Reference radii in feet





# **RT530E load charts**

29-60 ft.	8,400 lbs	Pick & Carr (Max. 2.5 MF 20.5 x 25 Tir	PH) Over Fro	
			Pounds	
		#9	006	
Feet	Ма	ain Boom Length	n in Feet	
reel	29	40	50	60
10	25,900 (60.5)	25,900 (70)	18,250 (74.5)	
12	22,350 (56)	22,350 (66.5)	18,250 (72)	
15	18,250 (47.5)	18,250 (62)	18,250 (68)	13,350 (72.5)
20	13,350 (30)	13,350 (53)	13,350 (61.5)	13,350 (67)
25	(00)	10,350 (42.5)	10,350 (54.5)	10,350 (61.5)
30		8,060 (29)	8,060 (47)	8,060 (56)
35		(==)	4,810 (38)	4,810 (49.5)
40			3,770 (26)	3,770 (42.5)
45			()	2,930 (34.5)
50				2,240 (23.5)
Min. boom a	ngle for indicated I	ength (no load)		0i
Max. boom	length at 0; boom a	angle (no load)		60 ft.
NOTE: ( ) Boom #LMI operating of	angles are in deg code. Refer to LMI	rees. manual for instru	ctions.	
	Lifting Car Pick & Ca	oacity at Zero De rry - Boom Cent	egree On Rubber ered Over Front	
	M	in Room Longth	in East	

Boom	Main Boom Length in Feet				
Angle	29	40	50	60	
0i	11,400 (22.8)	5,090 (33.8)	3,110 (43.8)	1,800 (53.8)	
NOTE: Reference	ce radii in feet.			A6-829-100276B	

#### NOTES TO ALL RUBBER CAPACITY CHARTS:

- 1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- Capacities are applicable to machines equipped with 20.5x25 (24 ply) tires at 75 psi cold inflation pressure, and 16.00x25 (28 ply) tires at 100 psi cold inflation pressure.
- Defined Arc Over front includes 6° on either side of longitudinal centerline of machine (ref. drawing C6-829-003529).
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- 5. Capacities are applicable only with machine on firm level surface.
- 6. On rubber lifting with boom extensions not permitted.
- For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds.
- 8. Axle lockouts must be functioning when lifting on rubber.
- All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane.
- 10. Creep Not over 200 ft. of movement in any 30 minute period and not exceeding 1mph.

9-95	ft.	8,400 lbs		50% ft. sprea	ıd	360		
					Ροι	inds		
				<u> </u>	#4001			
eet			Mai	n Boom Le	ength in F	eet		
	29	40	50	60	70	80	90	95
10	60,000 (60.5)	48,000 (69.5)	45,000 (74.5)					
12	53,300 (56)	48,000 (66.5)	44,950 (72)	*37,000 (76)				
5	42,100 (47.5)	40,500 (61.5)	38,350 (68)	36,000 (72)	*27,400 (76)	*21,000 (76)		
:0	23,950 (30)	23,850 (53)	23,900 (61.5)	24,050 (67)	23,200 (71)	21,000 (73.5)	*17,000 (76)	*15,500 (76)
:5	(/	15,850 (42.5)	15,950 (54.5)	16,150 (61.5)	16,350 (66.5)	16,400 (70)	15,950 (72.5)	15,300 (74)
0		11,350 (29)	11,500 (47)	11,650 (56)	11,800 (61.5)	12,000 (66)	12,150 (69)	12,100 (70.5)
5		(20)	8,620 (38)	8,820 (49.5)	8,930 (56.5)	9,050 (61.5)	9,190 (65.5)	9,260 (67.5)
0			6,610 (26)	6,820 (42.5)	6,900 (51.5)	6,990 (57.5)	7,100 (62)	7,150 (64)
5			(20)	5,350	5,400	5,470 (53)	5,550 (58.5)	5,600
0				(34.5) 4,220 (23.5)	(46) 4,260 (39.5)	(33) 4,310 (48)	(38.5) 4,370 (54.5)	(60.5) 4,410 (57)
5				(20.0)	3,350 (32)	3,390 (43)	(34.3) 3,430 (50)	3,460 (53)
0					2,600 (22)	2,640 (37)	2,670 (45.5)	2,700 (49)
5					()	2,020 (30)	2,050 (40.5)	2,060 (44.5)
0						(30) 1,490 (20.5)	1,520 (35)	1,530 (40)
5						(20.0)	1,070 (28.5)	1,080 (34.5)
A (lb.)	660	610	580	560	550	540	(20.3)	530
		gle (¡) for in ngth (ft.) at					15	20

#LMI operating code. Refer to LMI manual for operating instructions.

* This capacity is based on maximum boom angle.							
Lifting Capacities at Zero Degree Boom Angle On Outriggers 50% Extended - 360i							
Boom		Main Boom Length in Feet					
Angle	29	40	50	60	70	80	
0 deg.	18,800 (22.8)	9,000 (33.8)	5,400 (43.8)	3,480 (53.8)	2,100 (63.8)	1,130 (73.8)	

NOTE: ( ) Reference radii in feet.

A6-829-100270A



THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



	0	ad		ha	art	ts			
_	29-95	C ft.	8,400 lb		0% 10 in. s	pread	<b>Q</b> 360		
10						Pou	nds		
	ſ					#8001			
	l	Feet		Main	Boom L	ength in F	eet		
		<b>29</b> 34,700	<b>40</b> 32,400	<b>50</b> 30,400	60	70	80	90	95
	10	(60.5)	(69.5)	(74.5)	*00.000				
	12	26,200 (56)	25,400 (66.5)	24,100 (72)	*22,900 (76)				
	15	17,750 (47.5)	17,550 (61.5)	17,550 (68)	17,250 (72)	*16,550 (76)	*10,900 (76)		
	20	10,650 (30)	10,600 (53)	10,650 (61.5)	10,750 (67)	11,000 (71)	10,900 (73.5)	*10,500 (76)	*10,350 (76)
	25		6,930 (42.5)	7,020 (54.5)	7,170 (61.5)	7,350 (66.5)	7,560 (70)	7,610 (72.5)	7,490 (74)
	30		4,670 (29)	4,780 (47)	4,950 (56)	5,080 (61.5)	5,240 (66)	5,390 (69)	5,480 (70.5)
	35			3,270 (38)	3,450 (49.5)	3,550 (56.5)	3,660 (61.5)	3,780 (65.5)	3,850 (67.5)
	40			2,170 (26)	2,370 (42.5)	2,440 (51.5)	2,520 (57.5)	2,620 (62)	2,670 (64)
	45				1,550 (34.5)	1,600 (46)	1,660 (53)	1,740 (58.5)	1,780 (60.5)
	50							1,050 (54.5)	1,080 (57)
	0.1A (lb Minim	) 660 um boom a	610	580 r indicated	560	550	540	540	530
		length	(no load)		33	43	51	53	55
			(no load)				50		
	#LMI op	) Boom an erating cod pacity is ba	ě. Refer to	o LMI manu	al for ope om angle.	erating instr	uctions.		
		Li		acities at Z outriggers (					
	Boom Angle	29	40	Main 50	Boom L	ength in F	eet		
	0 deg.	8,310 (22.8)	3,390 (33.8)	1,480 (43.8)	-				
		( )	(	( )					

NOTE: () Reference radii in feet.

A6-829-100271A

		_	H	Q
29-95 ft.	26-45 ft.	8,400 lbs	50% 14 ft. spread	360

	Pounds					
	**26 ft. LE	NGTH	45 ft. LE	NGTH		
G	#4021	#4023	#4041	#4043		
Feet	OFFSET	OFFSET	OFFSET	OFFSET		
30	*8,200 (76)					
35	8,200 (73.5)		*5,250 (76)			
40	6,940 (71)	*5,780 (76)	5,250 (75)			
45	5,580 (68.5)	5,780 (73.5)	4,940 (73)			
50	4,490 (66)	5,360 (71)	4,540 (71)			
55	3,600 (63)	4,350 (68)	4,150 (68.5)	*2,730 (76)		
60	2,860 (60.5)	3,430 (65)	3,490 (66)	2,730 (74.5)		
65	2,190 (57.5)	2,670 (62)	2,870 (64)	2,730 (72)		
70	1,610 (54.5)	2,030 (59)	2,340 (61.5)	2,580 (69.5)		
75	1,120 (51.5)	1,490 (56)	1,840 (59)	2,520 (67)		
80		1,020 (52.5)	1,400 (56.5)	2,260 (64)		
85			1,020 (54)	1,760 (61.5)		
90				1,310 (58.5)		
0.1A (lb.)	570	540	500	460		
Min. boom angle for indicated length (no load)	44 <sub>i</sub>	46 <sub>i</sub>	48 <sub>i</sub>	49 <sub>i</sub>		
Max. boom length at 0; boom angle (no load)	60	ft.	60	) ft.		
NOTE: () Boom angles	are in degrees.	al far instructions		A6-829-100273E		

(no toau) NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for instructions. \*This capacity based on maximum boom angle, \*26 ft. capacities are also applicable to fixed offsetable ext. However, the LMI codes will change to #4051 and #4053 for 0; and 30; offset, respectively respectively

#### BOOM EXTENSION CAPACITY NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 2. 26 ft. and 45 ft. boom extension lengths may be used for single line lifting service.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.



THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

**GROVE** 

#### Weight Reductions for Load Handling Devices

26 ft. Offsettable Boom Extension	Pounds
*Erected -	2,960
26 ft45 ft. Tele. Boom Extension	Pounds
26 ft45 ft. Tele. Boom Extension *Erected (Retracted) -	<b>Pounds</b> 4,220

\*Reduction of main boom capacities

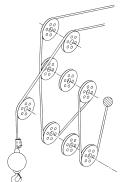
Auxiliary Boom Nose	Pounds
	142
Hookblocks and Headache Balls	Pounds
30 Ton, 3 Sheave	580 +
15 Ton, 2 Sheave	425 +
7.5 Ton Overhaul Ball	354 +
7.5 Ton Headache Ball	338 +

+Refer to rating plate for actual weight.

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

# load handling



## 11

#### Line Pulls and Reeving Information

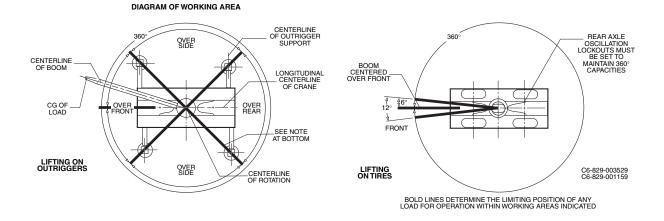
Hoists	Cable Specs	Permissible Line Pulls	Nominal Cable Length
Main & Aux.	5/8" (16 mm) Flex-X35 (35x7) Rotation Resistant (non-rotating) Min. Breaking Str. 61,200 lb.	11,640 lb.	450 ft.
Main	5/8" (16 mm) 6x37 Class EIPS, IWRC Special Flexible Min. Breaking Str. 41,200 lb.	11,640 lb.	450 ft.

#### Hoist Performance

Wire Rope Layer	Hoist Line Pulls Available Ib.*		n Rope city (ft.) Total	
1	11,640	77	77	
2	10,480	85	162	
3	9,530	94	256	
4	8,730	102	358	
5	8,060	111	469	
6	7,490	119	588	

\*Max. lifting capacity: 6x37 class = 11,640 lb. 35x7 class = 11,640 lb.

#### **Working Area Diagram**



#### Bold lines determine the limiting position of any load for operation within working areas indicated.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



530





Manitowoc Crane Group - Americas Manitowoc, Wisconsin Facility Tel: [Int + 001] 920 684 6621 Fax: [Int + 001] 920 683 6277 Shady Grove, Pennsylvania Facility Tel: [Int + 001] 717 597 8121 Fax: [Int + 001] 717 597 4062 Manitowoc Crane Group - EMEA Europe Middle East & Africa Tel: [Int + 33] (0) 191 565 6281 Fax: [Int + 33] (0) 4 72 18 20 20 Manitowoc Crane Group - UK Europe Middle East & Africa Tel: [Int + 44] (0) 191 565 6281 Fax: [Int + 44] (0) 191 564 0442 Manitowoc Crane Group - Germany (Sales, Parts & Service) Tel: [Int + 49](0) 2173 8909 0 Fax: [Int + 49] (0) 2173 8909-30 Manitowoc Crane Group - France France & Africa (Sales, Parts & Service) Tel: [Int + 33] (0) 1 303 13150 Fax: [Int + 33] (0) 1 303 86085 Manitowoc Crane Group - Netherlands (Sales, Parts & Service) Tel: [Int + 31] (0) 76 578 39 99 Fax: [Int + 31] (0) 76 578 39 78 Manitowoc Crane Group - Italy Italy & Southern Europe (Sales, Parts & Service) Tel: [Int + 39] (0) 331 49 33 11 Fax: [Int + 39] (0) 331 49 33 30 Manitowoc Crane Group - Portugal Portugal & Spain (Sales, Parts & Service) Tel: [Int + 351] (0) 22 968 08 89 Fax: [Int + 351] (0) 22 968 08 97 Manitowoc Crane Group - Singapore Asia/Pacific excl China (Sales, Parts & Service) Tel: [Int + 65] 6861 1733 Fax: [Int + 65] 6862 4040 / 4142 Manitowoc Crane Group - Shanghai China (Sales, Parts & Service) Tel: [Int + 86] (0) 21 64955555 Fax: [Int + 86] (0) 2164852038 Manitowoc Crane Group - Beijing China (Sales, Parts & Service) Tel: [Int + 86] (0) 10 646 71690 Fax: [Int + 86] (0) 10 646 71691 Manitowoc Crane Group - Middle East (Sales) Tel: [Int + 971] (0) 4 348 4478 Fax: [Int + 971] (0) 4 348 4478 (Parts & Service) Tel: [Int + 973] (0) 9 660 899 Fax: [Int + 973] (0) 2 707 740

Distributed By:



www.manitowoccranegroup.com



Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories, and may not include all standard equipment.