

GROVE®

FULL HYDRAULIC

CARRIER-MOUNTED CRANE

TMS475

50 TON CAP.

PCSA CLASS 10-160

RATED LIFTING CAPACITIES IN POUNDS

34 ft. - 116 ft. BOOM

ON OUTRIGGERS FULLY EXTENDED - OVER SIDE

Radius in Feet	Boom Length in Feet							84 ft. + 32 ft. Ext. **116
	*34	40	44	54	64	74	84	
10	100,000 (70)	74,000 (73)	72,000 (76)					
12	90,000 (66.5)	70,000 (70)	67,500 (73.5)	64,000 (76.5)				
15	72,000 (61)	63,700 (65.5)	61,000 (69)	55,000 (73)	44,700 (76)			
20	53,000 (50.5)	52,200 (57.5)	49,800 (62)	44,000 (67.5)	37,900 (71)	35,000 (74)	31,000 (76.5)	
25	39,800 (38.5)	39,800 (48)	39,800 (54)	36,500 (61.5)	31,900 (66)	29,200 (70)	27,500 (73.5)	17,500 (76.5)
30	27,030 (21.5)	27,030 (37.5)	27,030 (45)	27,030 (55.5)	27,030 (60.5)	25,000 (65.5)	23,900 (69.5)	16,600 (75)
35		20,280 (23)	20,280 (34.5)	20,280 (48.5)	20,280 (55)	20,280 (61)	20,280 (66)	14,500 (72.5)
40			15,950 (19)	15,950 (31)	15,950 (43)	15,950 (56.5)	15,950 (62)	12,800 (70)
45				12,840 (31.5)	12,840 (42)	12,840 (51.5)	12,840 (58)	11,400 (67)
50				10,640 (17.5)	10,640 (35)	10,640 (46)	10,640 (53.5)	10,200 (64.5)
55					8,800 (26)	8,800 (40.5)	8,800 (49)	9,190 (61.5)
60					7,480 (12.5)	7,480 (34)	7,480 (44)	8,440 (59)
65						6,320 (25.5)	6,320 (38.5)	7,670 (56)
70						5,290 (14)	5,290 (32.5)	6,570 (53)
75							4,310 (25)	5,650 (49.5)
80							3,440 (13.5)	4,810 (46)
85								4,120 (42.5)
90								3,500 (39)
95								2,960 (34.5)
100								2,480 (29.5)
105								2,080 (24)
110								1,710 (16)

A6-829-002754 & -002760

NOTE: Boom Angles (degrees) are to be used for reference only appear below the load.

ON OUTRIGGERS FULLY EXTENDED - OVER REAR

Radius in Feet	Boom Length in Feet							84 ft. + 32 ft. Ext. **116
	*34	40	44	54	64	74	84	
10	100,000 (70)	1,000 (73)	72,000 (76)					
12	90,000 (66.5)	70,000 (70)	67,500 (73.5)	64,000 (76.5)				
15	72,000 (61)	63,700 (65.5)	61,000 (69)	55,000 (73)	44,700 (76)			
20	53,000 (50.5)	52,200 (57.5)	49,800 (62)	44,000 (67.5)	37,900 (71)	35,000 (74)	31,000 (76.5)	
25	41,000 (38.5)	41,000 (48)	41,000 (54)	36,300 (61.5)	31,900 (66)	29,200 (70)	27,500 (73.5)	17,500 (76.5)
30	29,690 (21.5)	29,690 (37.5)	29,690 (45)	29,690 (55.5)	29,690 (60.5)	27,000 (65.5)	25,000 (69.5)	16,600 (75)
35		22,650 (23)	22,650 (34.5)	22,650 (48.5)	22,650 (55)	21,800 (61)	20,500 (66)	14,500 (72.5)
40			18,090 (19)	18,090 (41)	18,090 (49)	18,090 (56.5)	17,900 (62)	12,800 (70)
45				14,840 (31.5)	14,840 (42)	14,840 (51.5)	14,840 (58)	11,400 (67)
50				12,330 (17.5)	12,330 (35)	12,330 (46)	12,330 (53.5)	10,200 (64.5)
55					10,440 (26)	10,440 (40.5)	10,440 (49)	9,190 (61.5)
60					9,100 (12.5)	9,100 (34)	9,100 (44)	8,440 (59)
65						7,990 (25.5)	7,990 (38.5)	7,76 (56)
70						6,880 (14)	6,880 (32.5)	7,100 (53)
75							5,770 (25)	6,630 (49.5)
80							4,660 (13.5)	6,130 (46)
85								5,360 (42.5)
90								4,630 (39)
95								3,980 (34.5)
100								3,420 (29.5)
105								2,940 (24)
110								2,560 (16)

A6-829-002748 & -002760

NOTE: Boom Angles (degrees) are to be used for reference only appear below the load.

Capacities appearing above bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.

*Capacities for 34 ft. boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for 40 ft. boom length.

**Boom must be fully extended when lifting with the boom extensions.

The following deductions from rated main boom capacities must be made if machine is equipped accordingly:

- With 32 ft. boom extension in stowed position 290 lbs.
- With 32 ft. boom extension in operating position and lifting over main boom 2,350 lbs.
- With 32 ft. boom extension and 24 ft. jib in operating positions and lifting with main boom 5,825 lbs.