TMS300B

40 TON CAPACITY 34 ft. - 136 ft. BOOM

(POWER PINNED) 85% OF TIPPING PCSA CLASS 10-114

JIB CAPACITIES IN POUNDS 24 ft. JIB and 32 ft. EXT. Combination

Main Boom	Min. 5°	17°	Max. 30°
Angle	Offset	Offset	Offset
76°	6,000	5,200	4,600
70	4,300	3,940	3,650
65	3,430	3,200	3,010
60	2,760	2,600	2,470
55	2,220	2,110	2,020

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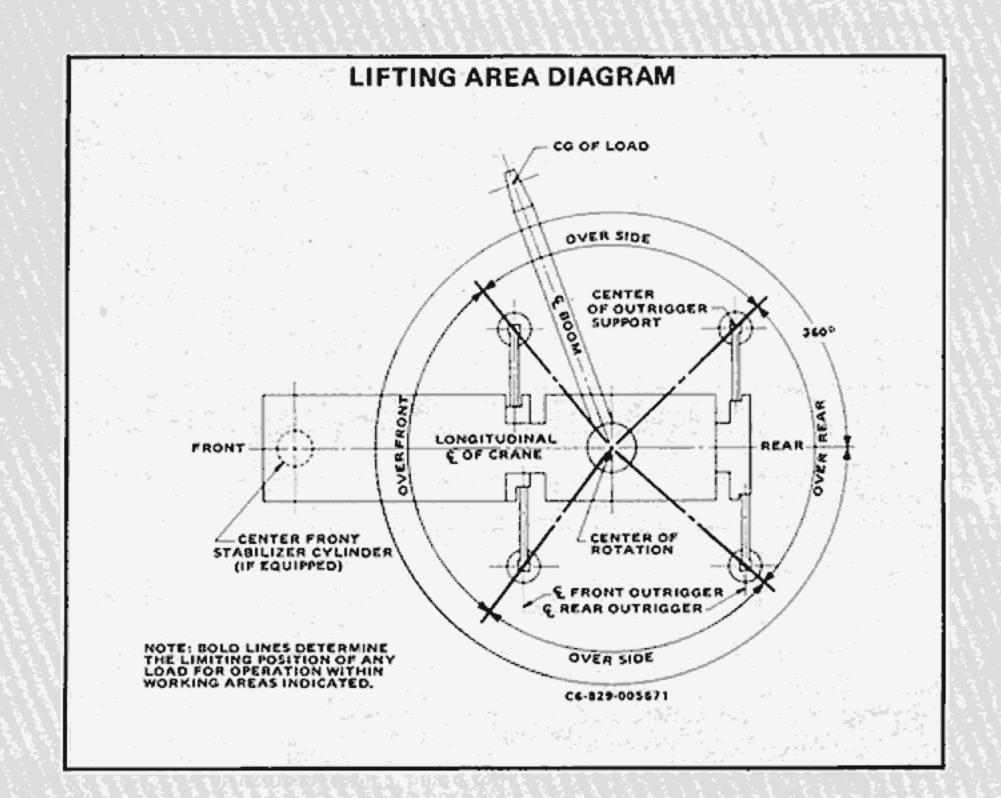
NOTES FOR JIB CAPACITIES

- 1. 24 ft. jib and 32 ft. boom extension combination may be used for single line lifting crane service only. Capacities are based on structural strength of 24 ft. jib and 32 ft. boom extension combination at given main boom angle regardless of main boom length. When lifting with 24 ft. jib and 32 ft. boom extension, capacities must not exceed structural capacity of jib combination at given main boom angle or stability capacity of applicable boom length listed in boom capacity chart for actual working radius, whichever is less. Capacities comply with structural requirements of SAE J-987 or SAE J-1063.

 2. Maximum total length of boom including 32 ft. boom extension for purpose of erecting 24 ft. jib below 10° elevation is 92 ft.

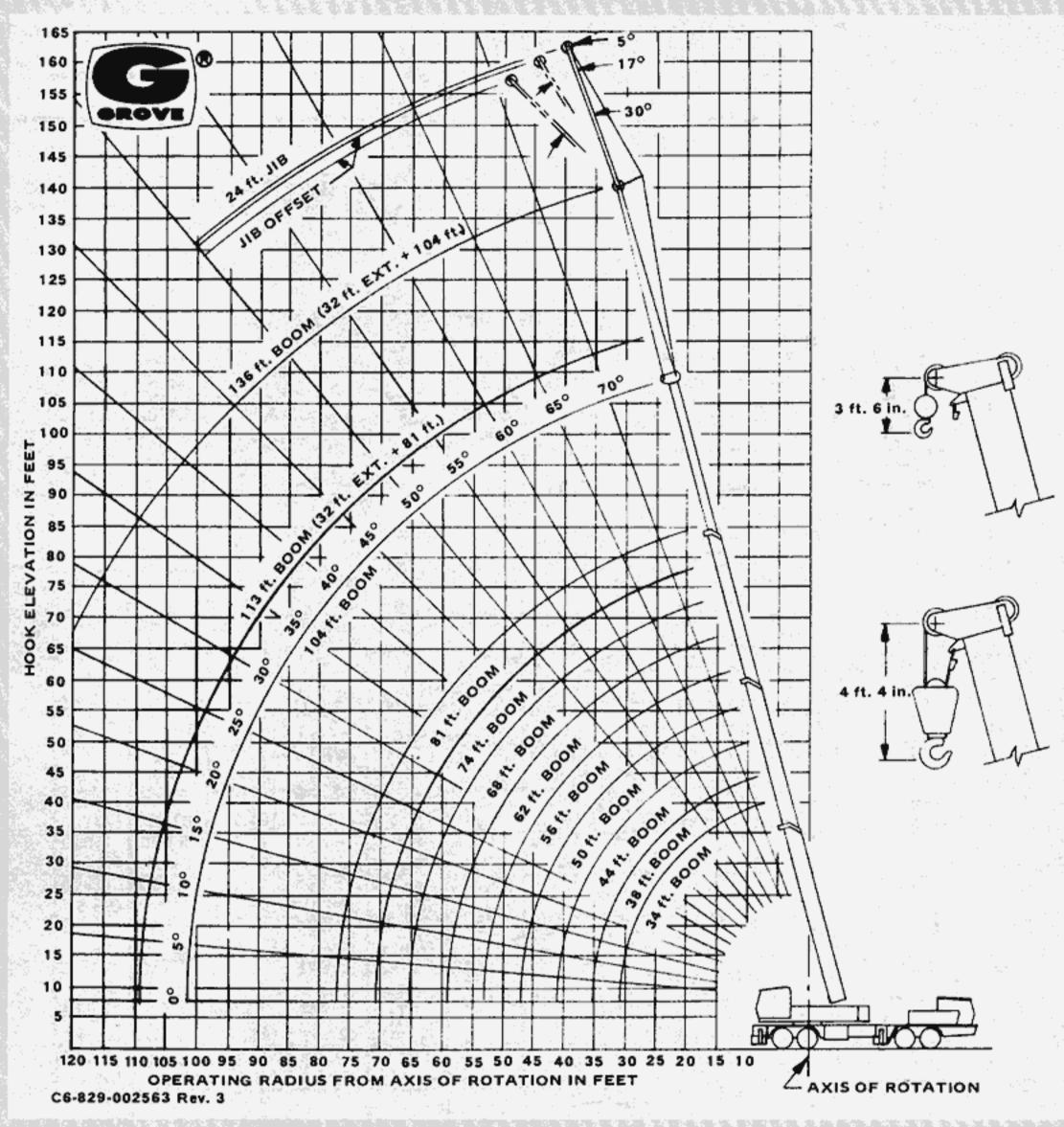
 3. WARNING: Operation of machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with jib occurs rapidly and without

- 4. 24 ft. JIB WARNING: For total boom length including 32 ft. boom extension greater than 92 ft. with 24 ft. jib in working position the boom angle must not be less than 50° since loss of stability will occur causing a tipping condition.
- 5. Lifting over front of machine with 24 ft. Jib is strictly prohibited. (NOTE: Not applicable to units equipped with front outrigger jack)



GROVE TMS300B

RANGE DIAGRAM



WEIGHT REDUCTION FOR LOAD HANDLING DEVICES

32 ft. BOOM EXTEN	ISION
†STOWED -	430 lbs.
†ERECTED -	2,985 lbs.
24 ft. JIB & 32 ft. E	XT COMB.
†STOWED -	479 lbs.
TERECTED -	7,210 lbs.
ttERECTED -	1,739 lbs.

†Reduction of main boom capacities. ††Reduction of 32 ft. Ext. capacities.

HOOK BLOCK

40 Ton, 3 Sheave . . 640 lbs.
15 Ton, 1 Sheave . . 310 lbs.
Auxiliary Boom Head . 190 lbs.
5 Ton Headache Ball . 150 lbs.
7½ Ton Headache Ball . 300 lbs.
10 Ton Headache Ball . 500 lbs.

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.

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

NOTES FOR LIFTING CAPACITIES

1. Do not exceed any rated lifting capacity. Rated lifting capacities are based on freely suspended loads with the machine leveled and standing on a firm supporting surface. Ratings with outriggers are based on outriggers being extended to their maximum position and tires raised free of crane weight before extending the boom or lifting loads.

2. Practical working loads for each particular job shall be established by the user depending on operating condition to include: the supporting surface, wind and other factors affecting stability, hazardous surroundings, experience of personnel, handling of load, etc. No attempt must be made to move a load horizontally on the ground in any direction.

 Operating radius is the horizontal distance from the axis of rotation before loading to the centerline of the vertical hoist line or tackle with loads applied.

4. "On Rubber" lifting (if permitted) depends on proper tire inflation, capacity and condition. "On Rubber" loads may be transported at a maximum vehicle speed of 2.5 mi/hr (4 Km/hr) on a firm and level surface under conditions specified.

 Jibs may be used for lifting crane service only. Jib capacities are based on structural strength of jib or main boom and on main boom angle.

 Operation is not intended or approved for any conditions outside of those shown hereon. Handling of personnel from the boom is not authorized except with equipment furnished and installed by Grove Manufacturing Company.

7. For clamshell or concrete bucket operation, weight of bucket and load must not exceed

80% of rated lifting capacities.

8. Power-telescoping boom sections must be extended equally at all times. Long cantilever booms can create a tipping condition when in extended and lowered

9. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, boom lubrication, etc. It is safe to attempt to telescope any load within the limits of rated lifting capacity chart.

10. With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.

11. With certain boom and load combinations, raising of load with boom lift cylinders may not be possible. Operational safety is not affected by this condition.

12. Keep load handling devices a minimum of 12 inches (30 cm) below boom head when

lowering or extending boom.

13. If actual boom length and/or radius is between values listed, use lifting capacity for the next longer rated length and/or radius.

14. All load handling devices and boom attachments are considered part of the load and suitable allowances must be made for their combined weights.

15. Operation of this equipment in excess of rating charts or disregard of the instructions is hazardous and voids the warranty and manufacturer's liability.

Distributed by:



GROVE MANUFACTURING COMPANY

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DATE: 584-15M Printed in U.S.A.





TMS

40 TON C 34 ft. - 136

> (POWER 85% OF PCSA CLAS

RATED LIFTING CAP

ON OUTRIGGERS FULLY EXTENDED - OVER SIDE

Radius in	Main Boom Length in Feet (Power Pinned Fly Retracted)										32 ft. Ext. & 81 ft.	32 ft. Ext. & 104 ft
Feet	*34	38	44	50	56	62	68	74	81	104	113	136
10	80,000 (69)	68,000 (71.5)	64,000 (74.5)	60,000 (76.5)						See Warning Note 4	See Warning Note 5	See Warning Note 6
12	65,000 (65)	62,500 (68)	57,500 (71.5)	54,000 (74)	51,000 (76)	49,000 (77.5)						
15	57,000 (59.5)	55,000 (63)	50,000 (67.5)	46,500 (70.5)	43,900 (73)	41,900 (74.5)	40,000 (76.5)	·38,600 (77.5)				
20	46,890 (48.5)		39,500 (60)	36,500 (64)		32,700 (70)	31,400 (72)		28,700 (76)			
25	29,450 (35.5)	29,450 (44)	29,450 (52)	29,450 (57.5)		26,500 (65)	25,300 (67.5)	24,200 (69.5)	23,100 (72)	20,000	17,500 (77.5)	
30	20,560	20,560	20,560	20,560 (50)	20,560 (55.5)	20,560 (59.5)	20,560 (62.5)		19,000	77,750	15,400	
35	(14)		15,450 (31.5)	15,450	15,450	15,450	15,450	15,450	15,450	(74.5) 15,600	13,700	9,600
40	1.77		11,410 (13.5)	(42) 11,410 (32)	(49) 11,410	(54) 11,410	(57.5) 11,410	(61) 11,410	(64.5) 11,410	13,100	12,200	(77.5) 8,750
45			(13.3)	8,450	(41.5) 8,450 (32.5)	8,450 (41)	(52.5) 8,450	(56.5) 8,450	(60) 8,450	10,990	10,800	7,900
50				(18)	6,630 (20.5)	6,630 (33)	(47) 6,630 (40.5)	(51.5) 6,630	(56) 6,630	(65.5) 8,750	(67.5) 8,970	7,050
55		2 2 2 2			(20.5)	5,280 (22.5)	5,280 (33)	5,280 (40)	5,280	7,130	7,300	6,350
60				* * *	₩	(22.5)	4,090 (24)		(46.5) 4,090 (41)	(59) 5,650 (55.5)	(61.5) 5,890 (58.5)	(68.5) 5,800
65		i V	1	7 7			3,060	3,060	3,060 (35)	4,500 (52)	4,760 (55.5)	5,190 (63.5)
70	10 m			4			(3)	2,150 (11.5)	2,150 (27.5)	3,600 (48)	3,780 (52.5)	4,440 (61.5)
75				May 1 of 1	2.7				1,300	2,840 (44)	3,000 (49)	3,690 (58.5)
80	3 4 3 4 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 1							*	(17)	2,150	2,340 (45)	2,950 (56)
85							121111	1 12		1,550	1,740	2,370 (53.5)
90		7	7.		·					1,020 (29.5)	1,170	1,930
95	<u></u>		factors and				· · · · · · · · · · · · · · · · · · ·			(23.5)	(37)	1,530
100										enserger, or Star Star		1,130 (44.5)

NOTE:Boom angles are in degrees.

A6-829-006311 & -002137D

NOTES FOR ON O

- 1. Capacities appearing above the bold line are based on structural strength and tipping sho tipping loads as determined by test in accordance with SAE recommended practice-cran
- Do not exceed any rated load when lifting regardless of whether it is based on structural
 Boom angle is the included angle between horizontal and the axis of the boom base sect
 For boom lengths less than 104 ft. with power pinned fly extended, the rated loads are
- angles not shown, use rating of next lower boom angle.

 5. For boom lengths less than 113 ft. with power pinned fly retracted and 32 ft. boom ext
- by 113 ft. boom. For boom angles not shown, use rating of next lower boom angle.

 6. For boom lengths less than 136 ft. with power pinned fly extended and 32 ft. boom ext
- by 136 ft. boom. For boom angles not shown, use rating of next lower boom angle.

 *7. Capacities for the 10.3m boom length shall be lifted with boom fully retracted. If boom length.

TMS300B

40 TON CAPACITY 34 ft. - 136 ft. BOOM

(POWER PINNED) 85% OF TIPPING PCSA CLASS 10-114



IFTING CAPACITIES IN POUNDS

SIDE

ON OUTRIGGERS FULLY EXTENDED - OVER REAR

	Power Pin, Fly & 81 ft.	32 ft. Ext.	32 ft. Ext.
35	104	8 81 ft.	& 104 ft 136
	See	See	See
	Warning Note 4	Warning Note 5	Warning Note 6
0		1845	
0	20,000	17,500	
	(77)	(77.5)	
0	77,750	15,400	科学公 克。
	(74.5)	(75.5)	
0	15,600	13,700	9,600
) ်	(71.5)	(73)	(77.5)
0	13,100	12,200	8,750
	(68.5)	(70.5)	(75.5)
0	10,990	10,800	7,900
	(65.5)	(67.5)	(73)
0	8,750	8,970	7,050
)	(62)	(64.5)	(71)
0	7,130	7,300	6,350
<u>, </u>	(59)		(68.5)
0	5,650	5,890	5,800
0	(55.5)	(58.5)	(66)
٦	4,500 (52)	4,760 (55.5)	5,190 (63.5)
0	3,600	3,780	4,440
ĭ	(48)	(52.5)	(61.5)
0	2,840	3,000	3,690
	(44)	(49)	(58.5)
	2,150	2,340	2,950
	(40)	(45)	(56)
	1,550	1,740	2,370
	(35)	(41)	(53.5)
	1,020	1,170	1,930
	(29.5)	(37)	(50.5)
3			1,530
4			(47.5)
			1,130
章 支			(44.5)
	20.0000	11 & -00	221275

6-829-006311 & -002137D

Radius in				in a sand of the first	jth in Fee y Retract					PowerPin Fiy & 81 ft.	32 ft. Ext. & 81 ft.	32 ft Ext. 104 f
Feet	*34	38	44	50	56	62	68	74	81	104	113	136
10	80,000	68,000	64,000	60,000			有"这些"。		1-4-1	See Warning	See Warning	See Warni
	(69)	(71.5)	(74.5)	(76.5)	S. 18.					Note 4	Note 5	Note
12	65,000	62,500	57,500	54,000	51,000	49,000				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	(65)	(68)	(71.5)	(74)	(76)	(77.5)					Section 1	
15	57,000	55,000	50,000	46,500	43,900	41,900	40,000	38,600				
	(59.5)	(63)	(67.5)	(70.5)	(73)	(74.5)	(76.5)	(77.5)				
20	47,000	43,000	39,500	36,500	34,500	32,700	31,400	30,000	28,700			
	(48.5)	(54)	(60)	(64)	(67.5)	(70)	(72)	(73.5)	(76)			
25	35,675	33,300	31,000	30,000	28,100	26,500	25,300	24,200	23,100	20,000	17,500	
	(35.5)	(44)	(52)	(57.5)	(61.5)	(65)	(67.5)	(69.5)	(72)	(77)	(77.5)	
30	25,200	25,200	25,200	25,200	23,500	22,100	21,000	20,000	19,000	17,750	15,400	
	(14)	(31)	(43)	(50)	(55.5)	(59.5)	(62.5)	(65.5)	(68)	(74.5)	(75.5)	
35			19,340	19,340	19,340	18,700	17,700	16,800	16,000	15,600	13,700	9,60
			(31.5)	(42)	(49)	(54)	(57.5)	(61)	(64.5)	(71.5)	(73)	(77.5
40			15,190	15,190	15,190	15,190	15,190	14,400	13,600	13,100	12,200	8,75
en la			(13.5)	(32)	(41.5)	(47.5)	(52.5)	(56.5)	(60)	(68.5)	(70.5)	(75.5
45				12,310	12,310		12,310	12,310		11,300		7,90
				(18)	(32.5)	(41)	(47)	The Control of the Control	(56)	(65.5)	(67.5)	(73)
50					10,000	10,000	10,000	10,000	10,000	9,930	9,410	7,05
					(20.5)	(33)	(40.5)	(46)	(51.5)	(62)	(64.5)	(71)
55						8,180	8,180	8,180	8,180	8,710	8,230	6,35
						(22.5)	(33)	(40)	(46.5)	(59)	(61.5)	(68.5
60							6,650	6,650	6,650	7,680	7,240	5,80
	1, Pa # 1						(24)	(33.5)	(41)	(55.5)	(58.5)	(66)
65					Marine Marine		5,280	5,280	5,280	6,800	6,380	5,20
		in in the same					(3)	(25)	(35)	(52)	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(63.5
70		Part to						4,140	4,140	5,990	5,640	4,75
							and the contract of	(11.5)	(27.5)	(48)	and the second of the second o	(61.5
75	Segan Villa	Table of Control					1000	Marine E	3,320	5,000	4,910	4,35
									(17)	(44)	and the second of the second	(58.5
80					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	King William				4,060	4,090	4,05
		专业方案	the grant							(40)	A 1 A Martin Co. 1976 CT	(56)
85						2 2 2				3,290	3,420	3,70
									4.54 - 21	(35)	1 (177) a r Novembro	(53.5
90	Mary Mary 1							¥		2,730	2,830	3,28
										(29.5)	(37)	(50.5
95						i.				2,210	2,330	2,87
							5			(22.5)	er and the second of the	(47.5
100										1,680	1,890	2,47
									. N	(10.5)	(26.5)	(44.5
105										1 4 mg 1	1,470	2,08
											(19)	(41)
110								200			(1,70
											AND B	(37.5)
115							· · · · · · · · · · · · · · · · · · ·	,			11 La	1,34
										1		(33.5)
120			41 Neph									1,01
4 4 4		10.000000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1	7 11 1		3				

NOTE:Boom angles are in degrees.

A6-829-006309A & -002137D

NOTES FOR ON OUTRIGGERS

n structural strength and tipping should not be relied upon as a capacity limitation. Capacities do not exceed 85% of ith SAE recommended practice-crane load stability test code - SAE J-765.

s of whether it is based on structural strength or stability.

I and the axis of the boom base section after lifting rated load.

ed fly extended, the rated loads are determined by boom angle only in the column headed by 104 ft. boom. For boom gle.

ed fly retracted and 32 ft. boom ext. erected, the rated loads are determined by boom angle only in the column headed ating of next lower boom angle.

ed fly extended and 32 ft. boom ext. erected, the rated loads are determined by boom angle only in the column headed

ating of next lower boom angle.

With boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 11.6m boom