NATIONAL NBT30H

EQUIPMENT SPECIFICATIONS

IRVING EQUIPMENT LIMITED

WITHOUT QUESTION

CAPACITY INFO

RATED LIFTING CAPACITIES IN POUNDS WITH STOWED EXTENSION 29FT. – 100FT. BOOM ON OUTRIGGERS FULLY EXTENDED

Radius in Feet	#002					
	Main Boom Length in Feet					
	29	44-A	58-B	72-C	86-D	100
5	*59,200 (77.3)					
8	43,200 (70.8)	28,500 (77.9)				
10	36,100 (66.4)	28,400 (75.3)				
12	32,650 (61.8)	28,000 (72.7)	28,150 (78)			
15	27,500 (54.5)	24,000 (68.4)	23,050 (74.8)	22,550 (79)		
20	21,150 (40.6)	20,400 (60.9)	18,550 (69.4)	17,100 (74.6)	16,000 (78.3)	10,400 (79.9)
25	14,900 (19.9)	16,900 (52.7)	16,050 (63.8)	15,350 (70.3)	13,400 (74.8)	10,200 (77.3)
30		12,200 (43.5)	12,750 (57.9)	13,150 (65.8)	11,050 (71)	9,750 (74.4)
35		9,550 (32.2)	9,650 (51.6)	10,050 (61.1)	10,300 (67.3)	9,150 (71.8)
40		7,250 (16.3)	7,550 (45)	7,900 (56.6)	8,150 (63.8)	7,800 (68.9)
45			6,050 (37)	6,350 (51.3)	6,600 (59.6)	6,850 (65.6)
50			4,800 (26.9)	5,150 (45.5)	5,350 (55.3)	5,600 (62)
55				4,150 (39.1)	4,400 (50.8)	4,600 (58.2)
60				3,350 (31.7)	3,500 (45.9)	3,750 (54.5)
65				2,700 (22.1)	2,850 (40.6)	3,050 (50.5)
70					2,300 (34.7)	2,500 (46.3)
75					1,800 (27.7)	2,000 (41.8)
80					1,400 (18.2)	1,550 (36.8)
85						1,200 (31.2)
90						900 (24.4)
95						650 (14.6)
Minimum boom angle (°) for indicated length (no load)						0
Maximum boom length (ft.) at 0° boom angle (no load)						100

NOTE: ( ) Boom angles are in degrees.
#RCL operating code. Refer to RCL manual for operating instructions
*This capacity requires optional 9/16" dia. 6x25 IWRC cable.

RATED LIFTING CAPACITIES IN POUNDS WITH 25 FT.- 44 FT. TELE BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED

Radius in Feet	25 ft. LENGTH	44 ft. LENGTH
	#003	#004
35	4,900 (77.9)	
40	4,500 (76.5)	
45	4,050 (73.7)	2,500 (75.9)
50	3,700 (71.2)	2,500 (74.3)
55	3,400 (68.7)	2,500 (72.4)
60	3,150 (66.2)	2,300 (70.2)
65	3,000 (63.7)	2,200 (68.1)
70	2,700 (60.7)	2,100 (66)
75	2,250 (57.5)	2,000 (63.8)
80	1,800 (53.9)	1,850 (61.3)
85	1,350 (50.2)	1,800 (59)
90	1,000 (46.2)	1,500 (56)
95	700 (42.4)	1,200 (52.8)
100		900 (49.5)
105		600 (46)
110		500 (42.8)
Min. boom angle for indicated length (no load)	36°	40°
Max. boom length at 0° boom angle (no load)	72 ft.	72 ft.

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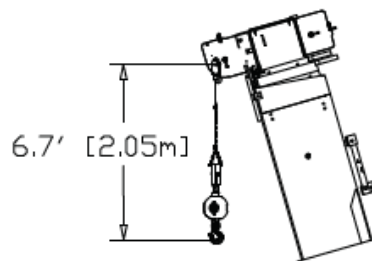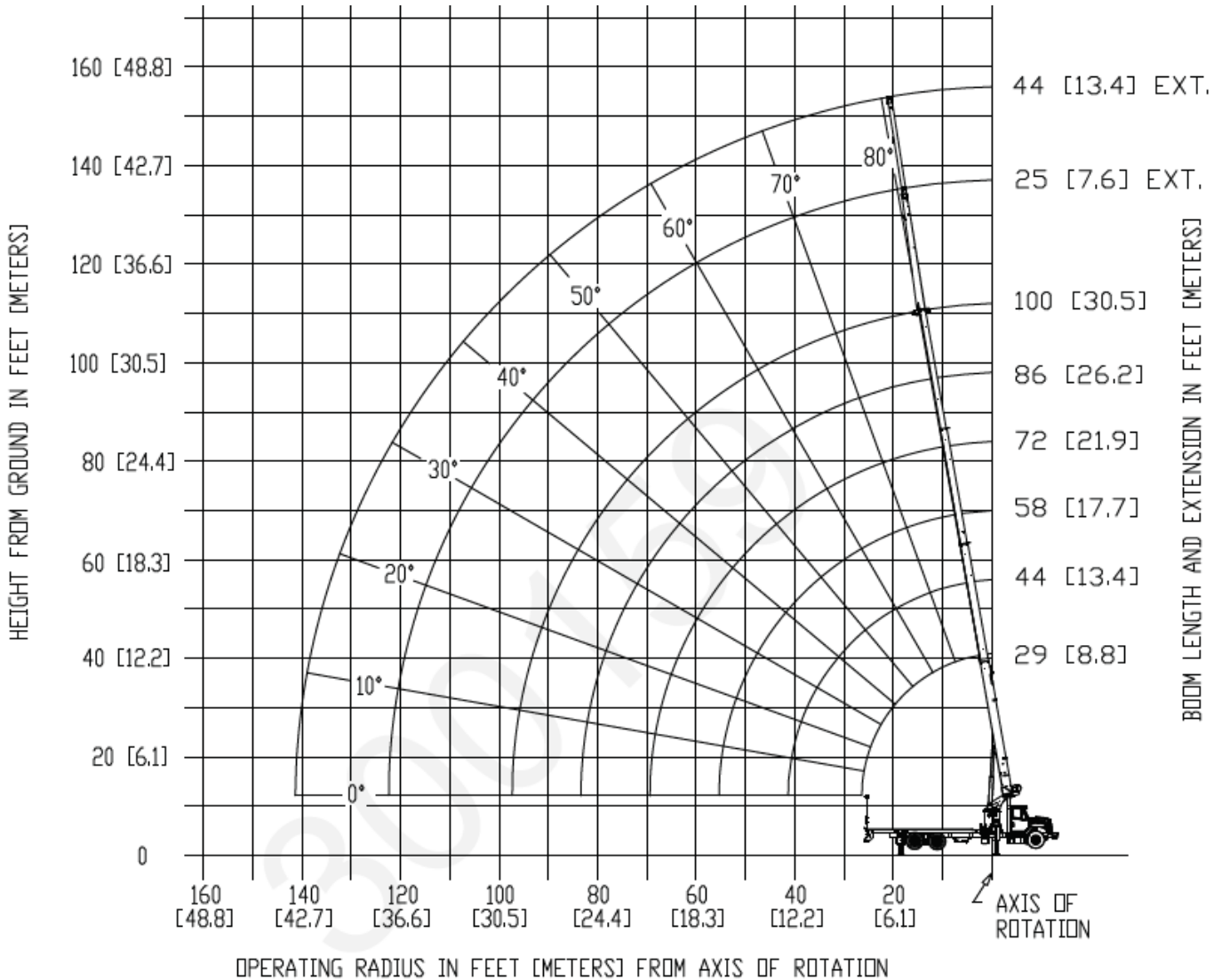NOTE: ( ) Boom angles are in degrees.
#RCL operating code. Refer to RCL manual for operating instructions.

RANGE INFO

Chart axes:
- HEIGHT FROM GROUND IN FEET [METERS]
- BOOM LENGTH AND EXTENSION IN FEET [METERS]
- OPERATING RADIUS IN FEET [METERS] FROM AXIS OF ROTATION

Height axis values: 160 [48.8], 140 [42.7], 120 [36.6], 100 [30.5], 80 [24.4], 60 [18.3], 40 [12.2], 20 [6.1], 0

Boom length and extension values: 44 [13.4] EXT., 25 [7.6] EXT., 100 [30.5], 86 [26.2], 72 [21.9], 58 [17.7], 44 [13.4], 29 [8.8]

Angle lines: 0°, 10°, 20°, 30°, 40°, 50°, 60°, 70°, 80°

Operating radius values: 160 [48.8], 140 [42.7], 120 [36.6], 100 [30.5], 80 [24.4], 60 [18.3], 40 [12.2], 20 [6.1]

AXIS OF ROTATION

6.7' [2.05m]

DIMENSIONS ARE FOR LARGEST FURNISHED HOOK BLOCK & HEADACHE BALL, WITH ANTI-TWO BLOCK ACTIVATED.

*DRAWING IS TO SHOW THE PHYSICAL REACH OF THE MACHINE. ALWAYS REFER TO LOAD CHART TO SEE WHAT PORTIONS OF THIS RANGE ARE STRUCTURALLY AND STABILITY LIMITED.

INFO

LINE PULLS AND REEVING INFORMATION

HOISTS	CABLE SPECS.	PERMISSIBLE LINE PULLS	NOMINAL CABLE LENGTH
Main Standard	9/16" 18x19 Class Rotation Resistant EIPS, WSC Min. Breaking Strength 38,500 lb	7,700 lb	390 ft.
*Main Optional	9/16" 6x25 Class, IWRC Min. Breaking Strength 33,600 lb	8,600 lb	390 ft.

The approximate weight of 9/16" wire rope is 0.70 lb/ft.
*Reference operator's manual for additional requirements for 60,000 lb lift.

Parts of line	1	2	3	4	5	6	7
Max. boom length (ft.) at max. elevation with stated rigging and load block at ground level	144	100	75	60	50	43	36
Low speed lift (lb)	7700	15400	23100	30800	38500	46200	53900
High speed lift (lb)	3000	6000	9000	12000	15000	18000	21000

HOIST PERFORMANCE

Wire Rope Layer	Hoist Line Pulls		Drum Rope Capacity (ft.)	
	Two Speed Hoist			
	Low	High		
	Available lb*	Available lb*	Layer	Total
1	10,609	5,305	65	65
2	9,566	4,783	72	137
3	8,709	4,355	79	216
4	7,993	3,997	86	302
5	7,386	3,693	93	395

*Max. lifting capacity: 18x19 class = 7,700 lb

- ☑ Full-service provider for crane rental, rigging, and lift planning.
- ☑ Daily, weekly, monthly rates available
- ☑ Dry-lease and long-term rentals
- ☑ Our purpose is to leave 'no room for doubt'!