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Lázaro Cárdenas No. 2951 Col. Álamo industrial, Tlaquepaque Jal. C.P. 45593

# National Series 900 Telescoping Crane

Designed Exclusively for the Canadian Market



Load Rating Charts
for Model 990 (50,000-pound
capacity crane) without a jib
and with a 48-foot jib



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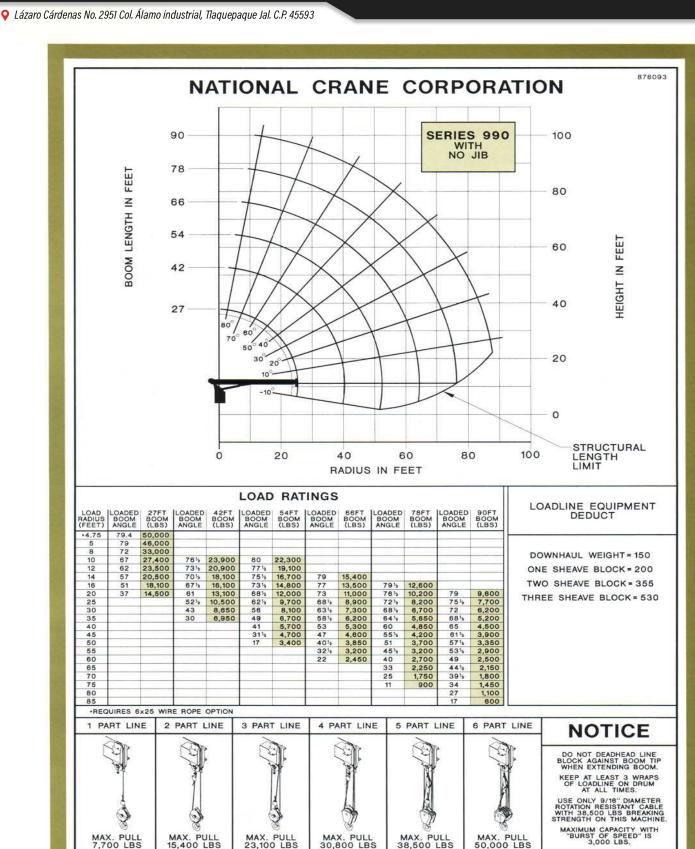
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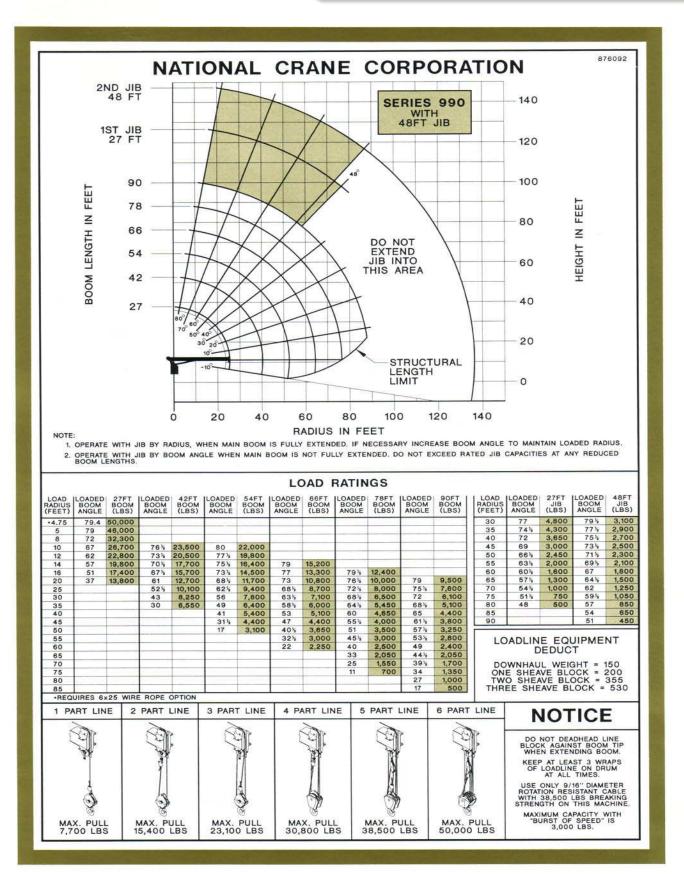
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### National Series 900 **Booms and Jibs**

Boom and Jib Combination

Series 900: 27 - 90 ft four section The grant country of the control of the country of the defendance of

Scries 900: 27 - 90 ft four section

9FJ48M: 27 - 48 ft manual pull-out

Reaches to 146 feet The Series 900 is currently available in the two configurations shown above

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- 1 The Series 900 with the 27-90 ft four section boom
- 2 Same as above with optional side-stowing jib: Model 9FJ48M, 27 - 48 ft manual pull-out

Do not operate crane booms, jib extensions, any accessories, or loads within 10 feet (3m) of live power lines or other conductors of electricity. 1 Load ratings shown on these charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane

leveled and mounted on a factory-recommended truck 2 Always level the crane with the level indicator located on the crane frame 3 The operator must reduce loads to allow for factors such as wind, ground conditions, operating speeds and the effect of freely suspended loads

- 4 Overloading this crane may cause structural collapse or instability 5 Weights of any accesso-
- ries attached to the boom or loadline must be deducted from the load chart capaci-
- 6 Do not exceed jib capacities at any reduced boom lengths

NATIONAL SERIES 900		1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6Part Line	
WINCH DATA  CAUTION		- CON	POPP -	<b>FOR</b>	<b>FOR</b>	P. COM	TO THE STATE OF TH	
Do not deadhead lineblock against boom tip when extending boom     Keep at least three wraps of loadline on drum at all times     Use only 9/16" diameter rotation resistant cable with 38,500 pounds breaking strength on this machine     Maximum capacity with "Burst-of-Speed" is 3,000 pounds			De la		Town to the second			
Winch	CableSupplied	AverageBreaking Strength	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed
Standard Planetary Winch	9/16* diameter rotation resistant 19 x 7 IWRC	38,500 lbs	7,700 lbs 164 fpm	15,400 lbs 82 fpm	23,100 lbs 55 fpm	30,800 lbs 41 fpm	38,500 lbs 33 fpm	46,000 lbs 27 fpm
	Optional 9/16" diameter 6 x 25 IWRC	29,750 lbs	7,700 lbs 164 fpm	15,400 lbs 82 fpm	23,100 lbs 55 fpm	30,800 lbs 41 fpm	38,500 lbs 33 fpm	46,000 lbs 27 fpm
with "Burst-of-Speed" Feature	Same as corresponding cable data shown above		3,000 lbs 265 fpm	6,000 lbs 133 fpm	9,000 lbs 88 fpm	12,000 lbs 66 fpm	15,000 lbs 53 โวนฉ	18,000 lbs 44 fpm

All winch pulls and speeds are shown on the fourth layer Winch pulls would increase on the first, second and third layers Winch line pulls would decrease on the first, second, and third layers Winch line pulls may be limited by the winch capacity or the cable safety factor These are shown below:

With standard rotation resistant rope With optional 6 x 25 IWRC rope

Bare Drum Pull 10,000 pounds 10,000 pounds

Allowable Cable Pull 7,700 pounds 8,400 pounds

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# **National Series 900 Truck Specifications**

Mounting Configurations	Configuration 1 with Torsion Box	Configuration 2 with Torsion Box		
The versatility of the Series 900 can be enhanced by the mounting configurations described at the right. The configurations are based on the Series 900 with an 85% stability factor. The complete unit must be installed in accordance with factory requirements and a test performed to determine actual stability and counterweight requirements since individual truck chassis vary.	This configuration is the least expensive mounting method for the Series 900 This mount, with the crane mounted behind the truck cab, requires the least weight of all mounts for stability, thus, you can haul larger payloads on your truck. It requires standard subbase and rear (RSOD) stabilizers	This mount requires front stabilizers to give the machine full capacity 360° around the truck. Care must be taken in the selection of the truck. It must meet the minimum requirements shown below. The front stabilizer gives the machine a solid base, helping the operator control the loads precisely. Requires front and rear down-and-out stabilizers and a subbase. The truck frame must be made from 110,000 PSI steel. See "Truck Frame and Mounting Bolt Requirements for Front Stabilizer" statement on page 11 Contact the factory for details.		
Stable	180°	360°		
Gross Axle Weight Rating (GAWR), front	16,000 lbs	16,000 lbs		
Gross Axle Weight Rating (GAWR), rear	34,000 lbs	34,000 lbs		
Wheelbase (WB)	234 inches	23 í inches		
Cab to axle/trunnion (CA/C1)	156 inches	156 inches		
Frame Section Modulus (SM) under crane 50,000 PSI or	35 0 inch <sup>3</sup>	Not applicable (see note above)		
110,000 PSI	15 9 inch <sup>3</sup>	20 0 inch,		
Frame Section Modulus (SM) over rear stabilizers: 50,000 PSI or	17 0 inch <sup>3</sup>	Not applicable (see note above)		
110,000 PSI	13 0 inch <sup>3</sup>	13 0 inch <sup>3</sup>		
Stability Weight, Front	7,500 lbs minimum *	7,500 lbs minimum *		
Stability Weight, Rear	9,100 lbs minimum, RSOD *	9,100 lbs minimum, RSOD *		
Estimated Average Final Weight	37,500 lbs	37,500 lbs		
NOTES:  (1) GAWR means Gross Axle Weight Rating and is dependent on all components of the vehicle such as axles, tires, springs, frame, etc meeting manufacturer's recommendations Always specify GAWR when purchasing trucks  (2) Minimum axle requirements may increase with use of longer wheelbase, service bodies, diesel engines or front stabilizers  (3) Diesel engines require variable speed governor and energize-to-run fuel solenoid for smooth crane operation	STABLIZER  SOOO LBS MIN STOOLBS  COVI  THE STABLIZER  SOOO LBS MIN STOOLBS  FOLL  CAPACITY  WORN AREA	TITUE 2007  TO THE STABILIZER  FROD  TO THE STABILIZER  FROD  TO THE STABILIZER  FROD  TO THE STABILIZER  TO		
	* Estimated axle scale weights prior to installation of crane, stabilizers, and subbase for 85% sta			



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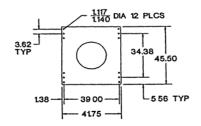
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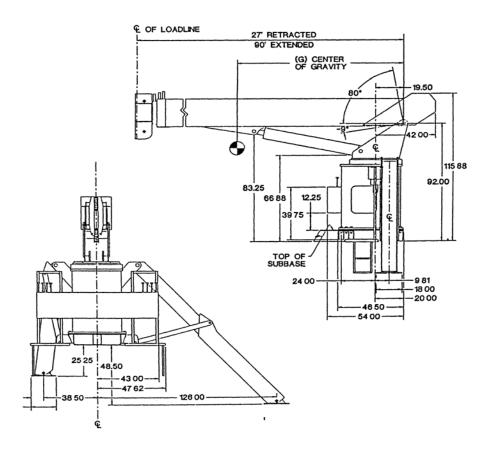
## **National Boom Rests**

### **Dimensional Specification**

Series	Retracted Length	Extended Length	G	Dry* Wt/Lb	With Oil • Wt/Lb
990	27 ft	90 ft	98"	19,000*	19,800*

\* Weight includes all items except RSOD (1200#)





Cranes are tough when they're in use, but they can be severely damaged during travel from job to job The only way a crane can be protected from this type of wear and damage is a strong, solid, boom rest

### **Boom Rests**

- Add years to the life of your crane
- · Reduce stress on the crane frame
- Protect rotation gear from transit damage
- Remove stress from truck frame
- Spread crane load more evenly
- Reduce maintenance and downtime

In addition, boom rests are required to provide a positive way to immobilize your crane for transit

National Crane supplies two heavy-duty boom rests for strong, sure protection of your crane There is a quality National boom rest to fit your mounting configuration All National Cranes must be fitted with a boom rest All factory mounted cranes will be supplied with a boom rest



Horizontal rear bed mount for greater load space



Low-profile rear bed mount for lower center of gravity