

# National Series 1255

The Heavy-duty Lifting System for Your Public Works Department

Maximum Vertical Reach: 102 Feet Maximum Capacity at 10-Foot Radius: 35,000 Pounds



From America's Truck-Mounted Hydraulic Crane Leader



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LOAD RADIUS (FEET)	LOADED BOOM ANGLE (DEGREES)	OVER SIDE (ib)	OVER REAR (lb)
24	74*	4700	4700
31	70°	3800	3800
39	65°	3200	3200
46	60°	2750	2750
53	55°	2350	2350
60	50°	2100	2100
65	45°	1900	1900
71.	40°	1750	1750
76	35°	1600	1600
81	30°	1500	1500

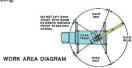
### SHADED AREAS ARE STRUCTURALLY LIMITED CAPACITIES

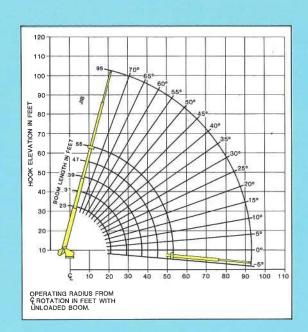
Capacities shown are with 400-pound block rigged on main boom. If 200-pound block is rigged on main boom, add 150 pounds to capacities shown. If no block is rigged on main boom, add 250 pounds to capacities shown.

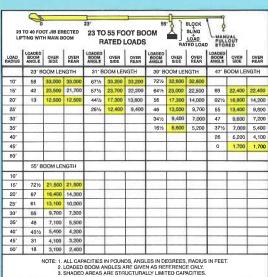
- Fully extend outriggers and level crane
- 2. Rig jib as shown in the operators manual.

- Operate with jib by radius, when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
- Coperate will be by boom angle when main boom is not fully extended. Do not exceed rated jib capace any reduced boom lengths.

   All jib loads must be lifted with single part reeving.







SET-UP:

1. Fully extend outriggers and level crane.

2. 23 to 40 tool jb pinsed on boom tip (at 23 tool tength) with 150 lb, downhaul weight freely suspended over jib tip.

OPERATION:

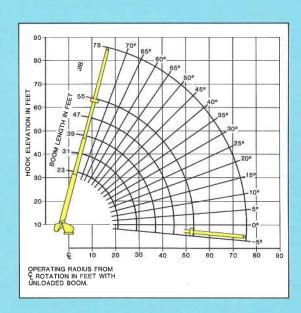
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NOT ATTEMPT ANY LIFT WITH BOTH BLOCKS.

2. When tellescoping boom, lover both blocks to avoid two-blocking.

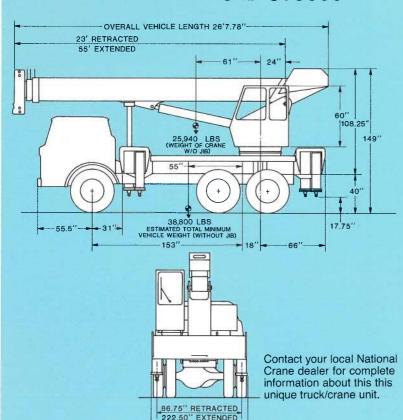
3. 23 foot boom length capacities are based on fully retracted boarn.





# National 1255 **Truck/Crane Specifications**

## SERIES 1255 ON FORD CT8000



95.50"

# TRUCK AND AXLE RATING

Gross axle weight rating (GAWR) front	16,000 pounds*
Gross axle weight rating (GAWR) rear	
Wheelbase	153 inches
Cab to axle/trunnion (CA/CT), free of obstructions, full width in	
crane mounting area	122 inches
Frame section modulus (SM) front axle to rear axle	
30,000 PSI	34.89 inch <sup>3</sup>
Estimated bare chassis weight required for stability prior to installation of crane or accessories	
Front	

Estimated installed chassis weights for 85% crane stability factor (weight shown in

	Front axle*	Rear axle	Total chassis weight
With block	14,530	24,670	39,200
With jib and block	15,310	25,010	40,320

\*If equipped with any options that significantly add to the front axle weight (i.e., a jib), an axle with an 18,000-pound rating

### NOTES:

- (1) Diesel engines require variable speed governor and electric engine shut-off for smooth crane operation.
- (2) Air dryer is required on cranes with continuous rotation.
  (3) 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 recommendation. Always specify GAWR when purchasing trucks.

## Do not operate cranes or accessories within 10 feet (3m) of live power lines.

- 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 factoryrecommended truck.
- 2. Always level the crane with the level indicator located at the outrigger control station.
- 3. The operator must reduce loads to allow for factors

such as wind, ground conditions, operating speeds and the effect of freely swinging loads.

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





# NATIONAL CRANE

**General Offices** 

11200 North 148th Street/Waverly, NE 68462 Phone: 402-786-2240; Telex: 438061; Fax: 402-786-3636

National reserves the right to change designs, prices and specifications at any time without notice.

## Your National Dealer: