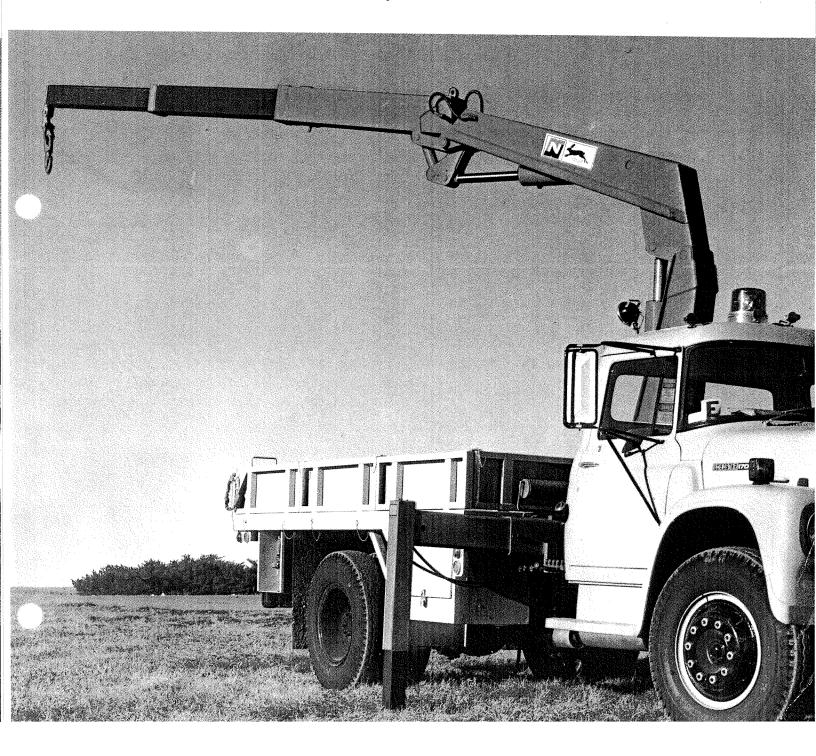


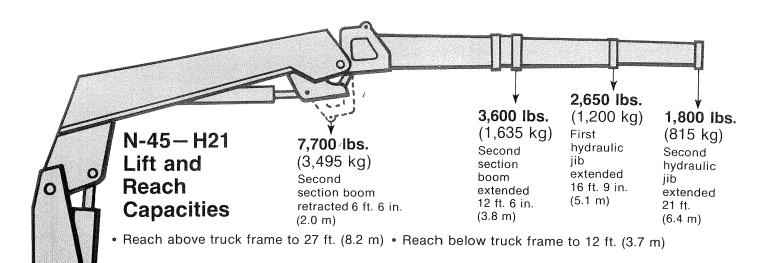


NATIONAL CRANE N-45-H21 The articular

The articulating boom crane with two hydraulic telescoping jibs that reach out to 21 feet.







Safety Features

line failure.

THE BASIC UNIT

- Hydraulic reservoir
- Two hydraulic outriggers with manual extensions to 12 ft. (3.7 m)
- 390° rotation
- Five spool control valves
- Safety relief valve on rotation, inner and outer boom, plus lock-out valves on outriggers.
- Dual controls
- Crane hook
- Hydraulic pump and mounting group

Working Attachments and Optional Accessories

- Winch
- Remote control
- Auger
- Personnel basket
- Grapples
- Clam bucket
- Pallet fork

WARRANTY

The N-45 Rapid Rascal is built to the rigid, quality standards of National Crane, and is warranted for six months as to parts and workmanship. Complete warranty details are available upon request.

The manufacturer reserves the right to alter or amend without notice any of the specifications, dimensions, and particulars contained in this publication.

Technical Data

Special relief valves help prevent overload.

All hydraulic cylinders are double-acting.

■ Dual hydraulic controls allow operation from either side of truck.

assisting in preventing shock loading or unexpected load drop.

Flow restrictors prevent load from being lowered too fast.

Velocity fuses prevent uncontrolled drop due to

Capacities	American Standard	Metric System	
	6' 6"7,700 lbs.	2.0 m3,495 kg	
	12' 6"3,600 lbs.	3.8 m 1,635 kg	
	16' 9"2,650 lbs.	5.1 m1,200 kg	
	21'1,800 lbs.	6.4 m 815 kg	
Working Pressure	2,500 PSI	170 bar	
Pump Capacity (gear-type pump)	9 gallons/min.	34 liters/min.	
Oil Capacity	17 gallons	64 liters	
Outrigger Span	12 feet	3.7 m	
Stowed Height 79 inches (above truck frame)		2.0 m	
Mounting Space (behind cab)	22 inches	55.9 cm	
Weight	3,080 lbs.	1,400 kg	
Rotation	390 degrees	390 degrees	
Filter 10 micron rep	placeable (spin-on type)	filter	
MINIMUM TRUCK I	RECOMMENDATIONS		
GVWR*	21,500 lbs.	9,750 kg	
Dimensions			
CA Cab-to-Axle	84''	214 cm	
WB Wheel Base	148′′	376 cm	
Chassis Weight			
(including bed)	6,500 lbs.	2,950 kg	
Main Frame Chann RBM**	el ⁷ 680,000 inlbs.	76,825 joules	
Section Modulus	12 in. ³	196 cm ³	
Axle Rating			
Front GAWR1	7,000 lbs.	3,175 kg	
Rear GAWR†	15,000 lbs.	6,805 kg	
Heavy-Duty Spring			
* Gross Vehicle Weig	ht Rating **Resistance to	o Bendina Moment	
† Gross Axle Weight I	Rating		

WARNING: If misused or operated beyond capacities, resulting accidents with this machine can cause death or injury to operator and property.

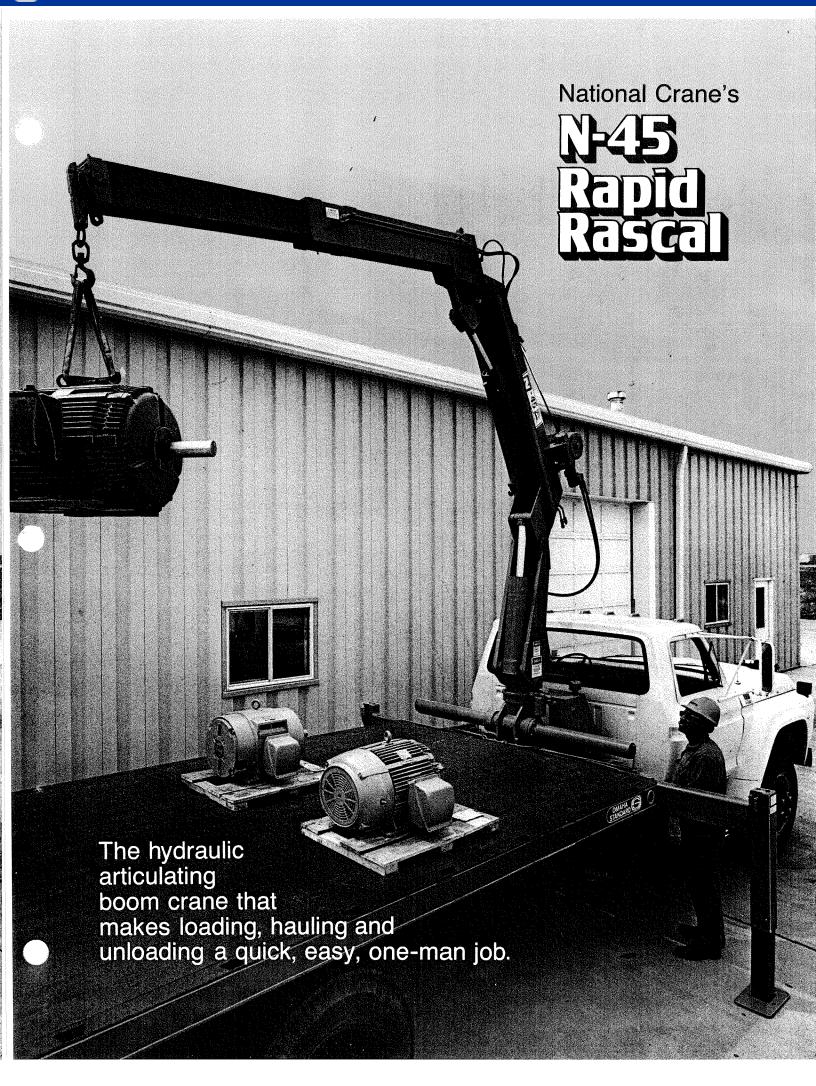
SOLD BY:



National Crane Corporation

National Industrial Park Waverly, Nebraska 68462 402-786-2240

an subsidiary





NATIONAL'S

THE BASIC UNIT

- Hydraulic reservoir
- Two hydraulic outriggers with manual extensions to 12 ft. (3.6 m)
- Hydraulic jib, maximum length 16 ft. 6 in. (5.0 m)
- 390° rotation
- Five spool control valves
- Safety relief valve on rotation, inner and outer boom, plus lock-out valves on outriggers.
- Dual controls
- Crane hook
- Hydraulic pump and mounting group

Working Attachments and Optional Accessories

- Winch
- Pallet Forks
- Auger
- Remote Controls
- Grapples
- Seated Controls
- Clam Bucket

- Personnel Basket

WARRANTY

The N-45 Rapid Rascal is built to the rigid, quality standards of National Crane, and is warranted for six months as to parts and workmanship. Complete warranty details are available upon request.

WARNING: If misused or operated beyond capacities, resulting accidents with this machine can cause death or injury to operator and property.

The manufacturer reserves the right to alter or amend without notice any of the specifications,

		III /
	American Standard	Metric System \
Capacities	6' 6" -7,700 lbs.	2.0 m - 3,495 kg
	12' 5" -3,600 lbs.	3.8 m -1,635 kg
	16′ 6″ -2,650 lbs.	5.0 m -1,200 kg
	20' 10"-1,800 lbs.	6.3 m - 815 kg
	24' 10"-1,350 lbs.	7.6 m — 610 kg
	28′ 10″-1,000 lbs.	8.8 m - 455 kg
Working Pressure	2,500 psi	170 bar
Pump Capacity (gear-type pump)	9 gallons/min.	34 liters/min.
Reservoir Oil Capac	ity 17 gallons	64 liters
Outrigger Span	12'	3.6 m
Outrigger Vertical Travel 251/2"		65 cm
Stowed Height (above truck frame	6′7″ e)	2.0 m
Mounting Space (behind cab)	22"	56 cm
Weight	2,900 lbs.	1,315 kg
Rotation (non-continuous)	390°	390°
Filter 10 mi	cron replaceable (spir	n-on type) filter
TRUCK RECOMMEN	NDATIONS	
GVWR ⁽¹⁾	21,500 lbs.	9,750 kg
Minimum Distance		
CA (cab-to-axie)	84"	214 cm
WB (wheel base)	148''	376 cm
Minimum Chassis V	Veight	1
	Front 3,300 lbs.	1,500 kg
	Rear 3,200 lbs.	1,450 kg

Front 7,000 lbs.

Rear 15,000 lbs.

(1) Gross Vehicle Weight Rating (2) Gross Axle Weight Rating

680,000 in.-lbs.

12 in.3

dimensions, and particulars contained in this publication.

National Crane Corporation

Waverly, Nebraska 68462 402-786-2240

an Coche Subsidiary

GAWR⁽²⁾

Main Frame Channel

Section Modulus

Heavy-Duty Springs

(3) Resistance to Bending Moment



Form No. 070-333 Revised 6-77 Printed in U.S.A.



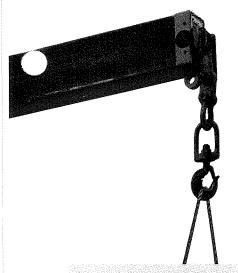
3,175 kg

6,805 kg

76,825 joules

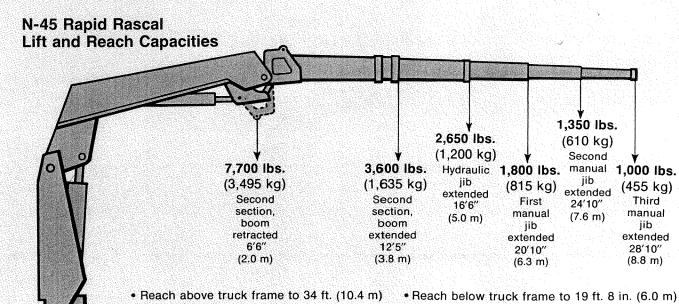
196 cm³





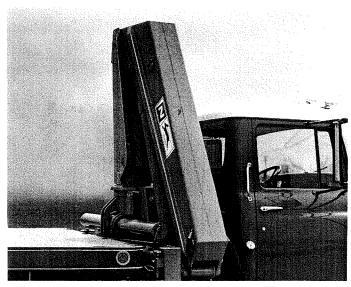
Safety Features

- Special relief valves help prevent overload.
 - Dual hydraulic controls allow operation from either side of truck.
 - All hydraulic cylinders are double-acting.
 - Flow restrictors prevent load from being lowered too fast, assisting in preventing shock loading or unexpected load drop.
 - Velocity fuses prevent uncontrolled drop due to line failure. Pilot operated holding valves are optional.



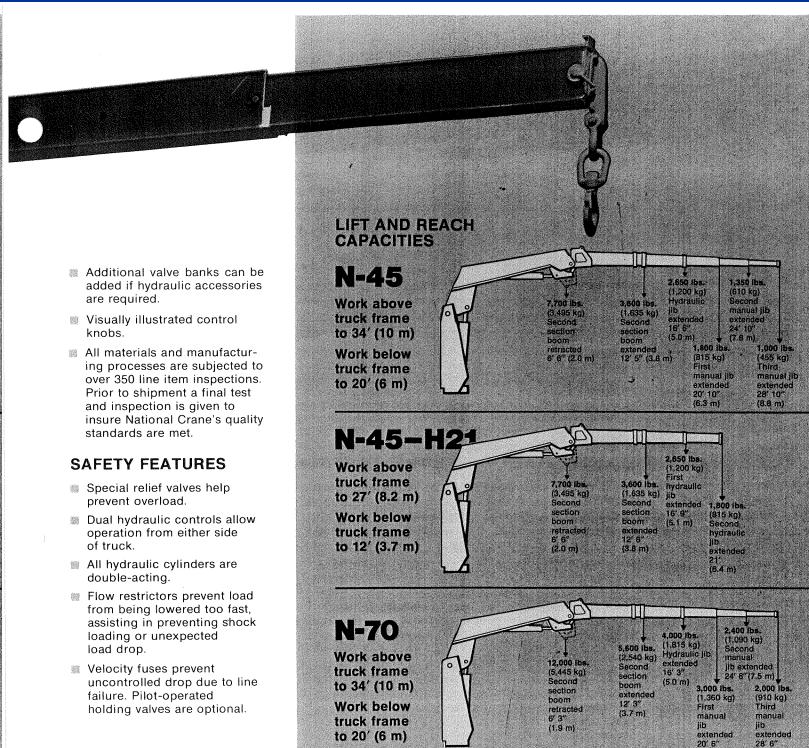


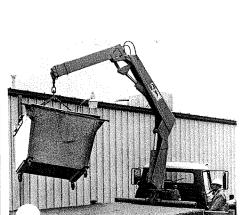
The Rapid Rascal has 390° rotation. It works loads on all sides of truck...front, rear, left and right. Heavy-duty, hydraulically-operated rack and pinion provides positive, no-drift boom rotation.



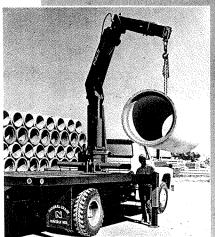
The N-45 tucks away between cab and bed in only 22 in. (56 cm), maximizing load hauling.





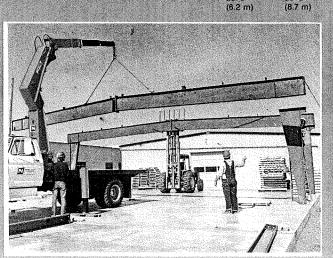


390° non-continuous rotation. Heavyduty hydraulically-operated rack and pinion provides no drift boom rotation.



to 20' (6 m)

Operator can pinpoint load placement with finemetering type controls.



Does big jobs, or small, and moves at highway speeds from job site to job site.



