

NATIONAL CRANE

Subsidiary of Kidde, Inc.

KIDDE

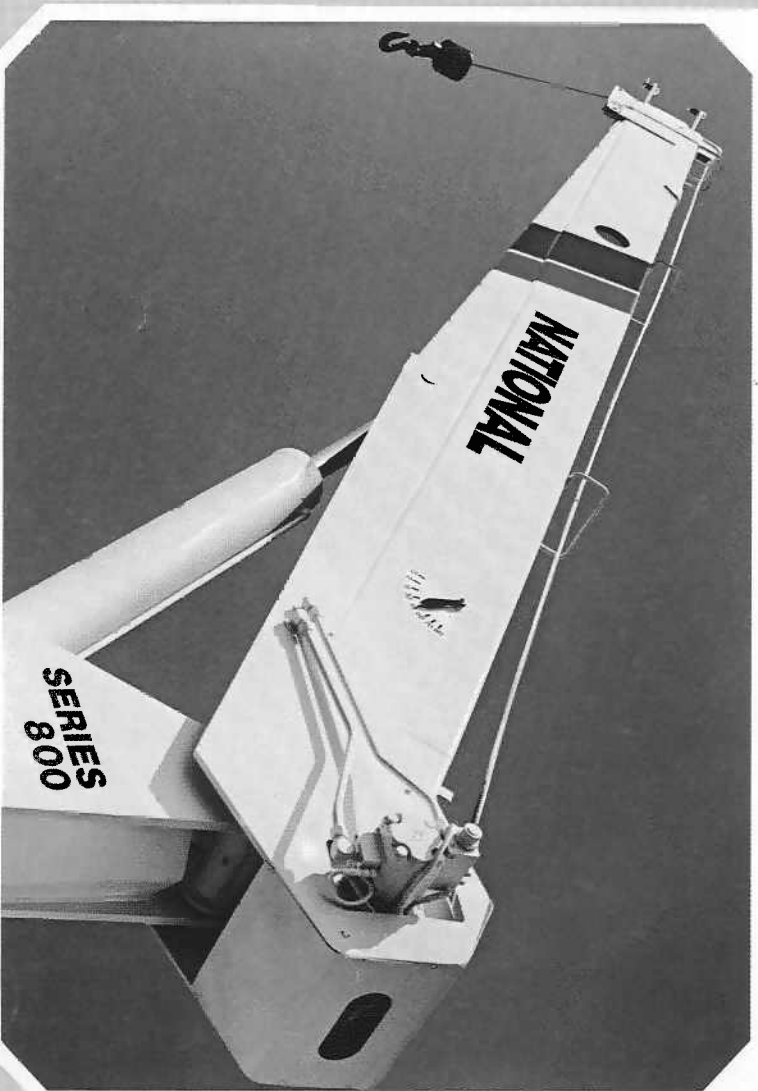
General Offices

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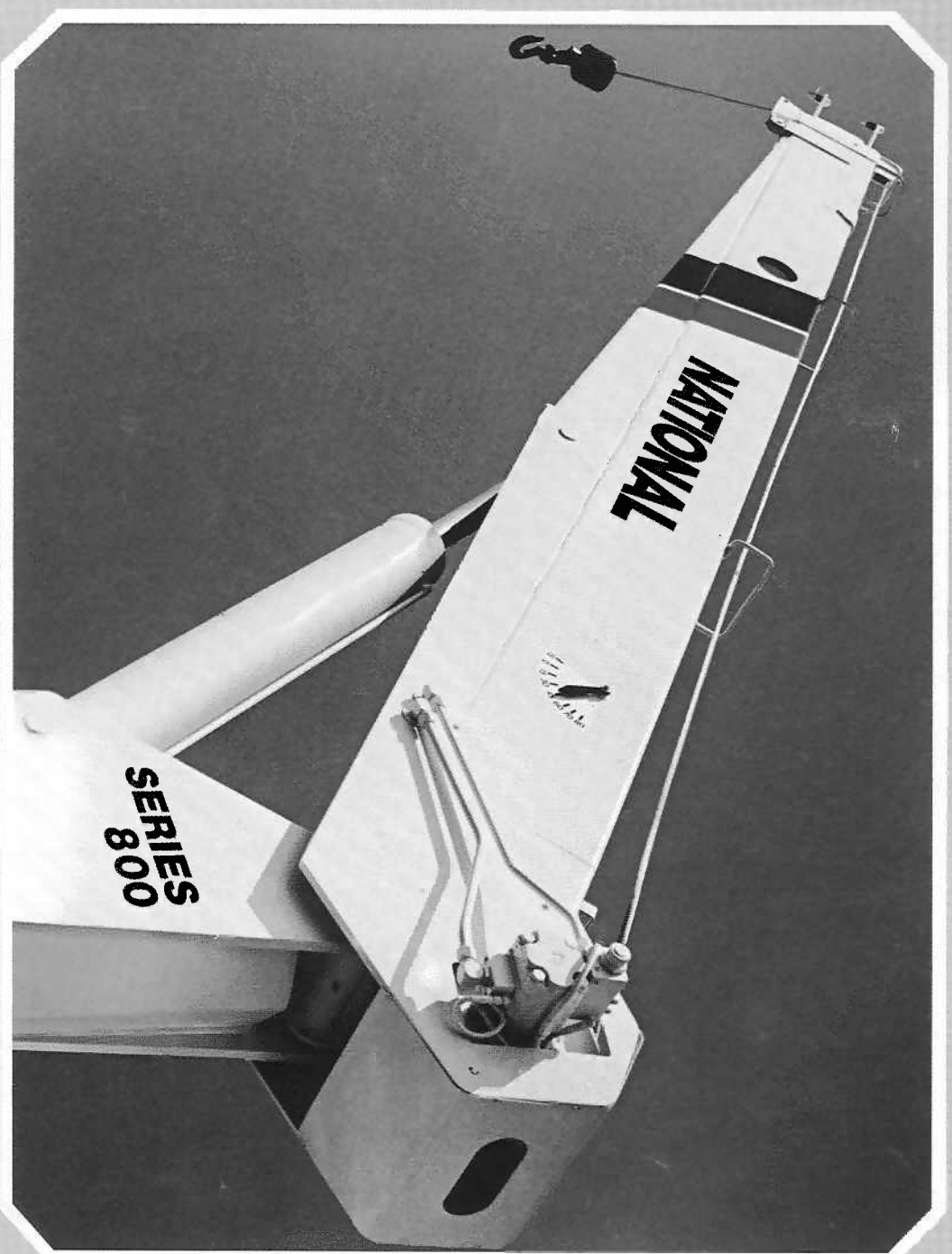
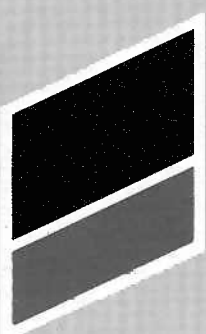
Your National Crane Dealer:



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THE NATIONAL MARINE LIFTING SYSTEM



**PEDESTAL-MOUNTED HYDRAULIC
MARINE CRANES AND EQUIPMENT**

NATIONAL MARINE CRANES

National builds hydraulic cranes for shipboard, dockside, offshore, and other marine uses. And no one builds them better.

National marine cranes are built to rigid specifications and strict quality control standards. They are tough and durable. They will give you years of profitable service. Plus, every crane is part of National's comprehensive Marine Lifting System.

The National Marine Lifting System gives you a wide selection of boom lengths and capacities you can job-match to your needs. And National cranes are specifically engineered for maximum performance in harsh marine environments.

National's pedestal-mounted hydraulic marine cranes are the versatile alternative for many jobs now done by manpower or by lifting methods that are not adequately matched to the job. More and more people are finding Nationals the most cost-efficient lifting system for docks, fishing boats, oil terminals, offshore platforms, and many other uses.

Think about it. How many jobs do you have that could be done faster and more profitably with a cost-efficient National marine crane?

Stronger, Lighter Booms

Extra strength and lighter weight mean greater capacity. Our telescopic booms are fabricated from four high-strength, low-alloy steel members welded with perpendicular corners. This box-section construction lets us use thicker top and bottom plates for extra strength,



and thinner side plates for increased capacity through lower boom weight. The high strength steel members are welded with advanced, automatic low hydrogen techniques for extra strong seams. All corner seams are ultrasonically tested for proper weld penetration.

Sequential Extension

National introduced sequential, full-load extension to the industry. Our telescoping boom sections interlock for sequential extension with larger, stronger boom sections extending first for greater strength. National's patented locks are mechanical, not hydraulic, for greater reliability with no wasted hydraulic power. This is just one example of our engineering excellence paying off in performance for you.

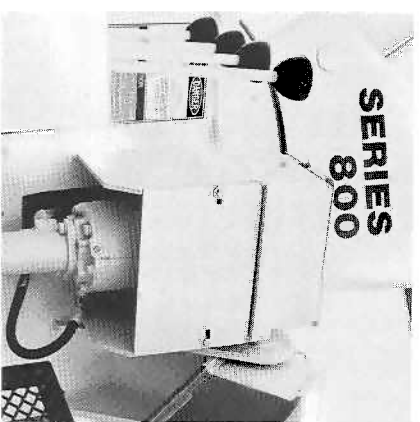
Marine Conditioning

Full marine conditioning is standard on all cranes. The National marine conditioning program gives you longer crane life with less maintenance. All external surfaces are sand blasted, coated with inorganic zinc primer, painted and covered with a durable chlorinated rubber topcoat. All interior surfaces and cylinders are carefully primed and painted to help prevent corrosion.

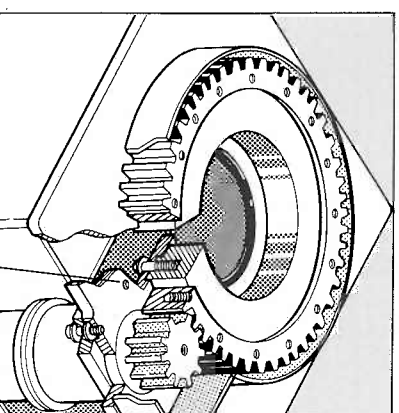
All lift cylinder rods and boom pivot pins are stainless steel to withstand the rigors of corrosive salt water and chemical environments. Continuous welds are made wherever possible to prevent the formation of corrosion in crevices.

Fast, Sure Slewing

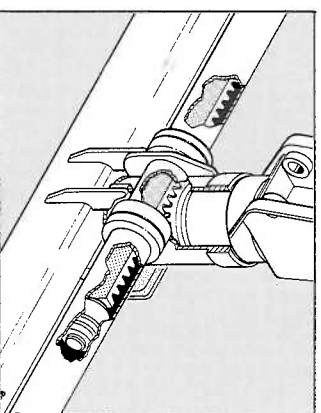
National turret drives are specifically engineered for fast, smooth, controlled slewing. They require minimum maintenance, even under harsh marine conditions, and routine service is easy.



The Marine 800 uses a tough planetary rotation gearbox for efficiency, strength and durability.



The Marine 400, 600A and 800 are equipped with a planetary rotation gearbox. The units have extra heavy bearings below the drive pinion to ensure proper tooth alignment for smooth rotation under maximum rated loading. The turret glides smoothly on a low inertia ball bearing race.



The Marine 200 gives you the precision of rack and pinion rotation.

Positive slewing stops are available on the Marine 400, 600A and 800 to limit boom rotation between 60° and 375° in 45° intervals to prevent the boom from contacting rigid structures. Standard rotation on these models is 375° non-continuous. On the Series 200 standard rotation is 390° non-continuous. Continuous rotation is available on some models for maximum flexibility.

NATIONAL TELESCOPING MARINE CRANES

Marine 200

6,000 LBS.*
Capacity
at 10 ft.

10,700 LBS.*
Maximum
Capacity

The National Marine 200 is an inexpensive, shorter radius telescoping crane for use on smaller boats and barges, in general purpose dockside and terminal work, and on offshore platforms. The 200 is ideal for many jobs where larger capacity cranes prove inefficient and expensive.

Boom Length	Section
Available	1 section
16 ft.	2 section
28 ft.	2 section

Marine 400

8,000 LBS.*
Capacity
at 10 ft.

16,000 LBS.*
Maximum
Capacity

The Marine 400 offers a wide range of boom lengths and solid dependability in medium-duty work. Its mid-range capacity and reliability have made it the workhorse of fishing fleets.

Boom Length	Section
Available	3 section
37 ft.	3 section
46 ft.	3 section
55 ft.	3 section

Marine 600A

13,500 LBS.*
Capacity
at 10 ft.

25,000 LBS.*
Maximum
Capacity

For medium to heavy-duty general lifting cycles the National Marine 600A has the capacity and telescoping booms you need. It's equally at home handling fishing, cargo, offshore, or dockside chores.

Boom Length	Section
Available	3 section
38 ft.	3 section
47 ft.	3 section
55 ft.	3 section
66 ft.	3 section

Marine 800

20,000 LBS.*
Capacity
at 10 ft.

34,000 LBS.*
Maximum
Capacity

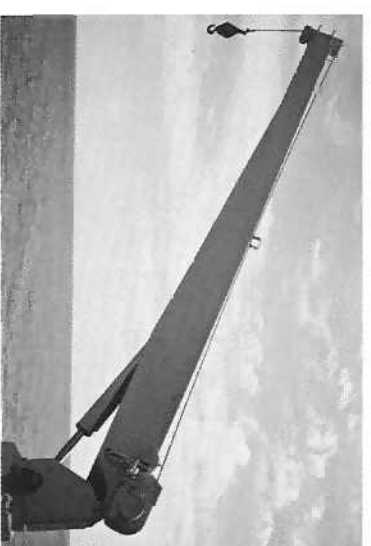
When it comes to heavy-duty cycles and long reaches in general lifting, more and more shipbuilders are specifying the National Marine 800. Its extra heavy-duty construction and tough planetary drive rotation mean more work-time and less downtime, even under extreme duty.

Boom Length	Section
Available	2 section
39 ft.	3 section
56 ft.	3 section
75 ft.	4 section

Load rating charts for all National Telescoping Marine Cranes are shown on pages 5 and 6.

MARINE CRANES NATIONAL FIXED BOOM

National fixed boom marine cranes are designed for maximum duty cycles and long periods of inactivity encountered in off-shore service. Their smaller size and lighter weight, coupled with few parts to maintain, make them an obvious choice. Customized fixed-length booms are available. Contact our factory for details.



Capacity at 10 ft.*	Maximum Capacity*	Boom Length Available
Marine 200	6,000 lbs.	16 ft.
Marine 400	8,000 lbs.	22 ft.
Marine 600A	13,500 lbs.	25 ft.
Marine 800	20,000 lbs.	22 ft.

*All capacities are based on the following system operating pressures. For systems with other pressures, contact the factory for information.

Marine 200	2,500 psi
Marine 400	2,600 psi
Marine 600A	2,650 psi
Marine 800	2,650 psi

