

STACKER



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Operator comfort, fingertip control ... increased productivity

Powerful. Comfortable. Simple to drive and maneuver. Superstacker is fast, versatile and agile.

Superstacker's precise, quick handling means you'll move cargo through your facility faster. Superstacker's tight turning radius and accurate slewing means you'll make better use of available space.



The cab is designed to increase efficiency and reduce operator fatigue. All-glass cab construction gives the operator a panoramic view of the work area and an unobstructed line of sight to the load being maneuvered. This allows the operator to work with greater confidence.

Superstacker's cab is built to keep noise to a minimum. The operator can concentrate on the work at hand and remains alert to what's happening around him.

Superstacker boom and spreader controls are consolidated in an all-in-one joystick. With one hand on the wheel, the other on the joystick, the operator can focus full attention on getting the load moved quickly and accurately.

Operator comfort is key to productivity. Although a seat may seem like a simple thing, it's a big deal when you spend 8 hours a day in it. Superstacker's seat features helical springs and weight-compensating hydraulic damping. Five front/rear positions, 16 side-to-side positions and 13-position height adjustment make Superstacker a comfortable ride for operators of just about any size. Add to that movable arm rests and a height-adjustable head rest and you have a seat that makes long work days less fatiguing.



Clear Instrumentation

A quick scan of the instrument panel clearly reveals vital information at a glance.

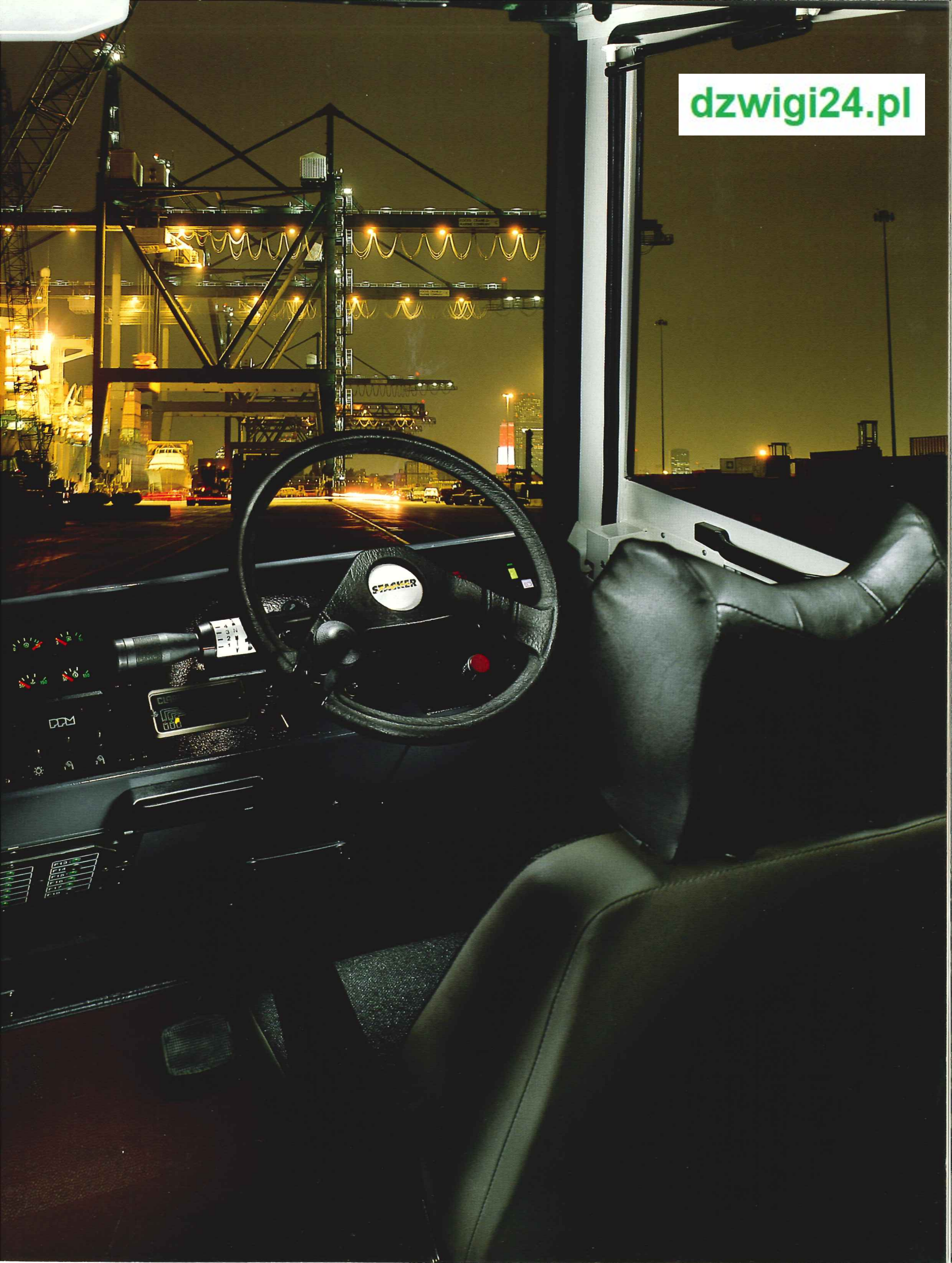


Power, Versatility at Your Fingertips

Rotating the load, side shifting, boom hoisting and spreader telescoping can all be initiated with the all-in-one joystick ... giving the operator true fingertip control of the Superstacker. With one hand on the joystick and one hand on the wheel, the operator can focus attention on the load being moved. Response to the slightest change is fast and accurate.



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Built rugged, built smart

Superstacker is always ready to handle the most demanding challenges. Customers around the world know that PPM Cranes offers more than just a rugged, reliable machine ... we offer over 10 years of experience in reachstacker development. Each Superstacker component is designed to exacting standards, then thoroughly tested. Step into the cab of a Superstacker and you're surrounded by reliability.

Telescopic Extension 20' -40'

Hydraulic motor extends spreader from 20' to 40' in under ten seconds, with positive locking at 30' and 35'. Superstacker also allows synchronized operation of both spreader beams while boom is being extended. Boom can be rapidly raised or lowered ... an important element for increased throughput. High-stress anchor points are reinforced for reliable performance.



Proximity Switches

Locking is controlled by inductive proximity sensors for reliable function control with all containers.

Locking

Modular twistlocks are easily activated and are designed to enhance operation. Locks are located entirely within the main frame, protected from shocks and weather. Floating twistlocks also accommodate SEALAND containers.



Anti-tipping System

Should load exceed nominal capacity, the anti-tipping system shuts down all lifting functions.



Oscillating Rear Axle

Extra wide rear oscillating axle provides optimum stability on almost any surface. Double acting cylinder gives Superstacker tight 26'3" turning radius.





Dampening Swing System

Dampening swing system incorporates two hydraulic cylinders to keep container swing to a minimum. System is activated from the cab to facilitate end-on container moving.

Spreader Rotation

Spreader rotation through 360 non-continuous degrees is accomplished by twin back geared hydraulic motors. This technology, derived from PPM's expertise in mobile cranes, protects against container impact ... a constant possibility in freight operations.



Tilt

Spreader compensates for off-level containers in both transverse and longitudinal orientations up to $\pm 5^\circ$. Containers on sloping ground or trailers can be easily picked up or put down.

Telescopic Spreader

Telescopic spreader handles 20', 30', 40' and 45' ISO and 35' SEALAND containers. Beams are constructed of high resistance steel, machine-welded inside and out. This rugged unit is specifically designed for high volume operations.

Hydraulic Side Shift

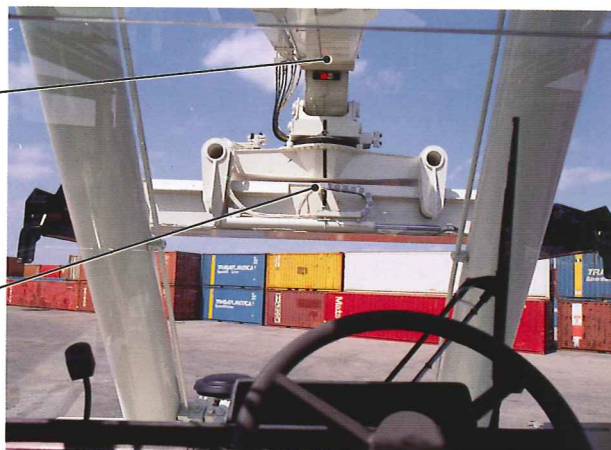
For greater stability, Superstacker features a lateral roller system to balance heavy loads with offset centers of gravity. The system's low coefficient of friction results in less wear, simpler maintenance and longer life.

Locking Indicator Lamps

Locking indicator lamps for both sides of the spreader are located under the boom head, clearly visible to the operator.

Electric/Hydraulic Power Supply

Electrical and hydraulic hoses and cables are chain guided, reducing wear and tear.

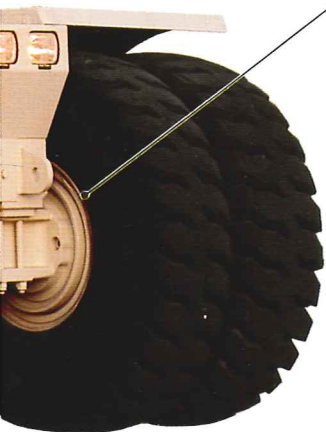


Easy Access

Getting into a Superstacker is almost as easy as getting into your family car.

Wet Disk Brakes

Rockwell wet disk brakes provide sure stopping and less brake wear for longer life. Front axle is 13'7" wide for outstanding stability.



Fixed Hook

Quick-release spreader allows Superstacker to be transformed into a fixed hook in minutes for pick and carry. Fixed hook capacity is 66 tons.



Piggy-back Spreader

Piggy-back spreader is designed for bottom-pick and top-pick block stow stacking. Lifting weight under spreader is 44 tons.

Space is money

Space is an expensive commodity in terminals everywhere. Making the most of it is key to greater efficiency and profitability. Superstacker's tight turning radius and accurate operation let you make efficient use of every square foot of your terminal. Ease of use and fast, smooth movement make Superstacker the ideal machine for reconfiguring terminal layout when traffic increases.

The powerful, versatile Superstacker speeds loading and unloading, cutting port charges and demurrage and increasing volume. In rail terminals and intermodal hubs, Superstacker is invaluable for TOFC/COFC and swap body operations.

One reason for Superstacker's efficiency is its hydraulic load sensing system, which combines high performance with pin-point accuracy. Functions are sped up, maneuvers are more accurate, and over time, price-performance is optimized. Superstacker reduces operating costs while boosting TEU per hour.



Superstacker's reach and capacity let you speed operations with over-truck picking and placing.



Twenty-four ton second row capacity gives Superstacker added flexibility. Superstacker handles third row weights of up to 9.5 tons.



Thanks to Superstacker's extended reach, containers can be stacked 3 rows deep for more efficient use of your space.



Telescopic boom and non-continuous 360° spreader swing allow 20' to 40' end-on container handling.



Flexible and accurate slewing allows Superstacker to handle containers in very tight places.



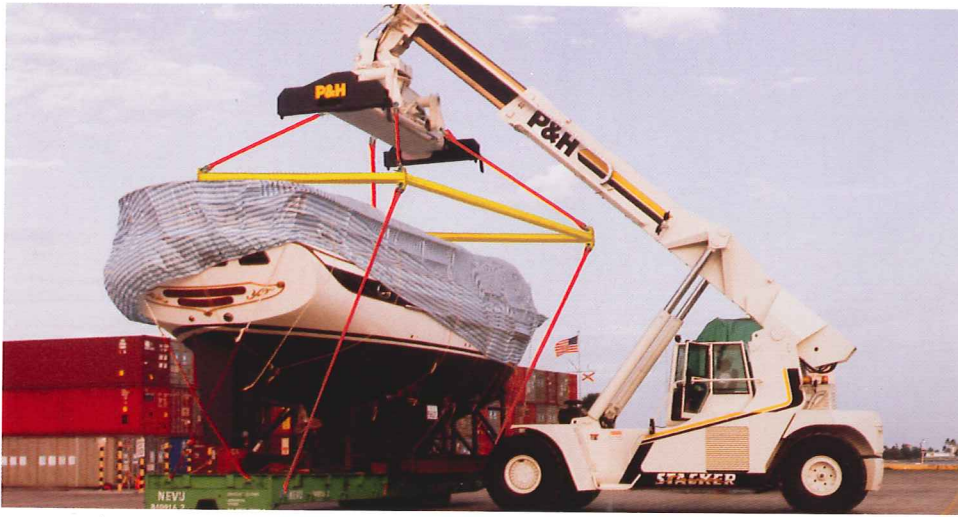
Superstacker compensates for unevenly distributed loads.



Superstacker makes it easier to stack 44-ton containers 4 or 5 high.



Superstacker's ability to work in tight areas can save you the time and expense of unstacking and restacking containers.



Move irregularly shaped loads with Superstacker's sling attachment.



Tight turning radius of 26'3" means Superstacker works well in cramped quarters.



Superstacker's versatility is practically limitless, as seen here in Operation Desert Storm.



With 45-ft. containers becoming more common, Superstacker becomes an even more valuable asset.

A world of experience

Each year, our group delivers over 1,000 lifting units, cranes and Superstackers to customers around the world ... from Australia to Asia, Europe to Africa, and North America to South America.

We feel that to produce truly useful equipment, we have to listen to our customers. Every piece of equipment we make is designed to meet a clear-cut demand. We offer an inventory of high performance products, plain and simple.

Over the years, we've built a reputation for product reliability and service support. Today, thousands of customers the world over realize that our reputation is fully justified.

PPM gets input from some of the busiest ports and terminals in the world: Rotterdam, Hamburg, Taiwan, Zaire, Antwerp, Rouen, Sydney. People in these places know what they need and won't settle for less. That's why today's Superstacker is close to the perfect container handling machine. And with over 300 Superstackers at work worldwide, it can truthfully be said that if there's freight to be moved, Superstacker is there to move it.

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Working Worldwide



Miami



Antwerp



Bangkok



Martinique



Zaire

Tight craftsmanship, heads-up service

Our mobile lifting group has over 100 years of experience in designing and constructing booms ... experience that's built into every Superstacker. In our automated welding shop, booms are constructed to stand up to the demands of high volume container handling operations.

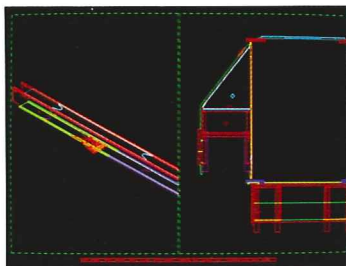
A 250 HP Cummins diesel engine delivers power economically. Combined with maximum torque at low RPM (750 ft/lb at 1,300 RPM), fuel consumption is optimized. Superstacker has identical front and rear tires (18:00 x 25).



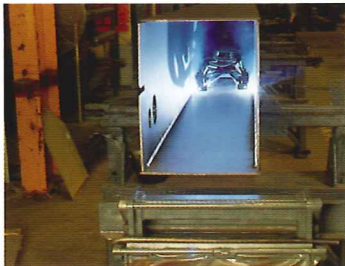
The PPM Cranes, Inc. plant in Conway, SC, where P&H mobile cranes and Superstackers are manufactured. The plant incorporates engineering, manufacturing, finishing and testing facilities. The latest quality assurance procedures are applied to every product manufactured here.



PPM Superstackers and cranes are backed by active parts and inventory service programs.



Extensive CAD analysis results in optimum strength-to-weight ratio. Plates and beams are constructed to bear stress without added dead weight.



All frame welding is done from above for maximum weld penetration. Boom corners are joined with welds both inside and outside, resulting in a stronger, more rigid boom.



Access to the engine and transmission is fast and easy, so downtime for maintenance is held to a minimum.



We build quality into every detail of our Superstackers and cranes, right down to rugged Deutsch connectors for better resistance to water, oil and vibration.

Locations Worldwide

PPM Cranes, Inc.
Highway 501 East
Conway, SC 29526-2602
(803) 349-6900
FAX (803) 349-6980

PPM Cranes, Inc.
3015 Kenridge Terrace, N.E.
Cedar Rapids, IA 52402
(319) 363-4129
FAX (319) 362-6024

PPM Cranes, Inc.
805 N. Waddill
McKinney, TX 75069-2965
(214) 542-1117
FAX (214) 542-1577

PPM Cranes, Inc.
303 Hegenberger Road, Suite 414
Oakland, CA 94621
(510) 635-4742
FAX (510) 635-4747

PPM Cranes, Inc.
144 Spring Street
North Marshfield, MA 02059
(617) 837-0184
FAX (617) 837-8260

PPM Cranes, Inc.
107 Locust Lane
Pass Christian, MS 39571
(601) 452-4697
FAX (601) 452-7686

PPM Cranes, Inc.
345 RT 17
Upper Saddle River, NJ 07458
(201) 288-3955
FAX (201) 934-8509

PPM Cranes, Inc.
2120 NW 92nd Ave.
P.O. Box 52-6221
Miami, FL 33172
(305) 666-9799
FAX (305) 594-3755

PPM
136 Rue Julian Grimaud
94408 Vitry Sur Seine Cedex
France
(33-1) 45 73 39 36
FAX (33-1) 45 73 39 45

PPM of Australia Pty. Ltd.
Private Bag 4
42 Glenbarry Road
Campbellfield, Victoria 3061
Australia
(61-3) 357-0888
FAX (61-3) 357-0468

PPM Bangkok
Sukhmit Road
Soi Sawadee 31, House No. 80
Prakanong, Klongton
Bangkok, Thailand
(2) 258-80-27
FAX (2) 258-9865



PPM CRANES, INC.
Manufacturer of P&H Mobile Cranes

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