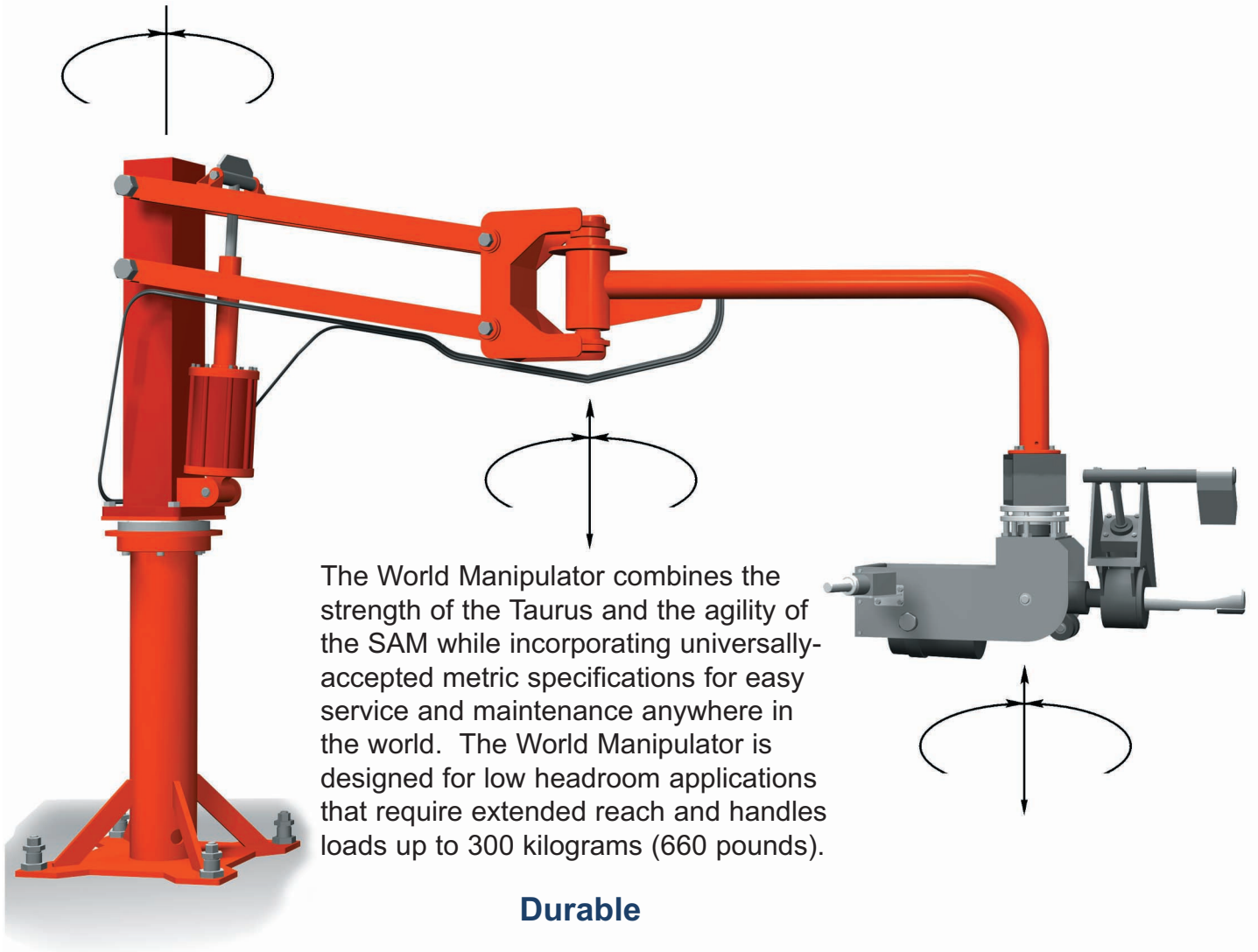


World Manipulator™



The World Manipulator combines the strength of the Taurus and the agility of the SAM while incorporating universally-accepted metric specifications for easy service and maintenance anywhere in the world. The World Manipulator is designed for low headroom applications that require extended reach and handles loads up to 300 kilograms (660 pounds).

Durable

Extended Reach

The World Manipulator is a strong handy extension of the operator's arm. It protects expensive payloads, speeds up handling, and can reach long distances in headroom-restricted areas. The device's side-loading feature allows the user to extend the tooling and payload well beyond the end of the arm while rotating 360° around the arm.

Standard or customized tooling and controls are available to meet your requirements.

Positech™ Corporation
A Division of American Handling Systems, Inc.
191 North Rush Lake Road
Laurens, Iowa 50554
Tel: 1-800-831-6026 or 712-841-4548
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E-mail: sales@positech.com
Website: www.positech.com



Quality System Registered
ISO 9001:2000/Q9001:2000
Certificate QSR-496

For Performance and Quality

- Fits well in areas with low headroom
- End of arm rotating axis has: up to 1130 newton-meters (10,000 inch-pounds) of end of arm moment loading and 360° full rotation
- Drag brakes on 3 axes for personalized adjustment
- Lubrication-free cylinders
- Leveling jacks provided for ease of installation and leveling
- For payload and tooling capacity of 100-300 kg (220-660 lbs.)
- Pneumatic is designed to be operated with clean and dry air
- Precision bearing and thrust washers at joints for smooth motion and long life

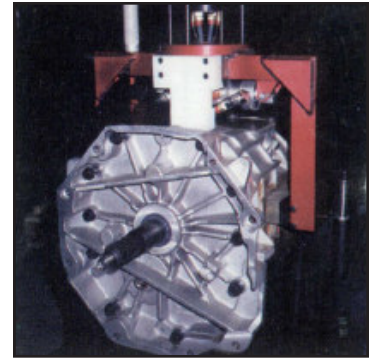
Safety Features

- 5:1 design factor minimum on all structural components
- Pilot operated lock valve on lift cylinder and gripper cylinders prevents vertical arm movement and loss of payload if supply pressure is interrupted
- Gripper Safety Circuitry available. Prevents accidental release of unsupported parts
- Lost Load Cylinder is a separate, sealed hydraulic device that protects the operator from any sudden, uncontrolled vertical motion of the manipulator's arms

Specifications for Standard Models

Model	Lifting Capacity (kg. / lbs.)	Vertical Lift (mm. / in.)	Reach (mm. / in.)	Minimum Overhead (mm. / in.)
WM 200	200 / 440	1397 / 55	2921 / 115	2185 / 86
WM 300	300 / 660	1397 / 55	2921 / 115	2185 / 86

Requires 6.2 BAR (90 psi) clean and dry air to operate at rated lift capacity.



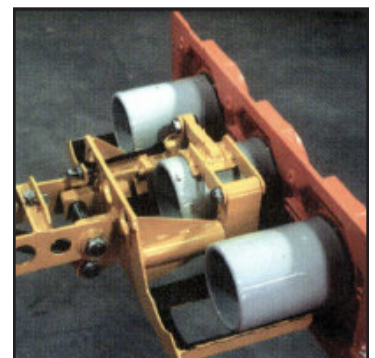
Tool grips transmission assemblies to place these assemblies into shipping crates.



This core gripper on a World Manipulator allow for easy handling of bulky rolls of paper, plastic and film in doffing, palletizing, and crating operations



Tool handles a 150-pound wheel hub assembly by gripping the inside diameter of the hub and orienting the hub to a tire rim



Tool grips porcelain insulators and positions these parts into a high voltage switchgear cabinet.

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