Designed to emulate the human arm, Positech’s high-capacity Taurus Positioning Arm (TPA) handles the heaviest loads with precision - up to 2,500 pounds.

**High Capacity**

**Heavy Duty**

**Precise Positioning**

The Taurus is the ideal selection when precision handling and heavy weight factors come into play. This manipulator’s parallel arm is articulated at the shoulder, elbow, and wrist joints. Safe, low-voltage, variable speed controls can be hand held, machine mounted or built into an ergonomically designed control station. The operator manually controls all horizontal movement and positioning. Vertical movement is achieved with a motor-driven hydraulic system.

*Standard or customized tooling and controls are available to meet your requirements.*
For Performance and Quality
- Direct mounting to the floor, on pedestals, mobile, or portable bases, wall or flange mounts, fixed overhead mounts, and dual rail bridge systems
- Adjustable drag brakes at each vertical axis of rotation
- Low headroom, no space-consuming counterweights
- Infinitely variable up/down vertical speeds; easily adjustable minimum/maximum speed controls
- Self-contained, energy-efficient power unit
- Power/control unit remote mount for operation in explosive or clean room environments
- Lifting actuator: Single action, ram-type hydraulic cylinder
- Lowering force: Gravity, with full variable speed control
- Optional electric collector ring available for continuous main post rotation
- Push-button or twist-style up/down controls
- Precision bearings reduce friction and wear
- Designed for minimal deflection
- Up to 60,000 inch pounds of end of arm moment load allowed
- Can be converted from floor to overhead mount
- Precision bearings 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
- Low-voltage signal on all operator’s controls
- Overload sensors prevent lifting more than machine capacity
- Temperature sensors shut down system automatically to prevent overheating

Specifications for Standard Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Lifting Capacity (lbs.)*</th>
<th>Vertical Lift of Payload (in.)</th>
<th>Maximum Radial Reach to Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA-5</td>
<td>500</td>
<td>64</td>
<td>114</td>
</tr>
<tr>
<td>TPA-10</td>
<td>1,000</td>
<td>64</td>
<td>116</td>
</tr>
<tr>
<td>TPA-15</td>
<td>1,500</td>
<td>64</td>
<td>116</td>
</tr>
<tr>
<td>TPA-25</td>
<td>2,500</td>
<td>64</td>
<td>136</td>
</tr>
</tbody>
</table>

* Includes payload and tooling

Requires 110-volt AC at 30 amps or 220 at 20 amps or 460 at 15 amps
Options available for extended lift and reach

Distributed by Ergonomic Partners, Inc.
Email: sales@ergonomicpartners.com
Web: www.ergonomicpartners.com
PH: 314-884-8884 | FAX: 800-570-5584