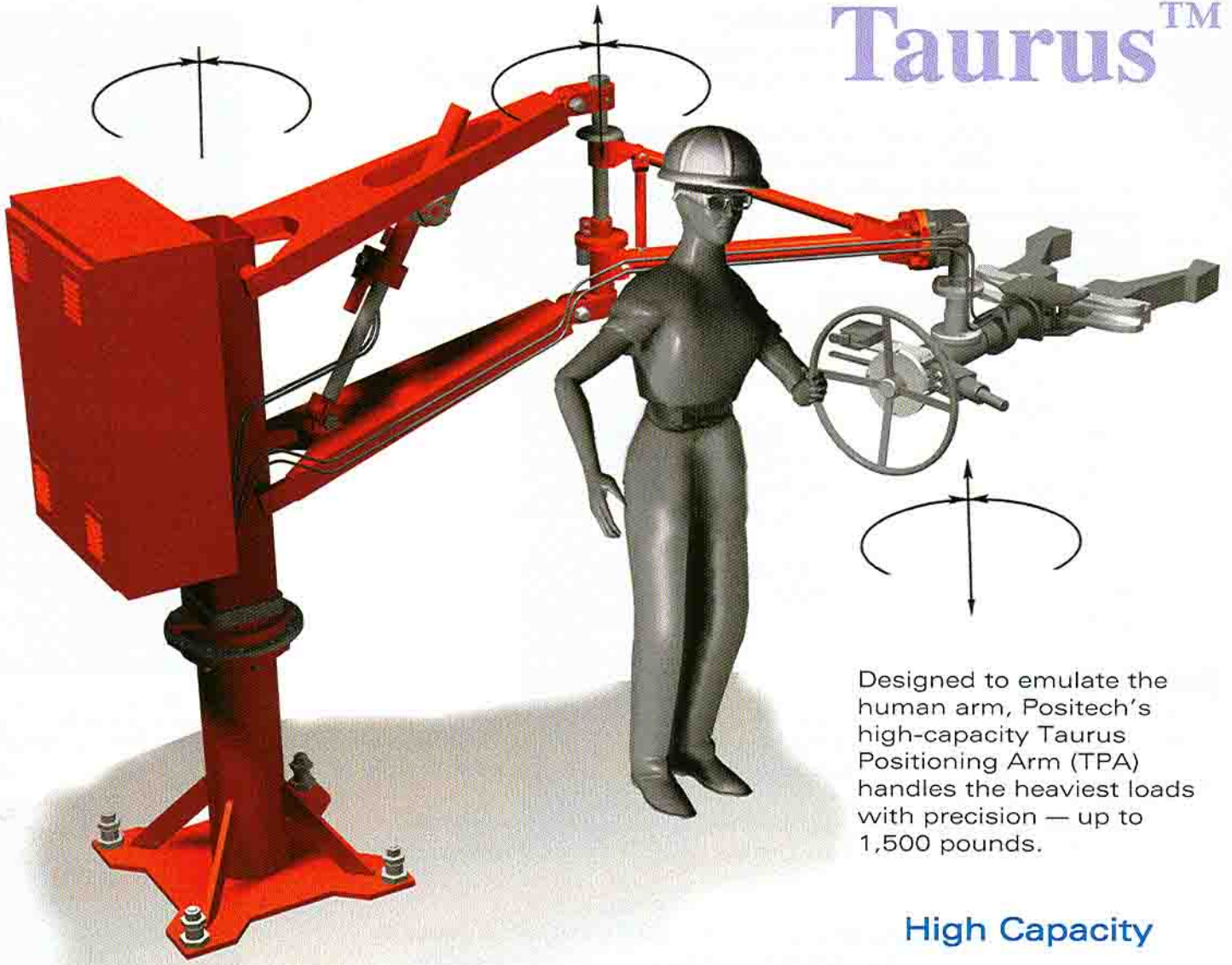


Taurus™



Designed to emulate the human arm, Positech's high-capacity Taurus Positioning Arm (TPA) handles the heaviest loads with precision — up to 1,500 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 mount 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 36,000 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 senses the pressure in the cylinder and does not allow the part to be released from tooling unless it is supported
- 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

Model	Lifting Capacity (lbs.)*	Vertical Lift (in.) of Payload (in.)	Maximum Radial Reach to Center
TPA-5	500	55	112
TPA-10	1,000	55	112
TPA-15	1,500	55	113

Requires 110-volt AC at 30 amps or 220/460 at 20 amps

* Includes payload and tooling

Options available for extended lift and reach



This magnet tool transfers irregular steel shapes weighing up to 720 pounds in a fabrication process.



This Taurus loads 400-pound engine blocks onto the final assembly line.



Tool loads hot billets from a hot furnace to a forging press.



Gripper tool grasps the end of a shaft used in a forging application.