

Welding manipulators



PrestonEastin manipulators steadily maintain the position of a welding head in relation to a workpiece. They support a full range of manual and automated welding processes.

Unlike [side beam carriages](#), manipulators offer up, down, in and out movement. They also pivot at their bases, which makes them infinitely variable and ideal for a broad range of circumferential and longitudinal seam welding.



Supporting the lightest and heaviest welding heads

Welding manipulators are commonly paired with turning rolls [link], headstocks / tailstocks and 2-axis positioners. A manipulator paired with a positioner can provide an added level of control to your process, improving quality and repeatability.

PrestonEastin classifies manipulators into three types based on load capacity:

- Whitetail 200 Series at 200 lbs (91 kg) to 400 lbs (181 kg)
- Light duty at 300 lbs (136 kg) to 600 lbs (272 kg)
- Medium duty at 650 lbs (295 kg) to 1200 lbs (544 kg)
- Heavy duty at 750 lbs (340 kg) to 1500 lbs (680 kg)
- Super heavy duty at 1100 lbs (499 kg) to 2600 lbs (1179 kg)

Click on the options to learn more.



PRODUCT LOOKUP

Collaborate with us for a customized manipulator

Our team's collaborative process guarantees a customized manipulator that will easily integrate into your welding process. Integrating wireless controls is also possible.

PrestonEastin carefully considers capacity and environmental factors when selecting the right manipulator configuration for your application. To this end, we offer customizations for:

- Cable Management
- Control Preferences (e.g., wireless and multiple positioner integration)
- Input voltages
- Lift motors
- Mast / Ram speed ranges
- Mast / Ram stroke
- Paint color

- Ram motors

Bases

We offer two standard options for your manipulator's base: an X-base or travel car.

An X-base provides rigid stability for manipulators supporting heavy loads. They are ideal for cellular manufacturing where relocating your manipulator isn't a requirement.

Travel cars provide your manipulator with additional versatility by allowing it to traverse between multiple manufacturing cells. PrestonEastin offers two types of travel cars: non-powered travel cars for manual movement and powered travel cars with standard variable frequency drives for an additional level of automation.

If you're interested in integrating a manipulator into your welding process, you can [request a quote](#). No matter what your needs are, PrestonEastin can customize any product to your exact specifications.