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## SPECIFICATIONS SHEET CUSTOM TRUNNION HOLDING FIXTURES

The purpose of this data sheet is to help you to consider all of the features that may be needed or useful in a particular application for a Custom Trunnion-Holding Fixture. It may be helpful to discuss these various features with FLOTRON to determine the cost effectiveness of the particular feature under consideration. Note that special features will require Engineering and setup charges. Reviewing these considerations should assure you of obtaining the best product at the best price for your particular application.

### ***Definition of part to be handled***

Part weight: \_\_\_\_\_

#### Part Size

Length: \_\_\_\_\_

Height: \_\_\_\_\_

Width: \_\_\_\_\_

Swing radius: \_\_\_\_\_

#### **Location of center of gravity of part**

Distance from CG to trunnion centerline: \_\_\_\_\_

Distance from CG to mounting plate on gearbox end: \_\_\_\_\_

Inertia of part: \_\_\_\_\_

### ***Part mounting height***

Adjustable height range: \_\_\_\_\_

Fixed height \_\_\_\_\_



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***Part mounting length***

**Mounting length is usually adjustable over the length of the Main Beam. Adjustable distance range: \_\_\_\_\_**

Optional telescopic main beam (minimizes extension of main beam beyond end frames when adjusted to short lengths): \_\_\_\_\_

Adjustable distance range: \_\_\_\_\_

Special fixed distance: \_\_\_\_\_

***Main beam configuration***

Single beam: \_\_\_\_\_

Double beam: \_\_\_\_\_

Triple beam: \_\_\_\_\_

***Part mounting interface***

Mounting clamp: \_\_\_\_\_

Mounting Face Plate: \_\_\_\_\_

Standard Mounting Angle: \_\_\_\_\_

Special mount: \_\_\_\_\_ (describe on last page)



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### **Casters**

**Trunnion holding fixtures are usually supplied with 4 swivel casters with brakes that are rated in excess of the handler's capacity. Typically, caster wheels have solid urethane threads & non-lubricated bearings. Other considerations include:**

Shock absorbing casters: \_\_\_\_\_ Foam-filled pneumatic tires: \_\_\_\_\_

Solid cushion rubber tires: \_\_\_\_\_ Designed for towing: \_\_\_\_\_

Oversize wheels for rough surfaces: \_\_\_\_\_

Oversize wheels for soft surfaces: \_\_\_\_\_

Special size wheels: \_\_\_\_\_ Electrostatic design wheels: \_\_\_\_\_

Special brakes (specify): \_\_\_\_\_

Total locks (simultaneous swivel lock and brake): \_\_\_\_\_

### **Safety Factor**

**The standard safety factor for Custom Holding Fixtures is 3. This safety factor is based on the yield strength of the materials and includes the maximum capacity load at maximum height, and a .5 G horizontal load.**

The standard safety factor: \_\_\_\_\_

Special Safety factor (specify): \_\_\_\_\_



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### ***Materials of Construction***

**Standard materials are steel, cast iron and aluminum.**

Use standard materials: \_\_\_\_\_

These materials are protected for normal usage. (See finish section).

Use Special materials (specify): \_\_\_\_\_

### ***Leveling Jacks***

Leveling Jacks: \_\_\_\_\_

Adjustment Range: \_\_\_\_\_

### ***Gear Box***

**Standard ratio is 40:1 to 60:1 for a single reduction gearbox. A double Reduction gearbox may be required for a high torque requirement or to minimize stair stepping.**

Gearbox requirements:

Ratio: \_\_\_\_\_ Torque: \_\_\_\_\_ Low backlash: \_\_\_\_\_

High temperature: \_\_\_\_\_ Clean room requirements: \_\_\_\_\_

Inertia of load: \_\_\_\_\_



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### ***Index Plate***

**An Index plate option is available in increments of 15 degrees.**

Special Index plate requirements:\_\_\_\_\_ Index stops: \_\_\_\_\_

Index increments(degrees):\_\_\_\_\_ High accuracy\_\_\_\_\_

Torque:\_\_\_\_\_Low backlash:\_\_\_\_\_Located at Gearbox end only:\_\_\_\_\_

Two Index Plates-one at each end:\_\_\_\_\_ No Index Plate:\_\_\_\_\_

Special Lock Rods to Lock Trunnion Rotation:\_\_\_\_\_

### ***Finish***

**Standard finish is textured semi-gloss enamel paint or powdercoat (at manufacturers discretion). Color is blue. Standard plated parts are clear zinc.**

Standard finishes (specify):\_\_\_\_\_

High temperature requirements:\_\_\_\_\_

Color:\_\_\_\_\_ High gloss, textured, flat?\_\_\_\_\_

Plating:\_\_\_\_\_ Optional Clean Room Finishes: \_\_\_\_\_

### ***Riser Lift***

**A mechanical or hydraulic riser lift is available on Custom Holding Fixtures.**

Hydraulic riser lift:\_\_\_\_\_

Special riser lift option:\_\_\_\_\_

Mechanical riser lift:\_\_\_\_\_



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### ***Miscellaneous Special Options***

**You may have special requirements not listed here. FLOTRON can work with you to specify, design and fabricate to your requirements. Your requirements could include but are not limited to any of the following:**

Special labeling or warning signs: \_\_\_\_\_

Special ESD design for electrostatic dissipation: \_\_\_\_\_

Special size or weight capacity: \_\_\_\_\_

Special lift eyes: \_\_\_\_\_

Special provisions for accepting forklifts forks: \_\_\_\_\_

Multi-axis Rotation: \_\_\_\_\_

Other special requirements, describe below: