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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: