

Rotary Shear Selector Guide

Shear Styles

Bar

The bar type shear is used in applications that require its placement completely outside the strip area. This shear has the cutter head mounted to two 2 ½ “to 4.0” diameter Thomson linear shafts. The size of the shaft is determined by the stroke & head design selected for each application. The shear is guided by bearings mounted in the slide box weldment. The unit is propelled forward and returned with a hydraulic cylinder mounted between the guide bars. It's compact width and flexibility allows this unit to fit in a minimal amount of space. The mounting base can be provided with the shear or we will fit it to a current system.

Table

The table type shear is used in conditions best served by the placement of the cutting head under the strip. The shear head is mounted to a component fitted with cam rollers. These cam rollers are designed to run in a track that guides the head for the entire stroke of the unit. A hydraulic cylinder or hydraulic motor and a ball screw can power this style shear. An electric motor option can be provided upon customer's request. A floor-mounted base is commonly used to support this unit; however special custom mounting is available.

Under - Hung Head & Track

This style allows the unit to be mounted above the strip by hanging the head below a special track. In some cases where extensive revamping of the mill would be necessary to implement a shear this system can be a viable solution. It can be mounted directly to the mill post columns or with custom brackets. The rugged design makes it rigid within itself so mounting becomes less complicated. To power the unit, a hydraulic motor and ball screw are utilized. This cuts the total length of the unit to a minimum.

Each style is available in Model 250 & 300 sizes.

In some cases a wood model has been used to visualize clearance problems and show how the unit can best be implemented.

Motion

- Hydraulic Cylinder
- Hydraulic Motor & Ball Screw
- Electric Motor

Models

- Model 250 Cutting Range .005 - .200
- Model 300 Cutting Range .005 - .300

Options

- Manifold & Hydraulic Power Connection
- Standard & Metric Hydraulic Fittings
- Flanged Or Other Hydraulic Fittings
- Limit Switches
- Manual Lock Out Pin
- Special Paint (type other than our standard)
- Custom Mounting Bases
- Other special Design Requirements
- Special Material clamps
- Driven Upper Knife

Island Machine & Engineering LLC

Design • Build • Service

847 Degurse Ave. Marine City, MI 48039
Tel. (810) 765-8228 Fax. (810) 765-9853
Email: ts kudrna@sbcglobal.net

