

SLUGGER® WHITE PAPER

SLUGGER SHEAR SIMPLICITY AND COST SAVINGS

For over 40 years, the Slugger® hydraulic bar and billet shear has been the shearing industry's most unique machine providing users with simplicity and cost savings. The Slugger's total interlocked construction, three bolster design, and horizontal actuation is a proven production winner in many world markets. In fact, the interlocked design was originally patented by Slugger.

Mechanical shears literally destroy themselves by transferring inertia stored in cumbersome bull gears and flywheels through linkages and remote bearing surfaces. When resistance is encountered in the shearing sequence, yield point shock is drilled into the welded and bolted joints, bearings, the floor and everything else nearby. Hydraulic shearing eliminates most of these problems as no inertia is stored in the shear and resistance is encountered and overcome smoothly.

While hydraulic shears improved upon the mechanical operation, the Slugger design carried hydraulic shearing into a totally new dimension, making it less cumbersome and more accurate than ever. Slugger's unique features include:

- Interlocked hydraulic cylinder between the cylinder end bolster and center bolster.
- The infeed, outfeed, top and bottom retainer plates are interlocked between the blade-end bolster and center bolster by machined grooves in the bolsters.
- The top and bottom retainer plates interlock along the full length of the infeed and outfeed side plates.
- Rigidly held together with four high-strength tie rods that are post stressed during assembly.

Slugger's unique features eliminate shear stress on bolts and welds, restrain lateral thrust during shearing, and extend the life of the tool box in comparison to the knife holder of a vertical hydraulic shear. In addition to these unique design features, the Slugger shear offers fast and easy knife blade changes, knife blades with eight shearing edges, and certain models (300 ton and larger) with tandem cylinders for variable shearing speeds and tonnages. If a job does not require high tonnage, the Slugger can be switched to low range for faster shearing speed.

The Slugger shear uses an adjustable base to compensate for different bar center lines. Traditionally, infeed and outfeed conveyors are adjusted for different bar center lines, but this means rugged conveyors or even simple fixed outfeed tables can be used to support or guide long lengths and make even the most basic material handling layout more productive.

Slugger's unique and simple design features provide our customers with machines that have long life cycles in harsh operating environments and provide costs savings due to fewer repairs as a result of its rigid design, quick tooling changeovers, extended tooling life, faster shearing speeds, and compatibility with a variety of material handling equipment.