

**SESCO PRODUCTS GROUP**  
**OSCILLATING SHEARS**

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Sesco Products Group provides a variety of coil processing machinery that is designed to optimize production efficiency and material utilization. These machines are typically incorporated into Cut-to-Length Lines and Blanking Lines to provide the end-user with the most versatile and flexible coil processing system possible. The shear blade oscillates up to  $\pm 30$  degrees with each press stroke to produce near net-shaped blanks for optimum material utilization.

The Oscillating Shear combines the capabilities of conventional shears with modern servo technology to provide a high production and flexible shearing operation. Sesco Products Group uses state of the art servo driven positioning systems, where other builders use mechanical and hydraulic systems. Programmability of the necessary shear angle is possible with these systems and part set-up information is typically stored in a Job Recipe matrix and recalled through a Panelview MMI.

Our Oscillating Shears are available in a number of configurations depending on the application and speed requirements. For typical Cut-to-Length applications a hydraulic production shear is used to obtain stroke rates up to 35 SPM. These shears have heavy-duty gusseted and welded construction of the side frames, crown, and ram components. Other features such as single rake angle blades, hardened D2 tool steel blades, and adjustable blade gap are provided as standard.

For the oscillating motion of the shear a multi-turn precision ball screw and polymer nut is used to drive the pivoting base of the shear. The pivoting base is mounted on a vertical spindle that is guided by top and bottom roller bearings to assure precise rotation of the base. An AC servo drive package provides programmable setting of the shear angles. Other features of the die include a pivoting entrance support conveyor, self-centering material edge guide system, a shifting exit conveyor that can be designed as a variable speed or indexing conveyor,



Photo of Servo Driven Oscillating Shear