



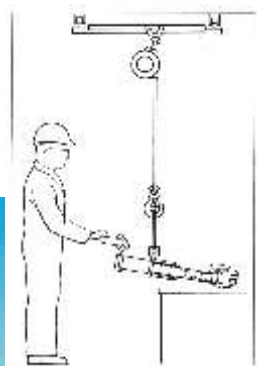
Osborn • SPO • Sutter

Casting Wedge for easier, safer riser removal

The hydraulically powered wedge breaks off risers from iron (gray or nodular) and steel castings. It does it faster, easier, and with more safety than by using hammers, saws or other tools.

The wedge is easily moved to position the tip of the wedge into the space between the casting and riser. When the handle-mounted push button is pressed, the self-contained hydraulic cylinder is activated. The wedge moved forward, spreading the side plates apart. The pressure between casting and riser forces a clean break between them at the weakest point in the gate. The wedge retracts when the button is released.

A typical suspension system
(Customer provided)



WEDGE UNIT	Model No. TK2/180	Model No. TK2/150
Breaking force	15 tons	30 tons
Pressure (aprox.)	4000 psi	4000 psi
Wedge Stroke	4 inches	4 inches
Side plate spread	7/8 inches	7/8 inches
Weight	65 pounds	85 pounds
Overall length	29 inches	32 inches

Minimum casting damage. The wedge breaks the gate at the optimum location, without damage due to unwanted hammer blows on the casting.

Easy handling. The entire device is supported from overhead with either a counter-weight or spring-balance system. It is maneuvered into any position with little effort.

The wedge is supplied as a complete system, consisting of the wedge mechanism, electrical control box, and a hydraulic power unit. Power units can be built to accommodate up to six pumps, to serve up to six wedge units.

The wedge member and side plates are easily removed for repair or replacement without special tools.

Now, one-hand operation. Redesign of the handle, lighter weight, and greater maneuverability frees a hand to handle castings.

Now, another axis of motion. Held in a suspension ring within which it can rotate, the wedge can now be moved to better approach the casting/riser gap.

Now, longer jaw life. The side plates that contact the castings are made of austempered ductile iron. Test show three times longer life.