Home of the Hydraulic Toggle®
Automatic Welding
Home Of The Hydraulic Toggle
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U.S.A. Patent Number: 4,927,089  Canadian Patent Number: 2,004,531
• The Hydraulic Toggle® cylinders are designed to save countless hours required to manually adjust the jaw setting for various aggregate sizes or a plugged jaw cavity.

• They are constructed of high-strength alloy steel, built to withstand the harsh abuse of the crushing environment.

• Crusher operators can adjust the jaw setting as frequently as jaw wear warrants. This consistent setting ensures properly sized material is produced.

• The cylinders are designed with a “Pressure Relief System” to safeguard the crusher from uncrushable materials.

• The tension rod cylinder systems are designed to maintain the pre-set loading on the tension rods regardless of the jaw setting. Sufficient tension force is maintained to securely hold the hydraulic toggle cylinders in position while providing the option of adjusting the jaw crusher setting while the crusher is operating.
Crusher Types

- The Hydraulic Toggle® cylinders are designed to fit in single overhead jaw crushers.

- The Hydraulic Toggle® cylinders are designed to fit in double toggle jaw crushers.
Hydraulic Toggle® Installation

- The Hydraulic Toggle® cylinders are designed to fit in the space normally occupied by the toggle plate.
- Existing toggle seats or bearings are used.

- All or most shims are removed to maximize the Hydraulic Toggle® length.
- The moveable toggle block is adjusted back.
- The toggle plate is removed and the Hydraulic Toggle® is installed.
- For the majority of applications no retrofitting is required. For some makes, usually smaller size jaw crushers, minor clearance modifications are required.
- Our replaceable toggle ends match the profile of the jaw crusher’s original toggle seats or bearings.
Nitrogen Hydraulic Tension Rod Cylinder Installation

The tension rod cylinders connected to the nitrogen hydraulic accumulator are designed to maintain the pre-set tension on the tension rods regardless of the jaw setting.

The following items are removed:

- Existing Tension Rods only

The following items are installed:

- New Longer Tension Rods with the Original Tension Rod Springs and Caps
- Tension Rod Cylinders
- Nitrogen-Hydraulic Accumulator
- Nitrogen Filler Manifold: c/w Pressure Gauge, Relief Disc, Schrader Valve and Pressure Switch
- Hydraulic Hose Connections
• Jaw crusher adjustment is accomplished from a power unit for control of the Hydraulic Toggle® Cylinders. Operation of the power unit is easily accomplished utilizing the hand held push button pendant control. Remote control is optional.

Various Worldwide Voltages Are Available
(Control Options Are Available Through PLC Control)
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