metal forming

compression molding

die spotting

blanking

drawing

die try-out

straightening

hobbing

assembly

forcing

friction molding

steel rule die cutting

bulldozing

trimming

compaction

laminating

briquetting

plastic molding

metal working

special work

composite molding

fluid forming

sheet molding

gluing / bonding

hot presses

super plastic forming

urethane forming

automation

SAVAGE Pulley Splitter

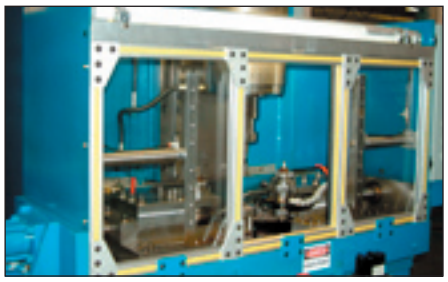
MADE IN USA

SAVAGE, a hydraulic press manufacturer for over 40 years, pioneered the modern split pulley machine. In the 1960's we developed a very rigid "C"-frame type machine because existing market offerings were flimsy and would not produce a consistent quality part. With continual improvements, we were building programmable machines, even prior to the advent of the microprocessor. Today's electronically controlled hydraulics combined with the superior frame, spindle, slide, bearings, and guide design with precision-machined parts make the **SAVAGE** splitter unparalleled in Accuracy, Speed, Power, and Production.

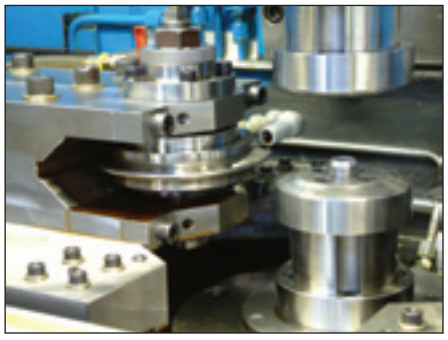
*Our customers have compared our machines with our competitors' on same-size pulleys with faster cycles and higher quality product from **SAVAGE** splitters.*

This means more profit for you.

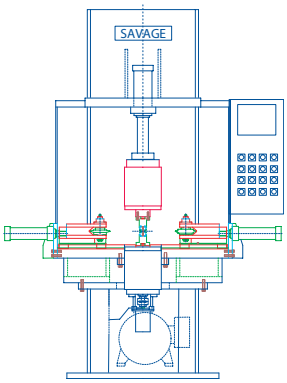
The upper spindle travels vertically on zero clearance linear square rail slides, a vast improvement over posts and bushings with their inherent clearances as on competitive 4-post presses.

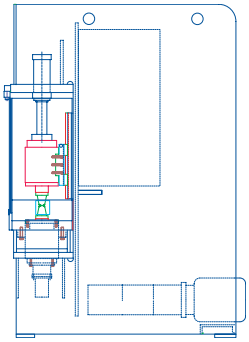


The hydraulic driven lower spindle has more power than competitive models for faster production rates and more flexibility. Our spindles bearings are designed for high thrust, low heat generation, and long life.



The opposing cutter and form roll assemblies are mounted on high-precision linear square rail slide assemblies. These are the zero clearance type typically used on grinders and CNC equipment. Each assembly has 2 linear rails with 4 slides to spread out the load and increase the stiffness. The 10" stroke per side allows pulleys from 2 3/8"∅ to a full 12"∅.





SAVAGE

4855 Chaincraft Road • Cleveland, Ohio 44125

Contact: Fred Wolbert
Phone: 216.587.2885 • Fax: 216.587.0613
Email: info@savagepress.com

*Visit our website at **www.savagepress.com** to see the full line of presses we design and manufacture.*

SAVAGE Pulley Splitter

MADE IN USA

HYDRAULICS

The machine is powered by a 60 hp. motor to provide more torque to the hydraulic spindle drive motor for faster speeds and final edge roll-over. Spindle speed is adjustable to 1250 rpm.

A Parker™ pressure compensated piston pump is used as the main source of hydraulic power. All hydraulic components are Parker or equal unless otherwise requested. The Parker hydraulic components are warranted for five years. Valving is block manifold mounted for simplicity, ease of maintenance, and leak-free service.

Quick connect hydraulic test points are used throughout the hydraulic system. Each test point is tagged (as well as all components) with a number corresponding to the hydraulic print for quick identification. Two test gauges with hose and quick connectors are supplied with each press. If you have a problem, you can simply call us and we will direct you in the trouble-shooting process, typically resulting in same-day diagnostics.

ELECTRONICS

A large color touch-screen operator interface contains all stored programs. A set-up screen is provided for developing new pulley programs. The screen permits you to fill in spindle speeds, roll and ram speeds, positions, and dwell times, plus all pertinent data to be stored in memory for automatic running. The system flexibility allows fine tuning for consistently high-quality product.

The color screen also displays a parts counter, running time of each pulley, machine faults, spindle RPM, ram tonnage, ram position, and also speeds, pressure, and positions of the cutter and roll.

Electrohydraulic proportional valving combined with Temposonics™ linear encoders in each cylinder and a PLC controls feed rates and positions of the cutter, roller, and clamp ram. Stopping positions are accurate to .002 inch repeatability for consistent quality parts. The PLC also controls spindle motor rotation speed and ram clamping speed via proportional valving.

The entire program can be stored in memory and called up when needed without additional setup. This means repeat jobs run with the same parameters, job after job. A fill-in-the-blank menu allows edits quickly to compensate for any blank material differences. After initial set-up for a new part, all values are stored in memory and called up by an assigned part number.

Maximum pressure of the main ram, cutter, and roll is adjustable remotely at the operatorís station. This permits the operator to limit pressure and protect tooling during the development of a new pulley or in any phase of the operation. Pressure can be part of the programmable program as an option. Splitter and roll heights are manually adjustable.

MECHANICAL

Heavy “C”-frame type construction, is designed on a 75 ton frame to prevent vibration and deflection inaccuracies. The frame is precision machined with linear guide rails on the ram, cutter, and forming roll to hold the centerline accuracy to .001 of an inch. This system reduces pulley run out and scrap rates. The press will clamp with up to 20 tons of force.

The spindle bearing system was developed co-operatively with bearing factory engineers for reduced heat and long life. A self-contained, filtered, lubrication system prevents contamination of the bearings from wear particles. The oil is also cooled to reduce bearing heat. A self-contained system supplies cutting oil to the cutter and roll tools. See-through splash guarding closes automatically when the splitting cycle is initiated.

We can design our tooling holders on the spindles and on the cutter and rolls to accept your current tooling design.

SAVAGE

216.587.2885 • www.savagepress.com