PHOENIX PRESS CONFERENCE

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In this issue

As controlling costs continues to be in the forefront of everyone's mind for the upcoming year, we are proud to highlight equipment that is economical, improves efficiency, and makes the most out of the systems you may already have in your facility.

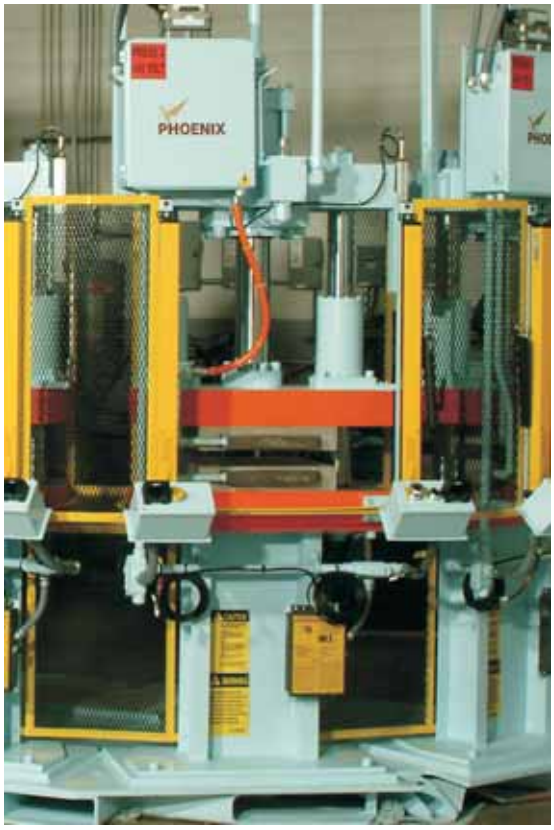
Increase Production Efficiency with this Heated Platen Multiple Press Cell

This heated platen, two-column style press was custom engineered to improve the cycle times for bonding a paper material to a metallic ring. Four separate cells were produced, each consisting of four 30 ton presses individually driven by a single power unit. Each of the presses feature 13" x 14" heated platens with insulation on the bottom and sides, capable of reaching working temperatures up to 700 degrees.

The cells were designed to build pressure on one press while allowing movement of the next press platen, improving cycle times.

The presses are controlled by an Allen Bradley 505 programmable controller with an Allen Bradley Panel View 1000 operator interface to run machine functions. The 150 gallon hydraulic reservoir is floor mounted and has spin on filters.

This cell can be designed in a variety of tonnages and engineered to meet your custom specifications and applications. Phoenix Hydraulic Presses can also equip this cell with a complete automation system to simplify your manufacturing process.



Press Conference is a periodic publication of Phoenix Hydraulic Presses. Our sales staff in Hilliard welcomes your inquiries. Product literature is available on request.

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PHOENIX HYDRAULIC PRESSES

WE HAVE MONEY!

Easy and Affordable Leasing Options

Phoenix Hydraulic Presses is proud to introduce NEW affordable Lease Financing, adding another option for owning and operating your own Phoenix Press. In conjunction with Popular Equipment Finance we can offer this lease program as a cost effective solution for your cash flow. One option includes no payments for the first six months.

> **"Your press [makes] money before you ever owe a payment"**

Instead of paying for a press before it generates any income, this option allows your press to start making you money before you ever owe a payment. With many lease options and lease terms, we can design a press to fit your needs and still leave a little cash in your pocket.

Customize the features of your H-Frame Press

Customized doesn't have to mean expensive. Get the features you need at an economical price.

This versatile 25 ton heavy duty H-frame shop press is an economical alternative to larger hydraulic presses. The press shown here was designed to assemble spring loaded cylinders.

The press features an easily adjustable hand winch to change the bed height and control the amount of daylight. A self-locking winch mechanism prevents bed from dropping when handle is released. The 115 volt single phase motor is controlled by a remote hand control with a rocker style switch. The remote with 10 foot cord enables operator to view work from all sides with fingertip control of ram movement. A moveable work head permits off-center loading under full capacity along the entire width of the frame.

Phoenix designed special tooling that includes a removable bolster plate, lower spacer, and upper pusher. The custom guarding consists of Lexan covering the sides for clear view of the work area, rear expanded metal, and an electrically interlocked hinged front guard to allow for operator access. The motor is disabled when the guard is opened. This line of versatile H-frame presses is used for assembly, pressing, pulling, straightening, and lifting.

Our line of presses has a number of available options including air, hand, foot, or electric pumps; single or double acting cylinders; roll-beds; remote hand controls; tooling; and guarding available in a variety of tonnages from 25-200 tons.

Press Rebuilding

Phoenix Hydraulic Presses completely overhauled five hydraulic presses for an automotive supplier. As a part of the rebuild Phoenix replaced broken or worn parts, cleaned the entire press, and fixed all leaks. All of the hydraulic valves were disassembled, cleaned, and replaced with new o-rings. Hydraulic lines and fittings were replaced entirely. Damaged gauges and the cylinder rod gland assembly were completely replaced. After cleaning, rust removal, and new paint, the presses passed Phoenix's rigorous testing and run-off procedure.

Upgrade Your Press to a **PHOENIX** Press

If you already have a press that could get the job done but has seen better days, consider rebuilding as a cost effective alternative to buying a new press. Rebuilding or upgrading machine functions may be the best option for getting equipment in service as fast as possible. Phoenix can rebuild and upgrade any brand or style of hydraulic press. Common Rebuilding Services Include:

- Replacing hydraulic lines and fittings
- Cleaning valves, reservoir, press surfaces
- Adding or replacing operator interface
- Building new panel and enclosure
- Replacing damaged or worn parts
- Complete hydraulic system rebuild
- Upgrading machine functions
- Adding capabilities
- Re-machining bed of press
- Painting entire press

Contact Phoenix to customize your press rebuild project!

Light Where You Need It

Whether your goal is saving money, saving the environment, or jumping on the green bandwagon, saving energy has its benefits. Getting started on the energy efficiency track often may be the hardest part. One of the simplest and most cost-effective first steps a company can take is to replace inefficient lighting. In high-ceiling warehouses or industrial spaces, lighting energy can be reduced by up to 50% and still maintain or improve lighting quality *(Focus On Energy: Industry Summit)*. One of the ways inefficient lighting can be replaced is by utilizing task lighting. Reducing overhead and ambient lighting and implementing linear fluorescent lights directly above a workstation makes the use of light more efficient. It's a simple concept, but it's important to have light where you need it and not where you don't.

For more information on task lighting or lighting tips visit:

http://www.energy.gov/lightingdaylighting.htm

http://www.energync.net/resources/docs/pubs/task.pdf

http://www.focusonenergy.com/files/Document_Management_System/Business_Programs/industrialsummit_roundtable.pdf

Joystick

Levers

Foot Switch

Ram Initiation Options

There are many options for operation control on a hydraulic press. Standard dual push buttons are the most common selection for press operation. Although the standard mushroom push buttons are the most widely used choice, upgrading to an alternative control may better suit your application. For example, Phoenix Hydraulic Presses uses ergonomic safety switches as standard equipment on all presses. These electronic switches sense the presence of fingers on the contacts. There is no heavy repeated pushing of palm buttons which reduces the potential for carpel tunnel problems.

Many operations require one or both hands to be free during the press cycle. For this situation, a foot switch, or combination of foot switch and buttons may be the best option (*Foot Switch Image*). Use of a foot switch allows equipment to run by foot activation, freeing the hands to perform other operations or tasks. Using a foot switch alone provides ergonomic improvement to a workstation by eliminating repetitive hand motion, but a foot switch used in conjunction with a push button reduces the risk of incidental activation. Either way, use of a foot switch makes at least one hand available for the operator to use as needed.

For some, precision and control are must-haves for an application or job. In this situation the use of a joystick or control levers can regulate the speed and pressure of the press. On this press, (*Joystick Image*) a single joystick control and push button facilitate the movement of the cylinder. With the left push button engaged, initial downward movement of the right side joystick causes the ram to descend and provides very low pressure on the work. Further downward movement of the joystick causes pressure to increase to the optimum level of pressure.

In this example, (*Levers Image*) two manual hand lever valves are used to actuate the press. These two levers work independent of one another. The left lever controls fast up and down movement of the ram. The right lever controls the slow speed of the ram. Using the two levers independently allow for precise movements and permit the operator to achieve specific desired pressure.

Ultimately there are an unlimited number of control options available for a press. Depending on the facility, type of work, application, and operator preferences some control options may be better suited than others. If you are considering a new press with custom controls or are looking to retro-fit a new control system on an existing press contact Phoenix to help design a solution for your application.

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