

PRESS UPGRADES

**HOW TO TRANSFORM YOUR OLD PRESS INTO A NEW AND POWERFUL MACHINE
– SAVE MONEY, AND BOOST YOUR PROFITS!**



Hydraulic Anniversary
60 years : 1946-2006

Still Pushing The Possibilities

During the company's 60-year history, Hydraulic has produced more than 4,000 presses for customers around the world.

Today, we are still ahead of competition, creating ground-breaking solutions in deep draw technology and production automation. By utilizing the most recent developments in hydraulic technologies and computer-based automation systems, we deliver custom-designed, cost-effective production systems.

UPGRADES: A Complete Solution

With a strong focus on our customers' productivity demands, we offer full press upgrades – on-site – with a seamless integration of hydraulic, electronic, mechanical and software components into the existing production environment - the results are extremely efficient machines, built to meet our customers' demands and quality expectations.

VISIT OUR WEBSITE
www.hydraulic.com



Facts about products, solutions, and people at Hydraulic.

Find out more at www.hydraulic.com

get the facts

The Three Week Miracle:

A Full Press Upgrade, On-site

Hydraulic offers complete press upgrades, done in just 3 weeks, on virtually any kind of hydraulic press.

With a Hydraulic Upgrade, customers get a completely new hydraulic piping, including tank, pumps, cooling/filter system – and a totally new electrical system, including sophisticated electronic systems and a brand new Siemens control panel with customized Hydraulic software solution.

The Hydraulic team brings everything with them to the location – and within three weeks, delivers a press, upgraded to today's standard. Productivity gains ranging from 100-200% are not unusual.

Details on pages 2-3



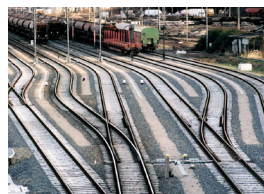
more stories:



Straightening the Plates: Hydraulic Press for Shipyard

A new solution to an old problem: Hydraulic developed a specialized press for straightening steel plates for ship hull construction which operates in all three dimensions...

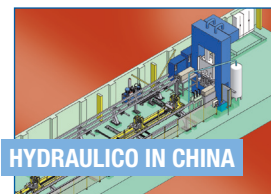
page 4



Tracking Success: Rail Forging Line Up and Running

Keith Churm, Managing Director of the *Balfour Beatty Rail Track Systems Ltd.* is pleased with their new production line, designed and built by Hydraulic. In fact, he wrote us a nice letter...

page 4



Hydraulic Production Line: Hydraulic to Deliver Huge Project in China

Hydraulic has signed a contract to deliver a complete, automated production line for switch rail forging to a new factory in Zhuzhou, China. The system, which costs \$ 7.3 million, will be delivered in 2008.

more on www.hydraulic.com

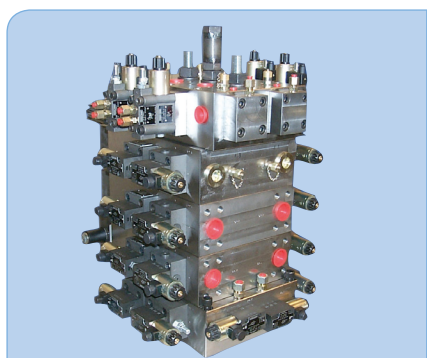
PRESS UPGRADES, ON-SITE

Three Weeks Is All We Need

It's like an all-new press: A Hydraulic Upgrade will transform virtually any press into a high-performing, top-modern machine – the result is significantly increased productivity, reduced scrap rates, and improved safety.

The cracks and spots in the paint of the old press frame will probably be the only indication of your press' actual age after a complete Hydraulic upgrade.

Because when it comes to power, efficiency and smooth operating, an upgraded press will perform almost exactly as well as a brand new press. And there's a reason for that.



We custom-build a new hydraulic manifold for your press, based on the Hydraulic Power Block Stack System. This unit will be the "heart" of the new hydraulic system.

A Hydraulic upgrade involves a total replacement of every vital part of the old press with new components, providing the newest and best in press technology, tailor-made to fit into the existing machine.

You can save money

A typical Hydraulic Upgrade costs about 40-50% of the price of a new press. And with productivity increases ranging from 100%-200%, an upgrade may turn out to be the better decision in many cases.

Moreover, an upgraded press will also allow significantly quicker tool change, because the new control system stores all necessary data for every tool. The operator simply calls the relevant preset, and the press is ready for work.

The upgrade is done on location

We know that you need your press for production and don't want to see it out of production line for too long.

That's why we have developed a unique concept: **The Three Week Miracle.**

Careful preparation, combined with our extensive knowledge of press technologies let us guarantee that three weeks is all we need to get the job done.

We bring everything with us

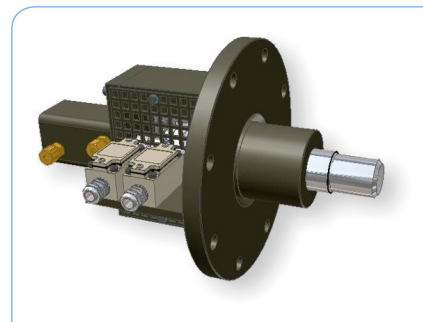
The Hydraulic team brings everything with them to the location – typically stored and transported in a 40-feet container. On location, the team unpacks everything and goes to work, and, within three weeks, delivers a press, upgraded to today's standards.

We don't leave until everything works perfectly

The new control systems will work seamlessly with your existing production tools and production routines – and add several new functionalities to your press.

A suite of tests – with your tools – are performed during the last 2-3 days of the three-week period to check that everything runs flawlessly. Finally, our engineers will make sure that your personnel is thoroughly updated on the new technology. Everyone will be carefully instructed and get hands-on experience with the new system. With the upgrade, we deliver a detailed documentation.

For future support, the system's built-in modem allows Hydraulic engineers to monitor, support and even upgrade your system remotely over the internet.



As part of the overall safety upgrade, mechanical slide-locks are installed into the press frame to improve working safety.


A safer and better working place

An update also creates a much safer, cleaner and more quiet working environment. All components installed in a Hydraulic Upgrade comply with current EU safety specifications.



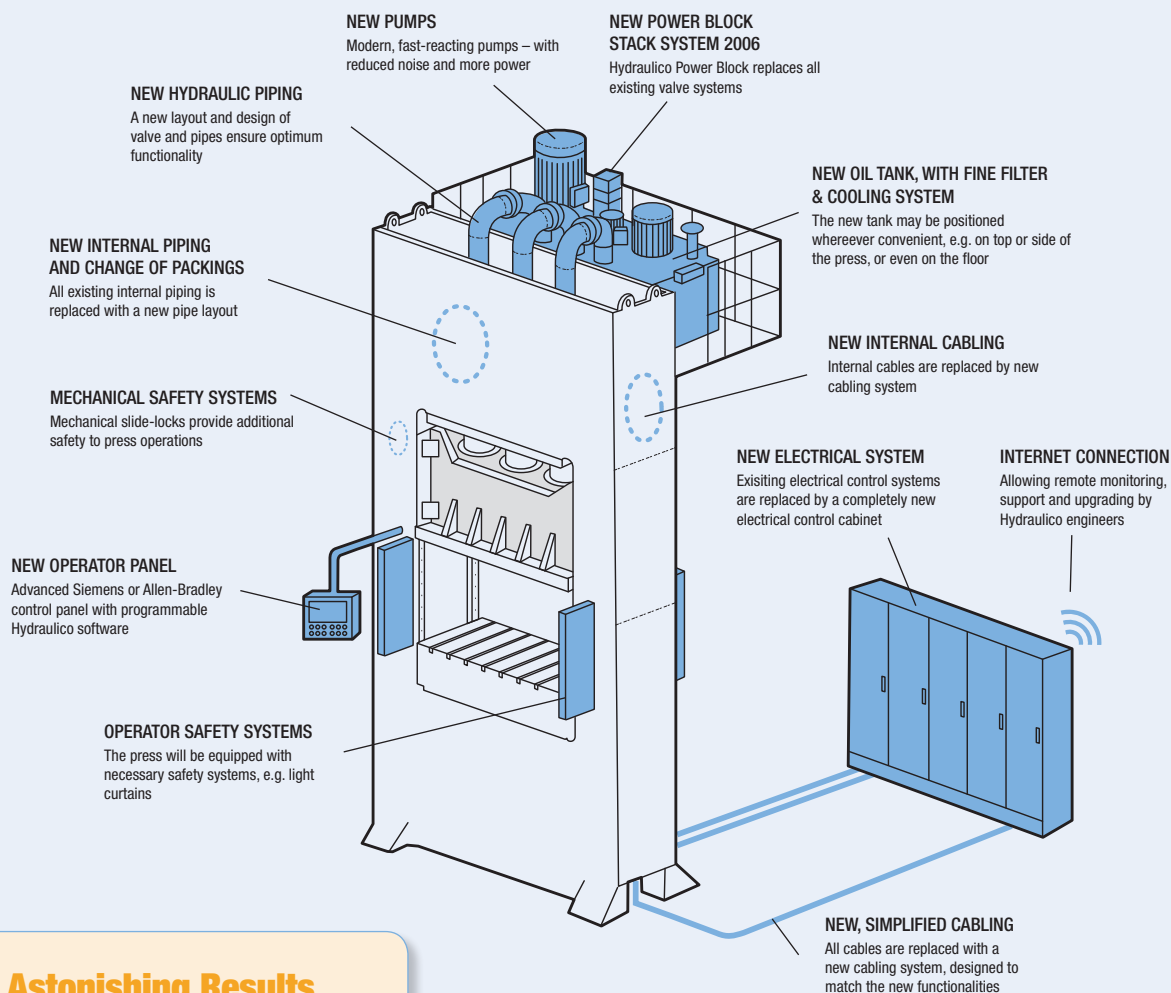
The upgraded press is equipped with the advanced Siemens OP270 control panel, or the corresponding Allen-Bradley panel – and Hydraulic software programming adapted to your production routines and tools.

Contact us for more information

If you would like to learn more about Hydraulic Upgrades, please contact us – find contact information at the back of this newsletter! 

A Complete Hydraulic Upgrade: This Is What You Get

The frame is all there is left from the past: Every vital part of your press will be replaced by new, up-to-date components – using only the best from today's leading press technologies.



Astonishing Results

A complete Hydraulic Upgrade will boost your productivity and profit:

- Higher production capacity (typically a 100-200% increase)
- Substantially reduced scrap rates
- Drastically improved uptime (typically as high as 98%)
- Reduced time for die change (typically reduced by 50%)
- Reduced power consumption
- Reduced noise levels
- A safer, cleaner and more quiet working environment
- New, useful features added to press functionality

RECENT UPGRADES: FRANKE / W&G Sissons Ltd.



Hydraulic Upgrade, July 2006 A John Shaw press is undergoing final inspection and testing by Hydraulic staff after a complete upgrade at the FRANKE company W & G Sissons Ltd. – a UK-based enterprise manufacturing steel sinks, catering equipment, and sanitaryware.




Hydraulic Upgrade, August 2006 A 5500T rubber pad press at the FRANKE company W & G Sissons Ltd. is almost ready for production testing after an upgrade. The press had been severely damaged in a fire at the factory a few months earlier.

Hydraulic 1946-2006: Celebrating 60 years of innovation



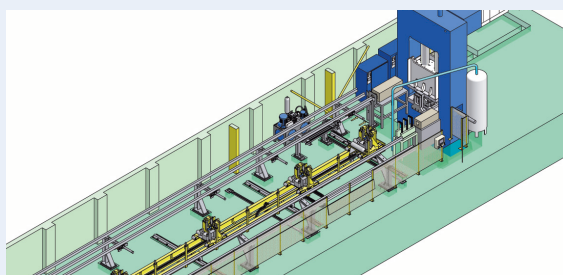
The man in the white shirt (no. 2 from the left, front row) is actually one of Hydraulic's founders, *Gunnar Pedersen* – photographed in 1948 with a team that is obviously proud of their latest accomplishment, a 25 ton press, ready for delivery!

This was just two years after the start of the small company in Odder, Denmark. In the six decades that followed, Hydraulic has built itself a strong reputation for innovation and product development.


Today, we are still ahead of competition, creating ground-breaking solutions in deep draw technology and production automation, and with a constant focus on the most recent developments within hydraulics, robotics, and software solutions. 

“Second to none”: Rail Forging Press Line

Keith Churm, Managing Director of the *Balfour Beatty Rail Track Systems Ltd.* is quite pleased with the new automated production line designed and built by Hydraulic (see *Hydraulic Newsletter* no. 1).



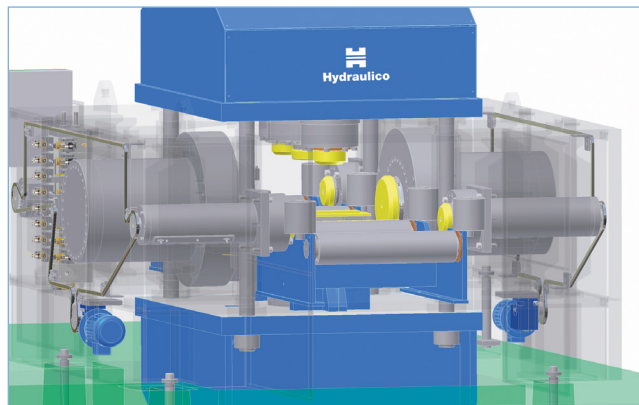
In fact, he wrote us a nice letter expressing his gratitude. We quote:

“Hydraulic has been working very closely with the company [...] on the supply of a new switch forging machine [...] I know that the project because of its complexity has posed some problems along the way, but our teams have worked hard to resolve these and we now have a state-of-the-art switch forging system in operation that is in my opinion second to none in the world and is in any case the most modern installed equipment within the supply industry.” 

Let's talk straight: Powerful Press Solution

Steel Plate Straightening Press for Lindoe Shipyard, Denmark

Hydraulic develops a new solution for an old problem




“X-ray view” of the new steel plate straightening press deployed at Lindoe Shipyard.

When the flat steel plates that shipyards use for the construction of ship hulls are cut out in long, square “stripes” (up to 25 m, app. 80 feet long), the plates will inevitably bend – vertically as well as horizontally. To fix this, shipbuilders used to straighten the plates with various mechanical and/or hydraulic devices – a tedious and often time-consuming process. The shipyard's engineers approached Hydraulic and asked us to come up with some new ideas.

Working in 3-D space

Hydraulic's solution to the problem was an entirely new press design that allows the press operator to reshape the plates in all three dimensions – simultaneously. The forming pressure is delivered by two 600T cylinders (horizontally) and two 200T cylinders (vertically), and the plate is moved through the press opening by a conveyor system.

The movements of the plate and the actual forming of the plates are controlled through a sophisticated control panel with a joystick and a small number of switches, allowing extremely quick and precise straightening of each plate. 

 More information at www.hydraulic.com



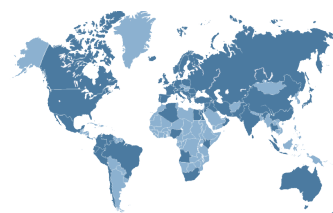
Hydraulic

Hydraulic as

Raadhugade 87
DK-8300 Odder
Denmark

Tel.: +45 8780 2000
Fax: +45 8780 0304

info@hydraulic.com



Hydraulic presses and production lines are at work around the globe.
You will find local representatives in more than 16 major countries worldwide.