

# PROSAW

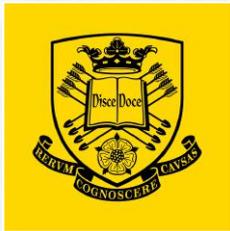
## Sawing Times

Issue No.6

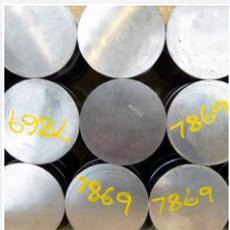
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News and application stories from **PROSAW**

## Produce more for less - is it possible?



With ISO14001:2015 now requiring companies to implement proactive initiatives to protect the environment from harm, there is a big push for sustainable use of resources such as power consumption.

Machines from ProSAW such as the **Mega CS Carbide Circular Saw** and **Danobat IDS High Performance Bandsaw**, are meeting this challenge!

Not only do both of the machines use less power when running compared with machines from other manufacturers, they also save energy when idle between different jobs.

In one recent test the Danobat IDS machine when switched on and not cutting was pulling less than 0.01 of an AMP compared with an older equivalent machine which required 3.3 AMP just to sit waiting.

In other customer experiences, we were able to complete 1 week's work of cutting within a day on the Mega CS Carbide Circular Saw. Increase YOUR output and decrease your energy costs. Everyone is a winner!

# PROSAW

# Inspiring Piling



New **Prosaw** state of the art saw-line facility cuts overheads as well as piling pipes



**John Lawrie Group Tubular Division Director Iain Laing**

Located in Montrose, the John Lawrie Group has been supplying high-quality pipe and casing to the UK and European piling and micro-piling markets for several decades, making it one of the industry's largest suppliers.

Piling projects extend from house foundations to marine developments as well as many other civil engineering projects and the group supplies almost all of the major contractors in the industry, providing casing ranging from 48mm (2 3/8") diameter to 1200mm (48"). Casings used for these purposes are mostly ex-oilfield tubes that are perfect for recycling in this way.

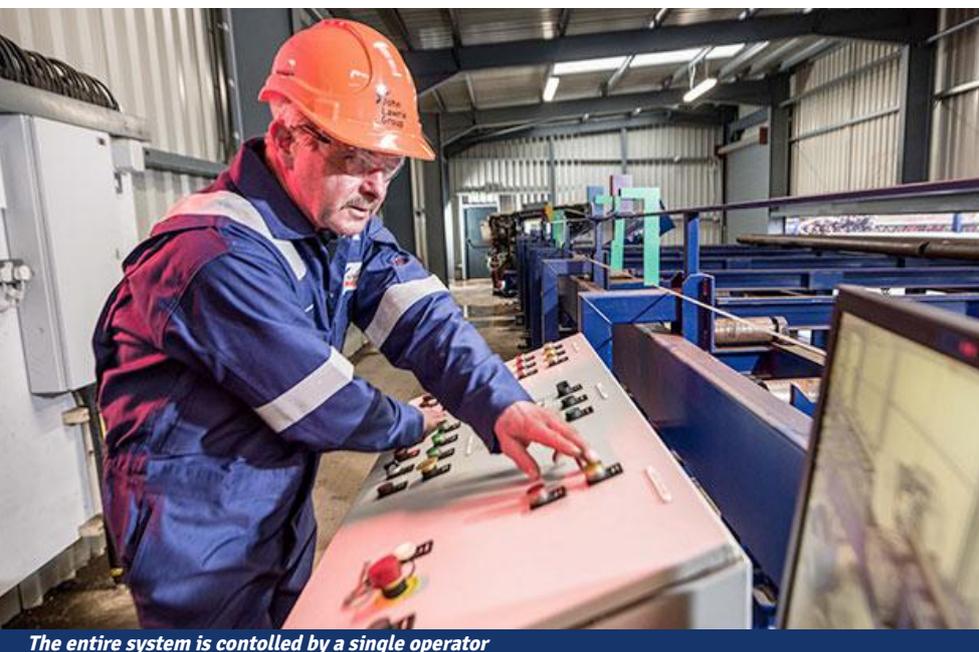
Recently, the company has invested

in a state of the art saw-line facility from **Prosaw**, capable of cutting casings to size, of up to 14 inches in diameter and 12 metres in length. The new facility includes two new saws and a completely automated production line.

Iain Laing, director of John Lawrie Tubulars, who has been closely involved with the design process of the new saw line, said: "The John Lawrie Group is unique in the way it operates and we wanted a system which reflected that. I gave a list of requirements for the new facility to the manufacturers and we worked together over a period of months to produce a bespoke system which satisfies all of our exact needs."

The new facility replaces a three line/three saws system that required manual handling by three operators, whereas the new **Prosaw** two saws system requires no manual handling at all, which is important from the Health and Safety perspective. It is also able to function efficiently with both saws being controlled by a single operator.

Commented Mr. Laing, "we chose to work with **Prosaw** on this project even though they were not the least expensive bidder, because we were impressed by both their positivity and their innovative ideas on how to improve on our previous system in terms of efficiency, safety and quality," adding, "John Lawrie Tubulars is one of the leading suppliers to the piling industry. We are proud to be investing in new equipment and systems which fully comply with our tight health and safety requirements and also provide a more efficient service to our customers."



**The entire system is controlled by a single operator**

# Nuclear options



## Nuclear Advanced Manufacturing Research Centre chooses **Prosaw** accuracy

**The Nuclear Advanced Manufacturing Research Centre (Nuclear AMRC) is a collaboration of academic and industrial partners from across the civil nuclear manufacturing supply chain, with the mission of helping UK manufacturers win work at home and worldwide.**

The Nuclear AMRC brings together the experience and resources of industry leaders with the expertise and innovation of leading universities. It is owned by the **University of Sheffield** and is part of its world-leading advanced manufacturing innovation cluster alongside the AMRC with Boeing, Castings Technology International and AMRC Training Centre, all of which are based at the Advanced Manufacturing Park in Rotherham, South Yorkshire.

All requirements for sawing at the facility were originally undertaken by subcontractors, but this route was eventually considered to be too time consuming as well as being an expensive option. It was therefore decided that the most effective solution to all the possible requirements for sawing would be to acquire an in-house sawing facility.

Although usage would be almost exclusively focussed towards research, testing, maintenance or producing samples, often in small batches, it was recognised that any new sawing facility would need to be capable of processing what are termed “exotic” materials and to a high degree of accuracy.

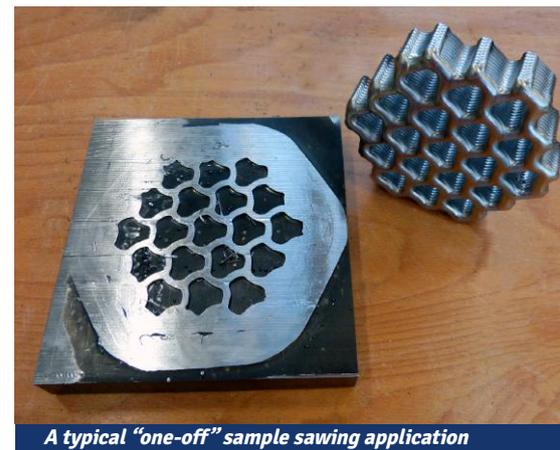
After assessing a variety of different

sawing systems from five independent suppliers, **Prosaw** were identified as the company most capable of delivering a cost effective and optimum system suitable for the needs of all possible applications.

A WH-6056HA twin column bandsaw was selected as the most advantageous solution and was duly installed by **Prosaw** engineers.

Commented Maintenance Manager Craig Hamp, “Most of the usage of the saw is intermittent as it is normally used for either cutting small batches or one-offs, so whereas volumetric throughput is not normally a prerequisite, accuracy undoubtedly is” adding “this machine certainly fulfils

that requirement, regardless of whether it is used for sawing components for maintenance purposes, testing, research, or producing samples.”



**A typical “one-off” sample sawing application**



**The Prosaw WH-6056HA Twin Coloum bandsaw in situ at Nuclear AMRC's facility in South Yorkshire**

# A Mega success



Rapid sawing of nickel steel billets achieved with new **Prosaw** Mega bandsaws



Located in the “Steel City” of Sheffield, Special Quality Alloys Ltd are a market leading supplier of forged products, bar and machined components in nickel-based alloys, duplex, super duplex, stainless steels and carbon and alloy grades principally for the oil and gas, power generation, aerospace and general engineering industry around the world. The Company holds approvals required by the oil and gas industry including ISO 9001, ISO 14001 as well as numerous end user approvals.

Part of the Special Steel Group, Special Quality Alloys were delighted to have been requested to produce a total of 35,000 bars to be cut to size from billets, forming part of a single individual project.

The company had previously purchased a number of saws from **Prosaw**, but this specialised rapid sawing application was so intensive that two brand new saws were required in order to fulfil the demand.

Firstly, **Prosaw** supplied a Mega BS330HAS heavy duty automatic bandsaw to the company, which has been fully employed cutting the billets for seven days in every week since installation.

Later, this was supplemented with a second machine, a Mega H-460A heavy duty automatic twin column bandsaw. Both Mega saws are perfectly capable of superfast cutting of the high Rockwell hardness nickel steel billets.

Special Quality Alloys Operations Director Dean Matthews expressed his satisfaction with the service given to this project by **Prosaw** as well as with the performance of the bandsaws, remarking that “These two saws have proved themselves to be very reliable in what has been intensive service and have established their capability in efficiently and accurately handling a very challenging material.”

Mr. Matthews pointed out that “Both of the Mega saws are demonstrably reliable in service, which of course reduces the frequency of any servicing that might be required, which in turn reduces both down time and servicing costs.”



The Mega BS330HAS heavy duty automatic bandsaw



The Mega H-460A heavy duty automatic twin column bandsaw

# Sawing at the double

## HILLCREST

New saw allows structural steelwork fabricator to double their output



The Lighthouse Building, Euston Road - London

Hillcrest Fabrications Ltd have been producing steel fabrications in Swadlincote, Derbyshire since 1974. The company are a subsidiary of

Hillcrest Structural Ltd who specialise in supporting major projects from the initial concept through to completion, including special recent projects such as the refurbishment of the iconic Lighthouse Building in central London.

Construction 820.450DGS twin column mitre bandsaw, which is an ideal tool for sawing structural sections. This saw is capable of automatic mitre settings of up to 60 degrees to the left and to the right, and has been specifically designed for fast cutting of sections.



Automatic sawing in action

The Company are specialists in the design, supply, fabrication and erection of structural steel as well as ancillary items such as staircases and handrails.

In order to improve quality as well as capacity, the company recently took the decision to upgrade their automated sawing system. The results have been spectacular.

Not only is the new system capable of processing much larger beams than were previously possible, but it has also ensured that the the company's entire range of products can be processed in-house. Significantly, production has doubled since installation.

Additional efficiency as well as better quality have both been achieved due to the high degree of accuracy of the cut, allowing the company to produce up to twice the tonnage per day than with the previous sawing system.

Prosaw recommended a Bomar

Hillcrest Fabrications Ltd Managing Director Jason Evans is delighted with the new acquisition and expressed his satisfaction not only with the excellent performance and suitability of the bandsaw, but also of the professionalism of Prosaw's installation and after-sales service. He was particularly impressed by the smooth and efficient installation process, observing that when setting up the system, "nothing was too much trouble for the Prosaw engineers" going on to say "We have had the good fortune to have dealt with Prosaw for more than 20 years and during that time the service we have received has never failed to be excellent. It goes without saying that we are very happy with our investment."



The Bomar Construction 820.450DGS twin column, mitre bandsaw

# A Metal Cutting Service From **Prosaw**

**PRODUCTION CUTTING**  
SERVICES

Subcontract Metal Cutting At It's Best!

We cut metals to any length...  
exactly to your specifications

**Prosaw Production Cutting Services** offer a fast, efficient and economic solution to sub-contract metal cutting, using the very latest sawing machinery. **Production Cutting Services** have capabilities for vertical plate sawing, high production bar cutting and mitre cutting of all types of sections and materials. The success of the new company has been particularly impressive as more and more companies look to out source their specialised cutting requirements and now rely on the company who have more than 50 years experience of offering sawing solutions.

## Prosaw Certificated Training Courses

- Can you meet your obligations to the Health & Safety of your bandsaw operators?
- Are your saw operators trained and certified?
- Are you running at maximum productivity in your cutting department?
- Are you getting maximum life from your blades?

If you cannot answer yes to all of these questions, then you cannot afford to miss one of our training sessions.

We were established in 1963 and our specialised tutor is a respected authority in bandsaw theory and practice gained in over 20 years of practical experience.

You will benefit from:-

- A thorough working knowledge of bandsawing techniques
- A comprehensive reference package for you to take away
- A certificate of completion, an acknowledgement of your operator's competence

*~ Call us today to book your place - Ring 01536 410999 ~*



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