

PROSAW

Sawing Times

Issue No.5

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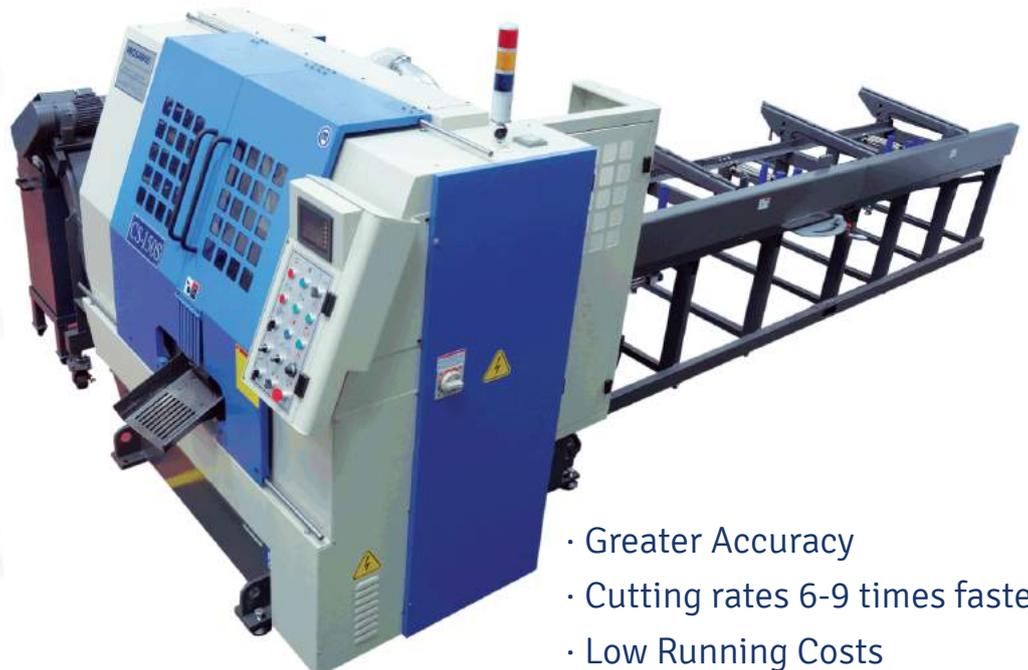
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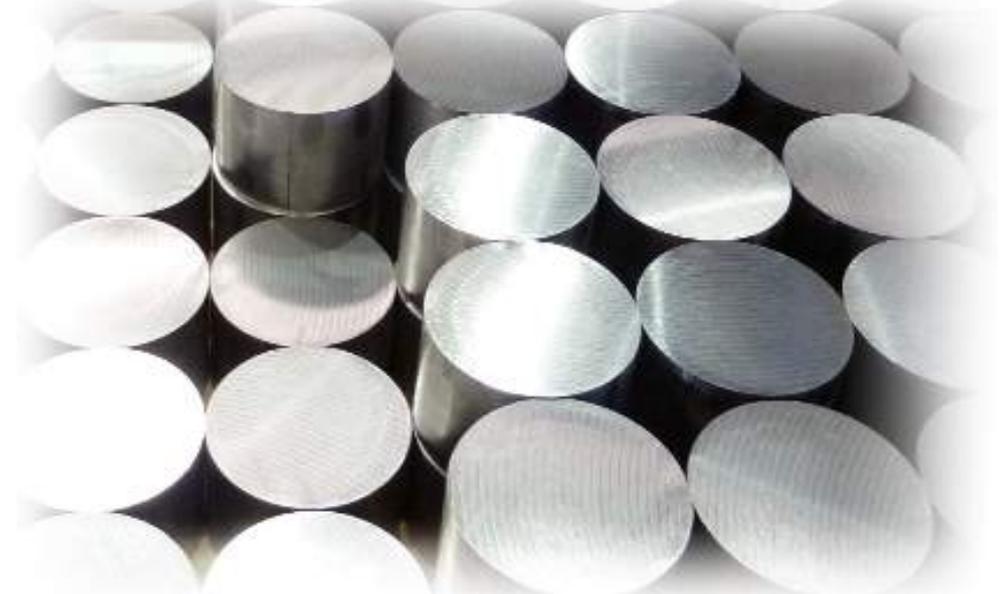
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News and application stories from **PROSAW**

Times Are Changing!



- Greater Accuracy
- Cutting rates 6-9 times faster
- Low Running Costs

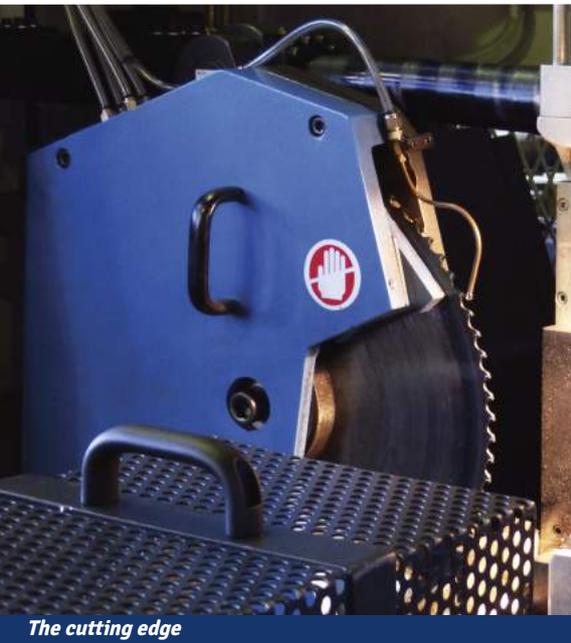
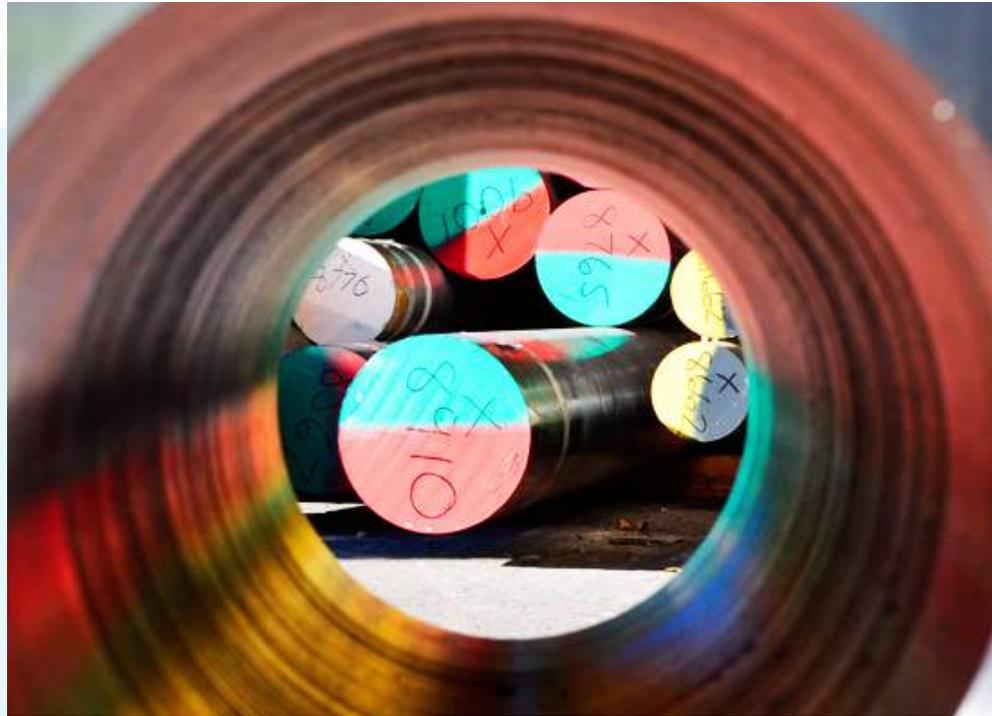


PROSAW

The harder the better



Individually designed
hi-tech cutting technology
reaps major rewards for
stainless steel stockholder



The cutting edge

Presented with the opportunity of supplying sawing equipment that would drastically reduce cutting times of even the very hardest stainless steel materials whilst simultaneously extending blade life, **Prosaw** rose to the challenge and after extensive research, developed a startling new sawing system.

Established in 1987, Sheffield based A.D.Bird Stainless Ltd. supply specialist stainless steel materials and products ranging from precision ground shafting for use in the marine, petro-chemical and automotive industries, to an extensive range of cut blanks.

The company specialises in stainless steel bars of up to 12 metres in length and 640mm in diameter,

depending on the grade, including conditioned grades such as Precipitation hardened stainless steel.

Prosaw's challenge was to design a sawing system that would overcome these tough criteria whilst simultaneously maximising the efficiency of the cutting process of not only those grades previously deemed difficult or near impossible to cut, but of all grades of stainless steel.

After exhaustive research and development followed by comprehensive cutting trials with the manufacturers, **Prosaw** were satisfied that they had developed a solution to the challenges that they were faced with, by producing a purpose-built new model Mega CS-150SN circular carbide machine that features lower cutting speeds but with a greatly increased torque than is normally available.

The result has been warmly welcomed by their customer, who has benefited from significantly reduced cutting times, an improved surface finish and greater accuracy compared to the company's existing sawing machines.

Explained A.D.Bird Stainless Ltd's Managing Director Nigel Bird, "Cutting times are now that much shorter than before, so much so that the **Prosaw** CS N machine has made several of our older machines redundant due to the capacity and speed of the new machine." Adding: "Our overall experience has been very good indeed and when any minor problems have arisen, they have been swiftly solved by **Prosaw.**"



The Mega CS-150SN circular carbide machine in situ at A.D.Bird Stainless Steel

Dealing with sealing



Tray sealing company turn to **Prosaw** once again for new stock plate cutting facility



Formed by directors Steve Malone and Robbie Hargreaves in 1998, Proseal has not only become the leading UK manufacturer of tray sealing machinery and tooling, but is now recognised as a major force internationally.

The company's extensive range of tray sealing systems incorporates portable, semi-automatic, automatic in-line, as well as sandwich packaging systems, all of which rely heavily on key tooling components that are manufactured from aluminium or acetal copolymers stock plates.

The company is proud of its reputation for the outstanding quality, speed and reliability of its range of sealing equipment and demands the same high levels of quality from its suppliers, so it is of little surprise that **Prosaw** have

recently commissioned their third sawing system within the last two years for cutting stock plates at Proseal's headquarters in Adlington in Cheshire.

Stock plates come in a variety of thicknesses, those from 7mm to 50mm are used for standard tools, plates up to 100mm in thickness are used for vacuum tools whilst when using acetal copolymer tools, plates up to 50mm thick are required.

Unlike previous sawing systems supplied to Proseal by **Prosaw**, the latest addition is the first vertical bandsaw that has been installed at the company's Adlington headquarters and was individually designed for Proseal to accommodate all possible thicknesses of their stock plate.

This latest sawing system has been specifically created with a Health and Safety perspective in mind. For example, an extra large bed is incorporated into the machine in order to assist the operator when loading bulky or heavy stock plates onto the machine. Additionally, the saw bed is fitted with surface mounted roller bearings to ensure smooth and easy manoeuvring of heavy plates once the plates have been loaded onto the bed.

Commented Manufacturing Manager Paul Wilson, "We are happy to have a very good ongoing relationship with **Prosaw** and have been perfectly satisfied with both the quality of the systems and the excellent after sales service that we have received from **Prosaw**."



Unloading a stock plate after cutting



Cutting a stock plate to size with the Bauer vertical bandsaw

Fast versatile efficient



UK's largest stainless steel long products stockholder celebrates 40 years anniversary with saws from **Prosaw**



Amodil Head Office and warehouse, Forest Park, Cleobury Mortimer

In January 1976 the Amodil Group was established as a privately owned UK trading office for Olarra S.A., selling stainless steel bar on a manufacture to order basis. As the orders began to grow so did the stock, and in 1984 they purchased the current 81,000 square meter site at Forest Park, Cleobury Mortimer. For the next 32 years the group would slowly grow to become the largest stockholder of stainless steel long products in the UK with over 5,000 tonnes held of round bar, billet, wire and tubular products.

With an increasing demand for material to be supplied in cut pieces, the group have recently invested over £250,000 to expand their already modern cutting shop to enable cuts up to 520mm diameter with tolerances as tight as 0.5mm. Such close tolerances demand exceptionally accurate sawing systems, which is why, when the need arose for Amodil to increase production they chose Danobat bandsaws from **Prosaw**.

The machines, a Danobat IDS5, capable of sawing stainless steel solid bars of up to 520mm diameter and a Danobat DS3, with a capacity of up to 300mm diameter were supplied by **Prosaw** complete with supporting integrated extra heavy duty material handling systems.

Each machine is capable of sawing many different grades of solid stainless bars including unusual speciality stock such as Duplex, Super Duplex and 17/4 PH grades as well as the more standard 316L, 304L and 303

grades. Both machines are fitted with "M42" blades to cut faster, more efficiently and with considerably longer blade life than had previously been possible with existing equipment.

Amodil Supplies Ltd., Operations Manager Alan Woodhouse had this to say about his experience in acquiring and running the new Danobat systems: "We have been delighted with the quality and performance of the Danobat saw systems. We feel that **Prosaw** have performed extremely well, which is most pleasing as they are indeed very competitive in every respect, even in relation to our previous supplier" adding "We have also been most impressed by **Prosaw's** excellent response times when it has been necessary, whilst still giving us a first class service."



The Danobat IDS5 bandsaw



The Danobat DS3 and IDS5 bandsaws in action

Top Cropping



SAXON

Fabrication company enjoys the benefits of its new Geka flat punch and shear line supplied by **Prosaw**



Hole punching occurs automatically prior to cropping

Formed in 2010, Saxon Fabrications Ltd., specialise in the fabrication of structural steelwork such as columns, beams, portal frames, stairways, ladders and secondary steelwork.

Conveniently situated in Newton Aycliffe, County Durham, the company fabricates in the region of 50 tonnes of steelwork each week. A speciality of the company is the production of flat bar “fittings”, designed and produced as fixing flanges for numerous types of building frame constructions.

In order to upgrade the production capacity of their flat bar fittings, **Prosaw** has recently installed a Geka Alfa 500 Flat Punch and Shear line. The new system can accommodate

flat bars of between 50mm x 3mm up to 500mm x 20mm and with a maximum length of 6 metres, all of which are suitable for automatic hole punching, a feature that delayed the acquisition of a beam drilling machine until production requirements had further increased.

The Geka system uses DSTV files to directly program from CAD format to the machine tool. This system allows fittings of various different lengths and hole centres to be sheared and punched from a single flat bar, making the Geka system particularly flexible and easy to use.

In this respect, the system has proved to be a significant cost saving facility, as the Company’s previous shearing system required the presence of a second operator, which is now no longer required. Additionally, not only does the company not need to outsource production in times of under capacity, but the increase in capacity that the Geka system has provided allows the company to bid for larger jobs.

Commented Managing Director Andrew Wharton, “ We reviewed several different makes of punching and shearing systems before purchasing the Geka machine. Our decision was influenced by its ease of use, its extended tool life and the lack of problems compared to other makes, as well as its competitive price. We purchased a bandsaw from **Prosaw** three years ago and have been very impressed by the standards of service offered by the company, in fact we’ve never had a problem that wasn’t satisfactorily fixed by a **Prosaw** engineer straight away.”



Finished cropped and punched flat bar “fittings”

Prosaw's World of Stainless Steel



The 17th and 18th November saw the launch of the inaugural "World of Stainless Steel" at **Prosaw** in Kettering. The event, along with a comprehensive range of cutting machines featured the introduction of two new advanced sawing systems specifically designed with the efficient cutting of stainless steel in mind.

The **Mega CS150S** Carbide circular saw (see page 2 for a recent application) is not only designed for the very fast cutting of solid stainless steel bar, but importantly it is also capable of cutting higher grades of stainless steel than were previously possible. Also on display was the High Performance **Danobat iDS** machine which features an intelligent Cutting Software control system that allows the user to achieve maximum production rates along with optimum blade life.

The exhibition was bolstered by the presence and support of a number of specialist partners, including leading saw blade specialists K R Saws, who emphasised the importance of the partnership between the machine manufacturer and the tooling company.

Also in attendance were academically focussed organisations British Stainless Steel Association and leading research centre Cranfield University. During each of the two days there was a comprehensive programme of presentations by both **Prosaw** and their specialist partners, that concentrated on a variety of diverse aspects of the use and processing of stainless steel in industry. **Prosaw** were also delighted to be able to introduce what is claimed to be the fastest stainless steel sawing machine in the world.

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
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