

Press Release:

'Extended' suite of Bystronic automation solutions on for ultra-fast sheet steel processing

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Lowering the total cost-per-cut and therefore customers' overall production costs – and increasing their return-on-investment (ROI) - is the driving imperative of the Swiss sheet metal processing original equipment manufacturer (OEM) Bystronic.

While the company is a global leader in design and manufacturing of equipment such as fiber lasers, press brakes, and the requisite software to work with these various systems, Bystronic's focus is very much on providing the leading-edge in innovative solutions for its customers.

In South Africa, the company First Cut, a foremost South African distributor of a range of cutting consumables and capital equipment, represents Bystronic.

Automation solutions for greater productivity

These cutting-edge solutions also include a wide variety of automated capital equipment solutions. For example, Bystronic's fiber lasers are renowned for their exceptionally fast output of finished components. This poses a challenge for the loading and unloading of raw materials, a challenge which the company has overcome with - among other automated solutions - the ByTrans, ByTrans Extended and the ByLoader automation solutions.

The ByTrans is linked to the Bystronic fiber laser and automatically loads steel sheets onto the fiber laser's shuttle table. After the cutting cycle is completed, the ByTrans also unloads the finished parts and residual sheets.

The ByTrans requires only 60 seconds in which to carry out the complete loading and unloading cycle. This means that the automation system is always faster than the cutting plan that is being processed. For users, this means that the laser can cut uninterrupted for an extensive period of time. While the ByTrans loads one shuttle table, the fiber laser is cutting components from the raw material on the other table.

'Extended' solution with ByTrans Extended

Additionally, Bystronic supplies the ByTrans Extended. This features not one but two cassettes, which increases the automatic capability of the system. This option offers greater flexibility as it can not only store and return, but can also handle the removal of large parts. The ByTrans Extended can also prepare plastic protective separators, which are placed between the steel sheets.

The ByTrans Extended is available in 3 x 1.5 metre and 4 x 2 metre options.

Bystronic's latest fiber laser solutions are processing raw material substantially faster than earlier systems such as CO2 laser. However, the laser forms the 'hub' of an extended automation system, which includes downstream processes such as punching, bending and welding. However, where space in a manufacturing facility is constrained, The Byloader automation system is a compact loading unit that is positioned on the side of the laser system's shuttle table. The system supplies raw metal sheets to the laser without taking up unnecessary space.

The ByTrans, the ByTrans Extended and the Byloader are operated using the ByVision Fiber's touch screen. Bystronic has seamlessly integrated the control of the two automation systems into the fiber laser's operating software. This enables users to perform all the operating steps on a single touch screen.

Globally, with the trend towards Industry 4.0 smart manufacturing, it has been found that Bystronic's fiber lasers - supported by their innovative range of additional automation solutions - are increasingly becoming the cornerstone of business success.

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(534 words)

Note to Editors

About FIRST CUT

With 61 years of industry experience, First Cut is a leading South African distributor of a range of cutting consumables and capital equipment.

Since producing its first band saw blade in 1960, First Cut has grown its offering substantially over the years, and is able to meet the needs of a vast range of industries through the supply of band saw blades, circular saw blades, hacksaw blades, and other cutting consumables.

First Cut's merger with Alexander and Poole in 2002, an exclusive agent for the Starrett range of cutting tools, was a significant milestone in the company's history, as was its acquisition in 2008 of Band Sawing Services, which meant that the company could expand its services into capital equipment.

Since then, First Cut's capital equipment division has grown exponentially, thanks to its partnerships with some of the best-known brands globally. The company's capital equipment division specialises in metal cutting, sheet metal processing, structural (such as CNC bending and punching), and tube and

pipe processing. First Cut has also invested substantially in its service programme enabling the company to provide repairs and maintenance services for a wide range of equipments, from entry level band saws to state-of-the-art CNC controlled drilling and cutting lines.

Employing 240 people, First Cut is based in Benrose, Gauteng but has a national footprint and distribution facilities across South Africa.

Quality is at the top of the agenda at First Cut and the company has achieved the ISO 9001:2008 certification and adheres to strict quality and safety regulations.

Editorial Contact

Kendal Hunt

Managing Director

Kendal Hunt Communications

+27 11 462 6188

+27 82 823 6533

kendal@kendalhunt.co.za