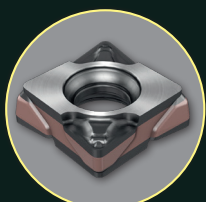


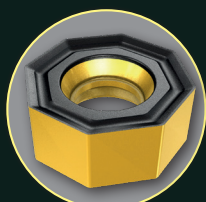
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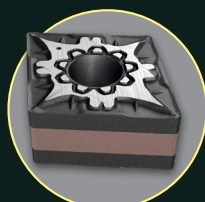
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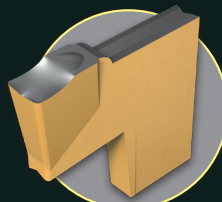
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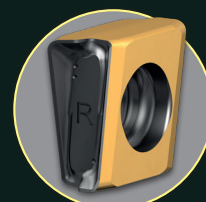
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ISO-TURN



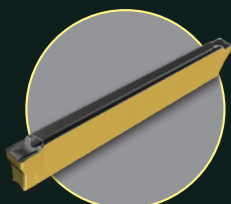
TANG-GRIP



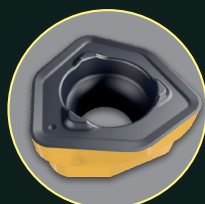
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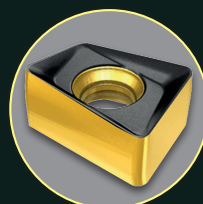
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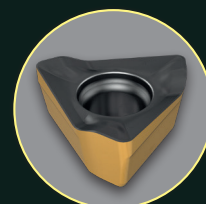
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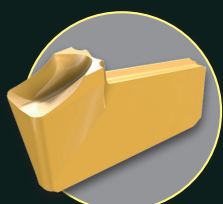
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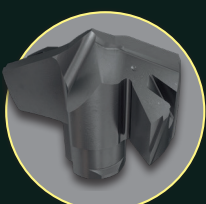
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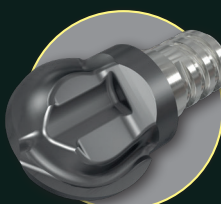
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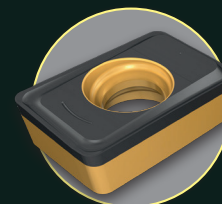
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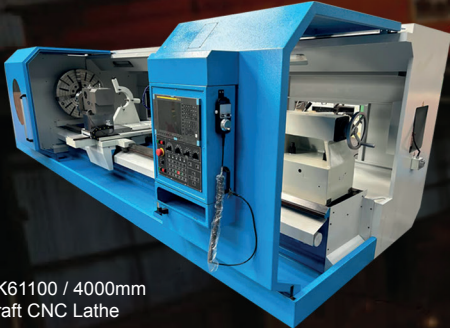


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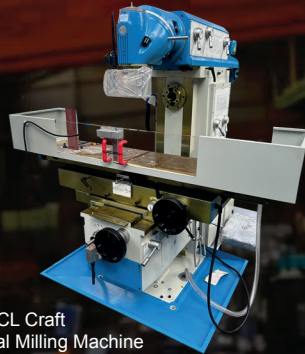
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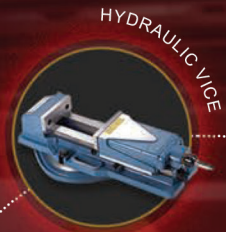
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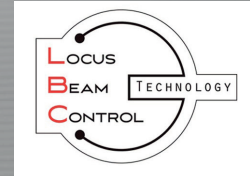
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The advertisement features the MTM SOUTHERN AFRICA logo at the top, dated July/August 2026, Volume 35 No. 4. Below the logo is the 'MAXOUT' brand name in large, bold letters. Underneath, the text 'MINIMUM COST' and 'MAXIMUM OUTPUT' is displayed in yellow boxes. A grid of 15 circular images shows various tooling products, each with a label: LOGIQ-4-TURN, HELI-DO, ISO-TURN, TANG-GRIP, HELI-TANG, LOGIQ-6-TURN, DO-GRIPXL, MICRO-3-FEED, HELI-DO, HELI-3-MILL, SLIM-GRIP, SUMO-CHAM, MULTI-MASTER, QUICK-D-MILL, and PENTA-CUT. At the bottom right is the ISCAR logo with the text 'Member IMC Group' and 'www.iscar.com'.

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AMADA'S PHILOSOPHY – THE VOICE OF THE CUSTOMER

By Barry Page, Sales Manager, Amada Johannesburg

Back in 1946, when a Japanese gentleman by the name of Mr. Isamu Amada had a vision of building quality and reliable machinery that would change the way people would look at and use their machinery, nobody was aware of the future technological advances his company – called “Amada” – would make.

While offering a different approach to the market than the competitors, nobody would have guessed back then that Amada would become a world leading machine manufacturer so fast.

Amada's humble beginnings started with the manufacturing of bandsaws and soon thereafter expanded into various different sheet metal machines. Marketing of these machines was done by physically taking the machine to the customer site and performing live demonstrations with potential customers, all the time, listening to the customer's needs.



Vertical Contour Bandsaw on demonstration at a customer's site.

Fast-forward 80 years to 2026 and Amada has grown into a market leading manufacturer of not only bandsaws, but shears, turret punch presses, press brakes, laser cutting machinery, laser welding equipment, robotics, automation and all associated software and tooling. Eight decades of never forgetting their roots or “DNA” and by utilizing the “Voice of the customer” philosophy, Amada has managed to become a market leader producing solutions to meet even the toughest demands in the manufacturing industry.



First horizontal bandsaw produced by Amada.

Today, the bandsaws still uphold a massive part of Amada's reputation through their reliability, quality and accuracy. This, coupled with the bandsaw blades offered, has been the basis of many users' success stories and has made others envious of Amada's reputation, thanks to their longevity and cutting accuracy.

The eight decades of Amada's ongoing growth and success can be dedicated to the important philosophy of – “The voice of the customer”! This philosophy has taken Amada into avenues that are highly specialized, requiring extensive R&D together with massive investment in both personnel and associated resources.

This is where the basis of any machine designs or improvements has begun. Through working closely with customers, Amada has not only



Amada “FORUM 246” hotel at the Amada Headquarters – Kanagawa – Japan.



Amada Global Innovation Centre – Kanagawa – Japan.

built unique relationships, but also a unique product range that not only meets but exceeds customer's expectations, while pushing the boundaries of technology.

As a publicly listed company in Japan and with over 90 subsidiaries around the world, Amada prides itself on innovation and technology through their global foot-print of professional sales and after-sales support offices. Through the “One Voice” philosophy, Amada has managed to offer global support that is efficient and professional in almost every corner of the world. The DNA has remained “Amada” which shows that there is no compromise on quality when producing machinery or backing them up. If it doesn't carry the Amada name, then it isn't an Amada.

Over the 80 years of Amada's existence, technology has changed drastically through the product range. The world's emphasis has focussed of late on the environment and how the planet can be protected from harmful machinery emissions and waste.

Earlier models of machinery relied heavily on large quantities of oils in their drive systems. These were good machines, but environmentally, they were harmful in many ways.

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Amada Fujinomiya Factory.

Today, oils are still used in some models, but in far less quantities, while AC servo drives also offer an oil free option in some machines.

The same applied to the older CO₂ lasers which were heavily gas dependant in order to run. Today, this has also changed drastically, reducing not only the carbon footprint, but the overall running cost and maintenance costs, too.

With the re-invention of the laser market when fibre technology was revealed, Amada took a leading role in ensuring a self-sufficient after-sales service by developing their own power sources, thus controlling the quality during the infancy stages. Later, once the technology had been “perfected”, Amada partnered with some of the top oscillator manufacturers to offer different options to the market, depending on customers’ requirements and needs. These systems still undergo Amada’s stringent quality checks and are adjusted or tuned according to Amada’s needs and expectations, further setting themselves apart.

Today, these different oscillator models are used on a variety of Amada laser cutting machines, namely, the ENSIS, VENTIS, REGIUS, BREVIS and the latest addition, the ORSUS. Different machine models offer different power options as well as different features, beam delivery options, automated operation options and drive systems.

Fibre laser technology quickly evolved into welding, too, which has now become quite the norm in the manufacturing industry. Here Amada has also taken a slightly different view of the market requirements and has firstly ensured that safety is the most important factor, together with quality. With fibre technology having the potential of being extremely dangerous, Amada has not compromised in any way and will only offer a solution that fully meets all safety standards not only for the operator but for anyone in the near vicinity during operation.

Amada’s fibre technology has been ground-breaking in many aspects, such as the production of highly specialized items in the transport, communications, rail, automotive, electrical, communications and medical industries, to name but a few.

The medical industry has been one of the intriguing industries, where the attention to the finest detail and quality has resulted in machines being produced to manufacture items, such as pace-makers and different prostheses, too.

The emphasis on fibre welding has been the ease of use together with the quality of the weld. These factors are the main contributors to a profitable production shop. Amada ensures both, by offering different options of either handheld systems or robotic systems.

With hand-held being the most commonly used, the Amada FLW1500MT (1,5kW) fibre welder has proven that there is no compromise to quality.



FLW Le 3kW.

Even a semi-skilled operator is able to successfully weld using this system thanks to the pre-set welding conditions for different materials.

The bigger **FLW – Le** fibre welder is a 3kW welding system mounted on a 6-axis robotic arm, designed for ease of use and the enhancement of most manufacturing environments. Again, safety is ensured through the employment of a full cabin enclosure and an off-line programming software system.

Various functions are offered, such as a slim nozzle for tight access points, a filler nozzle for filler wire when needed, beam weaving mechanism, Z axis indicator, cameras and a collimator adjustment mechanism. All of these features assist in making robotic welding simpler for the operator.

Beam Weaving System

This unique system rotates the actual laser beam using a weaving lens, rather than relying on the robot creating the rotational motion. This allows wider gaps to be cleanly welded and results in smoother, more consistent part production.

TAS (Teaching Assistant System)

In order to minimise setup requirements and increase production time, the FLW-Le is programmed offline. This eliminates the need to manually teach the robot all the welding positions and movements.

However, experience proves that there will always be a slight difference in programmed position and actual part position. This is where the TAS feature is employed. The operator can load a new program and quickly verify the weld positions via the CCD camera which is built into the welding head.

Focal Control System / Collimator Axis Adjustment

The FLW Le has a collimator axis adjustment mechanism which is able to change the beam diameter according to the welding application. A manual focal adjustment system for the focal lens is built into the welding head. This allows the operator to set the focal position before each job based on the part geometry being processed.

CCD Camera

The CCD camera, which is mounted in the welding head, is utilized to assist the operator when fine tuning the off-line generated program.

One touch – quick change welding torch system

The FLW Le is equipped, as standard, with two different nozzles – being one coaxial nozzle and one water cooled nozzle. These two different nozzles allow for a wide range of welding applications to be carried out with one machine.

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Cont. from page 6

The coaxial nozzle enables welds to be performed in very tight spaces, while the water-cooled nozzle is utilized for thicker material welding applications. The one touch – quick change welding torch system allows the nozzle to be changed in less than 1 minute without the need for any tools.

System Controller

The system controller divides and controls the laser welding robot and associated equipment. This unit enables automatic operation of the robot as programmed, as well as the manual operation of the robot from the AMNC 4ie control stand and teaching hand box. It also controls the associated equipment, such as the laser oscillator and chiller, as well as the safety enclosure for operator protection.

Z Axis Indicator

The Z axis indicator is used to save set-up time. By using this system, the operator can easily and precisely check the welding head position by means of the LED cross target, which is projected onto the part to be welded.

In staying with the idea of simple controller utilization, the numerical control of the FLW Le offers features, such as facial recognition, guidance mode, welding date library, built in bar code reader and ecology reports.

The **AMNC 4ie** control depicts the different factors of Amada's philosophy:

Intelligent – **I**nteractive – **I**ntegrated – **I**nnovative

Easy – **E**fficiency – **E**nvironmental – **E**volution



These 4ie factors play an important role throughout Amada's technology. The simplistic method of doing things on the machinery, as well as in the software make it easy for operators to produce quality parts on time.

As an additional option in production planning and monitoring, Amada now offers additional features, such as **"My V-Factory"**. This factory monitoring system allows for the continuous monitoring of the production environment from a desktop or smart device in real time.

My V-Factory displays all current machinery states, as well as running and completed programs. In addition, it also provides information about the exact running and set-up times, including precise distinction between idle – and downtimes.

My V-Factory offers practical solutions to counter bottlenecks and downtimes in advance. This is ideal for machinery with the AMNC 4ie control and the use of VPSS4ie software.

Amada's aim is to provide a total solution to your manufacturing needs. The systems offered are modular, so, as company growth allows, additions can be made to the manufacturing facility and its supporting software systems. Proto-typing can now be done virtually to reduce costs and wastage, while improving quality and speed of delivery.

With the next 80 years in sight, Amada is eager to continue leading the technological advances and producing machinery that exceeds market demands.

For more information, please contact Amada – Tel: 011 453-5459.

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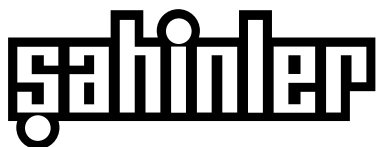
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THE LASER CUTTER TRAP – BUYING MORE WATTS CAN MAKE A SHOP SLOWER

By Helen Sun, CEO of ADH Machine Tool

Why wavelength, reflective metals, assist gas, frame rigidity, software and real cost-per-part matter more than headline power

A high-watt fibre laser slices through carbon steel in seconds, while sparks look controlled. The nest looks efficient and the sales deck shows impressive throughput. On paper, the purchase seems obvious, more watts, more speed and more capacity. Then reality enters through the material rack.



ADH Fibre Laser Cutting Machine

The same machine that looks unstoppable on steel may be the wrong tool for clear acrylic. A modest CO₂ laser nearby may cut that acrylic with a cleaner edge. Reflective brass may require slower piercing, better process monitoring and a machine designed to survive back-reflection. Thick plate may expose gas limitations before laser power becomes the bottleneck. A blunt industry opinion -maximum wattage is a procurement shortcut, not a selection method.

A CNC laser cutting machine should be selected around material behaviour, production mix and operating cost. Power matters, but only after the beam couples with the material, the frame holds accuracy, the gas system keeps up, and the operator can maintain the process.

Wavelength is the First Compatibility Test

Laser cutting begins with absorption. If the material does not absorb the laser energy efficiently, extra wattage does not automatically solve the problem.

Many fibre lasers operate near the 1.06-micron range. That wavelength is highly useful for many metals, which explains the dominance of fibre systems in sheet-metal fabrication. CO₂ lasers operate near 10.6 microns, a wavelength absorbed well by many non-metal materials such as acrylic, wood, paper, leather and some plastics. That distinction is not academic, it changes the buying decision.

A shop cutting mostly stainless steel, carbon steel, aluminium and galvanized sheet will often evaluate fibre systems first. A shop cutting acrylic displays, wood panels, packaging samples or mixed non-metal materials, may find CO₂ more suitable. Some plastics should not be laser cut in normal shop environments, because hazardous or corrosive fumes can be produced; PVC is a common caution case. Ventilation, filtration and material verification are not optional details. The practical lesson is simple, build the machine search from the material list, not from the power rating.

Reflective Metals are not just “Harder Materials”

Copper, brass, aluminium and mirror-finished metals create a different kind of risk. They do not merely require more power, they can reflect energy back toward the cutting head and, in severe cases, toward sensitive optical components.

Modern fibre systems often include protection features such as optical isolators, back-reflection monitoring, controlled piercing routines and improved process recipes. These protections make reflective-metal cutting more practical than it was in earlier generations. Still, the risk has not disappeared.

Surface finish, alloy, oxide layer, thickness, piercing strategy and beam parameters all matter. A machine that cuts mild steel beautifully may need different optics, programming, gas and operator discipline for copper or brass.

The dangerous assumption is treating every metal as a thicker or thinner version of steel. Reflective metals deserve dedicated test cuts on actual stock, not confidence borrowed from a polished demo.



Fiber vs CO₂

Thickness Ratings hide Gas and Edge-Quality Limits

Machine brochures often highlight maximum thickness. That number attracts attention, but it can be misleading without context.

Cutting through a plate is not the same as producing a saleable part. Edge squareness, dross, taper, burr, heat tint, pierce marks and heat-affected zone all affect downstream cost. A part that requires grinding, rework or rejected welding may not be cheap, even if the laser technically completed the cut. Assist gas is a major part of this equation.

Oxygen can help cut carbon steel by supporting an exothermic reaction, but it leaves an oxidized edge that may affect painting or welding preparation. Nitrogen can produce cleaner, oxide-free edges on stainless and aluminium, but high-pressure nitrogen consumption can become a serious operating cost. Compressed air can reduce gas expense in some applications, though edge quality and oxidation trade-offs need evaluation.

Thickness distribution matters more than maximum thickness. A shop cutting thin sheet all day with occasional thick plate has a different ideal machine than a shop built around heavy plate. A machine optimized for rare jobs may become inefficient for daily work. The better question

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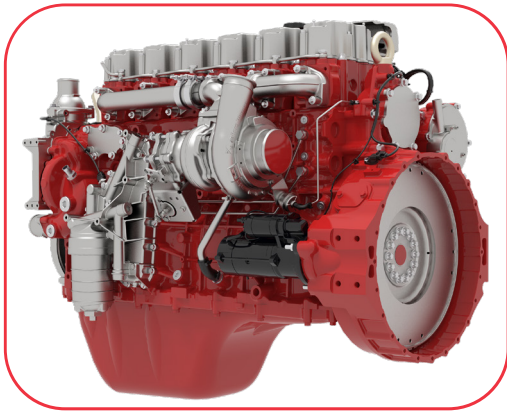
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Cont. from page 10

is not “What is the maximum thickness?” The better question is: “What thickness range represents most paid production hours?”

The Frame decides what happens after the First Perfect Part

Laser buyers often focus on the source, but the machine is more than the laser. Motion control, frame rigidity, gantry design, guideways, drives, squareness, fixturing and thermal stability determine whether accuracy survives production.

A machine can perform well during a short demonstration and still struggle during long shifts. Heat builds, slats wear, dust accumulates, nozzles collide, lenses get contaminated and chillers work harder. Small geometric errors can become scrap when nested parts require repeatability across a full sheet.

Frame rigidity is especially important when high acceleration is marketed as a productivity feature. Fast motion is useful only when the machine can maintain path accuracy, corner quality and repeatable focus height. A light structure may look attractive on price but create hidden cost through vibration, drift and maintenance sensitivity. The purchase decision should treat the frame as a production asset, not a shipping container for the laser source.

The Invisible Invoice – Software, Maintenance and Infrastructure



ADH laser controller

A laser does not arrive alone. It brings software, utilities, consumables, training and maintenance discipline. Nesting software affects material yield. CAM settings affect pierce time, lead-ins, micro-tabs, collision avoidance and cut sequencing. Integration with ERP or scheduling systems can reduce office friction, but only if postprocessors and workflows are stable. Automation can increase throughput, but it can also expose weak material handling and poor job preparation.

Infrastructure can be just as important as the machine. Electrical capacity, grounding, chiller performance, fume extraction, fire controls, compressed air quality, gas storage, nitrogen supply and operator access around the machine all affect uptime. A bargain purchase can become expensive if the building cannot support it.

Maintenance also deserves a sober view. Fibre lasers usually remove some CO₂-era alignment burdens, but they are not maintenance-free. Protective windows, nozzles, lenses, slats, filters, bellows, cooling systems, sensors and software updates still require attention. Dirty optics and poor gas quality can ruin cut consistency quickly.

Real production cost includes the parts that were not cut while the machine was waiting for a filter, a lens, a technician or a trained operator.

Sometimes the Smartest Laser Purchase is No Laser

A laser is not automatically the best cutting process. Outsourcing can be the better choice for low-volume work, unstable demand, experimental product lines or material types outside normal shop capability. The margin lost to an outside supplier may be less painful than financing an underused machine.

Plasma cutting can be effective for thick carbon steel, when tolerances and edge finish requirements are less demanding. It can offer attractive cutting economics for certain heavy-fabrication jobs, although heat input and edge quality differ from laser cutting.

Waterjet cutting can make sense for thick materials, composites, stone, glass or parts where heat-affected zones are unacceptable. It is slower in many sheet-metal scenarios, but it solves problems that lasers should not be forced to solve.

The best equipment decision is not always the most advanced machine. It is the process that matches material, tolerance, volume, labour and downstream finishing.

Before signing a purchase order, a serious CNC laser evaluation should answer seven questions:

1. **Material list:** Which metals and non-metals represent real paid work?
2. **Thickness distribution:** Which thicknesses dominate weekly production, not rare exceptions?
3. **Assist-gas cost:** What will oxygen, nitrogen, compressed air, storage and pressure delivery cost per part?
4. **Power and ventilation:** Can the facility support electrical load, cooling, fume extraction and safety requirements?
5. **Frame rigidity:** Can the machine hold accuracy during long shifts, high acceleration and full-sheet production?
6. **Operator skill:** Does the team have the training to manage focus, gas, nesting, maintenance and troubleshooting?
7. **Real cost-per-part:** After consumables, gas, labour, downtime, scrap, maintenance, financing and rework, what does each acceptable part actually cost?

The strongest buying teams do not ask for the biggest laser first. They ask for test cuts on actual material, review the full operating system around the machine and compare the laser against other processes. Maximum wattage sells machines. Material physics, process discipline and cost-per-part decide whether the machine earns money.

For further information,
please contact RETECON – Tel: (011) 976 8600.



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LASER TUBE CUTTING FOR BEGINNERS AND EXPERTS

A TRUMPF machine for getting started with laser tube processing or as an addition to existing machinery – Cost-effective even with low capacity utilization – Easy to operate thanks to numerous automated features



The TruLaser Tube 3000 fiber is suitable for companies that want to enter this technology and for companies that want to expand their manufacturing capacity.

TRUMPF recently introduced a new laser tube cutting machine, the TruLaser Tube 3000 fiber, a cost-effective choice even at low to medium capacity utilization. It is therefore equally suitable for companies that are entering this technology as it is for companies seeking to expand their production capacity. The machine enables the versatile processing of tubes and profiles and replaces conventional tube processing steps such as sawing, drilling and milling.

Starter kit to enter the world of tube processing

The TruLaser Tube 3000 fiber covers a broad range of applications including profiles, round tubes and flat steel bars. It also offers the option of L and U profiles. The two-kilowatt solid-state laser performs high-speed cutting of mild steel, stainless steel, aluminium and nonferrous metals such as copper and brass. An extensive set of cutting data is already stored on the machine. The TruLaser Tube 3000 fiber can cut tubes with diameters of up to 152 millimetres and profiles with an outer circumference of up to 170 millimetres. The self-centring clamping technology, which is designed to hold the tube in place and position it correctly during machining, adapts automatically to the tube dimensions without requiring manual setup by the operator. The TruLaser Tube 3000 fiber also configures other important settings automatically. The AdjustLine



The self-centring clamping system fixes and positions the tube, thus ensuring optimal finished part quality.

function modifies cutting parameters at the touch of a button to ensure reliable cutting of lower-quality materials. SeamLine Tube detects weld seams and markings on the inner and outer surfaces of the tubes, helping operators check that the tubes are correctly aligned in the machine and that the weld seam is in the desired position in the finished part. With its easy setup and high degree of automation, the TruLaser Tube 3000 fiber is a user-friendly machine that represents a cost-effective option for small batch sizes.

Reliable and precise parts handling

The TruLaser Tube 3000 fiber cuts tubes weighing up to 18.5 kilograms per meter with material thicknesses of up to 8 millimetres. It is available in two lengths that accommodate either 6.5 or 8 meters of material. Thanks to the optional LoadMaster Tube automated loading system, the machine is also a cost-effective choice for high-volume production runs. An integrated materials store known as the "bundle space" provides a buffer store that can hold up to 4 metric tons of raw material, or up to 5 tons with the machine version designed for an 8-meter loading length. The LoadMaster Tube system separates and measures the tubes parallel to production and transfers them to the machine. To ensure top-quality parts, step rollers support the tubes and guide them to the machining station. These rollers can be adjusted to the current tube diameter in one simple action. The machine also features guide rollers on the unloading side which provide more support to long tubes during processing. The TruLaser Tube 3000 fiber ejects finished parts onto a rack. Set to the correct ergonomic height, this allows the operator to remove them comfortably while the machine continues working. Shorter parts can be ejected straight into a box. The TruLaser Tube 3000 fiber automatically separates cutting slugs and scrap metal from the finished parts and disposes of them in containers.



Thanks to the LoadMaster Tube loading automation, the machine can profitably perform large-scale production as well.



Step rollers support and guide the tubes to the processing station. They can be manually adapted to the respective tube diameter in no time.

Key components easy to access at any time

Thanks to the design of the machine's beam guard, the operator can easily access the loading and unloading sides of the machine at any time – for example to load individual tubes into the machine to process a smaller job between bigger ones. There is no need for a complete housing. A large, laser-safe viewing window makes it easy to keep an eye on the machining process.

Ready for the smart factory

Users can make changes to the machine's production schedule or keep an eye on the machine using an app, making it even easier for the operator to keep track of the entire machining process in the TruLaser Tube 3000 fiber. A secure, OPC UA-based data interface is included to connect the machine to an ERP or MES system or to a cloud application, for example. TRUMPF machine apps provide information on program runtimes and machine capacity utilization.

For further information, please contact Retecon – Tel: (011) 976 8600.



Our 1000 Series - flexible production. Cheaper than you think!

Cost-effective laser cutting and bending for flexible production

The TRUMPF 1000 Series combines efficiency and flexibility and supports your production so that it remains stable even with fluctuating workloads. With the TruLaser Series 1000 Lean Edition and the TruBend Series 1000, you get machines that are geared to your actual production requirements. Without unnecessary capacities, without complexity, but designed for daily use in production. Simple operation, stable processes and consistent results make the machines a reliable solution for efficient production from day one.

What counts is the cost per part

The purchase price is often the deciding factor when buying a machine. However, another question is crucial for the profitability of your production: What does a good part cost - over the years? Machines that appear cheaper often cause higher running costs: Due to more rejects, lower availability, complex operation or lack of service. The 1000 Series from TRUMPF is designed to reduce precisely these factors. High component quality, stable processes and low operator dependency ensure that your costs per part are permanently reduced - and the investment is amortized faster than the purchase price alone would suggest.

The TruBend Series 1000 and the TruLaser Series 1000 fiber

Two machines, one claim: Economical production without compromising quality and safety. The 1000 Series is deliberately reduced, clearly structured and designed for long-term cost-effectiveness.

Total costs at a glance

The purchase price is only part of the investment. When material cost efficiency, operating costs, productivity, availability and service are taken into account, TRUMPF machines show their strength in terms of overall costs - especially when compared to seemingly cheaper alternatives.

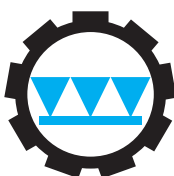


The TruBend Series 1000



TruLaser Series 1000 fiber

Sole agents for TRUMPF in South Africa for over 44 years.



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HIGHLY EFFICIENT LASER CUTTING WITH THE BYCUT STAR

Impressive high cutting speed, intelligent cutting process and a new design – this is how the new ByCut Star presents itself. With 30 kilowatts and an optimized cutting process, it now cuts steel, aluminium, stainless steel, brass and copper precisely and reliably for even more quality.

Higher cutting quality and productivity is provided thanks to more laser power and smart features. Bystronic has advanced into a new dimension of fiber laser cutting, the ByCut Star with impressive 30kW of laser power. The high-end fiber laser stands for high-precision Bystronic technology, a stable cutting process up to the highest laser powers and for a wide range of applications.

However, sheet metal workers not only need a lot of laser power, but also intelligence, reliability and sustainability; this combination makes the laser cutting process really satisfying and successful.

Thus, at Bystronic, customer success is built on a concept of three pillars, namely Power, Intelligence and Cutting Process Improvement, including MixGas technology.

Smart features, such as the "Intelligent Cutting Process (ICP)", the "Nozzle Control Tool (NCT) with KerfScan" or the "Parameter Wizard" optimize the entire cutting process, while ensuring that it stays on track. Users enjoy optimum capacity utilization and remarkable production uptime.

30 kilowatt of laser power

The technological leap from the previously available 3- to 20-kilowatt levels to the new 30-kilowatt level is considerable and opens new possibilities for Bystronic customers to optimize production and thus remain at the forefront of the ever more fiercely contested competition.

Cutting speeds on the ByCut Star increase twice as fast compared to 15kW and MixGas with sheet thicknesses between 6mm and 15mm, and more than twice as fast with thicknesses starting at 20mm. Piercing times are shorter for sheet thicknesses of 15mm and above. Sheet metal processors thus benefit from higher productivity at low unit costs, because with 30kW, the new ByCut Star cuts steel, aluminium and stainless steel precisely and reliably. The 30kW laser power enables maximum flexibility for large series and spontaneous customer orders. Whether aluminium or steel, the powerful Bystronic cutting head impresses with maximum precision in thin and thick sheets. In addition, with the "Advanced Applications" option, high laser power (starting from 15kW) now also enables expanded applications in steel and aluminium of up to 50mm. The new power level is exclusively available on the ByCut Star 4020.

Smart features make the difference

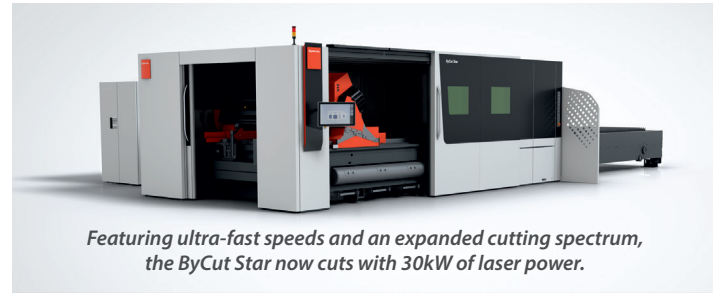
NCT & KerfScan is a smart feature package for oxygen cutting which increases process reliability, even in low-manned operations. This feature offers process monitoring, problem solving and continuation of the cutting process in a fully automatic way.



The "Advanced Applications" option enables expanded applications in steel and aluminium of up to 50mm (15 kW laser power and above).

The "Parameter Wizard" ensures that the correct quality of the cut parts is always selected within minutes. This feature determines the perfect parameters with N₂ and MixGas for steel from 4 to 15mm in thickness.

Intelligent Cutting Process



Featuring ultra-fast speeds and an expanded cutting spectrum, the ByCut Star now cuts with 30kW of laser power.

ICP is a new feature, where a coaxial camera is filming through the nozzle and looking directly into the cutting process. This feature currently offers the following functionalities:

- Cut Quality Detection – The system automatically detects cut interruptions during the cutting process and re-cuts the area where it occurred.
- Cut Quality Protection – AI-controlled cutting process maintains reliable quality throughout low manned production.
- Nozzle Loss Detection – Down time and material waste caused by nozzle loss are significantly reduced.

While Bystronic customers benefit from outstanding cutting results with clever features, the new powerful Bystronic flagship is also controlled from a 21.5-inch touchscreen. Handling is as simple as operating a smartphone.

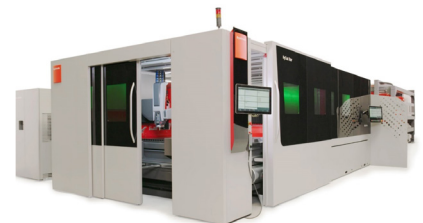
The new ByCut Star's modern, sharp contours provide a striking appearance and match the performance of the machine.

Significantly increased user-friendliness and outstanding flexibility are major advantages provided by the new ByCut Star. Thus, there is front and/or side access as well as several windows with a view directly to the cutting process. In general, the new design offers better accessibility to the interior, and the machine is easier to place on the store floor thanks to more flexible layout.

Fiber laser cutting with mixed gas ensures better cutting quality and higher productivity

In laser cutting, cutting gas (especially N₂ and MixGas) is used to keep both the laser and the sheet free of impurities and remove molten material. Nitrogen is used for so-called fusion cutting and oxygen for flame cutting. Gas mixing combines the benefits of O₂ and N₂ and thus is an alternative to pure nitrogen or oxygen cutting. Cutting with MixGas (a specific blend of Nitrogen/Oxygen) ensures perfect quality on steel at increased cutting speed. This helps even an inadequate steel to achieve a good result after the cutting process.

For in-house gas production with a N₂ generator, Bystronic has a solution ready that is attractive from a cost perspective and environmentally friendly. The advantages are obvious: There is no need for transports by trucks when gas is delivered. One produces only as much nitrogen as is needed, and all the previous additional costs are eliminated – from filling the cylinders to replacing them. The sheet metal processor works completely autonomously and – independent from any gas supplier – is doing something for the environment in the process.



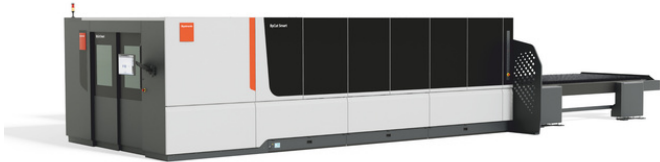
Additional accessibility with the all new, sharp designed ByCut Star thanks to several gates.

*For more information, please see
www.bystronic.co.za or contact Cutronic on 010 410 0200.*

CUTRONIC

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Effortless Metal Plate Processing



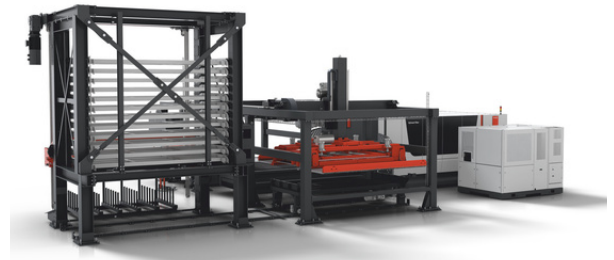
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MESTAB – THE ALTERNATIVE TO TENSIONS, MAKING STRESS RELIEF EASY

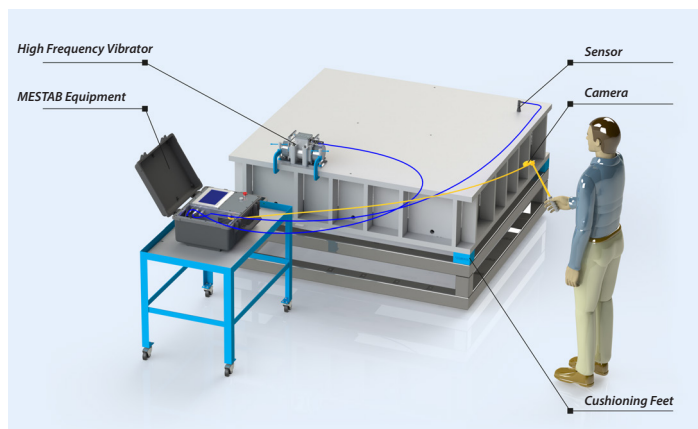
The MESTAB equipment from GOTAP in Spain represents the result of years of development work, trials and tests in the company's own production of hydroforming presses. What was born as an internal treatment to guarantee the stabilization of residual stresses in frames, has advanced to become a cutting-edge technological solution.

Discovered in the 1940s, accidentally by the American Society of Naval Engineers in the USA, vibration stress relief has come a long way to become the standard of large aeronautical and industrial companies MESTAB, the intelligent alternative in tension stabilization.



Integrated and portable system

Just two cases, you can use it in field services, in remote locations and in extreme industrial environments. The robustness of the equipment stems from GOTAP's own experience in the boilermaking sector.



The compact weight of both units allows for easy transport, even in-flight check-in for agile and unlimited handling and use.

Report as a guarantee of the process

The MESTAB system generates a comparative report of the stress state before and after treatment. The inclusion of a photograph of the actual part allows for easy identification and future traceability.

This way, you can guarantee the effectiveness of the process for your customers, avoiding production downtime, due to external suppliers.

For more information, contact Duncan MacDonald – Tel: 011 865 4090.

LASER MARKING MACHINE – LASERMARK

The laser marker MCFA – 30, available from Duncan Macdonald takes full advantage of the power of the fibre laser to achieve great improvements in both, processing time and quality.

Go Tapping S.L. has developed and manufactured the MCFA – 30 based on unique oscillation methods. While the Lasermark is designed, featuring innovative technologies, other benefits include long life, ease of use and cost effectiveness.



Laser Marking Machine – Lasermark MCFA-30

SPECIFICATIONS:

- Scanner Area (Standard): 110*110 mm
- Control system: Raycus and MAX
- Scanning head: Sino-Galvo SGRC1001/scanler
- Laser source power: 30W
- Machine power: 200W
- Vertical displacement: 175 mm
- Table adjustment range: 0-500mm
- Operating system: Windows XP/Windows Vista/Windows 7/W10
- Graphic format support: Support – AI, PLT, DXF, BMP, JPJ file, etc.
- Optical wavelength: 1064nm
- Marking speed: $\leq 10,000$ mm/s
- Marking depth: 0,015 – 0,3 mm
- Minimum line width: 0.001-0.05 mm
- Minimum character width: 0.01mm/AC220V 10%/50Hz-60Hz, AC110V (optional)
- Software: RodinCAD 16 multilingual

For more information, contact
Duncan MacDonald – Tel: 011 865 4090.



Duncan Macdonald & Co.

Tel: (011) 444-4345 / 6 / 7 / 8 / 9

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CNC MACHINES

SHOPSABRE CNC ROUTER WITH TOOL CHANGER, 3500MM X 2300MM WORKING AREA	P.O.A.
CNC PLASMA BED MACHINE, 3000MM X 1500MM	P.O.A.
EFAMATIC CNC CUT OFF & ROLL CLOSE MACHINE, MODEL: C+RM25	P.O.A.
COLCHESTER CNC LATHE, MODEL: TORNADO 300, CONTROL:	
GE FANUC SERIES O-T, Z-AXIS: 500MM	P.O.A.
AMADA PLATE CO2 LASER CUTTER 4 KW, MODEL: FO 3015NT, DUST FILTER UNIT,	
COMPACT COOL CHILLING UNIT	P.O.A.
MAZAK CNC LATHE, MODEL: INTERRX200SY, YEAR: 2001 OPEN TO OFFER, AS IS	P.O.A.

COMPRESSORS

INDUSTRIAL PISTON TYPE COMPRESSOR, 3 HEAD, 22KW	P.O.A.
TEVA COOLING TOWER, MODEL: RMA-130 D ABC	P.O.A.
SULZER COOLING TOWER, TYPE: EWK144/09/30/6	P.O.A.

DRILLING MACHINES

MEDDINGS BENCH DRILL, 13MM	R2 500.00
MITCO HEAVY DUTY BELT DRIVEN DRILLS, 16MM	P.O.A.

GENERATORS

DEUTZ DIESEL GENERATOR, KW: 56	P.O.A.
PERKING DIESEL GENERATOR, 110KV, OPEN FRAME WITH SWITCHOVER	P.O.A.

GRINDING MACHINES

BRIERLEY DRILL SHARPENER, CAPACITY IUP TO 25MM	P.O.A.
USED OKUMA CYLINDRICAL GRINDER, MODEL: GU 33 900	P.O.A.
MICROSTATIC RATATING GRINDER, TABLE SIZE: 800MM	P.O.A.
SPRINGFIELD VERTICAL INTERNAL GRINDER, TABLE SIZE: 630MM	P.O.A.
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MJH HYDRAULIC SURFACE GRINDER, MODEL: 3060AD, MAGNET SIZE: 300MM X 600MM	P.O.A.
GARBOLI ABRASIVE BELT GRINDING MACHINES WITH ORBITAL POLISHING SYSTEM	
FOR TUBING, MODEL LPC-300 WET	P.O.A.
PUNCH AND TOOL GRINDER, CHUCK SIZE: 250MM	P.O.A.

GUILLOTINES

HYDRAULIC GUILLOTINE, 4MM X 2500MM	P.O.A.
EDWARDS HYDRAULIC GUILLOTINE, 4MM X 2500MM	P.O.A.
ELGA HYDRAULIC GUILLOTINE, 4MM X 2500MM	P.O.A.

LATHES

COLCHESTER CENTRE LATHE MODEL: TRIUMPH 2000, B/C: 1250MM X Ø390MM,	
SPINDLE BORE: Ø54MM COMPLETE WITH 3 & 4 JAW CHUCKS AND BOTH STEADIES	P.O.A.
YUNNAN CENTRE MODEL: CY-1660G CENTRE DISTANCE: 1500 MM COMPLETE WITH	
3 & 4 JAW CHUCKS AND BOTH STEADIES	P.O.A.
TURNMASTER CENTRE LATHE WITH CABINET MODEL: GHK-1660 BETWEEN CENTRES: 1500MM	
COMPLETE WITH 3 & 4 JAW CHUCKS AND BOTH STEADIES	P.O.A.
TOS SN40 LATHE, 1000MM X 400MM SWING	P.O.A.

MILLING MACHINES

ZALGIRIS UNIVERSAL MILLING MACHINE, 260MM X 1280MM HORIZONTAL SPINDLE: ISO40	P.O.A.
ARBOGA MINI DRILL/MILL	P.O.A.
WARCO DRILLING/MILLING MACHINE, R8 SPINDLE, 220V	P.O.A.
FEXAC UNIVERSAL MILLING MACHINE BED SIZE: 1300MM X 300MM SPINDLE: ISO40	P.O.A.
KONDIA TURRET MILLING MACHINE TYPE: FV-1 BED SIZE: 1070MM X 270MM SPINDLE SIZE: R8	P.O.A.
MRF UNIVERSAL MILLING MACHINE, SPINDLE: ISO40, BED SIZE: 320MM X 1600MM	P.O.A.

PRESSES – MECHANICAL / HYDRAULIC

MULLER ECCENTRIC PRESS, 60 TON, BED SIZE: 750MM X 520MM	P.O.A.
EBS ECCENTRIC PRESS, 60 TON	P.O.A.
WMW ERFURTH H-FRAME MECHANICAL PRESS, 500-TON, 2800MM X 1500MM, CUSHION: YES	P.O.A.
CHIN FONG C-FRAME MECHANICAL PRESS, MODEL: OCP-160, 160-TON, 1250MM X 800MM	P.O.A.
MULLER H-FRAME HYDRAULIC PRESS, 150-TON, 1600MM X 1000MM, CUSHION: YES	P.O.A.
SMG H-FRAME HYDRAULIC PRESS, 250-TON, 1700MM X 1000MM, CUSHION: NO	P.O.A.
MULLER H-FRAME HYDRAULIC PRESS, 300-TON, 1600MM X 1000MM, CUSHION: YES	P.O.A.
LVD C-FRAME MECHANICAL PRESS, 160-TON, 4000MM X 900MM, CUSHION: NO	P.O.A.

SAW MACHINES

BANDSAW BLADE SHARPENER, AS NEW	P.O.A.
KNUTH HORIZONTAL MITRE CUTTING BANDSAWS, CAPACITY: 280MM	P.O.A.
CRAFT SEMI-AUTOMATIC HORIZONTAL BANDSAW, CAPACITY: 250MM	P.O.A.

SHEET METAL MACHINES

AMADA CORNER SHEAR, MODEL: CSB220	P.O.A.
EDWARDS MECHANICAL GUILLOTINE, 6MM X 2500MM	P.O.A.
FORREST ENGINEERING MOTORIZED STRAIGHT FOLDER, 2.5MM X 2500MM	P.O.A.

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MILLER CO2 WELDER, VARIOUS SIZES AS NEW	P.O.A.
SEAM WELDERS, 350 KVA	P.O.A.
PROJECTION WELDERS, 25 KVA TO 250 KVA	P.O.A.
WESTKEN BUTT WELDER, 100KVA, FULLY REFURBISHED, AS NEW	P.O.A.
WESTKEN SPOT WELDER, 220V, 20KVA	P.O.A.

WOOD WORKING MACHINES

BIESSE SINGLE SIDE EDGE BANDER, MODEL: AKRON 1110J	P.O.A.
USED AUSTRALIAN HORIZONTAL MACHINE	P.O.A.
PANEL SAW, SLIDING TABLE WITH SCROLL BLADE	P.O.A.
INDUSTRIAL SPINDLE WITH MOTORISED FEEDER	P.O.A.

MISCELLANEOUS

BALTEC RADIAL SPIN RIVETERS, MODEL: RNE281, UP TO 12MM	P.O.A.
DIGITAL HEIGHT GAUGES, VARIOUS SIZES	P.O.A.
VERNIERS, VARIOUS SIZES	P.O.A.
MICROMETERS	P.O.A.
VERTICAL SLOTTING MACHINE, STROKE 200MM, EXCELLENT CONDITION	P.O.A.

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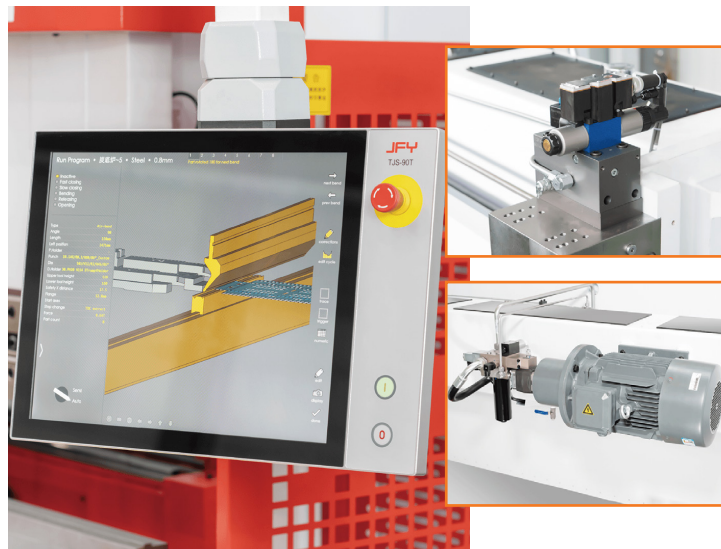
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TPR8 CNC PRESS BRAKE

Cost-effective bending machine from JFY sold to more than 5.000 customers – Proven technology with high stability and reliability.

The machine body is optimized by finite element design to ensure high strength and high rigidity during operation. Compared with traditional CNC bending machines, the frequency of the Y-axis movement is 25% higher.



A broad range of options and bending tools allow the processing of large and complex workpieces, while the high-performance CNC control TJS-90 as standard configuration ensures maximum workflow efficiency and operating convenience.

The automatic mechanical crowning compensation system as standard configuration solves the influence of ram deformation on the workpiece during bending and Push-Pull Quick clamping as a standard configuration avoids part interference when bending at a small angle.

*For further information, please contact
Puma Machine Tools – Tel: (011) 976 8600.*

EFC II LASER CUTTING MACHINE

*A high-performance mid-price laser machine equipped with TruFiber Cut Laser up to 6 kW.
Smart design and material flow ensure maximum productivity at minimal investment costs.*

The EFC II laser cutting machine from leading Chinese manufacturer JFY, a member of the Trumpf Group, is locally available from Puma Machine Tools.

Furthermore, the technology requires a minimum of maintenance.

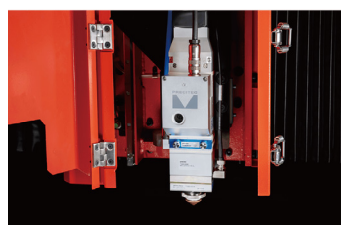
Using offline programming software can improve material utilization and process efficiency. On the one hand, programming software can optimize the nesting process to reduce material waste, and on the other hand, it can simplify the programming process by converting simple and complex part drawings into processing programs, which results in faster production times. The Lantek programming software is a proven solution based on latest technology.



The machine's CNC control system is based on the Windows platform and has been proven to be extremely reliable and high-performing.

The cutting head is designed with built-in protective glasses, ensuring reliable and optimized cutting quality. These protective glasses safeguard the optics from potential debris or damage that may come from the process zone. Overall, this results in a significantly higher durability of the cutting head, as well as higher cutting precision.

TruFiber is the ultimate fiber laser solution for all cutting needs. In fact, TruFiber delivers excellent process stability and consistent process results.



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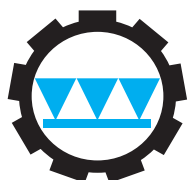
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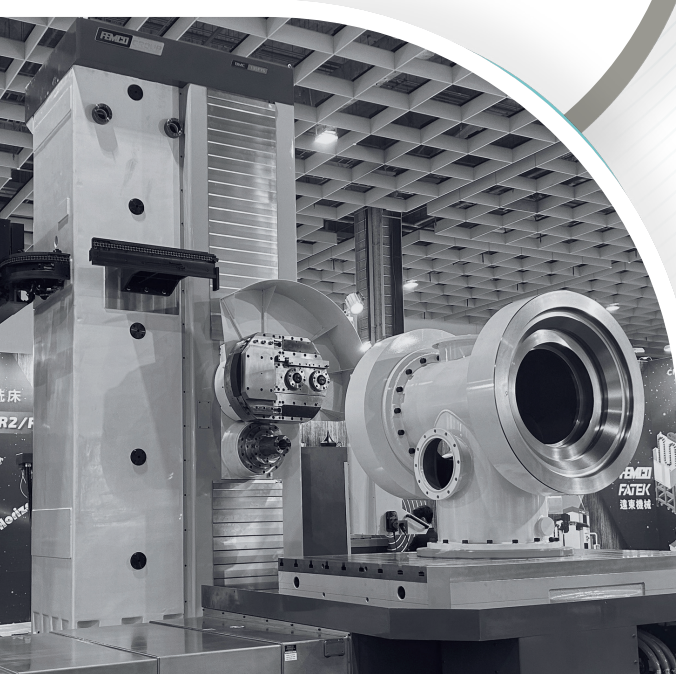
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Specification	BL-V11
Worktable size	1 200mm x 600mm
X/Y/Z axes travel	1 100mm/600mm/600mm
Spindle motor	15kW
Tool magazine type	24T Arm type

Standard configuration:

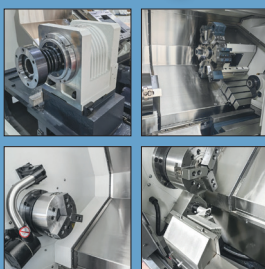
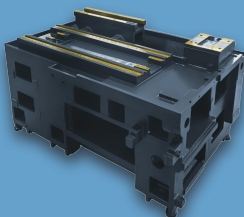
- FANUC 0i MF CNC Controller
- 24T Arm type tool magazine

Optional configuration:

- Tool setting probe
- 4th axes
- 5th axes



Slant Bed CNC Turning Center



Item	Specification	BL-S200L
Capacity	Chuck size	8"
	Maximum swing diameter over bed	Φ510mm
	Maximum swing diameter over slide	Φ260mm
	Maximum turning length	500mm
	Maximum turning diameter	Φ380mm (8 tool turret)
		Φ350mm (12 tool turret)
	Spindle bore	Φ66mm
	Spindle end type	A2-6
	Spindle speed	4 000rpm
	Maximum bar through diameter	51mm
	Spindle motor power	11/15kW (FANUC)
		180 + 20mm (8 tool turret)
	X axes travel	175 + 35mm (12 tool turret)
		540mm (8 tool turret)
Tool turret	Z axes travel	550mm (12 tool turret)
	Tool turret type	Hydraulic-servo
	Tool quantity	8 or 12 as option
	Toolshank size	25mm x 25mm, Φ40mm

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MAXOUT

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MAKE BETTER USE OF CARBIDE BY LEVERAGING YOUR CAM STRATEGY WITH ISCAR

In today's competitive manufacturing environment, every second of machining time matters. Machine shops are under constant pressure to increase throughput, improve part quality, reduce tooling costs and lower overall cost per component. While advances in machine tools, workholding and cutting tool materials have helped manufacturers become more productive, one of the most effective opportunities for improvement is often found in the connection between carbide tooling and CAM strategy.

Carbide cutting tools are capable of exceptional performance, but they must be applied correctly. Selecting the right carbide endmill, drill, insert or indexable cutter is only part of the equation. To get the best results, shops must also program the tool in a way that supports its geometry, grade, coating, chip formation and intended cutting conditions. This is where ISCAR tooling, modern CAM techniques and digital resources, such as NEOITA and online tool assemblies can help manufacturers unlock more value from every cutting edge.

Carbide Performance Depends on More than the Tool

Carbide is widely used throughout metalworking because of its hardness, heat resistance, wear resistance and ability to maintain cutting edge integrity under demanding conditions. From milling and drilling to turning, grooving, threading and high-speed machining, carbide tools are essential to productive manufacturing.

However, carbide is not immune to poor application. Even the best cutting tool can underperform if it is used with the wrong feeds and speeds, excessive radial engagement, unstable work holding, poor chip evacuation or an inefficient toolpath. The result may be premature wear, chipping, vibration, poor surface finish, dimensional inconsistency or catastrophic tool failure. In many cases, the issue is not the tool itself, the issue is the way the tool is being used.

A carbide cutter designed for high-efficiency milling, for example, may not perform well, if programmed with traditional heavy radial stepovers that overload the cutting edge. A drill with advanced coolant-through capability may still fail if the cycle allows chips to pack in the hole. A turning insert with the correct grade may not deliver expected tool life if chip control and toolpath sequencing are not considered.

To make better use of carbide, shops must think beyond tool selection and view the entire process as a system.

CAM as a Process-Control Tool

CAM software is often thought of as a toolpath creation platform, but its role is much broader. Modern CAM systems allow programmers to control how the cutting edge engages the workpiece. This includes radial and axial depth of cut, lead-in and lead-out motion, ramping strategy, step-over, feed rate, chip thinning compensation, corner smoothing and tool engagement angle. A well-planned CAM strategy helps maintain consistent cutting forces, reduce heat buildup, control chip thickness and prevent sudden load spikes. This allows carbide tools to operate more efficiently and predictably.

For example, sharp internal corners in a pocket can create sudden engagement changes. If not managed properly, the cutter may experience a spike in cutting force that leads to chatter, edge chipping or tool breakage. CAM strategies that use smooth arcs, corner rounding, adaptive clearing or constant-engagement paths can reduce this stress and improve tool life.

The objective is not simply to run faster, the objective is to machine more consistently and remove material more efficiently while protecting the cutting edge.

Matching ISCAR Tooling to the Strategy

ISCAR offers a broad range of carbide tooling solutions engineered for different materials, applications and machining conditions. These include solid carbide endmills, indexable milling cutters, drills, reamers, turning tools, grooving – and parting tools, threading tools and toolholding systems. Each tool family is designed with specific geometries, carbide grades, coatings, flute designs, chipbreakers and coolant features. The key is matching the tool to the CAM strategy.

High-efficiency milling strategies, for example, often use a light radial width of cut combined with a deeper axial depth of cut. This method spreads wear along more of the cutting edge, while maintaining a more consistent chip load. When paired with the correct ISCAR solid carbide end mill or indexable milling cutter, this approach can improve metal removal rates and extend tool life.

In drilling, the CAM cycle must support the tool's design. Coolant delivery, feed control, pecking strategy and hole depth all influence performance. For turning and grooving, the right insert geometry and chipbreaker must be supported by appropriate toolpath sequencing, feed direction and cutting data.

When tooling and programming are planned together, manufacturers can reduce trial and error and create more reliable processes.



Using NEOITA for Smarter Tool Selection

Digital tooling resources are becoming increasingly important in process planning. One of the most useful tools available from ISCAR is NEOITA, ISCAR's online tooling advisor.

NEOITA helps users identify suitable tooling options based on application details, such as machining operation, workpiece material, machining conditions and production requirements. Rather than relying only on manual catalogue searches or previous experience, programmers and process engineers can use NEOITA to narrow down appropriate tools and access recommended cutting data.

This can be especially valuable when machining new materials, quoting unfamiliar jobs or developing a process for a difficult component. By

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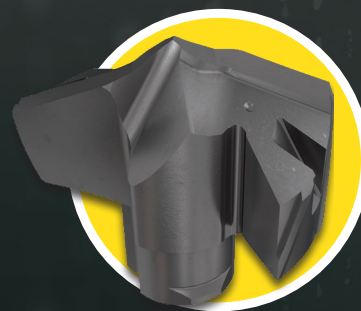
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☞ *Cont. from page 24*

entering key information, users can receive guidance on tool families, carbide grades, insert geometries, cutter bodies, speeds, feeds and depths of cut.

For CAM programmers, this information provides a stronger starting point. Recommended cutting data from NEOITA can be used to build the initial CAM strategy, then adjusted based on the machine, setup, part-geometry and desired productivity. Instead of guessing at parameters, shops can begin with application-specific recommendations that align with ISCAR tooling capabilities.

Online Tool Assemblies Improve CAM Accuracy

A cutting tool is not just a carbide insert or solid endmill, it is a complete assembly that may include the cutter body, insert, toolholder, adapter, extension, reducer, collet chuck, arbor, screw, coolant component and machine interface. Every part of that assembly affects performance. ISCAR's online tool assembly resources allow users to digitally configure and review complete tooling assemblies before they reach the machine. This helps ensure that the tool selected for the operation is compatible with the holder, provides the required reach, maintains adequate rigidity and can be accurately represented in the CAM system.

This is important because inaccurate tool data can create problems in both programming and production. If the tool assembly length is wrong, simulation may not detect a clearance issue. If the holder is not modelled properly, collision checking may be unreliable. If the assembly is too long for the operation, the tool may chatter, even if the cutting data is correct.

By using online tool assemblies, shops can improve CAM simulation accuracy, support better tool management, reduce setup mistakes and build more confidence before machining begins.

High-Efficiency Milling and Dynamic Toolpaths

One of the best examples of carbide optimization through CAM is high-efficiency milling, also called dynamic milling, adaptive clearing or constant-engagement machining.

Traditional roughing often uses heavy radial cuts that create high cutting forces and heat concentration. High-efficiency toolpaths use lighter radial engagement with deeper axial cuts. This allows more of the cutting edge to be used, while reducing sudden load changes.

The benefits can include higher metal removal rates, longer tool life, improved chip evacuation, better machine stability, and reduced risk of tool breakage. When paired with the correct ISCAR carbide tooling, this strategy can help shops machine faster while maintaining process security.

NEOITA can help identify tools suited for these operations, while online tool assemblies help ensure the complete toolholder and cutter combination is properly represented in CAM.

Controlling Chip Thickness

Chip thickness is another critical factor in carbide performance. If the chip is too thin, the tool may rub rather than cut. This generates heat, accelerates wear and can contribute to work hardening in materials, such as stainless steel. If the chip is too thick, the edge may overload and fail.

CAM software allows programmers to manage chip thinning, especially when using small radial stepovers or high-feed strategies. By adjusting feed rates based on engagement, programmers can help keep carbide tools operating in their ideal cutting range.

ISCAR cutting recommendations and NEOITA data can provide starting values, while CAM applies those values to the actual part geometry and toolpath.

Setup Still Matters

Even the best carbide tool and CAM strategy cannot overcome a poor setup. Toolholding, runout, machine rigidity, coolant delivery and work holding all influence performance. Excessive runout causes uneven edge wear, and poor work holding leads to vibration. Inadequate coolant or air blast can cause chip recutting and heat build-up.

This is why online tool assemblies are so valuable. They encourage shops to consider the complete tooling system before machining begins, including gauge length, reach, rigidity, holder compatibility and coolant capability.

Reducing Cost Per Part

The goal is not simply to increase speed, ISCAR's MAXOUT goal is to reduce cost per part. A properly optimized CAM strategy can reduce cycle time, extend tool life, minimize downtime, improve part consistency and reduce scrap.

By combining ISCAR carbide tooling, NEOITA tool selection, online tool assemblies and modern CAM strategies, manufacturers can create a more connected and reliable machining process. Tool selection, cutting data, assembly configuration and toolpath programming can all be aligned before the first chip is cut.

Better carbide performance comes from better planning. With the right tool, the right assembly and the right CAM strategy, shops can make better use of every cutting edge and achieve better machining results with ISCAR's MAXOUT strategy.

*For more information, please contact
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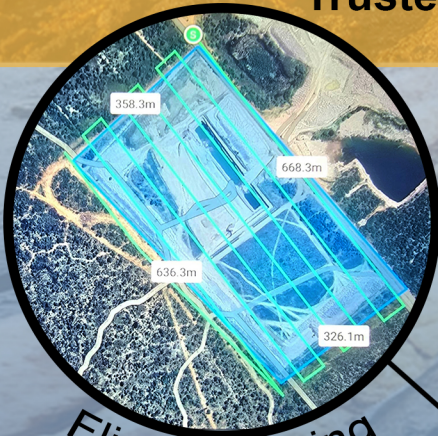
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TaeguTec — NEXT-LEVEL HIGH FEED MILLING SOLUTION, THE SRMT INSERT

TaeguTec has launched a new four-corner, single-sided high feed milling solution, the SRMT insert line. This high-performance insert addresses the limitations of conventional designs by delivering a premium-level solution for high feed milling applications.

Conventional four-corner, single-sided inserts often fail to utilize all cutting edges effectively.



In contrast, the new SRMT insert line features an optimized cutting-edge design that enables

full use of all four corners. The new line's excellent chip evacuation significantly reduces the likelihood of chip-induced issues such as jamming, insert breakage, and surface scratches during high-performance machining operations. Moreover, despite being a high-feed milling insert, the SRMT line achieves superior surface roughness, making it ideal for high-efficiency finishing operations.

The new SRMT inserts are available in I.C. 07, 10, 14 size and come in M, MM, ML and MR chip formers across a variety of grades. The line is offered as standard in Ø16–42 mm end mills and Ø40–200 mm face mills.

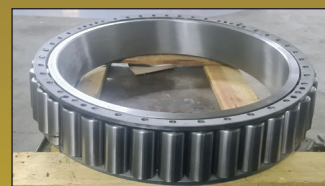


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LOCAL MANUFACTURING SHOWCASED AT ELECTRA MINING AFRICA

The South African manufacturing sector currently produces below installed capacity levels, resulting in manufacturing firms not benefiting from economies of scale and competitive advantages that they would enjoy if they were operating at manufacturing capacity. Low demand, stagnant domestic growth, competition from imports and high input costs are all contributing to the strain on the manufacturing sectors growth prospects.

Despite these challenges, local manufacturers possess world-class technical and problem-solving capabilities. The extensive and well-developed human resources and know-how within the industry make it an invaluable key economic enabler of growth and job creation in the country as it supports broad employment and skills development goals. Also, local manufacturing can ramp up capacity whenever strategic opportunities arise, leading to fast turnaround times and market flexibility.

Local manufacturers will be on the look-out for new business opportunities and strategic industry partnerships at this year's Electra Mining Africa and co-located Local Southern African Manufacturing Expo taking place later this year. The exhibition provides an ideal opportunity for local manufacturing companies to build relationships and source new clients as they look for ways to ramp up manufacturing capacity and increase competitiveness. "Local manufacturing firms will take advantage of the marketing opportunity to generate business leads and develop industry partnerships, which have been shown to boost sales for the 12-18 months following the event," says Charlene Hefer, Portfolio Director at Montgomery Group Africa, organisers of the show.

Local manufacturers represented at the show include suppliers from across the mining, industrial, electrical, power, automation and transportation sectors, including the latest in mine ventilation monitoring solutions and noise reduction technology suppliers. Locally produced consumables and critical spares suppliers showing how local manufacturers can partner with local companies to solve problems and keep production plants running smoothly and efficiently. Local manufacturers delivering practical, performance-driven engineering for metallurgical applications, including slurry control dart valves, high-pressure enclosed pinch valves, dosing systems, distribution boxes and process samplers tailored to metallurgical applications.

Exhibitors will be showcasing all the latest innovations, advances in technology and breakthrough solutions, including the latest local solutions for retrofitting Tier 2 and 3 engines with Diesel Particulate Filter systems

which can enable mines to comply with new mine health and safety regulations relating to diesel particulate matter. The locally developed solution helps to improve air quality in worker health, without requiring mines to replace their entire fleet of old engines.

Many South African manufacturers have been able to overcome growth constraints by growing their businesses beyond the country's borders. While the local demand for manufactured goods has been stunted, demand in the rest of Africa for locally manufactured goods has been growing, which is one way that local manufacturers are able to grow their operations. Visitors to Electra Mining Africa 2026 will be able to see many of these locally produced components that are exported all over Africa and the world, including industrial agitator sand gearboxes built for the harsh operating conditions of the local mining industry which are now exported to the UK, Malaysia, Australia, New Zealand, the US and Chile.

Visitors will also be able to see innovative pumps specifically designed for the agricultural and construction sectors to provide solutions that don't rely on electricity, while reducing cost of ownership to the client.

The exhibition is an opportunity to showcase the excellence and innovation of locally designed and manufactured parts and components for the local and international market. Locally designed and manufactured Neutral Earthing Compensator Resister Transformers (NECRTs) that provide reliable earthfault management for transformers will be on show. These and other locally made components strengthen South African manufacturing capability and ensure critical protection equipment is produced, supported and maintained locally. Also on show will be locally assembled new industrial gear units designed to improve availability, reduce lead times and support high-torque applications in Africa. The new design will improve serviceability and reduce downtime, expanding the options available to engineers and plant operators seeking robust solutions for conveyors, crushers, mixers and other heavy-duty systems.

"Beyond the exhibition floor, as part of its commitment to delivering high-value, free-to-attend content, the Southern African Institute of Mining and Metallurgy (SAIMM) will host the Seminar Theatre at Electra Mining Africa," says Hefer. "In addition, the Society for Automation Instrumentation Mechatronics and Computer Engineering (SAIMC) will present valuable industry workshops on the second day of the show."

Electra Mining Africa will take place at Nasrec, Johannesburg between 7-11 September 2026. Visitors can register at www.electramining.co.za



7 – 11 September

Expo Centre, Nasrec, Johannesburg
9am – 5pm daily

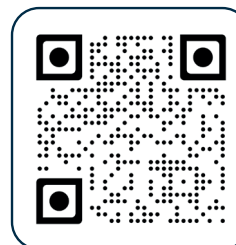
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AUTOMECHANIKA FRANKFURT WITH MORE EXHIBITORS, FUTURE TRENDS AND NEW FORMATS

From 8 to 12 September 2026, Automechanika Frankfurt will once again be the international meeting place for the global automotive industry. More than 4,400 exhibitors from over 80 countries will be presenting innovations for the entire automotive aftermarket and showing how AI, electromobility, digitalisation and autonomous driving are changing the industry. The event offers new formats and opportunities that will spur global networking even after the trade fair – connections that are more important than ever with the ongoing transformation.



Detlef Braun, Member of the Executive Board of Messe Frankfurt, put it this way: "The Automechanika Frankfurt success story is continuing: despite difficult economic conditions we have registered a five percent increase in the number of exhibitors. We are expecting anywhere from 4,400 to 4,500 exhibitors from over 80 countries at the fair this September, and the exhibition grounds are sold out with some 300,000 square metres of exhibition space booked. In a time of ongoing geopolitical crises, we have succeeded in strengthening resilience and market presence with the Automechanika brand."

Despite the challenging economic environment, the global automotive aftermarket continues to grow. According to the latest forecast from Frost & Sullivan, the industry is set to grow by 5.8 percent worldwide in 2026. This growth is being driven in particular by the longer service lives of vehicles and the growing importance of the independent spare parts market, as well as new opportunities arising thanks to electromobility, digitalisation and the use of artificial intelligence. At the same time, geopolitical uncertainty and volatile supply chains are posing new challenges. Automechanika Frankfurt 2026 brings the leading players from industry, workshops and retail together and showcases the solutions and business models currently on offer in the automotive aftermarket.

Michael Johannes, Vice President Mobility & Logistics: "Automechanika Frankfurt 2026 features content that directly addresses the future trends that matter today. The focus is on innovation, transformation, sustainability, training and professional development, and recruiting. Another goal is to do more to promote networking between the various players and facilitate new partnerships. That is why we have expanded the event by adding even more networking formats, as well as new opportunities for companies to take part and give presentations."

Our new HighTech4Mobility forum is concerned with developments in the field of software-defined vehicles, autonomous driving and digital

services. On 10 September, Google Cloud and the Boston Consulting Group will be taking part in an event entitled "How AI Can Unlock Value in the Aftermarket". Here, they will discuss how artificial intelligence can be used to leverage new value creation opportunities in the aftermarket. Also on the same day, Tobias Liebelt, CEO Benteler Mobility, will be sharing fascinating insights into the latest developments in the fields of robotics and autonomous driving.

How is AI changing claims settlement? What are the impacts of market consolidation, a shortage of skilled staff, and rising investment costs on the accident repair business?

"Schadentalk: Road to the future – Who will come out on top in the accident repair business?" will be supplying answers on 11 September at 2:30 p.m. in Hall 11.1. At the Automechanika Academy, representatives of insurers, claims managers, paint manufacturers, associations and technology providers will be discussing the future of automotive claims management, sustainable repair concepts, and the opportunities and challenges of automation and robotics for body and paint shops.

"Training and professional development is important to the entire sector, and this is not going to change. That is why we are organising not only a series of free certified workshops, but also an extensive and wide-ranging stage programme in five exhibition halls focusing on the latest trends and developments. And this year, for the first time, we will be making all of this freely available online even after the trade fair has ended," explained Olaf Mußhoff, Director Automechanika Frankfurt. Workshop content ranges from damage assessment and calculations, measurements and special repair techniques to surface treatments, paintwork, ADAS diagnostics and alternative drive systems.



Another highlight: the Automechanika Innovation Awards, where products are honoured in ten different categories at an awards ceremony on 8 September. 185 submissions were received – a new record that underscores the diversity and innovative strength of the industry. The award-winning products will be showcased in a special exhibition during the trade fair.

The branded aftermarket once again has a strong presence at this year's fair. In Hall 8, BMW is presenting aftersales solutions for the entire damage and service chain, including with remanufacturing. The manufacturer will also have select exhibits from BMW Motorsport and the BMW Art Car Collection on show in the Galeria. Stellantis is introducing itself to the workshop sector as a multi-brand mobility provider, displaying a range of products for the entire vehicle lifecycle. There is even a new partnership between Automechanika and the Association of International Motor Vehicle Manufacturers (VDIK) On 8 September in the Festhalle,

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Tongtai Line Management

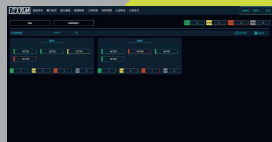
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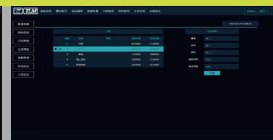
Improvement



Material management



Production scheduling



Job assignment

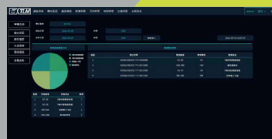
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the very first "Automotive Aftersales Award" will be given for the best and most innovative service in the branded aftersales sector in six different categories. A total of 29 national and international brands are participating in the competition, with the winners to be chosen in a three-stage process: a vote by readers of AUTO BILD, the IfA MarkenMonitor (a dealer satisfaction survey conducted by the Institute for the Automotive Industry (IfA), and a panel of experts. There are also various specialist forums planned: On 8 September, experts will be engaged in discussions at the "Branded Aftersales Forum", while the topic on 10 September will be future models for effective fleet services. On 11 September there will be a high-powered expert forum talking about claims management.



At the Agora, the "centre court" of the eastern part of the Frankfurt exhibition grounds, the "Future Mobility Park" will be offering a glimpse of what tomorrow's mobility may look like in practice. This is where visitors can try out new solutions in person. Wolfgang Weyand, Head of Special Events, summed up this year's supporting programme like this: "Automechanika has become far more than a conventional trade fair, it is a place for experiences. With the Future Mobility Park, the first Automechanika Pitlane and the Experience Park, we enable our visitors to experience innovations up close in an open-air setting. Visitors can look forward to live action with key figures from the scene, the roar of engines, exciting challenges, exclusive insights and a pit lane of some 200 metres in length."

Now the organisers are starting a new chapter with the Automechanika Club, an international community for people in the automotive industry that is active all year round. Brand Manager Michael Johannes: "We want to supplement our 16 Automechanika fairs with additional offerings that allow people to experience our trade fair brand. The newly established club offers its members attractive benefits that include discounts on a range of brands and partners, additional benefits at automotive events, and access to special club events. At Automechanika Frankfurt 2026, club members can look forward among other things to free admission to the trade fair, privileged access through special "fast lane" entrances, and other exclusive offers and services for their trade fair visit. People can already register free of charge online at automechanika-club.messefrankfurt.com. Club members will enjoy all the benefits of a premium membership free of charge through the end of 2027.



The 10th German Polishing Championships Powered by Würth is coming to Automechanika Frankfurt. On 12 September the vehicle care and detailing scene will be gathering in Hall 12 to show off their skills to a live audience – and to answer the question: Who can perform a repair that is perfect in every way? At this event, which will be moderated by TV journalist and moderator Tommy Scheel, everyone will have a chance to sit back and be amazed while cheering on their favourites.

For fans of car audio and infotainment systems, the German finals of the European Mobile Media Association (EMMA) are certain to be a real highlight. Taking place on 12 September on the outdoor exhibition grounds outside of Hall 12, some 80 high-end audio-enhanced classic and collectible cars of all ages will be competing here in the final round of the German championships for the right to reach the European finals. Visitors can experience the competing vehicles up close and in person, conduct sound checks and chat with the vehicles' constructors. The event will also be supplying valuable insights into the growing business that is car audio and infotainment, highlighting opportunities for the modernisation and improvement of vehicles from every era.

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ISCAR SOUTH AFRICA – NEW MANAGING DIRECTOR APPOINTED

Gavin Adams stepped down as Managing Director of Iscar South Africa in June this year after having been with the company for 45 years.

Nico Duvenage, new Managing Director, joined Iscar 15 years ago. He started in the Tech Centre as Productivity Manager, doing Demos and customer seminars and for the last decade he was hole making product manager. During all this time he was able to build great business relationships with customers all over South Africa.

About three years ago Duvenage decided to add a business degree to his technical background in order to have the whole package, which one day could earn him a more senior position. As a result, in 2025, he acquired a Bachelor of Business Administration (BBA) NQF Level 7, graduating Cum Laude.

Duvenage says, "while after all these years Iscar is in my blood, we got a young and dynamic team, excellent product – and sales managers, which make Iscar what it is today. Our team of application engineers and product specialists are well-trained and capable to apply the products and implement specially tailored cost saving solutions, designed to industry needs.

"In the almost 60 years of trading in the South African market, Iscar has established itself as the go-to company for the supply of innovative tooling coupled to reliable backup and superior service. Incorporated at

our state-of-the-art facilities based at our head office, is a Technical Center and auditorium from where we are able to conduct product launches, industry-specific seminars as well as live demonstrations depicting the latest additions to our vast product portfolio, he concludes."



Gavin Adams (left) stepped down as Managing Director of Iscar South Africa handing over the position to Nico Duvenage (right).



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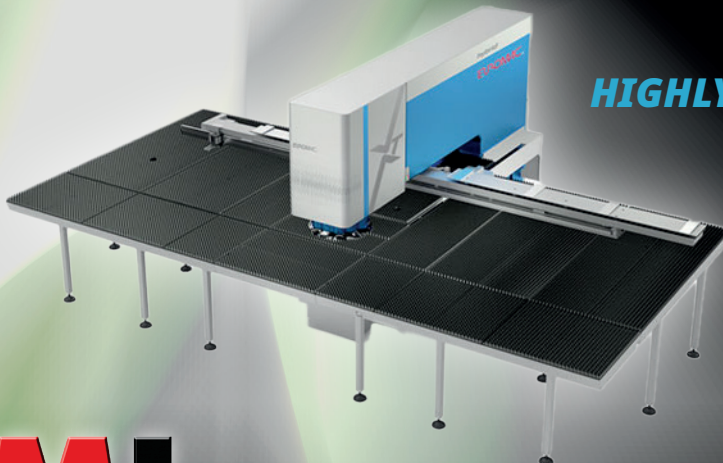
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