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SOUTHERN AFRICA
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Volume 35 No.5



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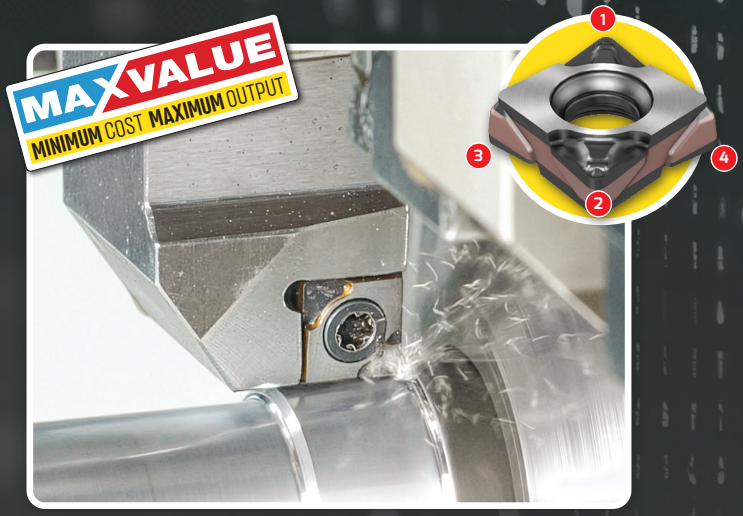
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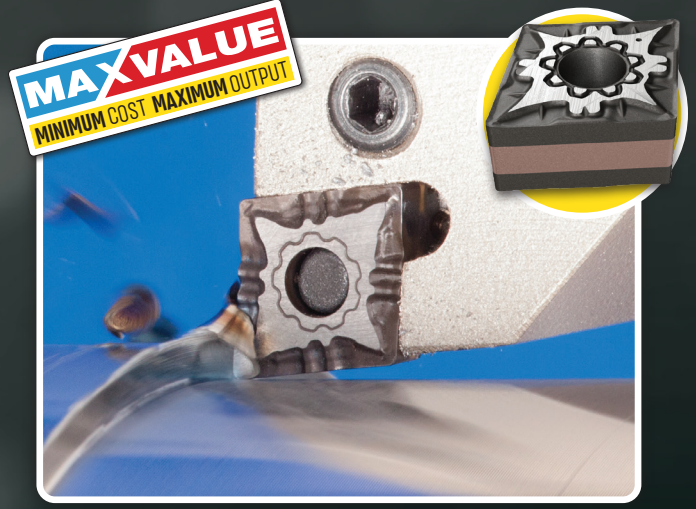
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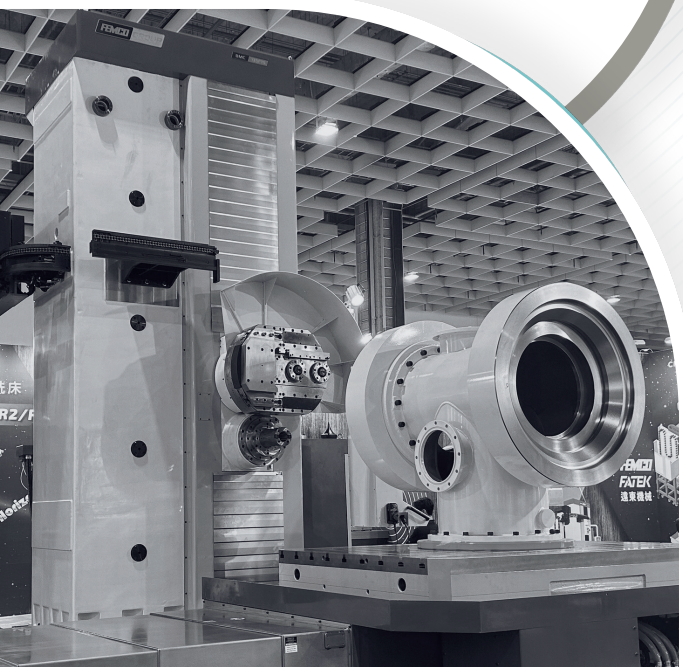
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Companies within our sector continue to invest in capital equipment

By Mike Lee, Chairman MTMA

It is important to reflect on the performance of our sector in 2025 and how it compares with the same period in 2024. Last year has seen a notable surge in Chinese products entering our market, from CNC lathes and machining centres, through to a significant share of laser machines arriving in South Africa. The growing presence of these products has inevitably reshaped the competitive landscape, challenging us as an industry to adapt, innovate and maintain our standards of quality and service.

Encouragingly, despite these dynamics, the first half of 2025 has shown resilience. Imports of machine tools by our members increased slightly year-on-year, reaching an estimated R810 million. This positive growth reflects that companies within our sector continue to invest in capital equipment, an investment that ultimately strengthens local capabilities and contributes to the long-term growth of the South African economy.

Looking ahead, we must acknowledge the uncertainty surrounding the automotive industry, which remains a critical part of our manufacturing base. Much of our sector's momentum will therefore depend on activity in other key areas, particularly mining, defence and a broader spectrum of engineering industries. Continued investment and development in these sectors will be vital to ensure sustainable growth and stability for the machine tool industry as a whole.

As always, I would like to thank our members for their commitment and contributions. Together, we will continue to navigate challenges, seize opportunities and build on the foundation of strength that has long defined our industry.

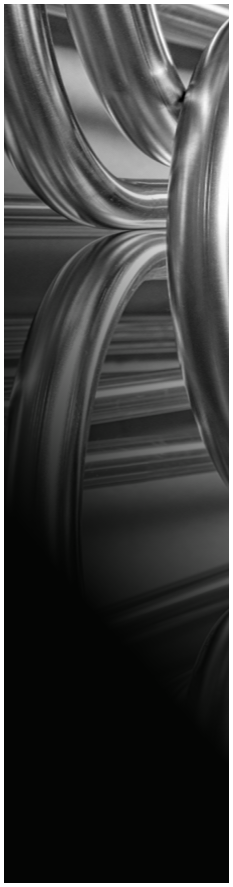


Mike Lee, Chairman MTMA

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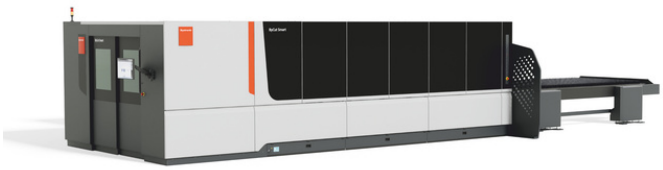
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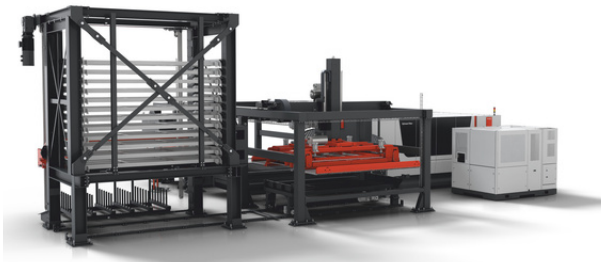
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Managing Director: Chris Kroeger
Branch Managers: Gábor Veress & Brad Thomson

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Key Personnel
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TLM

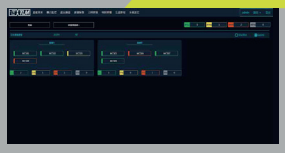
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Machine monitoring

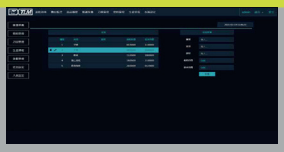
Improvement

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Through TLM to manage the production line for better production efficiency.


Material management

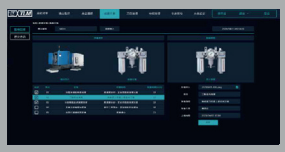

Production scheduling

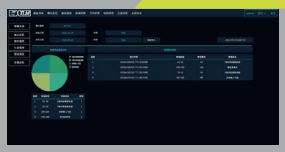

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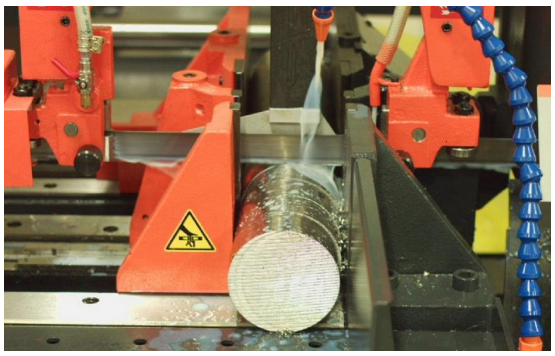
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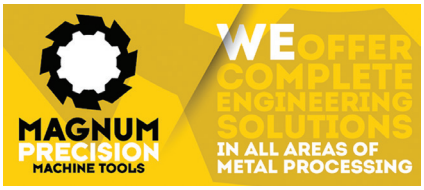
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Maurice Platt Machine Tools – Gqeberha
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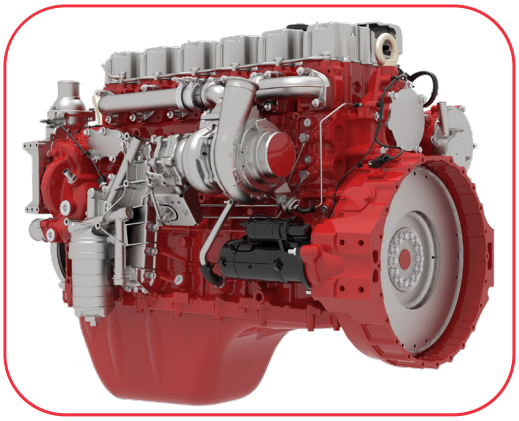
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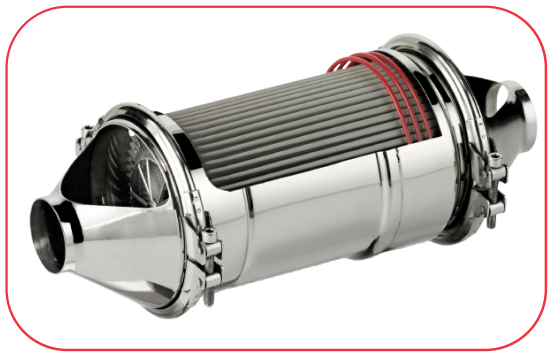
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"A circle is a round straight line with a hole in the middle" – Mark Twain

Disc type side and face milling cutters, often called slotting cutters and known as side mills in shop terminology, have long been an effective solution for slot and groove milling.

Compared with smaller diameter solid endmills, which are also used successfully for slotting operations, side and face cutters generally have a substantially larger diameter and can accommodate a greater number of cutting teeth. Consequently, even if the feed per tooth must be reduced somewhat, their higher tooth-pass frequency can permit a considerably higher table feed and metal-removal rate (MRR).

In the machining of deep slots and grooves, side and face cutters can also offer greater rigidity than long, small diameter end mills. This is another important factor in improving cutting efficiency and process reliability.

The effective cutting width of a side and face cutter determines the width of the slot. Therefore, a full-width slot can often be produced in a single pass.

Side and face cutters are available in non-indexable and indexable versions. In the latter, worn cutting edges can be renewed by indexing or replacing the inserts rather than by replacing the entire tool. Compared with solid carbide end mills, this can reduce tooling costs, particularly when carbide prices are high.

The principal advantages of side and face cutters are therefore high efficiency full-width slot milling, effective machining of deep and narrow slots, and, where indexable versions are used, the economic benefits of the exchangeable insert concept.

At the same time, the use of side and face cutters for milling slots and grooves involves several specific challenges.

In side and face milling cutters, teeth are provided on one or both side faces ("sides") and on the outer periphery ("outer face"). Unlike cylindrical (plain) milling cutters, which remove material primarily with their peripheral teeth, side and face cutters combine peripheral cutting for producing the slot bottom with side cutting for forming one or both slot walls.

The cutting conditions of the peripheral and side teeth are not identical and their chip thicknesses and effective cutting speeds may differ. This can lead to unequal tooth loading and non-uniform wear of the cutting edges.

The peripheral teeth generate most of the tangential and radial cutting forces, while the side teeth produce axial forces. When teeth on both sides are engaged, the axial forces may partly oppose one another, however, they are not always balanced. The resulting cutting force distribution can deflect the cutter and shift the cutter laterally, causing it to be drawn toward one of the slot walls.

Side and face cutters are very sensitive to runout, especially in axial direction. Axial runout leads to unequal loading of the side teeth, may induce vibration and reduces tool life. Radial runout also contributes to irregular loading of the peripheral teeth. Together, these effects lower milling performance, worsen surface quality and diminish the dimensional accuracy of the machined slot.

Moreover, the tooth corners simultaneously participate in machining the slot bottom and walls. They therefore experience considerably higher mechanical and thermal loads than other parts of the cutting edge. These corners often become the cutter's weakest points, its "Achilles' heel," limiting the cutting parameters. Chip evacuation is also difficult, especially in deep, narrow slots, where chips may be recut or may clog the cutting zone.

A similar situation is observed with slitting cutters (slitting saws) disc type milling cutters used for parting workpieces. These tools are typically made as thin as possible to produce narrow kerfs and, consequently, minimize material loss during slitting operations. However, this reduced thickness also lowers cutter rigidity. During parting, particularly of large workpieces, the tool remains engaged with the material for an extended period, which increases heat generation and makes chip evacuation more difficult, thereby accelerating tool wear. Insufficient coolant delivery further worsens these effects.

T-slot and angle cutters can, to some extent, be regarded as derivatives of side and face mills. In addition to the difficulties discussed above, the critical structural feature of a T-slot cutter is its neck, which largely determines the cutter's relatively low rigidity. In angle cutters, particularly dovetail designs, the inclined geometry of the peripheral teeth increases radial loads, reducing both static and dynamic stiffness.

The need to overcome the identified limitations and improve the performance of slotting and slitting operations defines the main directions in the development of side and face milling cutters. Among the traditional approaches are the use of advanced cutting material grades and coating technologies, optimization of tooth geometry, improved dimensional accuracy and appropriate design of the chip spaces between the teeth to ensure efficient, unobstructed chip flow. In addition, manufacturers seek to increase tooth density, maximize service life and vibration resistance and provide effective coolant delivery.

In indexable milling cutter designs, particular emphasis is placed on the rigidity of insert clamping, economical use of cutting materials, especially tungsten carbide, rake-face geometry and internal coolant supply through the cutter body.

Over recent years, ISCAR's range of side and face milling cutters has been expanded through the introduction of new products and the upgrading of existing designs. One of the examples is HELISLOT, a family of indexable slotting cutters that use cost effective, double sided square inserts with eight cutting edges – four right-hand and four left-hand. In addition to the existing 09 and 13 insert sizes, the range was expanded several years ago with the smaller 06 size for machining slots and grooves as narrow as 7 mm (0.275 in.). Subsequently, the insert portfolio has been supplemented with inserts specifically designed for machining aluminium and non-ferrous metals (ISO N application group). Compatible with the existing cutters, these inserts are available in all three sizes and feature ground insert side surfaces and polished rake faces to promote chip flow and eliminate the formation of built-up edge (BUE).

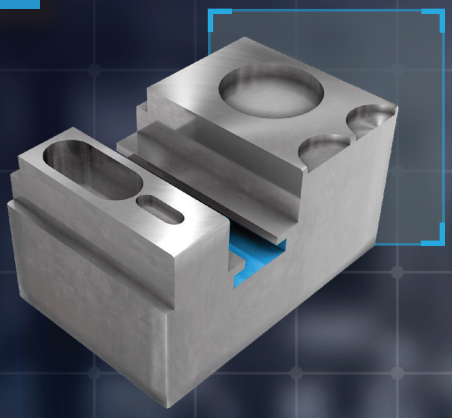


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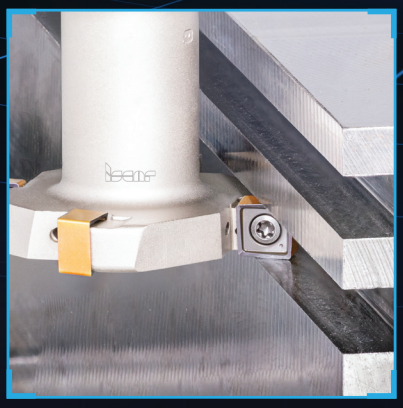
YOU MILLING INTELLIGENTLY?

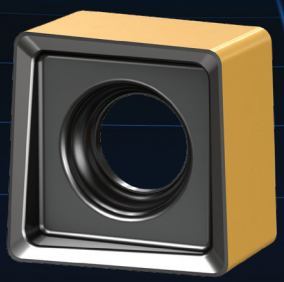
HELISLOT

Unique 06 Twisted Inserts
for Small Diameter and
Narrower Width of Cut.









Unique Twisted Insert with a High Positive Rake Angle. Helical Shape for Easy and Accurate Cutting.

LOGIQUICK
MACHINING INTELLIGENTLY

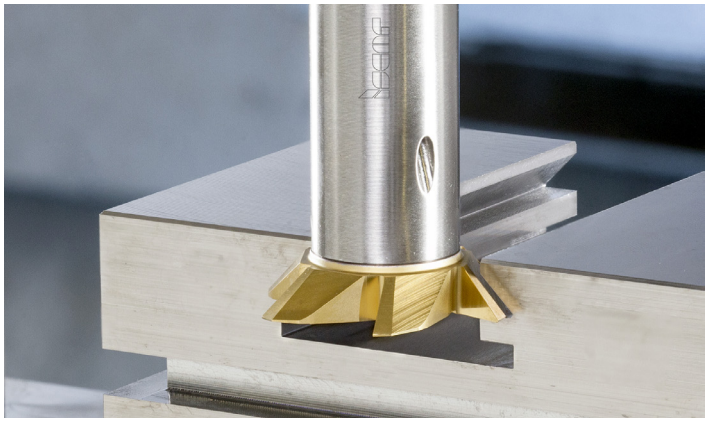
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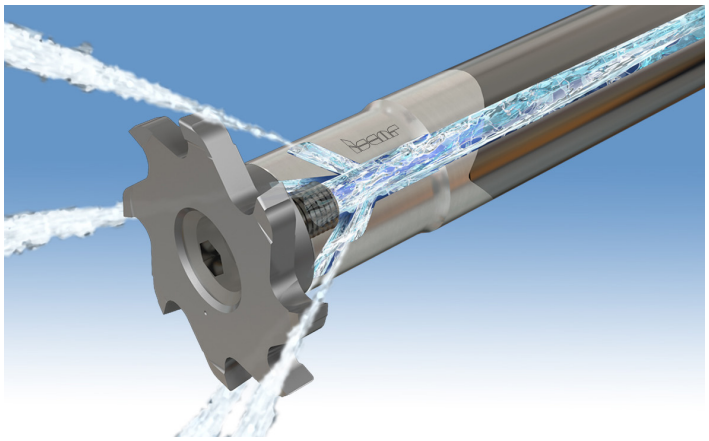
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TANGSLOT is ISCAR's well proven family of indexable slotting cutters, which employs a tangential insert concept. Cost effective TANGSLOT inserts provide four cutting edges and feature a unique rake face geometry that improves chip formation, reducing cutting forces and power consumption. Building on this development, the company has significantly expanded the range of insert corner radii to meet the requirements of slot milling applications.

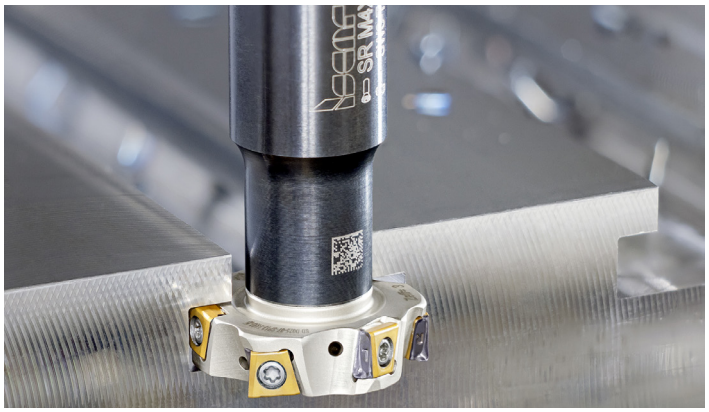


MULTI-MASTER is a versatile family of cutters with exchangeable heads and a true all-around solution for machining with relatively small diameter rotating tools has added new solid carbide dovetail milling heads in diameters ranging from 10.5 to 25 mm (0.413 to 0.984 in.). These precise multi-flute heads have six teeth, enabling higher feed rates and improved productivity. They are designed for milling dovetail slots with included angles of 90° and 120°, mainly in steel, stainless steel and cast-iron workpieces (ISO P, M and K application groups). The heads can also be used for back chamfering and deburring.

Another ISCAR system of assembled tools with exchangeable solid carbide milling heads is T-SLOT. In this system, the milling head is accurately centred by a cylindrical locating surface and secured with a screw, while torque is transmitted from the tool body to the head through a specially designed spline connection. Recently, carbide tool bodies (shanks) with an internal coolant option have been added to the range. A central coolant channel branches to each flute of the milling head, delivering coolant directly to the cutting zone. This arrangement improves cooling and chip evacuation and can significantly extend tool life.



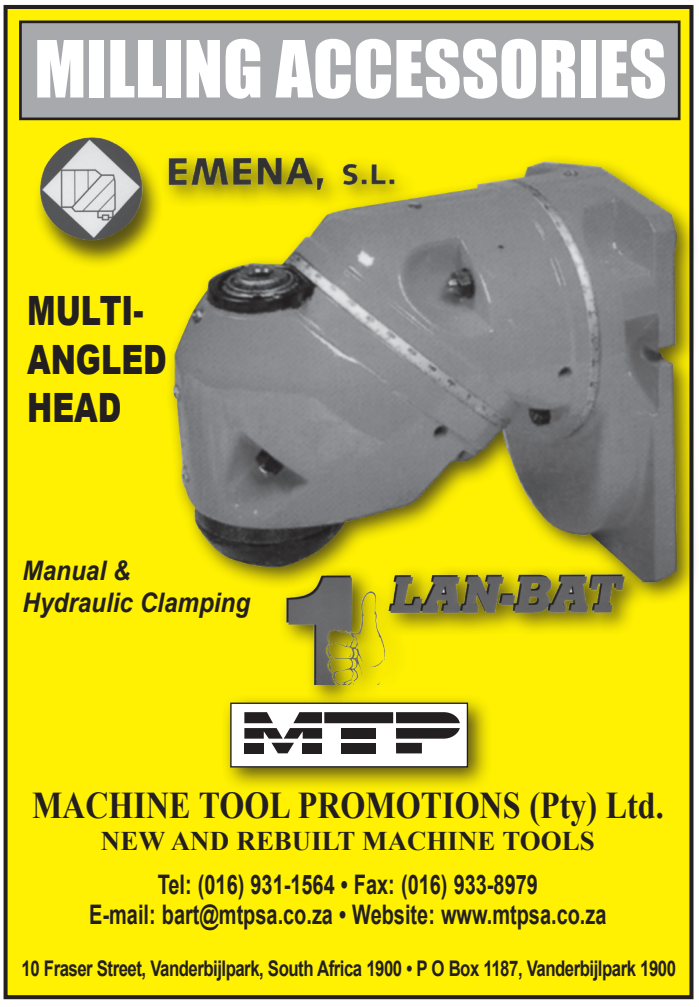
The robust spline connection concept used in T-SLOT, which enables the assembly to withstand the substantial loads and bending forces encountered in slot milling, has subsequently been extended to indexable tooling. TANG-DISC, a new family of assembled cutters, applies this principle to an indexable design. Its exchangeable heads carry compact, tangentially mounted inserts with a 5 mm (0.197 in.) inscribed circle diameter. Each insert provides four cutting edges, two right-hand and



two left-hand. The new tools offer particularly effective performance in the machining of small industrial components and, through their economical miniature indexable insert approach, provide a practical means of reducing machining costs.

The continued development of slotting cutters demonstrates that productive slot and groove milling depends on more than increasing cutting speed or feed rate. Cutter rigidity, balanced cutting forces, reliable insert clamping, effective chip evacuation and precisely directed coolant supply are equally important. By combining these features with economical indexable and exchangeable-head concepts, modern side and face cutters enable manufacturers to machine slots, grooves, dovetails and perform parting operations with greater productivity, process reliability and cost efficiency.

For more information, please contact
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POWER UNDER PRESSURE – CUTTING COSTS IN SOUTH AFRICAN MACHINING

Across South Africa's manufacturing sector, the pressure to produce more for less has never been greater. Rising electricity costs, volatile exchange rates and increasing global competition are forcing machine shops to focus on what truly drives profitability – *efficiency at every level of production.*

In this reality, success is no longer defined by output alone, but by how quickly and consistently that output is achieved. Every second of cycle time, every insert edge and every machine stop has a cost attached to it.

TaeguTec's turning and grooving portfolio – **RHINO-TURN, RHINO-M-TURN, RHINO-X-TURN, CUT-SFEED, RHINO-GROOVE** and **WIN-CUT** – is designed precisely for this environment. The objective is simple, measurable gains in performance that deliver tangible cost savings.

Where Performance Meets Profit

On the shop floor, two metrics define operational success, **cycle time and tool life.** Reduce the first, extend the second and cost per component drops almost immediately.

TaeguTec's solutions consistently push both in the right direction. Faster machining reduces energy consumption per part, an increasingly important factor locally, while longer tool life cuts down on insert spending and machine interruptions. The result is not incremental improvement, but a meaningful shift in productivity.

Built for Demanding Conditions



Heavy-duty applications remain central to South African industry, particularly in mining and energy. **RHINO-TURN** thrives in these conditions, offering the strength and stability required for aggressive cutting, while delivering excellent dimensional accuracy in a highly cost-effective solution. By enabling higher feed rates without sacrificing reliability, it shortens machining cycles, while extending tool life, two gains that directly reduce operating costs.

For workshops managing mixed materials, **RHINO-M-TURN** simplifies operations. Its versatility eliminates the need for constant tooling changes, keeping production flowing and reducing inefficiencies that quietly erode margins. With double the cutting edges for internal machining, it delivers stable performance and extended tool life.



When speed becomes the priority, **RHINO-X-TURN** delivers. Designed for high-speed applications, it allows manufacturers to increase output without compromising surface finish or stability. Its innovative 2-in-1 design combines roughing (CNMG) and finishing (DNMG) in a single insert, reducing machining time through high-feed machining. In an environment where energy costs continue to rise, faster cycles translate directly into lower cost per part.

Eliminating Weak Points in the Process

Parting and grooving are often where productivity is lost. Instability, tool breakage and scrap can disrupt even the most efficient operations.



CUT-SFEED addresses this with a stronger, more stable parting solution, featuring a robust clamping structure and a higher-rigidity insert for parting and deep grooving. This enables deeper cuts and smoother chip evacuation, resulting in a more reliable process with fewer interruptions and significantly improved tool life.

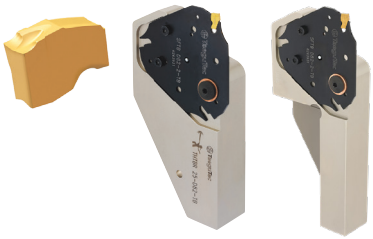
Similarly, **RHINO-GROOVE** enhances consistency in grooving applications. Its stability reduces vibration and ensures precise results, limiting rework and protecting valuable material, an essential advantage when raw material costs are high.



Efficiency without Excess Cost

Not every job requires premium tooling but every job demands efficiency. **WIN-CUT** provides a practical balance, offering reliable performance at a competitive cost. Featuring reinforced triangular blades, it ensures stable parting and deep grooving with low vibration, while maximizing productivity through high-feed machining. For general turning applications, it delivers steady improvements in both cycle time and tool life, helping manufacturers stay cost-competitive without over-investing.

A Practical Approach to Cost Reduction



What makes these solutions particularly relevant is how directly they respond to local challenges. Less machining time means reduced strain from high electricity tariffs. Longer tool life lowers exposure to exchange rate fluctuations. Increased throughput improves competitiveness in both domestic and export markets.

Individually, each improvement is valuable. Together, they create a clear and measurable reduction in cost per component.

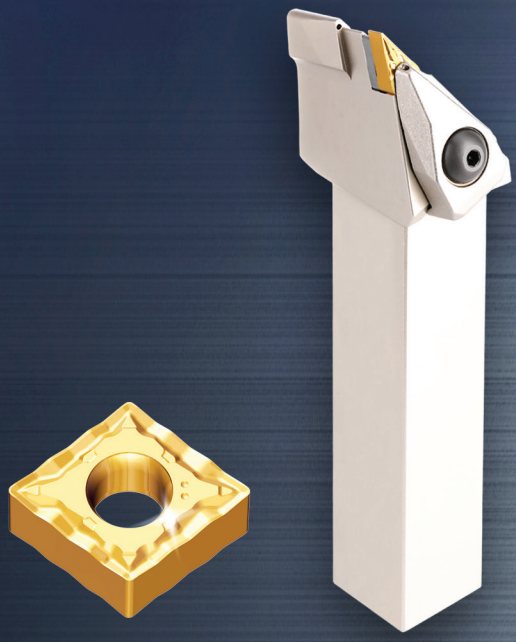
Your Partner in Cost Reduction

In today's manufacturing environment, efficiency is not an advantage, it is a requirement. TaeguTec's turning solutions provide a focused, performance-driven approach to achieving it – faster cycles, longer tool life, lower costs. Not as promises, but as measurable outcomes on the shop floor with **TaeguTec, your Partner in Cost Reduction.**

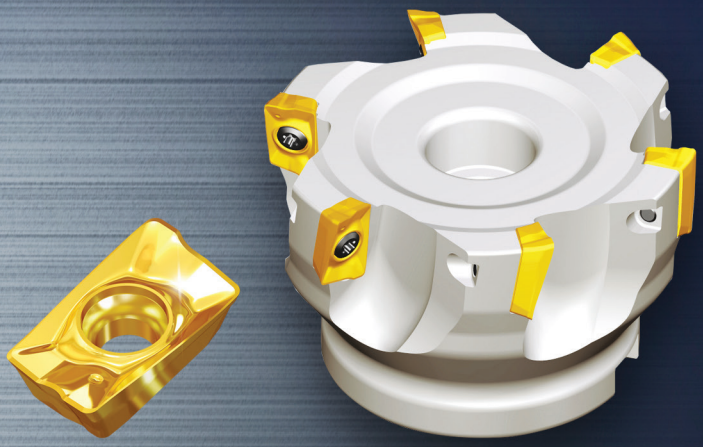
For more information, please contact TaeguTec – Tel: 011 362-1500.

RHINOLINE

Your Partner in Cost Reduction



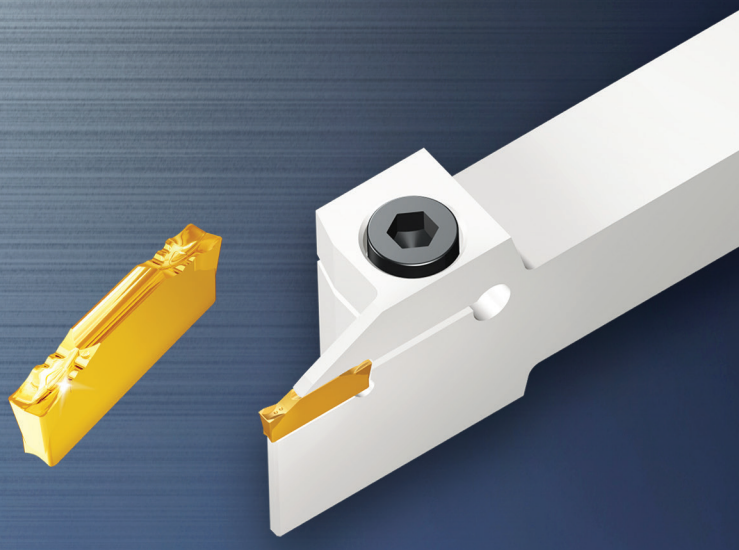
RHINOTURN



RHINOMILL



RHINOSOLID



RHINOGROOVE

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CHIPLESS THREAD MANUFACTURING IN WROUGHT ALUMINIUM AND CAST ALUMINIUM ALLOYS

REIME NORIS recently expanded its product portfolio for wrought aluminium and cast aluminium alloys with two newly developed cold forming taps.

Both tool types, like all taps of the "NEO" series, are made of HSSE-PM substrate. However, they differ in geometry and coating in order to achieve outstanding results in the respective field of application.

NORIS SPANLOS NEO AL



The NORIS SPANLOS NEO AL cold forming tap has been developed especially for the machining of wrought aluminium alloys. The geometry with an asymmetrical pressure point shape acts in the forming direction through a relatively steep stroke with very low torque. The stroke on the back is much flatter and thus has a supporting effect. This combination results in an enormous increase in tool life. A DLC (diamond like carbon) coating reliably protects against cold press welds, which are found frequently in these materials.

NORIS SPANLOS NEO GAL



The NORIS SPANLOS NEO GAL cold forming tap has been developed especially for thread forming in cast aluminium alloys. The geometry has a steeply pronounced symmetrical stroke both in the forming direction and at the back. The special feature is a sliding surface in-between, which offers targeted resistance to the particularly high abrasiveness of these cast materials. A multi-layer TICN coating, which has proven particularly effective in cases of abrasive wear, functions as a coating here.

In the standard product portfolio, the metric dimensions common for these materials, up to and including M10, are available, from M4 also with coolant hole. As in the entire range of NORIS SPANLOS tools, these two new types are also available from stock only with lubrication grooves.

For further information, please contact Duncan MacDonald – Tel: 011 444 4345.

REIME NORIS – PRODUCT RANGE FOR UNIVERSAL THREAD MILLING CUTTERS EXPANDED

As an innovative manufacturer of threading tools, REIME NORIS offers an extensive range of products for the economic production of threads in a wide variety of materials. The company recently expanded its successful thread mill series NORIS SF R15. In addition to the thread types M, MF and G, this tool is offered for the production of UNC and UNF threads.

The NORIS SF R15 is a multi-row thread mill for processing a wide range of materials. It guarantees short machining times and high tool life. It should be particularly highlighted that the thread is efficiently produced over the entire depth of the core hole with only one turn, for the type SF SE even with countersinking. With a helix angle of 15° right, these thread mills can withstand high mechanical stress. Optimum results are achieved by the specially adapted interaction of the TiAlN coating with its high hardness and temperature resistance and the profile-corrected geometry.

The NORIS SF R15 is available from stock in all common standard sizes. For special applications the REIME NORIS team of experts with excellent know-how in thread machining is available.



NORIS SF R15 K20-TiAlN mKB



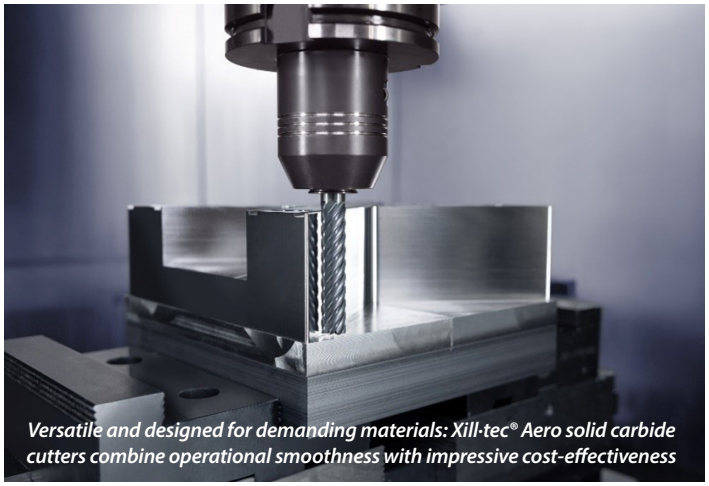
DESIGNED FOR UNIVERSAL USE – BUILT FOR THE AVIATION INDUSTRY

Walter presents high-performance Xill·tec® Aero solid carbide cutters for ISO M and S

Walter is expanding its milling cutter portfolio with the new Xill·tec® Aero solid carbide cutters MC331/MC333 Advance, thereby offering a universal tool solution that is also specifically tailored to the requirements of the aerospace industry.

Following the successful launch of the MC230 Advance for steel, Walter now has two specialist cutters in its range, the MC331 Advance without chip breaker and the MC333 Advance with chip breaker, with a clear focus on ISO material groups M and S, and in particular Titanium. The basic principles for their outstanding results when machining aerospace-typical titanium alloys such as Ti6Al4V or Stainless Steels, such as 316L are the universal grade WK40EA and the geometry featuring Differential pitch, which is specially tailored to these materials. In combination with these elements, it ensures exceptional operational smoothness and surface quality even at high cutting parameters.

Walter offers the milling cutters as five- or seven-flute (z5/z7) tools in metric sizes ranging from Ø 6 to 25 mm, with or without Corner radius or Chip breaker and with cutting lengths of 2 to 5 × Dc. According to Walter, both tools are equally well suited to dynamic milling with high material removal rates as well as for finishing operations, such as shoulder machining. In addition to the aerospace sector, Walter cites the energy sector and the medical and energy sectors as typical areas of use. Both, the MC331 Advance and the MC333 Advance are suitable for reconditioning, while the Tübingen-based company offers custom dimensions via the Walter Xpress™ Service. As with the MC230/MC233 Advance, users also benefit from an excellent price/performance ratio, outstanding tool life and high process stability with the Xill·tec® Aero.



Versatile and designed for demanding materials: Xill·tec® Aero solid carbide cutters combine operational smoothness with impressive cost-effectiveness

For more information, please contact Spectra Carbide Tooling Technology – Tel: 021 555 4144.



FANUC AMERICA DEBUTS ULTRA LIGHTWEIGHT CRX-3IA COLLABORATIVE ROBOT AND NEW CAPABILITIES ACROSS THE CRX LINEUP

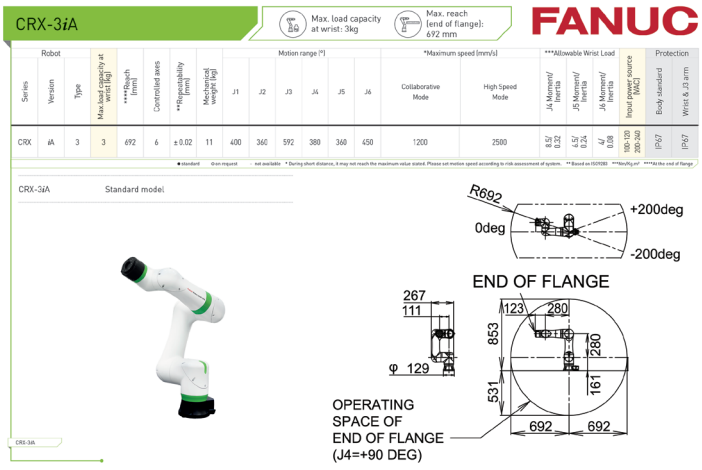
A new ultra-portable cobot and expanded CRX features give manufacturers more ways to automate small tasks, heavy moves, palletizing, welding and high mix operations.

FANUC America, the leading supplier of CNCs, robotics and automation, has expanded its popular CRX collaborative robot series with the introduction of the CRX-3iA, an ultra-lightweight cobot, designed for fast redeployment across small, high mix tasks. Weighing only 11 kg (24 lbs.), the CRX-3iA can be carried and set up in minutes, giving manufacturers a portable way to automate jobs, such as welding, part handling, small assembly, screw driving, tool positioning and inspection, especially in tight spaces or temporary work areas, where permanent fixtures aren't feasible.



In addition to introducing the newest model in the CRX family, FANUC is rolling out several new capabilities across the full CRX line-up. These enhancements expand the range of applications that collaborative robots can support, from heavier palletizing and high throughput fastening to coordinated welding and advanced motion control, giving manufacturers more flexibility to automate both small, high mix tasks and larger, mass production scale operations.

"The CRX-3iA puts collaborative automation in the hands of operators – literally," explains Eric Potter, general manager, robot application engineering segment, FANUC America. "Its lightweight design makes it easy to redeploy in minutes, helping manufacturers automate jobs that were once too small, too scattered or too costly to justify. Combined with new capabilities across the CRX line-up, we're giving our customers more ways to apply collaborative robots safely and productively across their entire operation."



CRX-3iA: Ultra Portable Automation for High Mix Work

The CRX-3iA brings a new level of mobility and flexibility to FANUC's collaborative robot family. With a 3 kg payload, 692 mm reach and lightweight design, the CRX-3iA is engineered for rapid repositioning and tight space operation.

CRX-3iA Key Features

- **Ultra lightweight design:** Can be carried by a single person and quickly moved to workstations, temporary setups or field environments.
- **Flexible installation:** Supports magnetic bases and offers effortless wall or ceiling mounting with automatic angle detection and no manual input.
- **High mix task support:** Ideal for welding, part handling, small assembly, screwdriving, tool positioning and inspection tasks.
- **Portable welding capability:** Can be manually moved to the welding area for fast repositioning with support for touch sensing, eliminating the need for precise robot placement. Additionally, auto weld point detection and auto path generation easily accelerate welding setup.

These capabilities make the CRX-3iA a practical solution for manufacturers seeking to automate small or variable tasks without committing to permanent fixtures or complex integration.

New Capabilities across the CRX Collaborative Robot Line-up

Several new features and options that expand the performance and versatility of the entire CRX family include:



- **New "Triangle Weave" Vertical Up Welding Profile**
  A breakthrough solution for out of position welding, FANUC's newly developed triangle weave profile counteracts weld puddle sag and replicates the precision of a skilled welder, enabling successful Vertical Up welding where automation traditionally struggled. What was once a major challenge can now be achieved with confidence through an intuitive, easy to use interface.

Cont. on page 30 ☞



ROBOCUT
Wire EDM



ROBODRILL
Machining Centre



ROBOSHOT
Plastic Injection Molding



CNC Controls



Industrial Robots



Collaborative Robots

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FANUC ACCELERATES PHYSICAL AI IN INDUSTRIAL ROBOTICS LEVERAGING NVIDIA TECHNOLOGIES

Strategic collaboration combines FANUC's global robotics leadership with NVIDIA AI computing and simulation platforms to deliver intelligent, adaptable automation for the factory of the future.

FANUC, the world's leading supplier of industrial robots and factory automation systems, is collaborating with NVIDIA to advance physical AI, a new paradigm that merges artificial intelligence with physical robotics to enable machines that see, reason and act in dynamic environments.



Under this collaboration, FANUC will leverage NVIDIA AI infrastructure, including **NVIDIA Jetson** edge modules, cloud/edge AI infrastructure, **NVIDIA Isaac Sim** open robotic simulation framework and **NVIDIA Omniverse libraries**, within its extensive robot portfolio and ROBOGUIDE simulation software. This approach empowers manufacturers to create photorealistic digital twins of their factories, train robots virtually and deploy them with unprecedented speed and flexibility.

Key Highlights of FANUC's Physical AI Strategy

- **Open Platform Commitment:** FANUC has released an official **ROS 2 driver** and supports Python as standard across its robots, with payloads ranging from 3 kg to 2.3 tons, enabling developers to build AI-driven applications with ease.
- **Ultra-High-Speed Streaming Motion:** Enables precise, responsive control of robot joints and end-effectors for smooth trajectories and dynamic path adjustments.
- **Digital Twin Integration:** Integrating FANUC's robot simulation software ROBOGUIDE with NVIDIA Isaac Sim and NVIDIA Omniverse allows manufacturers to simulate entire production lines with high fidelity, validate workflows and optimize performance before hardware deployment, reducing commissioning time and cost.
- **Real-Time Intelligence:** Combining FANUC's proven reliability with NVIDIA Jetson and AI-accelerated computing enables robots to adapt to variability, execute complex tasks and deliver higher throughput in industries, such as automotive, logistics and food processing.

"Physical AI is the next frontier in industrial automation," said Mike Cicco, President and CEO, FANUC America. "By collaborating with NVIDIA, we're giving manufacturers the tools to deploy intelligent robotics faster and align virtual design with real-world production."

"Manufacturers are increasingly seeking physical AI solutions that bridge the gap between virtual simulation and real-world production to overcome labour shortages and increase operational efficiency," said Murali Gopalakrishna, General Manager of robotics at NVIDIA. "By integrating NVIDIA's AI and simulation platforms with FANUC's robotics expertise, we are providing developers with the tools to build and deploy intelligent, adaptable automation at scale."

In addition to advancing simulation and deployment, FANUC is also expanding how operators interact with automation. FANUC is applying NVIDIA AI to enable robots to interpret voice commands and automatically generate Python code, allowing operators to give verbal instructions, reduce setup time, empower more employees to adjust processes without specialized programming skills and support rapid reconfiguration of production workflows.

These capabilities give manufacturers new ways to overcome skilled labour shortages and meet rising demands for customization and efficiency. By combining virtual training environments, open-source frameworks and real-time AI inference, manufacturers can modernize their operations with greater flexibility.

Availability: NVIDIA Isaac Sim and NVIDIA Omniverse integrations were showcased at the International Robot Exhibition (IREX) in Tokyo in December last year. NVIDIA Isaac Sim is an open-source reference framework for robot simulation built on NVIDIA Omniverse libraries. With advanced visual and physical fidelity and flexible scalability, it enables testing of robot behaviour in complex environments under diverse conditions within a virtual space.

A wide range of FANUC robots is available as OpenUSD SimReady assets in Isaac Sim, enabling rapid construction of simulation environments.

For more information, please contact FANUC South Africa – Tel: 011 392 3610.

☞ *Cont. from page 28*

- **Enhanced Palletizing Performance**
  Palletizing by the CRX-30iA now supports up to 40 kg payloads. When paired with a new high flow air kit designed for large suction grippers, this enhancement enables collaborative palletizing of heavier cases while maintaining safety and ease of use.
- **High Inertia Mode for Assisted Heavy Moves**
  A new high inertia mode allows CRX cobots to guide extremely heavy loads while a lift assist device carries the weight. This hybrid approach automates previously manual, ergonomically challenging operations, while preserving collaborative safety.
- **Dual Nut Runner Support**
  CRX cobots can now operate dual nut runners to double fastener throughput. An optional internal wiring harness supports clean cable routing and maintains collaborative safety standards.

The CRX line-up will also be available on FANUC's new R-50iA controller, enabling advanced capabilities, including Python scripting, higher frequency ROS 2 and streaming motion support for AI-driven application and Advanced Cybersecurity protection

Positioner Support for Auxiliary Axis part positioners now enable coordinated welding and laser applications.

These enhancements broaden the CRX family's reach into more demanding applications, while preserving the simplicity and safety that define collaborative robotics.

For more information, please contact FANUC South Africa – Tel: 011 392 3610.

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Rapid Traverse Rate	52m/min

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TERA 60V

VERTICAL MACHINING CENTER

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Max Table Load	2000kg
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C.O.R.E. – MORE THAN JUST AN INNOVATIVE CONTROL PANEL

C.O.R.E. – Customer-Oriented Revolution

When the public discussion about the fourth industrial revolution, Industry 4.0, intensified a few years ago, the UNITED GRINDING Group made the decision to invest more in the digital future together as a group — not only in the future of the group but above all the future of its customers. And thus the development of C.O.R.E. began. The aim and central focus of this development was to ensure increasing connectivity, i.e. the exchange of data between people, machines and the production environment plus to create the basis for the operation of modern IoT applications. In addition, an intuitive operation was to be enabled to make the work easier for machine setters, machine operators and maintenance staff. C.O.R.E. has turned this vision into reality in a revolutionary way.

Intuitive Operation

It is reminiscent of a gigantic smartphone: The 24-inch full HD multitouch display identifies the next-generation machine tools equipped with the new C.O.R.E. technology. Navigation works like on a smartphone, using "touch" and "swipe." Customers can also configure the user interface according to their individual requirements and arrange the most important functions and operating displays according to personal preferences similar to the app overview on a smartphone home screen.

Thanks to the new access system, which works via a personalized RFID chip, the individual user profile is automatically loaded. This not only makes it easier to log in and out of the machine, but is also significantly more secure. Another advantage is that a roles profile is stored for each user, so users only see information relevant to them, which reduces complexity and helps prevent errors.

When it comes to reducing complexity, it is also noticeable that the new C.O.R.E. panel has virtually no keys. There is a prominent rotary switch for feed rate override, allowing the axes to be regulated with a simple turn.

The uniform use of the C.O.R.E. Panel across all brands also simplifies machine operation and makes training easier, meaning that anyone who knows how to operate one UNITED GRINDING machine can operate all of them.

C.O.R.E. is "More than Just an Innovative Control Panel"

The eye-catching new control panel is, of course, only the visible aspect for machines equipped with the new C.O.R.E. technology. "There were also major innovative developments behind the machine enclosure," stresses Christoph Plüss, CTO of the UNITED GRINDING Group. C.O.R.E. OS. A full operating system is installed on a high-performance industrial PC, the C.O.R.E. IPC which serves as an IoT gateway and is home to all software applications. C.O.R.E. OS is also compatible with all CNC controls used at UNITED GRINDING.



Furthermore, the new technology opens up a wealth of opportunities for connectivity. Not only can all machines with C.O.R.E. technology from the UNITED GRINDING Group be networked, but also third-party systems via implemented interfaces such as umati. This opens up direct access to UNITED GRINDING Digital Solutions' offerings on the machine from remote service to the service monitor and production monitor. For example, support from the Group's Customer Care Team can be requested directly at the C.O.R.E. panel. A chat feature ensures fast and easy support, and the integrated front camera even enables video calls.

Highest Benchmark – User Experience

In the development process of C.O.R.E., which lasted several years, software and process experts from all brands of the UNITED GRINDING Group pooled their expertise to design an unparalleled software architecture. "The user experience, i.e. the immediate experience of the users, has always been our top priority," explains CTO Plüss. It is for a good reason that the abbreviation C.O.R.E. stands for Customer Oriented REvolution.

In the area of operating systems and software architectures of machine tools, C.O.R.E. is a quantum leap, emphasizes company CEO Stephan Nell. "This means that our machines are ready for the digital future." The C.O.R.E. technology presented for the first time at the EMO 2021 in Milan is still under development. "It lays the foundation upon which we can build," explains Plüss. "Development will continue on an ongoing basis. Thanks to the flexible, modular structure of the software architecture, we will continuously add new features and applications. We intend to harness the concentrated software development power of our group for the benefit of our customers." Our goal is to inspire customers with a regular stream of new C.O.R.E. software releases and thus actively help to shape the digital future. In this way, the Group remains true to its ultimate goal of making its customers even more successful.

The industrial production of the future is connected. Machine connectivity is the key phrase. A number of requirements must be met before networking is either possible or usable. UNITED GRINDING C.O.R.E. – Customer Oriented REvolution ensures these requirements. "The digital future begins with C.O.R.E.," stresses CEO Stephan Nell. The groundbreaking new hardware and software architecture was developed by the group's specialists and premiered at the EMO 2021 in Milan. It opens up remarkable possibilities for networking, controlling and monitoring the production process and thus also for process optimization. And more: C.O.R.E. brings the user experience of operators into the world of the smartphone generation.

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

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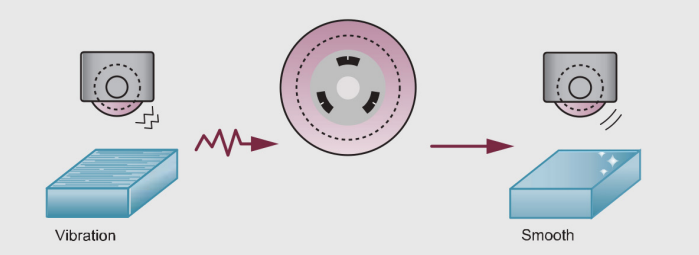
Retecon (Pty) Ltd | 100 Plane Road, Spartan Industrial Township | Kempton Park, 1619
Gauteng, South Africa | Tel: +27 11 976 8600 | Email: machines@retecon.co.za

STUDER

CHEVALIER FULLY AUTOMATIC PRECISION SURFACE GRINDERS – IDEAL FOR JOB SHOPS, AS WELL AS THE AEROSPACE AND CONSTRUCTION INDUSTRIES

Chevalier's FSG-ADIV Series of surface grinders have several design features to shorten processing and non-processing preparation, including iSurface control, a variable speed spindle, constant surface speed, load detection and in-machine manual dynamic balancing.

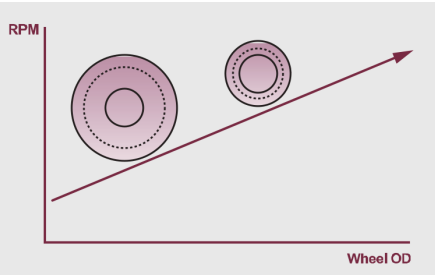
FSG-ADIV Series grinders also feature tools to secure Big Data with Chevalier's exclusive iMachine Communications System TM (iMCS). This software package, combined with data analysis, enhances machine efficiency in the factory while enabling remote monitoring and diagnostics to track machine performance and identify potential problems before they begin. FSG-ADIV Series is ideal for job shops, as well as the aerospace and construction industries.



In-machine dynamic balancing

By manually adjusting the in-machine dynamic balancing function, operators can reduce grinding wheel vibration and eliminate the surface workpiece ripple to improve grinding quality.

Variable speed spindle

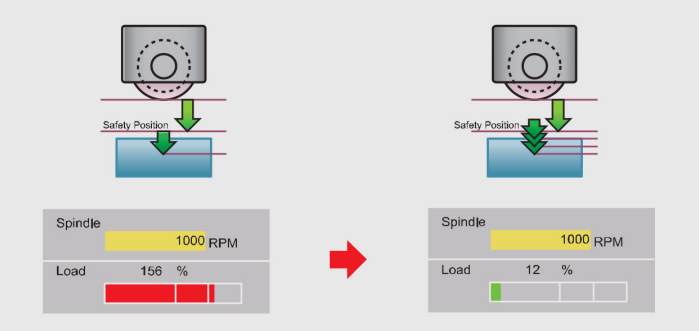


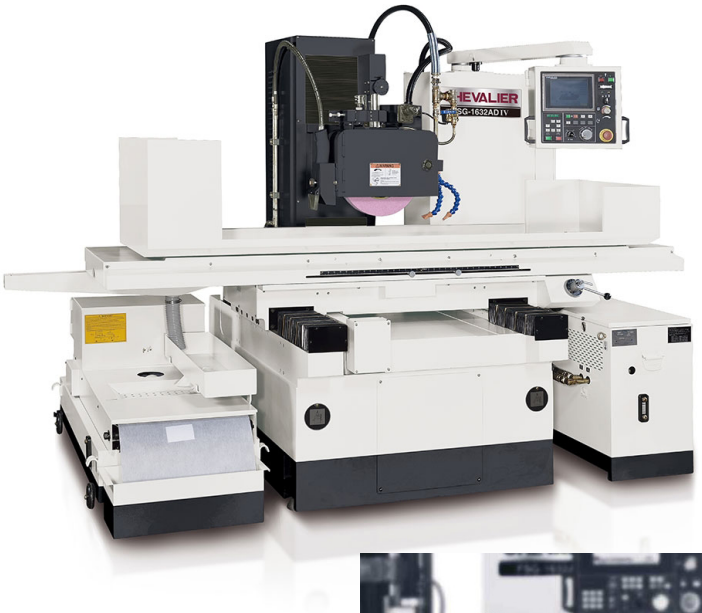
Constant service speed

The built-in driver controls spindle speed. Combined with the automatic dressing function, the driver provides constant surface speed regardless of the grinding wheel's changing diameter.

Load force detection

An operator can measure the spindle load during the machining cycle and then utilize this data to determine whether the wheel requires dressing. If an abnormal load is detected, the spindle automatically moves up to stop the cycle.







Enhanced control system

Unlike PLC control boards, the PC-based control's powerful computing power enhances the HMI for more precise control. Combined with data analysis from network connectivity, it permits managers to improve production for higher output.

Wheelhead and column system

The FSG-ADIV Series wheelhead and column system is composed of hardened and ground steel guideways with inserted roller bearings. This system is preloaded which imparts zero clearance for precise straight movement, accurate feeds and precise linear movement without deviation, even during rapid traverse movement.

Completely supported guideways

The series includes extended base guideways for crossfeed and longitudinal travel to enhance rigidity and stability, upgrade accuracy and longevity and eliminate table overhang to completely support permissible loads.

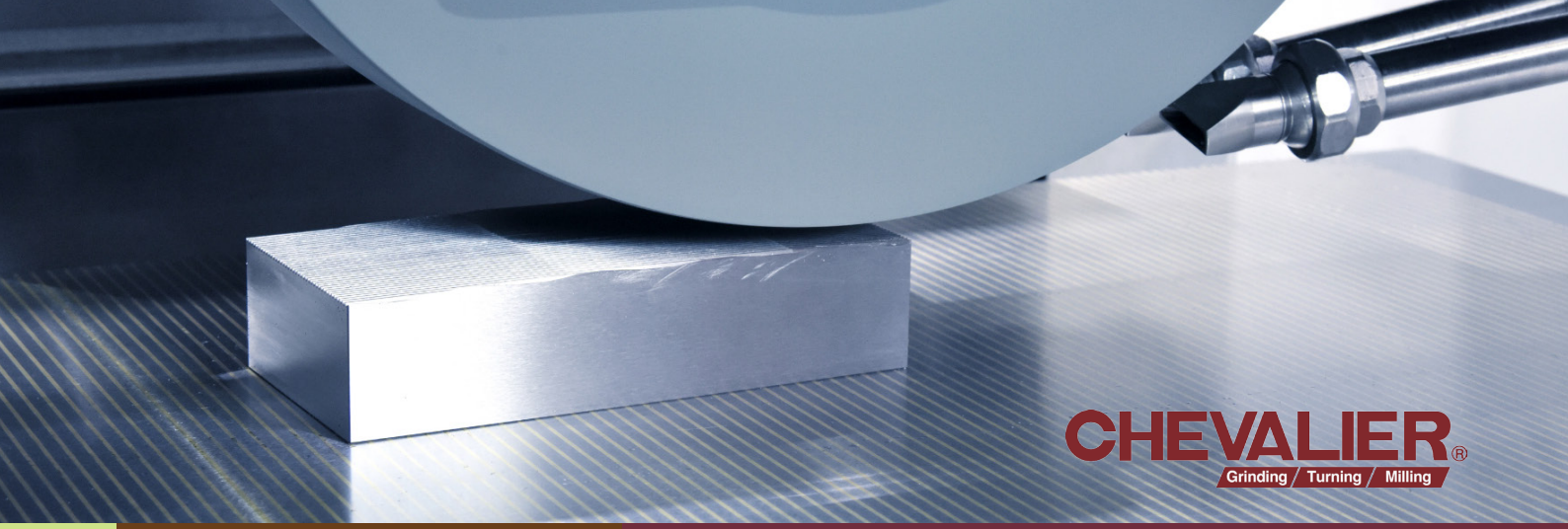
The guideway rails are composed of (S55C) steel, normalized and hardened by high frequency induction. The heat treated roller bearings are preloaded between the linear guideways, ensuring accurate positioning.

AC servo motor

The AC motor provides high torque, speed and accurate positioning with minimum increments of 0.001 mm (0.00001"). A manual pulse generator (MPG) is included for ease of operation.

The cross-feed speed is controlled by the AC servo motor for better surface finish, precise movement and wheel dressing from the table.

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



FSG-12/16 ADIV Series

Fully Automatic Precision Surface Grinder

In-machine dynamic balancing

Key Features and Benefits

Enhanced control system

Unlike PLC control boards, the PC-based control's powerful computing power enhances the HMI for more precise control. Combined with data analysis from network connectivity, it permits managers to improve production presses for higher output.

Variable speed spindle

The built-in driver controls spindle speed. Combined with the automatic dressing function, the driver provides constant surface speed regardless of the grinding wheel's changing diameter.

Load force detection

Operator can measure the spindle load during the machining cycle, then utilize this data to determine at his or her own discretion whether the wheel requires dressing. If an abnormal load is detected, the spindle automatically moves up to stop the cycle.

In-machine dynamic balancing

By manually adjusting the in-machine dynamic balancing function, operators can reduce grinding wheel vibration and eliminate the surface work-piece ripple to improve grinding quality.





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COSEN MH-270M INDUSTRIAL MITERING UTILITY BAND SAW



The MH-270M comes equipped with a manual vise and adjustable hydraulic down feed. It is an ideal band saw for the small to medium machine shop, maintenance shop, metal fabricating shop, school and for limited run production work. It is a great machine for cutting square, round and rectangular solids, as well as tubing material. Its solid construction ensures many years of reliability and accuracy at a high level of performance.

Features include an adjustable flood coolant system, a blade cleaning chip brush and stepless variable blade speed, plus the swivel saw head which allows miter cutting up to 60 degrees. Add to this a hardened worm gear for durability, carbide blade guides and bearing providing additional blade support and a hydraulic feed control with on/off valve. A heavy duty quick clamp/release vise, AutoCut mode with adjustable feed rate and Quick Approach mode make up the main features.

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

COSEN G300 RIGID HIGH PRODUCTION MACHINE



The Cosen G300 is a rigid hinge type high production machine which incorporates a massive base, sturdy saw frame with an extremely heavy duty gear box, a 5 HP (3.75 kW) drive motor, a user friendly programmable control and a modern new look! The Smart NC-100 technology is programmable up to 100 different jobs including quantity and length of cut with Automatic Multiple Indexing & Automatic Kerf Compensation. Cutting information such as blade speed, downfeed speed, cutting rate, blade life and error message is clearly displayed for ease of use.

Features include automatic kerf compensation, a "Save-a-Blade" function, rapid troubleshooting via error feedback system, double retracting vises and scrape-free vise plates. Add to this a full stroke hydraulic cylinder, split front vise, inverter-controlled infinitely variable blade speed and an automatic hydraulic blade tension device. Finally a hydraulic chip conveyor and vibration damper complete the standard features.

Optionally available are a hydraulic top clamp, blade deviation detector, 2M heavy duty roller table, blade height detector and a vise pressure regulator.

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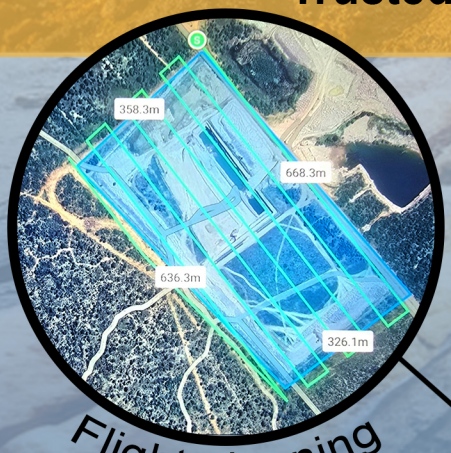
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THE EVOLUTION OF AMADA BANDSAWS & BLADES

By Donovan Hoole, Amada (UK) JHB Branch, Sales Engineer

The story of Amada bandsaw machines and blades is unique because Amada is one of the very few global manufacturers that design and produce both, the sawing machines and the blades themselves, ensuring perfect engineering synchronicity. This dual focus transforms their equipment from standalone industrial tools into highly optimized, harmonic cutting systems.

The Genesis of a Dual Approach

Decades ago, Amada recognized a critical limitation in the metalworking industry; a bandsaw machine is only as good as the blade being used. Instead of relying on third-party blade manufacturers, the Japanese engineering giant decided to develop its own metallurgy and tooth profiles. By matching the physical dynamics of the machine with the exact metallurgical properties of the blade, they unlocked unprecedented cutting speeds, precision and blade longevity.

The Evolution of the Machines

Amada's machine line-up evolved from rugged, manual workshop saws into highly automated, CNC-controlled production workhorses.

- **The HA Series Legacy:** Models like the legendary Amada HA 250/ HFA 400W Bandsaws became a standard fixture in manufacturing plants worldwide. Known for its fully automatic hydraulic operation and PLC controls, it allowed operators to program exact cut counts for continuous, unattended execution.



HA 250



HFA 400W

- **Pulse Cutting Innovation:** To defeat the friction and resistance of cutting tough alloys, Amada introduced pulse cutting technology. These machines apply tiny, high-frequency vibrations to the blade as it cuts. This breakthrough dramatically reduces cutting resistance and prevents the blade from binding or wandering. All PC Saws are operated through the on-board operator friendly CNC control, while the models in the range are the PCSAW 330, PCSAW 430, PCSAW 530 and the PCSAW 720.



The Science of the Blades

While the machine provides the brute strength and rigid frame, the Amada blade is the high-tech edge that meets the metal. Manufactured to strict quality standards in Japan using advanced Electron Beam Welding, Amada blades are built for extreme durability.

- **Bi-Metal Blades (SGLB & Protector):** Built with high-speed M-42 steel teeth, these general-purpose workhorses cut through structural steel and varied shapes without stripping teeth.
- **Carbide-Tipped Blades (Axcela Series):** For difficult-to-cut metals like titanium, Inconel and large steel billets, the Axcela G and H Series utilize carbide tips. They deliver ultra-fast cutting speeds and perfectly straight finishes where standard blades would dull or warp.
- **Material-Specific Innovations:** Expanding beyond metals, Amada now produces specialized diamond-tipped blades, designed specifically to cut delicate and abrasive materials like glass, silicon and ceramics.

BANDSAW BLADES

The Industry Benchmark

Today, the synergy of an Amada machine paired with an Amada blade remains an industry benchmark. By controlling both sides of the cutting equation, the company ensures that the blade vibration is suppressed, skew cuts are eliminated and industrial shops achieve the lowest possible cost-per-cut.

If you are researching this for a specific application, please tell me:

- What specific **materials or grades of steel** are you planning to cut?
- What are the typical **dimensions or shapes** of your workpieces?
- Are you looking for advice on **choosing a machine** or **troubleshooting a blade**?

Cont. on page 40 ☞



Amada SGLB - High Production M-42 Bi-Metal Blade for Metal Cutting Band Saw.



CMII 75/100 DG

CM DYNAMIC GUIDE HIGH SPEED CIRCULAR SAW

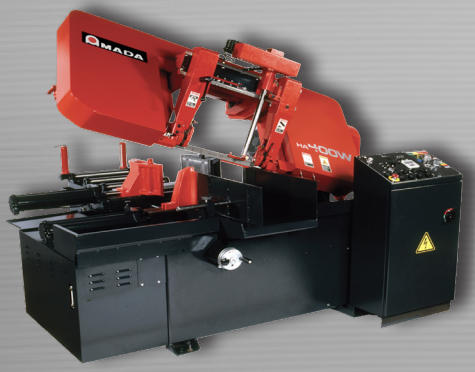


PCSAW 430X



DYNASAW 430

HFA 400W





HA 250

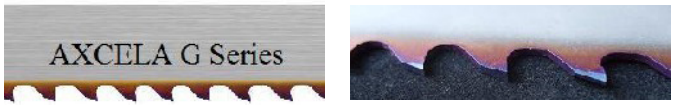
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BANDSAWS, BANDSAW BLADES, SALES & SERVICE.

MTM®

☞ *Cont. from page 38*



Amada AXCELA G Series - High-performance Carbide Tipped Blade for Metal Cutting Band Saw.

I can provide tailored technical details or recommendations based on your needs.

The Amada CMII-100DG is a high-performance, automatic carbide-tipped circular saw machine, designed by Amada Machinery for high-precision metal cutting and maximum productivity. Part of the CMII-DG series, it features an advanced horizontal linear guide saw head mechanism to optimize industrial manufacturing workflows.



CMII 75/100 DG

Key Features & Technology

- **Dyna Guide:** Patented technology that positions a movable intermediate guide close to the initial cutting point. This increases rigidity, suppresses blade vibration and minimizes surface undulations for highly precise cuts.
- **CNC Control:** Fully automatic CNC command system, allowing operators to predefine combinations of cutting lengths and quantities, making smaller production series highly cost-effective.
- **Space-Saving Design:** A modern sliding door mechanism for the front cover significantly reduces required floor and work space.
- **Improved Work Environment:** Features a round bar shooter that keeps metal chips from mixing into the finished product boxes.

CIRCULAR SAW BLADES



For each application **Amada** offers the appropriate tool. Like the machines, the saw blades are permanently improved and advanced. By using **Amada** tools on **Amada** machines, always a perfect cutting result is given.

Through the dedicated backup of Amada, the robustness of their machinery, the longevity of their blades and the reputation built over many years, peace of mind is the most important part of owning an Amada.

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

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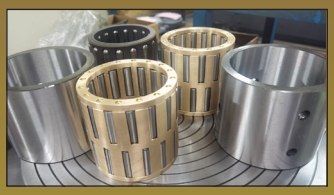
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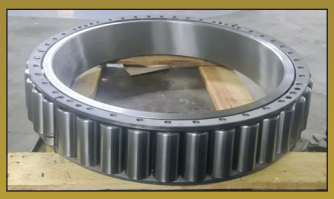
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CNC PLASMA BED MACHINE, 3000MM X 1500MM ..... P.O.A.
EFAMATIC CNC CUT OFF & ROLL CLOSE MACHINE, MODEL: C+RM25 ..... P.O.A.
COLCHESTER CNC LATHE, MODEL: TORNADO 300 ,CONTROL:
GE FANUC SERIES O-T, Z-AXIS: 500MM ..... P.O.A.
AMADA PLATE CO2 LASER CUTTER 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.

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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.
PEAR AUP LIP FINDER, MODEL SE1-8728 ..... P.O.A.
TOS IN/EX GRINDER, MODEL BU28, 700MM X 280MM SWING ..... P.O.A.
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.
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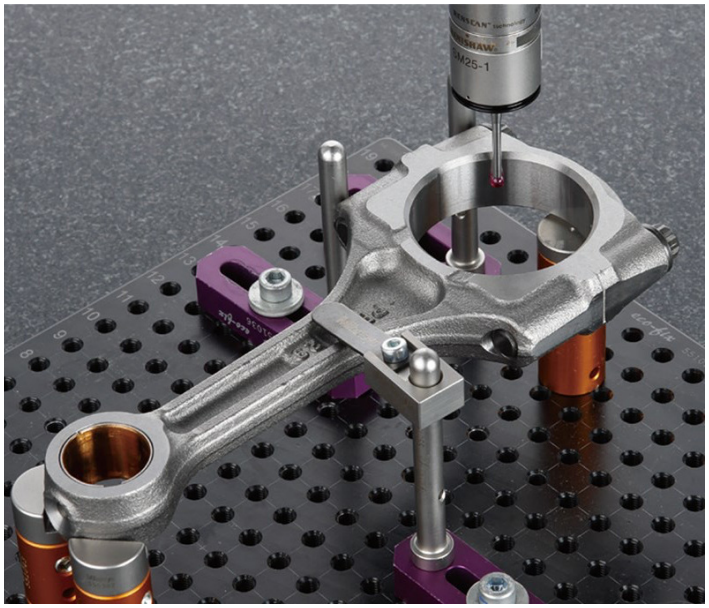
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From small to mid-sized workpieces, the CRYSTA-Apex V line-up covers it all and is available in many different sizes. The advances in accuracy, speed and versatility really shine through. With a chassis featuring bold colours, the design conveys cutting-edge capabilities and creativity befitting a precision measuring instrument of the IoT age.

The series provides accuracy that is unmatched by any previous general-purpose measuring machine, including real-time temperature compensation, high accuracy of 1.7 µm, repetitive accuracy and rapid measurement regardless of shape; add to this high-speed optimal path scanning, active scanning and a huge line-up of CMM probes, including scanning and non-contact probes.



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EUROBLECH 2026 PUTS SMARTER INVESTMENT, RESOURCE EFFICIENCY AND PRODUCTION RESILIENCE IN FOCUS

Visitors can now secure their ticket for the world's leading sheet metal working technology exhibition, taking place from 20–23 October 2026 in Hanover.

Visitor registration is open for EuroBLECH 2026, taking place from 20 to 23 October 2026 at the Hanover Exhibition Grounds. At the 28th edition, visitors will meet leading manufacturers, specialist suppliers and technology providers from across the full sheet metal working value chain, with live machinery demonstrations, technical world premieres and hands-on product discovery offering a close-up view of the solutions shaping modern production.

Under the theme **"For a Stronger Future – Smart & Sustainable Production"**, EuroBLECH 2026 will focus on the technologies helping manufacturers improve productivity, reduce resource use, strengthen supply chains and make better investment decisions. Across 15 technology sectors and 8 exhibition halls, the exhibition will cover the full spectrum of sheet metal working technology, following a 2024 edition that welcomed 1,317 exhibitors and 38,946 visitors from 114 countries, with 81% of visitors involved in purchasing decisions.

Visitors will be able to explore solutions from exhibitors including Adige, AIDA, Amada, ArcelorMittal, Bodor, Bystronic, EAGLE, Ermaksan, LVD, Motofil , MVD, Prima Power, Salvagnini, TRUMPF, Valk Welding, Voortman and Yamazaki Mazak, alongside a broad international line-up covering machinery, automation, tooling, forming, joining, surface technology, digital production, subcontracting and more.

"Manufacturers have more choices than ever, but the real challenge is understanding, which solutions will deliver the greatest value for their operations," said Evelyn Warwick, Event Director for EuroBLECH on behalf of RX. "EuroBLECH 2026 brings the industry together so visitors can see solutions in action, compare approaches, speak directly with technical experts and make informed investment decisions based on their own production priorities."

More ways to discover, compare and connect

EuroBLECH 2026 offers visitors more ways to explore innovation, find specialist suppliers and make their time at the exhibition more productive.

The new **Innovation Zone | Advanced Manufacturing** will spotlight technologies launched within the past 12 months, giving visitors a close-up view of some of the latest developments in machinery, automation, smart manufacturing, tooling innovation and digital production.

New specialist areas, including the **Job Shop & Subcontractors Market, Tooling & Forming Solutions Spotlight** and **Laser, CNC & Cutting Solutions Spotlight,** will help visitors quickly find subcontracting partners, tooling and forming expertise, and laser, CNC and cutting technologies.

Visitors can also book **Guided Tours** through the online ticket shop, with expert-led routes covering priority topics and sectors including **Smart Manufacturing and Resource-Efficient Production** and **Market Opportunities: Electronics, HVAC, Aerospace and Defence.**

The **EuroBLECH Awards** and **Award Trails** will spotlight technical excellence in smart and sustainable sheet metal working, helping visitors discover recognised innovations across the show floor.

On **Friday 23 October, Careers Day** will give students, apprentices and young professionals free admission and a dedicated opportunity to explore career paths, meet hiring companies and engage directly with potential future employers. The revived **Visitor App** will help attendees plan their route, bookmark exhibitors and make the most of their time onsite.

"EuroBLECH 2026 is designed to support a more focused and productive visitor experience," added Warwick. "From dedicated feature areas and guided routes to expert-led content and digital planning tools, visitors will have clearer ways to discover relevant solutions, understand key industry developments and connect with the suppliers shaping the future of sheet metal working."

A new expert-led conference programme for 2026

EuroBLECH 2026 will feature a dedicated conference-style programme on the NextGen Technology Stage in Hall 27, with access to all sessions included in the exhibition ticket. Visitors will hear from industry experts, innovators and technology leaders on the technologies and pressures reshaping sheet metal working, from AI, automation and smart manufacturing to sustainability, energy efficiency, circular production and workforce development.

Sessions will focus on practical questions facing manufacturers now, including how to make smart production deliver real value, where AI is already working, how to reduce waste and energy intensity, and how suppliers can respond to changing buyer expectations. Highlights include From Smart Factory Hype to Shopfloor Reality, AI in Sheet Metal Production: What Works, What Doesn't, What's Next, Energy Efficiency and the New Economics of Sheet Metal Production and What Buyers Really Want from Sheet Metal Technology Suppliers.

In addition, EuroBLECH 2026 will host the **BME Buyer Day on Thursday 22 October** in the Convention Centre. Organised with Bundesverband Materialwirtschaft, Einkauf und Logistik (BME), the dedicated procurement programme will feature networking, presentations and panel discussions on purchasing KPIs, supply chain management, steel market developments, economic security, CBAM and AI-supported product costing.

Plan your visit

Visitors can now register for EuroBLECH 2026 and start planning their time at the exhibition. Early registration allows visitors to review exhibitor information, identify relevant technologies, explore conference sessions and prepare for a focused four days in Hanover.

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CAPE TOWN MANUFACTURING SUMMIT 2026

Following the continued success of the national Manufacturing Indaba, we are delighted to introduce the Cape Town Manufacturing Summit, presented in partnership with the City of Cape Town.

Taking place on 11 November 2026 at the CTICC, Cape Town, the Summit extends the reach of South Africa's leading manufacturing platform by bringing together manufacturers, investors, policymakers, industry leaders and technology providers to explore the investment, trade and industrial growth opportunities that exist within the Western Cape.

The Western Cape has established itself as one of Africa's most competitive manufacturing regions, supported by world-class infrastructure, strong export capabilities, innovation-driven industries and a business-friendly investment environment.

The Cape Town Manufacturing Summit will showcase these strengths, while facilitating meaningful dialogue on industrial development, localisation, advanced manufacturing, skills development, export growth and the partnerships needed to accelerate economic growth.

As an extension of the flagship Manufacturing Indaba in Johannesburg, the Summit provides an additional platform for manufacturers and solution providers to connect with key decision-makers, strengthen existing relationship and unlock new business opportunities within one of South Africa's most dynamic manufacturing economies.

We are pleased to invite you to participate in the Cape Town Manufacturing Summit 2026. Whether as a delegate, sponsor, exhibitor, or speaker, this is an opportunity to position your organisation at the forefront of manufacturing growth and investment in the Western Cape.

Join us on 11 November 2026 at the Cape Town International Convention Centre (CTICC) as we help shape the future of manufacturing in the Western Cape and beyond.

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GOVERNMENT VIEWS GREEN HYDROGEN AS PART OF A BROADER INDUSTRIALISATION AGENDA

The Minister of Trade, Industry and Competition, Mr Parks Tau says government views green hydrogen as part of a broader industrialisation agenda and that green hydrogen is not the story, but industrialisation is the story. Tau was speaking at the Africa Green Hydrogen Summit recently taking place in Cape Town, Western Cape.

According to Tau, hydrogen is one of the tools together with sustainable aviation fuel, green chemicals and green shipping fuels, advanced manufacturing and new export industries that will catalyse South Africa's reindustrialisation.

"These are the opportunities that matter. These are the industries that will determine South Africa's competitiveness in the decades ahead. Our ambition is clear. We must export more value and less raw potential. We must move up the value chain. We must become producers, not merely providers of resources," said Tau.

Tau said through the Just Energy Transition Investment Plan (JET-IP) programme management office at the Industrial Development Corporation, government have identified twenty-four strategic integrated projects, several already through pre-feasibility, backed by forty million euros from Germany's Kreditanstalt für Wiederaufbau (KfW) Development Bank.

"In August, Climate Fund Managers closed the first R3 billion of the South Africa Green Hydrogen Fund, anchored by the European Commission through the Global Gateway commitment



The Minister of Trade, Industry and Competition, Mr Parks Tau speaking at the Africa Green Hydrogen Summit in Cape Town, Western Cape.

secured with the European Union at last year's G20. That same Global Gateway has put a further R628 million in grants on the table directly. R490 million to leverage hydrogen infrastructure investment, projected to mobilise R10 billion more, and R138 million to help Transnet green its own operations," he said.

Tau pointed out that South Africa's industrial transition pathways point to tens of thousands of additional jobs and billions of rand in economic activity over the years ahead.

"I have continuously stressed the need for us to work as a region to build this prosperity. Through platforms such as the Africa Green Hydrogen Alliance, we are strengthening cooperation across the continent, because no single African country will build this economy alone, but together we can build a scale that makes Africa's offer to the world impossible to ignore," he added.

Tau revealed that through the Critical Infrastructure Programme Fund, the Department of Trade, Industry and Competition (the dtic) is supporting Hive Hydrogen in developing South Africa's lighthouse Green Hydrogen project, the Coega Green Ammonia Project.

"This will not only benefit the region but will also contribute to the broader economic landscape of South Africa. This funding announcement today is particularly significant as it practically puts in motion the Decarbonisation pillar of our Industrial Development Strategy. Hive Hydrogen concludes financial due diligence unlocking R12.5 million of R25 million project development funding with a further funding application for R25 million to be submitted at financial close" he said.

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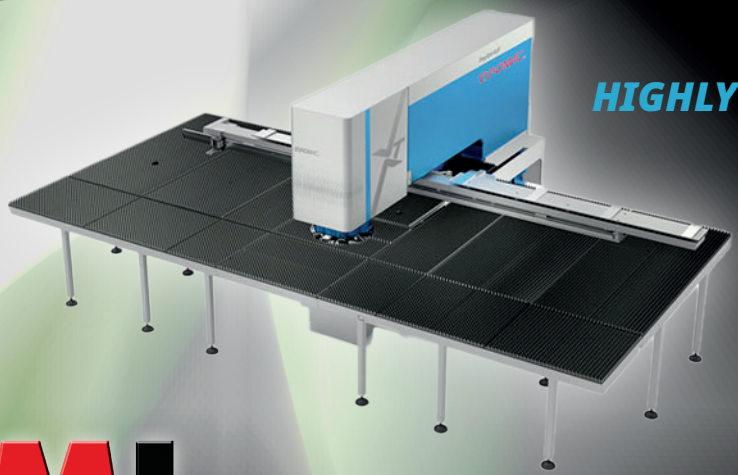
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AUTOMECHANIKA JOHANNESBURG BUILDS CONTINENTAL MOMENTUM AS REGIONAL ROADSHOWS SET SIGHTS ON GALLAGHER CONVENTION CENTRE

Automotive aftermarket buyers, workshop owners, and fleet operators from across Southern Africa are gearing up for the continent's premier automotive trade event: Automechanika Johannesburg 2026.

Scheduled to take place at Gallagher Convention Centre from 27 to 29 October 2026, the international trade fair serves as the flagship event connecting regional trade buyers directly with leading global parts manufacturers, tier-one replacement component brands, advanced diagnostic tool specialists, and workshop equipment suppliers.

"Automechanika Johannesburg serves as the ultimate catalyst for regional businesses seeking to seize emergent aftermarket opportunities and secure reliable supply partnerships," states Michael Dehn, Managing Director of Messe Frankfurt South Africa.

Delegates visiting Automechanika Johannesburg 2026 will gain direct, face-to-face access to a wide spectrum of international pavilions and premier component brands spanning powertrain components, braking systems, suspension and steering, workshop hydraulics, tyres and batteries, automated collision repair equipment, and cutting-edge digital diagnostics.

For regional importers, distributors, and procurement managers, the three-day platform offers an unmatched environment to negotiate direct dealership agreements, bypass intermediate supply tiers, secure competitive wholesale terms, and identify alternative sourcing routes in an increasingly dynamic aftermarket.

Regional Momentum Gathers Pace

Decisive regional momentum for Automechanika Johannesburg continues to be garnered through the Automechanika Africa Connect roadshow series, which recently engaged automotive industry bodies, parts distributors and commercial fleet operators in Zambia and Zimbabwe.

Automechanika's roadshow initiatives are specifically designed to foster cross-border trade, establish durable supply chains within the Southern African Development Community (SADC), and showcase the tangible commercial value that attending Automechanika Johannesburg delivers to regional buyers.

"The Africa Connect roadshows underscored the urgent need for aftermarket businesses to modernise their service offerings and supply capabilities in response to rapid technological transformation across global supply chains", continues Dehn.

Addressing delegates in Lusaka and Harare, keynote speaker Greg Cress, Principal Director for Automotive and eMobility at Accenture South Africa, delivered a presentation examining the 'Five Forces Driving Unprecedented Change in Automotive in 2026.'

Cress's presentation linked the evolution of battery chemistry, autonomous driving, digital infrastructure, artificial intelligence, and software manufacturing to practical commercial opportunities for the African continent.

"African raw material producers hold an extraordinary advantage to supply global battery production lines," said Cress. "Our local manufacturing



hubs can deliver tailored electric mobility solutions for long-haul freight, regional mining operations, and public transport fleets across Southern Africa," he added.

Cress's presentation also highlighted major breakthroughs in energy density and charging speeds that will redefine commercial transport. He highlighted how next-generation solid-state batteries and ultra-fast charging systems are achieving ranges exceeding 1 500 kilometres on a single charge. This technological leap overcomes historical limitations regarding vast travel distances and electrical grid constraints across key Southern African development corridors.

Autonomous safety features and Vehicle-to-Everything connectivity form the second and third forces reshaping the automotive industry. With automated systems recording higher safety levels than human drivers globally, the adoption of Advanced Driver Assistance Systems (ADAS) presents lucrative commercial opportunities for regional businesses.

Bringing It All Together

"Our Africa Connect engagements confirmed that automotive enterprises across Southern Africa are eager to expand their supplier networks, adopt modern diagnostic capabilities, and source proven replacement components directly from world-class brands. The upcoming show at Gallagher Convention Centre is engineered to deliver exactly those commercial connections under one roof," Dehn states.

"By uniting strategic forward-looking insights with hundreds of exhibiting suppliers, Automechanika Johannesburg 2026 stands ready to equip regional trade buyers with both the physical inventory and technical expertise needed to thrive in an evolving automotive landscape," he concludes.

Registration for trade visitors is now open, and industry professionals are encouraged to secure their free trade visitor tickets ahead of the event.

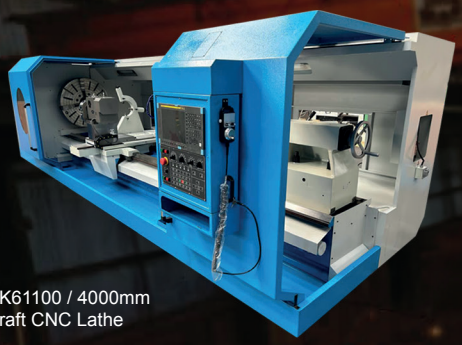
For more information about exhibiting Automechanika Johannesburg 2026, please visit www.automechanikasa.co.za or contact Tracy Gounden at tracy.gounden@za.messefrankfurt.com

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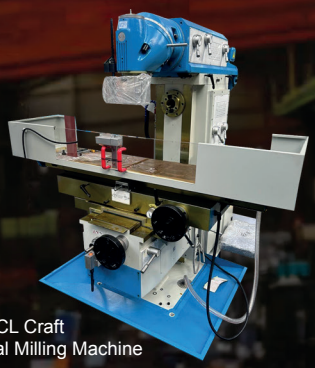
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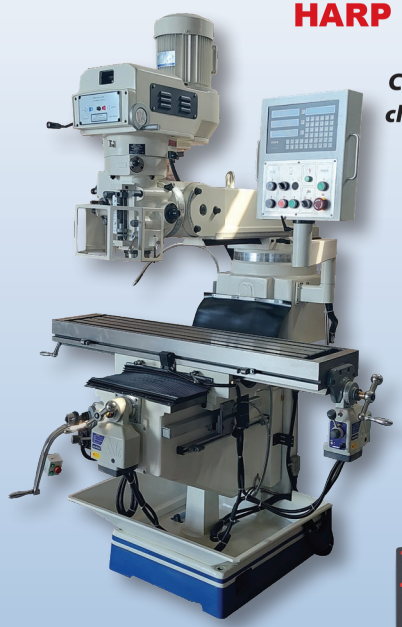
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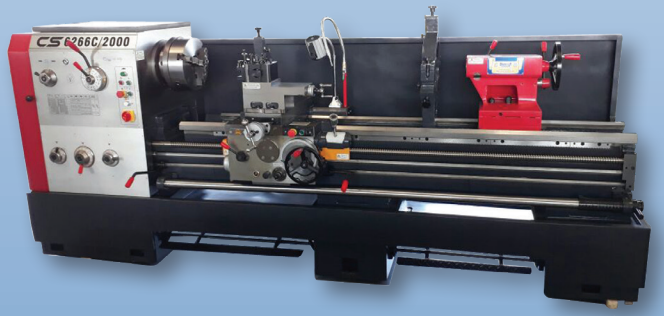


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