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Machine Tool Market
SOUTHERN AFRICA
July/August 2020
Volume 29 No.4

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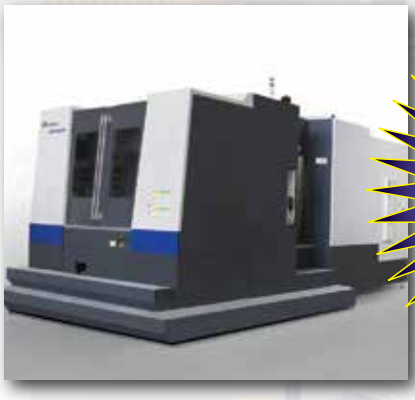

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SOUTHERN AFRICA

JULY/AUGUST 2020 Vol. 29 – No. 4

Proprietors and Publishers:
MTM Publications (Pty) Ltd
Reg No. 2005/030589/07

Address
1st Floor Fairland House, 193 Smit Street
Fairland 2195
PO Box 2434, Northcliff, 2115, South Africa
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Subscription Rates
South Africa:
R 300-00 (one year) V.A.T. included

Africa:
On application

Overseas:
On application

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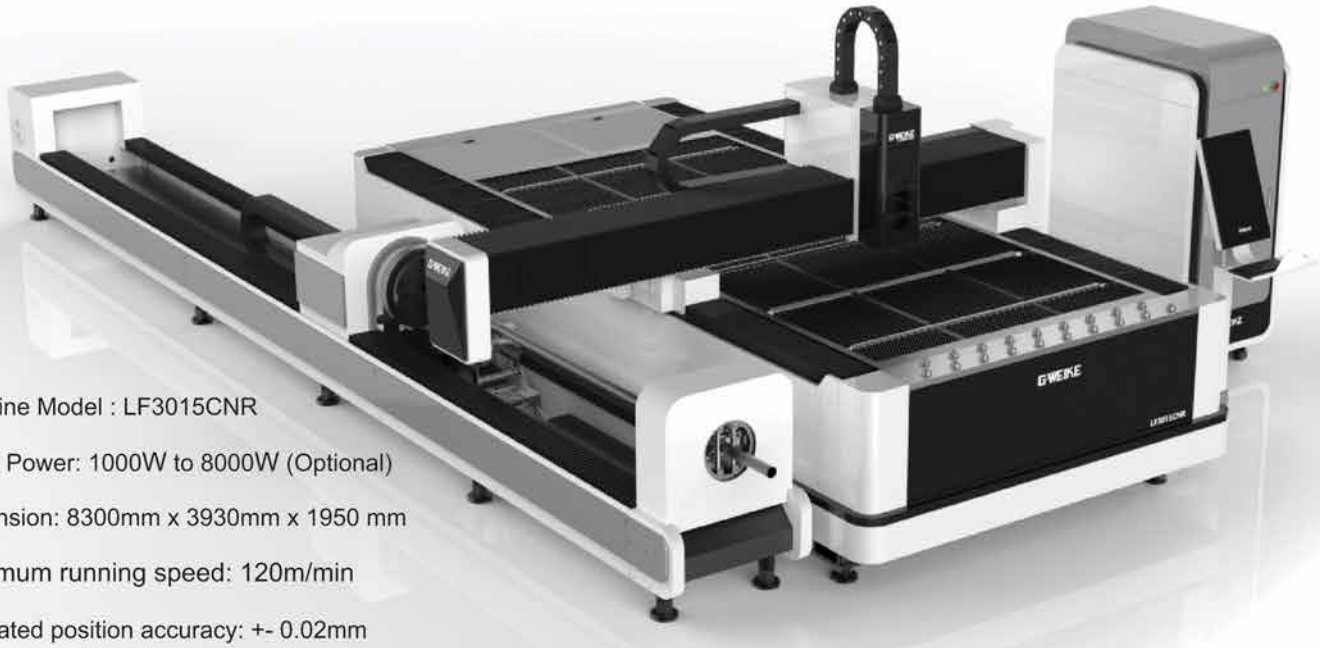

- Machine Model : LF3015CNR
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- Maximum running speed: 120m/min
- Repeated position accuracy: +- 0.02mm
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- Working area: 3000mm x 1500mm
- Repeated position accuracy: +- 0.02mm
- Maximum running speed: 80m/min

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CUTTING-EDGE BANDSAW TECHNOLOGY – AMADA

By Barry Page

No two customers' needs are exactly alike. Finding the right solution means thoroughly understanding objectives and configuring a solution that matches them precisely. Our engineers have decades of industry experience which promote achieving specified goals with a process that fits and enhances a customer's work flow.

From the early beginnings of bandsaw machinery produced by Amada, (many of which are still running today), Amada has strived to offer machines that not only meet customers' needs, but exceed them by offering features that were once considered impossible.

The technology of the bandsaw demonstrates the ability and limitations of the blade. As blades advance in technology, so do the machines utilizing them. Amada, as a proud manufacturer of both the machines and the blades, continues to research these developments and incorporates customer feedback to produce constantly evolving solutions.

Amada supplies bandsaw machinery and blades, such as the HK / HD series for mitre cutting, the semi-automatic H series, fully automatic HA / HFA series and the VM vertical series. The latest bandsaw technology is reflected in models such as the Dynasaw 430, the PCSAW with pulse cutting technology and CMB high speed circular saws.

Some features include out of square cutting detection, motion detectors to monitor the blade for jamming or breakage while cutting and quick approach arms. Add to this no work limit switches and work lights, hydraulic blade tensioning, variable blade speed control, vice pressure control units and positively driven wire brushes. 9 times feed for cutting long lengths and cut-off counters ensure the correct number of cuts. All these features, assist semi-skilled workers in the operation of the machines.

Certain models can be left to run unmanned on larger batch runs, thus allowing staff to do other important jobs at the same time. Take-up conveyors and tripod stands are available making material handling simple during the loading and cutting process.

Models available start with the entry level of 250mm capacity, which are highly popular and favourably priced. With larger steel suppliers all utilizing Amada bandsaws daily, testimony is given to their accuracy, reliability and longevity. Cutting accuracies are obtained right down to 0,2mm. With such accuracies, the need for secondary machining processes is greatly reduced and in some cases eliminated.

The latest additions to the Amada bandsaw range is the PCSAW, with either single pulse cutting action or double pulse cutting action. The PCSAW series is designed to offer high cutting rates, high precision, low noise and long blade life.

Vibration has always been an unwanted characteristic of metal sawing when cutting too fast. It leads to decreased blade life, noise and uneven or inaccurate cutting. By introducing a controlled pulsating motion to the blade through either an induction motor or a servo motor, all unwanted vibrations are eliminated and most efficient metal cutting is achieved. Blade temperature is reduced considerably during the process, and this together with positive chip removal through a twin wire brush system and a large area chip conveyor all enhance blade life and reduce running costs. All PCSAW bandsaws are operated through the on-board user-friendly CNC control.

The HPSaw (High Performance Saw) is possibly the fastest bandsaw in its class with the latest in cutting speed innovation and the ability to cut at up to 1.5 times faster than the high speed circular saws.

The specially designed AXCELA HP1 blade for this machine also reduces material wastage by up to 60% and guarantees accurate cutting.

Circular sawing machines are the optimal technology for realizing reduction in cycle time and high-precision cutting needed for steel bar cutting at high speed. An automatic loading table for continued cutting operation is supported by a CNC powered cut-in control for ease of operation. In perfecting functionality of these machines, Amada has developed a unique carbide tip circular blade that cuts cleanly, generating virtually no burrs.

A full range of bi-metal bandsaw blades are produced by Amada to compliment machine technology. As mentioned previously, *a bandsaw demonstrates the ability and limitations of a blade.* This means that a machine is only as good as the blade being used. Amada blades have earned the reputation of extreme reliability and longevity. All blades are manufactured in Japan to the most stringent quality standards and utilizing the latest in electron beam welding methods. These measures ensure that premature blade breakage is almost unheard of. The comprehensive range of blades available is tailor-made for all types of cutting conditions on all types of steels and profiles.

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

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KASTO HIGH-PERFORMANCE BAND SAW REDUCES CUTTING TIMES BY UP TO 50 PERCENT

The metal sawing and storage technology specialist KASTO offers a high-performance band saw, the KASTOwin pro AC 5.6.

Users will appreciate its short cutting times, long tool life and intuitive operation. The fully automatic machine is optimized for bimetallic and carbide blades and can be applied in areas such as the steel trade, steel production, forging mills, machine manufacturing and the automotive industry. Besides helping to reduce tool costs, it significantly increases production speed and efficiency. Depending on the type of blade, cutting times can be reduced by 50 percent and more.

The KASTOwin pro AC 5.6 is designed for a wide range of applications and delivers top performance with both carbide and bimetallic saw blades. An important feature is its innovative feed system, which is controlled by means of two ball screw spindles, each with a servo drive for precise, infinitely variable control. The KASTOwin pro also has a retraction unit on each side for lifting the band from the surface when the saw head moves back. This makes for particularly efficient, exact sawing with minimal tool wear.

The KASTOwin pro AC 5.6 is driven by an 11-kilowatt frequency-controlled motor, which provides plenty of capacity for use with carbide blades. The cutting range is 560mm and the smallest dimension to be cut is 25 x 25mm. The shortest residual length is ten millimetres for individual offcuts and 35mm for automatic operation, enabling operators to reduce waste to a minimum. Two electrically driven plastic brushes keep the band free of chips. They are easy to replace and are automatically adjusted throughout their service life. The sawing unit has a heavy, torsionally rigid welded structure with vibration-optimized ribbing, ensuring quiet operation with shorter cutting times and a long tool life.

The KASTOwin pro AC 5.6 also has a powerful coolant pump and a large coolant reservoir so that difficult-to-machine materials can be cut with minimal tool wear. In addition, this fully automatic saw comes with EasyControl, a high-performance control unit. It is easy to use and reduces idle times in automatic operation for maximum cutting performance. All parameters can be optimized to match the type of blade being used.

The fully automatic machine is optimised for bimetallic and carbide blades and can be applied in areas such as the steel trade, steel production, forging mills, machine manufacturing and the automotive industry.

MORE OPTIONS FOR THE WORKSHOP

Depending on requirement, users can choose between manually operated, semi and fully automatic variants – and of late, also between different cutting ranges. To achieve this, KASTO is extending the range by three further models.

The KASTOmicut is designed for cutting tubes, sections and solid materials to length and for mitre cutting. Workshop operators benefit particularly from the high cutting accuracy and quality with different materials and the attractive price-performance ratio of the saws. In 2016, KASTO presented the first models of the new series with a cutting range of 260mm for round material and 310 x 260mm for flat material. Users can choose between the manually operated base model KASTOmicut P 2.6, the KASTOmicut E 2.6 with hydraulically controlled saw feed, the semi-automatic KASTOmicut U 2.6 with hydraulic material clamping and the fully automatic variant, the KASTOmicut A 2.6. With its intelligent accessories, this enables efficient, extensively unattended operation.

Newly incorporated into the portfolio, KASTO now has two models with a larger cutting range: Die KASTOmicut E 4.6 saws round material up to 335mm diameter and flat material with dimensions up to 460 x 335mm. It is specially designed for single-sided mitre angles and is suitable for cuts from 0 to +60 degrees. The saw has a hydraulically controlled feed. Blade and material tensioning is carried out mechanically. The cutting speed can be continuously adjusted between 20 and 110 metres per minute. This opens up a wide range of possibilities for the user with different material qualities.

With the KASTOmicut U 4.6, users can even process flat material up to 520mm wide. With this saw, the material is also clamped by means of a horizontal hydraulic vice. This simplifies handling and increases the output in the case of small batches. The continuously adjustable cutting speed lies between 12 and 150 metres per minute. Like the smaller models of the KASTOmicut range, mitre cuts from -45 to +60 degrees are possible. The mitre angle can also be continuously adjusted. A heavy and torsionally rigid welded structure for the saw frame provides extremely stable support for the saw blade, ensuring excellent cutting quality even with hard-to-machine materials.

KASTO has extended the range with the addition of the KASTOmicut P 1.8. The saw has a cutting range of up to 180mm and is likewise suitable for straight and mitre cuts from 0 to +45 degrees. It features manual material clamping by means of an easy-to-operate and easily adjustable clamping device. The saw blade is also tensioned manually. The feed rate is determined by manually guiding the saw frame and a cutting rail serves as material support. An efficient three-phase motor delivers a drive power of up to 1.5 kW and ensures high cutting quality. Like other models in the KASTOmicut range, the saw also scores with its small dimensions and excellent accessibility. It can be easily picked up by a lift truck or forklift and positioned as needed.

Depending on the design, the shortest possible cutting length is six to ten millimetres and with a remnant piece length of 15 to 30mm for individual cuts, users can make maximum use of the material to be sawn. A highly efficient worm gear mechanism provides top performance and the sophisticated design ensures a constant cutting force for excellent results with all materials.

For more information, please contact Retecon – Tel: 011 976-8600.

KASTO*win*

KASTO*win* Series
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- Quick motion using servo drive and ball screw spindle for the material feed and the linear guided saw frame
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FOR MORE INFORMATION PLEASE CONTACT MARC EDWARDS

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MTMA

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EVERISING FULLY AUTOMATIC BANDSAWS

Everising has four pivot-type bandsaws in its S-250HB – S 460HB range. The bandsaws feature full PLC control of all electrical and hydraulic functions. The raising and lowering of the cutting head is controlled by a single lifting cylinder which makes for quick, efficient operation. Work-pieces are secured during cutting by a hydraulically controlled dual-vice clamping system.

Blade tension, a factor that can extend the life of a blade, on Everising's S machines is controlled hydraulically for optimal blade life. Blade speed is controlled by an inverter giving infinitely variable speeds of between 20 to 100 m/min. The machines also feature automatic shuttle-type feeding systems.

A pre-set counter shuts off the S Series bandsaws after a given number of items have been cut, while an idler-wheel motion-detector shuts down the machine should the blade stall or break. In addition, the saws detect when stock has run out and automatically shut down.

In its column type H Series bandsaw range, Everising offers 11 different models. These range from the H-250HA with a 250mm cutting capacity to the large H-1100HANC capable of cutting workpieces of 1000mm x 1100mm dimension. The machines at the larger end of the range have progressively more features, such as the ability to use tungsten-carbide tipped blades. However, all of the H series bandsaws are well-suited for heavy duty cutting applications as their column type design allows for maximum cutting stability.

Everising's H series bandsaws are well-suited for heavy duty cutting applications as their column-type design allows for maximum cutting stability.

Everising's S-250HB – S 460HB range of bandsaws features full PLC control of all electrical and hydraulic functions.

Should the blade on an H series machine break, the machine will automatically shut down to protect both the operator and the machine. The bandsaws are fitted with automatic chip conveyors which keep the inside of the machine clean and save on operator time. In terms of the operator's time, the H series are fitted with user-friendly NC touchscreen controls with a self-diagnostic control system. As with the S series, the H series' hydraulic system and electrical devices are controlled by PLC.

When there is need to cut bundles of steel rod, on the H series S-250B to the H-460 HB models, a hold-down device ensures that the material being cut stays secure in the machine thereby offering consistent quality. For larger work-pieces, the bandsaws in the H series are equipped with a hydraulic full-stroke, dual-vice clamping system.

For machines capable of cutting diameters greater than 700mm, the guide arm travels on linear guide-ways for greater stability during cutting. On the larger H Series models, an anti-vibration roller not only eliminates vibration but extends blade life as well. The anti-vibration roller and the saw blade clamp are automatically adjusted.

Optional H-Series devices feature an out-of-square detection system which automatically shuts the machine down while adjusting dual wire blade cleaning brushes which also serve to extend blade life. Everising's automated functions allow for a minimum of skilled supervision allowing workers to be deployed to more productive activities.

ECLIPSE HACKSAWS FROM FIRST CUT

Represented in South Africa by First Cut and with a proud history of hacksaw frame and blade manufacture stretching back nearly 100 years, Eclipse hacksaw blades and frames have become synonymous with engineering excellence and continuous product development.

For example, in terms of development, the distinctive ground tooth profile of the Eclipse Bimetal blade produces a faster and more aggressive cutting action, that requires less effort and is more efficient. Their ergonomic design also makes them a pleasure to use. Whatever the application or the metal that needs to be cut, Eclipse will have exactly the right blade in its range.

For more information, please contact First Cut – Tel: 011 614-1112.

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- BANDSAW MACHINES
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8mm x 3200mm GUILLOTINE

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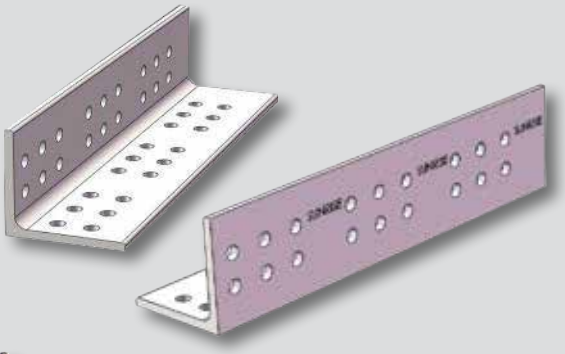
Trumph 3030 CO_2 Laser

Cutting Area: 3000 x 1500mm
Kilowatts: 3 KW

Magnum CNC Angle Punching, Marking & Shearing Line

R750 000 excl VAT



Capacity: 200 x 200 x 20mm
3 punches on each side
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JFY VT300 Hydraulic CNC Punching Machine

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With tooling

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Maximum sheet size	1250 x 2500mm	Machine type	0 - Type
Maximum sheet thickness	6.32mm	Fanuc CNC system 10.4" graphic screen	
Number of tool stations	32		
Machine weight	18 tons	0 Type body, floating clamp	

MAGNUM PRECISION MACHINE TOOLS

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CHAMFMILL FRONT AND BACK CHAMFER MILLING TOOLS

ISCAR is introducing the CHAMFMILL family of indexable milling cutters carrying PNMT 06 pentagonal inserts with five cutting edges for front chamfering and five for back chamfering, providing an economical machining solution.

The new economical cutters carry star-shaped (pentagonal) double-sided inserts with 10 cutting edges and are produced from ISCAR's advantageous IC830 SUMO TEC carbide grade.

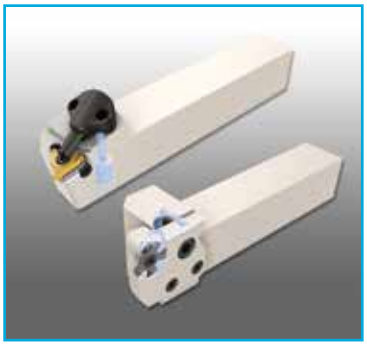
The CHAMFMILL family ensures cost-effective milling of 45° chamfers and productive machining due to the high cutting speed. Main applications include machining main engineering materials: steel (ISO P), stainless steel (ISO M) and cast iron (ISO K). The tools are intended for front chamfering, back chamfering and removing burrs, which eliminates hand de-burring. The maximum width of a machined 45° chamfer is 1.5 mm.

Two shank configurations are available: cylindrical shank and replaceable milling heads with MULTI-MASTER adaptation. The tools are available in 11.70, 16.70 and 18.70mm tool diameters and are suitable for back milling chamfers in 10mm minimum diameter holes. A polish coating ensures better chip flow and tool protection from corrosion and wear.

NEW THREADING TOOLS WITH COOLANT CHANNELS

ISCAR is expanding the range of square shank threading tools by adding SER/L-JHP tools with channels for high pressure coolant.

The use of high pressure coolant is growing as manufacturers seek ways to reduce cutting time, improve machining process reliability and achieve longer tool life. ISCAR's new JHP tools with coolant channels provide all of these advantages. High-pressure coolant lowers temperature at the cutting zone and reduces – or even eliminates – built-up edge phenomenon, especially when machining stainless steel and high-temperature alloys.

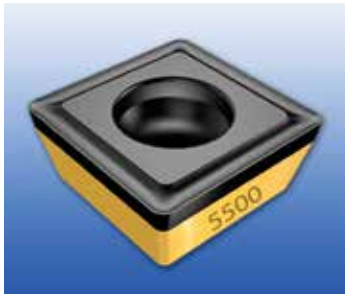


Shorter chips are easily managed, as they do not tangle around the work piece or machine parts and so there is no need to stop the process frequently. With conventional cooling, the chips usually prevent the coolant from reaching the insert rake face in the cutting zone. However, the JHP tools coolant stream is directed precisely between the insert rake face and the flowing chips, which results in a much more reliable process as well as an improved surface finish and longer tool life.

With a growing demand for JHP tools, ISCAR has introduced new TTADR/L-JHP threading adapters with high pressure coolant channels carrying TTG DECAIQTHREAD 10-cornered inserts. The adapters are designed for use with standard MODULAR-GRIP MAH…- JHP holders.

ISCARDRILL – NEW GRADE IC5500 FOR STEEL DRILLING

ISCAR is launching IC5500 – a new MTCVD grade for drilling carbon and alloyed steel (ISO P).



The new grade features a new multi-layer and special post-coating treatment to substantially prolong tool life and strengthen insert toughness, while improving operational reliability.

The new grade will be available on square inserts that are used on DR drills: 3340386 SOMX 060304-DT IC5500, 3340385 SOMX 070305-DT IC5500, and 3340384 SOMT 09T306-DT IC5500.

The inserts made from IC5500 are aimed for use only in the outer pocket of DR drills (the inner insert should be an IC908 or IC808 PVD coated insert).

The upgraded IC5500 MTCVD coating enables improved toughness, chipping resistance and thermal crack resistance, while the combination of new coating and new treatment improves overall performance and process reliability.

The coating includes a post coating treatment to reduce residual stresses and improve chipping resistance, Alpha Alumina to reduce crater wear and improve chipping resistance, a thick Al_2O_3 to improve thermal crack resistance and an intermediate layer to enhance adhesion between the Al_2O_3 and TiCN layer in the bonding area, improving peeling resistance. The TiCN layer improves flank wear resistance and the adhesion layer enhances adhesion with the substrate, preventing peeling during machining.

IC5500 provides an excellent solution for alloy and carbon steel drilling.

NEW MULTI-MASTER FACE MILLING HEADS

ISCAR is introducing MULTI-MASTER solid carbide heads, designed for face milling applications that require small diameters. The new MM FM MULTI-MASTER solid carbide face milling heads are intended for face and shoulder milling in narrow and confined areas, as well as on small milling machines or mill-turn machine tools.

MM FM MULTI-MASTER milling heads are available in 12 to 25 mm diameters, featuring 6 flutes, 3.6 to 7.5 maximum milling depth, excellent surface finish and high tooth density, which enables very fast table feed. The milling heads can be used with all MULTI-MASTER adaptation options and are less expensive when compared to solid carbide endmills

ISCAR recommends using the tools with a short overhang to achieve maximum stability, which influences surface finish and tool life.

For more information, please contact
ISCAR South Africa (PTY) LTD – Tel: 011 997-2700.

TAEGUTEC MACHINES ANY MATERIAL QUICKLY AND EFFICIENTLY

While TaeguTec has supplied the most advanced state-of-the-art cutting tools and tooling services to South African industries including automotive, mold and die, metals and electronics, the Asian metalworking giant offers a myriad of tools capable of cutting cost and increase productivity on any material.

One of the most important areas of manufacturing is hole-making and TaeguTec offers several options for companies looking to perform efficient drilling operations no matter if the factory relies upon the speed of production, the amount of savings shops are targeting, the materials being drilled or a combination of all these factors.

One of the industry's favourite choices catering for drilling into everything from alloy steel to stainless steel is TaeguTec's **DrillRush** – the versatile indexable drill that is constantly being expanded to provide dependable, optimal hole drilling performances on any material.

The various DrillRush geometries and sizes such as 1.5xD, 3xD, 5xD, 8xD and **12xD** not only increase productivity but improve tool life due to its reinforced edges and coating, which are suitably designed for optimal chip control and hole quality on any material.

TaeguTec introduced two new sizes – the 12xD drill that produces deep holes accurately, repeatedly and economically and the DrillRush **6 millimeter to 6.9mm diameter range** drill heads, which were designed to handle 1.5xD, 3xD and 5xD drilling depths.

All DrillRush products eliminate the need to remove the entire drill from the spindle in order to replace the head; a process that shortens cycle times and substantially increases productivity.

TaeguTec's **SpadeRush** line generates higher productivity and outstanding performance due to its optimized cutting edge and unique rigid clamping system.

Available as a standard drill in 3xD and 5xD for a diameter range of 26mm to 41mm, the SpadeRush's unique clamping technology enables operators to quickly change drill heads without removing the clamping screw from the holder.

For cost effective machining and higher productivity, the TopDrill line has been built to satisfy a growing market demand for flexibility and excellent performance. Also, its true 4-corner inserts are suitable for both internal and external pockets, reduces inventory and promotes cost reduction.

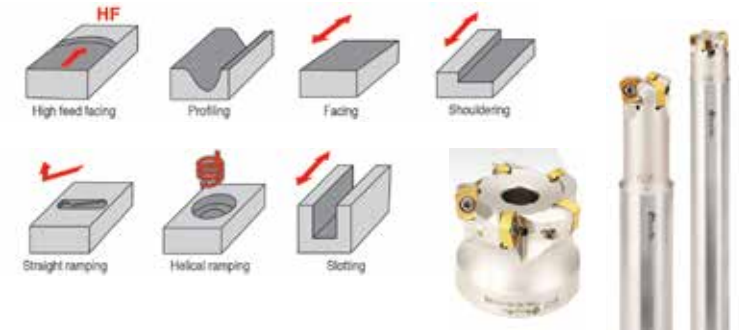
From top to bottom, the **TopDrill** has been built for improved tool life and is equipped with a new insert grade for enhanced durability.

Last but not least is the newest member of TaeguTec's drilling family, the **TwinRush** – a product that guarantees excellent performance and high productivity on large diameter holes.

The noticeable feature of the TwinRush joins together a centering insert with a pair of precise square inserts on either side in order to combine two different drill types onto one drill body and protects them with TaeguTec's TT9080 PVD multi-layered coated grade. By doing so, this double effective design increases productivity.

VERSATILE HIGH FEED MILL WITH STRONG 4 CUTTING EDGE INSERT

To meet market demand, TaeguTec has released an expansion to the CHASE-4-FEED family – BLMP 04, 11 inserts and cutters. They are, smaller double-sided four corner BLMP 04 inserts for small and high feed machining applications.



The smaller size inserts mean more inserts can be mounted to the same diameter cutters, which will greatly improve productivity over the existing BLMP 06 type under similar conditions. Available in Ø8(1z) and Ø10(2z) sizes, these are an alternative to solid end mills for roughing operations.

While both the **BLMP 11** and BLMP 13 cover a similar machining range, the BLMP 11 inserts give an advantage as they make it a finer pitch same diameter cutter for better productivity.

The cutters come in all types, including face mill, end mill and modular types.

While, as part of the new campaign, the design for the new **CHASE-4-FEED** line highlights TaeguTec's new direction, the new **CHASE-4-FEED** logo will be applied to the BLMP 06, 09 inserts and cutters as well.

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

PRODUCE MORE PARTS WITH NO NEED FOR NEW MACHINES

Walter presents the new HU5 geometry for ISO M and S materials

With the new single-sided indexable inserts with HU5 geometry, Walter has the answer to one of its users' key questions: How can more components be produced using the same number of machines? In comparison to the indexable inserts that can be used on both sides, the HU5 has a larger contact surface to the tool holder. This increases the stability and allows for greater cutting depths, feeds and a larger metal removal rate – specifically, in the practical test, this comes to 18.36 l/h instead of 10.71 l/h. In addition to the stable fit, the decisive factor behind this is the combination of the geometry and Walter Tiger·tec® Silver cutting tool materials.

The Walter HU5 geometry.

This allows for increases in tool life of up to 75 percent. The geometry itself has been specially developed for heavy roughing of stainless steels and high-temperature alloys. It is typically used for applications in the oil and gas industry, e.g. for large valves made from AISI 316 material, or in the aerospace industry with Inconel 718 or titanium materials. The main cutting edge, which is protected by a negative chamfer, prevents fractures when machining hard edge zones and optimises the performance for hard scale, e.g. of forged parts. Components with interrupted cuts and other demanding machining operations are equally feasible.

The curved cutting edge and a deep chip breaker groove produce low cutting forces with high feed rates, consequently reducing the machining temperature. The variable rake angle in the area of the corner radius allows for soft chip reforming and increases the tool life. Available in the standard basic shapes of CNMM, DNMM and SNMM, Walter rounds off its vast product range in the areas ISO S and M with the HU5 geometry. As a result, Walter now offers a total of 12 geometries in six grades as well as tools with precision cooling and ceramic or CBN inserts.

GREAT FOR LARGER BATCH SIZES

Walter presents its new TC410 Advance thread former

With the TC410 Advance HSS-E thread former, Walter is rounding off its range of threading tools – and can now offer its customers more than 200 thread dimensions and tolerances. The TC410 Advance with TiN coating can be used universally for blind and through-hole threads (metric, metric fine, UNC/UNF and G), all formable materials from the ISO material groups P, M and N as well as for ISO K and S as a secondary application. In addition to the general advantages of thread formers as well as non-cutting machining (no wedging of the tool due to trapped chips consequently higher process reliability), Walter is primarily bringing economic benefits to the fore with the new tools.

Decisive factors for this include the new geometry and special post-treatment. Innovative mould edges reduce the cutting time in the material. This reduces friction and consequently the amount of heat generated, which in turn reduces wear and ultimately increases the edge life of the tool. The post-treated, extremely smooth surface of the tool reduces the torque and additionally increases the tool life as a result. Walter offers the TC410 Advance in two variants. Without lubrication grooves or with lubrication grooves for deeper threads up to 3.5 × DN. The excellent price/performance ratio makes the TC410 Advance an attractive choice for users with medium to large batch sizes in particular. This is because it can produce more threads with the same tool.

Walter TC410 Advance thread formers.

MORE FLEXIBILITY, MAXIMUM PROFITABILITY

Milling cutters with corner radius introduced to the Walter Perform product range

With the launch of the new MC232 Perform solid carbide milling cutters, Walter is both rounding off its portfolio of products and opening up new possibilities. For the first time, the Tübingen-based tool specialists are bringing a milling cutter with a corner radius and reduced neck to the market as part of Walter's cost-effective Perform product range. The Walter range in the MC232 Perform family now includes solid carbide cutters with or without a reduced neck and with or without a corner radius in a total of 126 dimensions, of 2–20mm in diameter. The milling cutters can be used for all typical milling applications (lateral milling, full slotting, pocket milling, helical plunging, ramping) and are suitable for a variety of materials and milling strategies.

The New Walter MC232 Perform solid carbide milling cutters.

Solid carbide milling cutters with corner radii meet an important demand of the market. This is because the corner radius allows the user to better approach individual component geometries. It also improves the tool life of the milling cutter, as the edge stability is increased. The reduced neck in turn makes the milling cutter more flexible, as the user can use it with an even wider variety of cutting depths.

Other features of the Perform line have been adopted – for example, the high level of cost efficiency for small and medium batch sizes, or Walter's own WJ30ED grade, which provides a high level of wear resistance. ISO P materials are the primary application of the MC232 Perform, with ISO M and ISO K as secondary applications. The new milling cutters are likely to be of particular interest to job shops and manufacturers with frequently changing orders or quantities.

For more information, please contact Spectra Carbide Tooling Technology – Tel: 0860 23 23 23.

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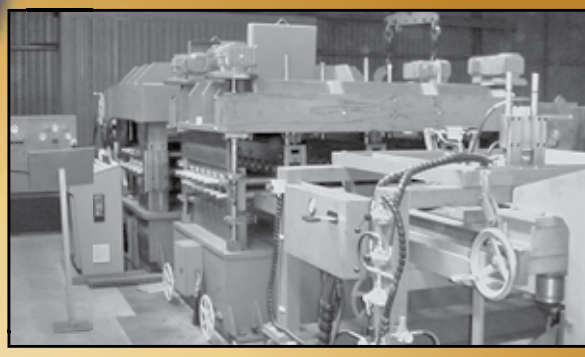

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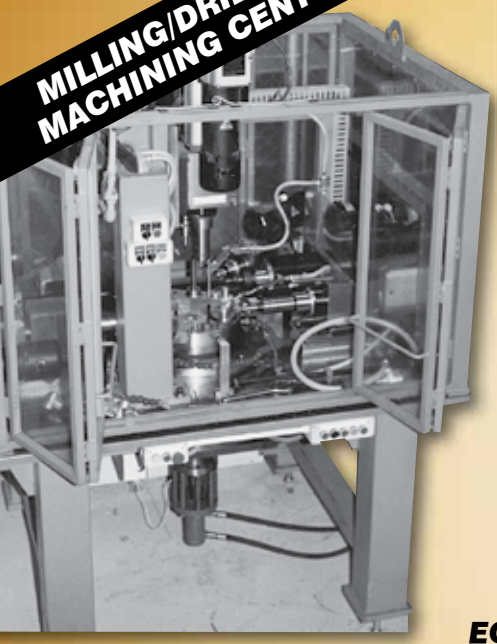

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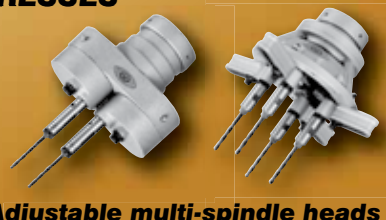

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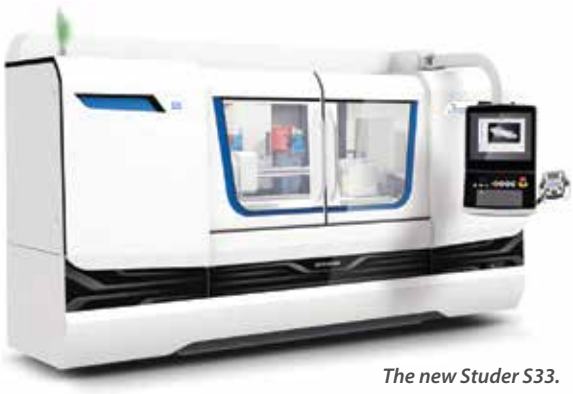
THE NEW S33 – THE GOOD VALUE SOLUTION FOR INDIVIDUAL REQUIREMENTS



The new Studer S33.

Universal and flexible are the features of the new S33 CNC universal cylindrical grinding machine from STUDER. It can grind small to large workpieces in single batch, small or large series and is available with centre distances of 400mm, 650mm, 1000mm, 1600mm and a centre height of 175mm. The changeover from grinding between centers to live spindle grinding takes place in record time. Complex workpieces are easily ground in just one clamping.

The basis for the universal cylindrical grinding machine S33 is the machine bed made of solid Granitan® S103. Thanks to its favorable thermal behavior this offers a high degree of dimensional stability, while short-term temperature fluctuations are largely compensated for by the mineral casting. STUDER has redesigned the machine base geometry and supplemented it with an innovative machine base temperature control, which ensures fast and stable production. The mounting of the dressing unit on the double T-slot of the longitudinal slide massively reduces time needed for set-up or changeover of the machine.

While the S33 is based on the STUDER T-Slide concept, which now features an extended X-axis stroke of 370mm, STUDER offers various wheelhead versions. The turret wheelhead with a 1° Hirth coupling and automatic swivel can accommodate up to two external and one internal grinding spindle and is equipped with the latest generation of contact detection. The external wheelhead with a grinding wheel right, can be manually set to 0°, 15° and 30°. The machine set-up and changeover costs can be reduced thanks to the turret wheelhead with multiple grinding wheels and the fast set-up software Quick-Set. The S33 can easily handle internal-, external- and face grinding in one clamping which leads to an even higher efficiency in complete machining. The C-Axis, with an option of either a direct or indirect measuring system, allows the grinding of forms and threads. The S33 can also be equipped with a chuck workhead, specially designed for grinding chuck parts.

More than a hundred years of grinding experience is integrated in StuderWIN, which enables safe programming and efficient use. StuderTechnology requires just a few parameters to automatically calculate precise grinding parameters in just seconds. Good quality and a stable process is assured right from the beginning. The optional integrated modules such as StuderForm, StuderThread or StuderContourBasic extend the functionality of the machine. The hand-control device PCU makes it possible to set up the machine close to the grinding process. With electronic contact detection, downtimes can be reduced to a minimum. With the standardized loader interface, the S33 can also be automated.

For more information, please contact Retecon – Tel: 011 976-8600.

HARP WAYTRAIN HORIZONTAL BANDSAWS

Harp Waytrain horizontal bandsaws are manufactured in Taiwan. The company was established in 1983, and is well known for producing high quality machines. Sizes range from 180mm diameter cutting capacity, up to 330mm diameter. Rigidly constructed, with great attention to detail, these saws are ideal for all engineering companies. Harp Waytrain horizontal bandsaws combine quality, reliability and affordability. Five models are available ex-stock, such as the UE-712A, UE916A, UE-250, UE918S and the UE-330. All machines are complete with coolant systems, blade tension control and electrics 380V/3/60.

Harp Waytrain Horizontal Bandsaw, Model 330A.

Features:

Model 330A: Capacity 90° round 330mm, rectangle 330mm x 480mm / 225mm x 530mm, capacity 45° round 255mm, rectangle 280mm x 255mm, blade size 34mm x 1.1mm x 4100mm, blade speeds (belt change) 28/40/56/78 mpm, motor 3 hp, net weight 600kg, tool box, material stopper, machine manual.

Model 250A: Capacity 90° round 250mm, rectangle 250mm x 415mm / 200mm x 450mm, capacity 45° round 190mm, rectangle 250mm x 190mm, blade size 27mm x 0.9mm x 3300mm, blade speeds step pulley 25-71 mpm, motor 2 hp, net weight 320kg, tool box, material stopper, blade speeds (belt) machine manual.

Model 918S: Capacity 90° round 225mm, rectangle 225mm x 430mm, capacity 45° round 225mm, rectangle 225mm x 295mm, blade size 27mm x 0.9mm x 3345mm, blade speeds (belt change) 82~259 mpm, motor 2 hp, net weight 420kg, swivelling saw-bow, variable speed, machine manual.

Model 916A: Capacity 90° round 225mm, rectangle 225mm x 340mm, capacity 45° round 165mm, rectangle 225mm x 165mm, blade size 27mm x 0.9mm x 3035mm, blade speeds (belt change) 25/40/51/71 mpm – motor 1½ hp, net weight 300kg, tool box, material stopper, machine manual.

Model 712A1: Capacity 90° round 180mm, rectangle 180mm x 280mm / 65mm x 300mm, capacity 45° round 110mm, rectangle 180mm x 110mm, blade size 19mm x 0.9mm x 2360mm, blade speeds (belt change) 23/33/45/65 mpm, motor 1 hp, net weight 130kg, tool box, material stopper, machine manual.

For more information, please contact Harp Machine Tools – Tel: (011) 918-5138.

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Models: CS315
CS350/CS315SA
CS350SA

HARP WAYTRAIN HORIZONTAL BANDSAW

Models: UE330A / UE250V / UE918S / UE916A / UE712A1

HARP SMTCL DOUBLE COLUMN HORIZONTAL BANDSAW

Models: DBS280 / DBS350

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NEWAY CNC VERTICAL MACHINING CENTRES

Neway CNC Equipment Co offers a cost effective range of vertical machining centres, which are manufactured at the company's modern manufacturing plants in Suzhou China.

Neway's excellent manufacturing and quality control capabilities are maximized by the use of latest equipment from well-known international brands including Zayer, Kellenberger, Starraghеckert, Swiss SIP, Renishaw and Shenck. They hold ISO and CE certification.

Neway's Chinese manufacturing operation is supported by the group's head office in Texas USA and a sales and support centre in Germany.

Neway CNC Equipment currently offers a range of moving table vertical machining centres which range in table size from 750 x 420mm to 1800 x 800mm. This range is available in the following table sizes, VM740 – 750 x 420mm, VM950 – 950 x 520mm, VM1150 – 1100 x 520mm, VM1260 – 1200 x 600mm, VM1360 – 1350 x 600mm, VM1580 – 1500 x x800mm, VM1780 – 1700 x 800 and VM1880 – 1800 x 800mm.

The VM740, VM950 and VM1150 models are fitted with BT40 spindle tapers. These three models are available as a lower specification S series with a Fanuc 0i-Mate-MD controller or a higher specified H series which are supplied with a Fanuc 0i-MD controller. The VM1260 and VM1360 models are fitted with BT 40 spindle taper as standard and can be supplied with a BT50 spindle taper as an option. The VM1580, VM1780 and VM1880 are only available as H series specification with Fanuc 0i-MD controllers and have BT50 spindle tapers as standard. With the exception of the VM740, which has a 20 tool magazine, all models in the range come with a 24 tool magazine and arm type tool changer.

The complete series of models from VM740 to VM1880 in the S and H range have linear guideways on all three axis. The additional HR series which is available in sizes from VM950 to VM1780 feature box guideways as opposed to linear guideways. Full enclosure guarding and chip conveyors feature as standard equipment across the entire range.

Factory fitted optional equipment includes 4th axis rotary tables, through spindle coolant, workpiece measuring and toolsetting probes systems. Spindle oil cooling systems and coolant water/oil separators are available on request.

To complement the range of vertical machining centres, Neway CNC Equipment offers the VM640D drilling and tapping machine. This machine has a table size of 650 x 400mm, a 16 position cam type tool changer with a 1.6 second tool change, a spindle speed of 15 000 rpm, X and Y axis rapid feed rates of 48 meters per minute and a Z axis rapid feed rate of 60 meters per minute. They come fitted with the Fanuc 0i MD controller.

Neway Vertical Machining Centre VM1150.

For more information, please contact Machine Tool Promotions – Tel: 016 931 1564.

FROM CONVENTIONAL MILLING TO CNC MILLING

In a market where skilled artisans are becoming more and more scarce, it has become necessary to look at alternative ways of machining, whether it be for general engineering, tool-making or production work.

CNC machining is quicker and certainly more accurate than conventional milling machines and there is no need for constant monitoring while in use. Taking this into account, MJH Machine Tools have a solution to suit customers' needs. Featuring an entry level CNC control, our Ctek CNC milling machine is the first step to CNC machining.

As long as the operator has basic knowledge on using a DRO, he can, within a few hours be taught how to program and run the machine. There is no need for G code knowledge as the control is conversational using a question and answer format. The software is simple to use with graphic input in basic machinist language. The control has options for standard operation modes such as drill, tap, bore, contour and pocket programming, which is ideally suited to general engineering work without a need for external programming packages.

Ctek CNC Milling Machine.

The latest Ctek's come with linear guides on all three axes for better accuracy and speed, as well as a direct spindle drive motor and an improved Z axis motor with inline break which eliminates the need for a counterbalance. The Ctek can be fitted with a 4th axis within a matter of hours and programmed from the standard Ctek control.

The Ctek range has six x-travel sizes, 800mm, 1 000mm, 1 500mm, 1 800mm, 2 000mm and 2 500mm. These machines are available in open type or fully enclosed depending on the customer's requirements. All spares are available ex stock at a fraction of the cost compared to other controls. With hundreds of these machines sold throughout South Africa since 1997, it is not surprising that Ctek CNC milling machines have been the first step to full CNC machining in many workshops.

Akira Seiki Milling Machine.

Should there be a requirement for a high performance machining centre for super fine finishing and accuracy, the Akira Seiki is the machine to consider. Spindle power ranging from 15HP on the Junior series to 42HP on the Super Vertical range and spindle speeds from 9 000rpm to 15 000rpm guarantee high quality surface finish.

Akira Seiki machines come standard with spindle oil chillers, inner spindle air chiller, coolant through spindle, pneumatic counter balance, chip screw conveyor, quick change ATC and 4th axis preparation.

For further information, please contact MJH Machine Tools – Tel: (031) 705 7514.

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Standard Cutting Oil "S2S"

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20 Litre Container
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VAT excluded

Dilute with water 20:1

Does not go "OFF" when standing for long periods in machine

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AMADA ENSIS 9KW/6KW FIBER LASER CUTTING MACHINE

ENSIS-3015AJ 9kW/6kWis designed for high-speed stable cutting over the entire range of machining, from thin to thick sheet metals, which has been made possible by the evolution of AMADA's original beam control technology (ENSIS technology) and the expansion of oscillator output from the conventional 3kW to 9kW/6kW. High quality cutting over the thick material range is achieved by overcoming problems related to fiber lasers through reduced dross and bevel and improved surface roughness.

NC equipment is provided with the AMNC 3i, which can be operated easily like a smartphone. It is adapted to AMADA IoT V-factory and visualizes machine operating results including power consumption and processing costs, contributing to performance. Furthermore, it enables smart manufacturing through maintenance and support to maximize machine capacity, as well as proposals to improve production efficiency.

AMADA's high-output oscillator provides for maximum output of 9kW/6kW to enable high-speed and high-quality cutting over the entire processing range (thin, medium thickness and thick sheet metals), based on energy saving and high-quality beams.

ENSIS technology allows the laser beam to be controlled freely into the optimum beam form according to material quality and thickness. Additionally, the auto collimation mechanism is provided as a new feature. The variable range of the condensing diameter has been expanded greatly to achieve excellent stable cutting over the entire thickness range. Furthermore, combined with a high-output oscillator, the technology enables high-speed stable cutting of thick sheet metals, cutting with reduced dross and bevel and improved surface roughness.

In addition to the new beam control technology, the fiber laser cutting machine employs Clean Fast Cut (CFC) technology and Easy Fast Cut (EZFC) technology to dramatically reduce the consumption of assist gas during nitrogen cutting, which is used mainly to cut stainless steel. It applies an original non-contact nozzle developed by AMADA that supplies assist gas at a low pressure to reduce processing costs, while maintaining cutting quality.

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

HIGH PERFORMANCE TAPS FOR HIGHER CUTTING SPEEDS AND TOOL LIFE

NORIS taps for processing a wide variety of steel alloys, cast iron and various non-ferrous alloys are well known under the names SALOREX UNI for blind holes and STABIL UNI for through-hole. REIME NORIS now extends the UNI series to high performance taps made of HSSE-PM (HSS-PS) with improved cutting geometry and TiCN coating.

NORIS SALOREX UNI – the specialist for deep blind hole threads up to 3 x D thread depth – has 42° right-hand helix flutes. These provide secure chip removal against the cutting direction.

NORIS STABIL UNI stands for the production of through hole threads up to 4 x D thread depth. The special STABIL-flutes move the chips in the cutting direction.

The drills are available in metric sizes from M3 to M20 and M8 x 1 to M16 x 1,5 in stock.

In both versions, the use of powder metallurgical high-speed steel permits higher cutting speeds while increasing tool life. The user benefits by increasing the cycle times and a reduction in tool costs. With the ability to process a very wide range of materials, additional cost of storage and tool investment can be reduced. The proven cutting edge geometries were further optimized in detail. They are specially adapted to the characteristics of the HSSE-PM substrate and the coating. REIME NORIS thus promises significant performance gains and expects especially in the production of small- and medium-sized series, the greatest economic advantages of using these high performance taps.

NORIS STABIL UNI HSS-PS TiCN in machining situation through hole: Chips are evacuated in the cutting direction.

For more information, please contact Duncan Macdonald – Tel: 011 444-4345.

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CS6266C 2000 x 3000

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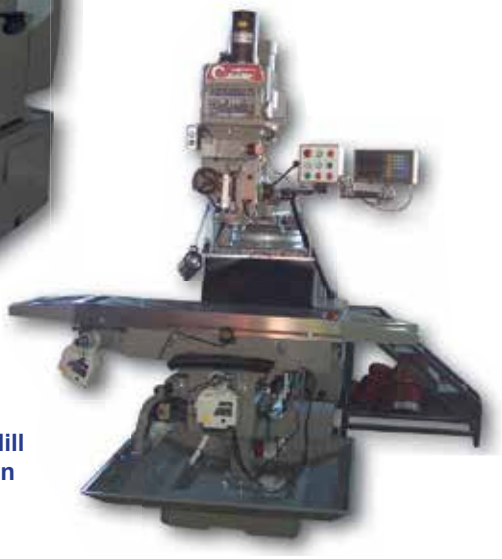
- 103mm spindle bore
- Quick change tool post



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