



Absolute Scanner AS1-XL

The next big thing
in 3D scanning

Effortlessly measuring
large surfaces.





ISTMA
2023
16TH WORLD CONFERENCE

Hosted by
P&SA Production Technologies Association of South Africa



SPECIAL TOOLING & MACHINING
WORLD CONFERENCE & EXHIBITION

6 - 10 NOVEMBER 2023

CAPE TOWN INTERNATIONAL CONVENTION CENTRE - SOUTH AFRICA

RETECON (PTY) LTD - Stand No: 406

**AFRICA'S
BIGGEST
MACHINE
TOOLS
EXHIBITION**


**MACHINETOOLS
AFRICA 2024**

21-24 MAY

EXPO CENTRE • NASREC
JOHANNESBURG • SOUTH AFRICA

**SHAPING
TOMORROW**
THROUGH TECHNOLOGY & INNOVATION

An event by:

#MTA2024
www.machinetoolsafrica.co.za

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TruLaser Weld 1000

Automated laser welding:
simply successful



Source: TRUMPF Group

Many challenges, one solution

Are you as a sheet metal processor struggling with the lack of skilled welders and increasing pressure concerning quality? You are not alone in this. The demand for simple automation for time-intensive welding is enormous. It is for this reason that the compact TruLaser Weld 1000 combines particularly simple operation and programming with the advantages of laser welding. You can weld faster, reduce rework, and still grow as a company despite a shortage of skilled labour.

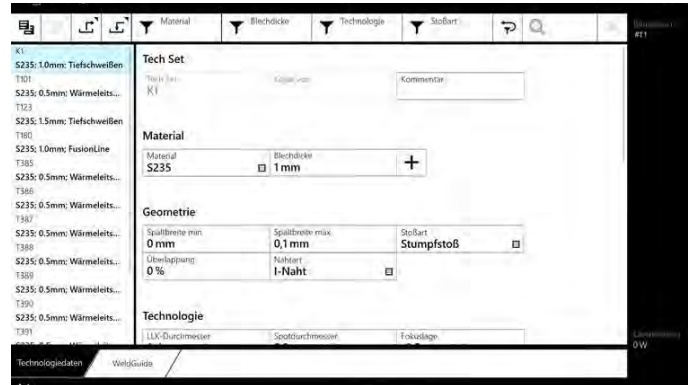
- Optimum welding with lasers**
Get the first class quality, productivity and design freedom of lasers for your company.
- Flexible production at one or two stations**
Depending on demand, you can weld one large component or smaller ones in serial operation working parallel to production.
- Easy to operate and program**
Your team will operate and program the welding cell after just one e-learning session. Clever operating units and visual support ensure this.
- Set up and start welding**
Machine installation is completed within a day.
Welding parameters? They come with the machine!





Shielding gas nozzle

The coaxial shielding gas nozzle with integrated crossjet protects the melt in every direction from oxygen input and the processing optics from welding steam and spatter. A linear attachment provides optimum protection of the weld seam from oxidation.



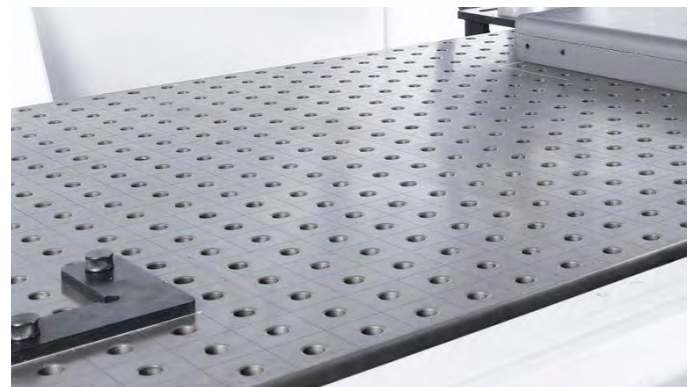
Techset data base

You will receive an extensive collection of predefined welding parameters with the machine. This makes programming even faster. You simply select the suitable data record for your welding path, depending on sheet thickness, procedure and material.



Linear axis

During two-station operation, the robot shuttles along the linear axis between the right- and left-hand stations. During one-station operation, it utilizes the movement space for improved positioning of the welding optics.



Work table

You can fix the components on the work table with positioning accuracy. Standardized clamping systems or fixtures are suitable for positioning the components. The table plate is fitted diagonally with system holes D16 in a grid of 50 x 50 mm. The table's dimensions are 2000 x 1000 x 100 mm.



Rotary axes

An additional axis for rotating components extends the positioning options. The two pneumatic rotary axes allow for synchronized positioning of components or fixtures, improving accessibility and productivity.

Trumpf

TruLaser 1030 fiber

“Start your New Year laser cutting on the all new
- TruLaser 1030 fiber 6 kW”

TruLaser 1030 fiber

3000 x 1500 mm working range
Hydraulic Pallet changer
KL59 Cutting unit with adjustable focal length
TruFiber 6 kW laser resonator

Max Sheet Thickness
Mild Steel 25 mm
Stainless 25 mm
Aluminium..... 25 mm
Copper..... 10 mm
Brass..... 10 mm



**Why wait -
Enter the world of Trumpf
today!**

The TruLaser 1030 fiber lasers investment price is kept in line with most upper end Chinese manufacturers by simple yet robust enough Trumpf design with an all new 19" RA Controller for easy operation as well as offline software package to keep your production as efficient as possible.

■ **Quality machine at an entry level price!**
Available for delivery Feb 24 (subject to prior sale)

■ **Get in touch soon, this Fiber Laser
will sell fast!!**

CNC sheet metal bending with Trumpf TruBend 1000 series

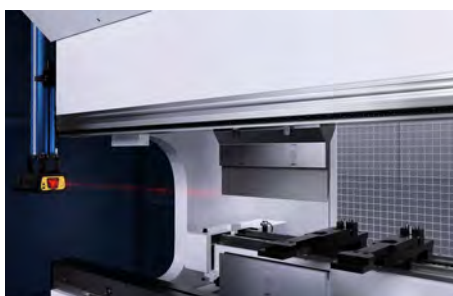
“Start your New Year bending on the all new
– TruBend 1000 series Press Brakes”

TruBend 1000 CNC Press Brake

- 3000 mm and 4000 mm bending lengths available
- 150 Tn and 225 Tn press force available
- 4 axis back gauge
- Y1, Y2 Hydraulic down stroking cylinders
- Trumpf Style (Wila) Tooling
- Hydraulic upper tool clamping
- CNC Motorized Crowning
- Best in Class – RA touch screen control



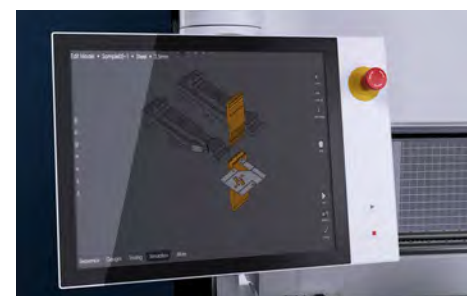
The TruBend Series 1000 focuses on the essentials: Benefit from an economical solution with TRUMPF quality. The 1000 Series impresses with its simple control and reliable operation, while also delivering high levels of precision and meeting appropriate safety standards.



Bendguard with machine



Mechanical crowning system



RA Control

■ **Quality bending at an entry level price!**
Available for delivery Jan 2024 (subject to prior sale)

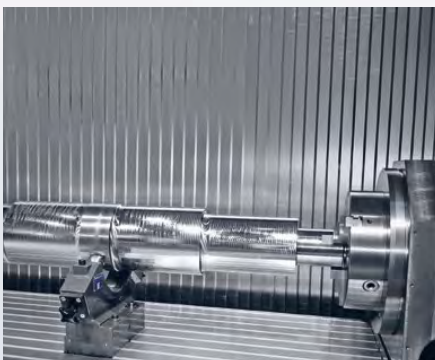
■ **Get in touch soon, these Press Brakes
will sell fast!!**

Maximum flexibility for the customer

The machines of the DMF series have been designed for maximum flexibility. The sound basic equipment, the comprehensive range of options and the maximum flexibility of the travelling column concept allows to always find the perfect configuration for almost any problem in the industry. The flexible work area with travel distances of 2,000mm in the X-axis, 800mm in the overhanging Y-axis and 850mm in the Z-axis, are supported by innovative features such as the powerful B-axis milling head, the integrated C-axis as well as the unique tool change.

Comprehensive basic equipment

- + CELOS with SIEMENS control
- + speedMASTER spindle with 15,000 rpm
- + B-axis milling head with $\pm 120^\circ$ swivel range
- + Direct absolute position measuring systems in all axes
- + Tool magazine with 40 pockets
- + Scraper-belt chip conveyor
- + Active cooling for control cabinet and spindle
- + Fully enclosed cabin



INTEGRATION OF INDEXING HEADS

An interface on the work table enables to quickly and easily integrate indexing heads (4th axis).

DMF 300|11 linear

Best surfaces in its class

Compact universal machining centre of the 3rd generation for 5-axis simultaneous machining.

The 3rd generation of the DMU 50 meets the requirements of 5-axis machining of the future and is characterised by innovative mechanical engineering technology.

The larger working area and swivel range of the B-axis extend the range of applications of the machine. Rapid traverses of 42m/min and a swivel speed of 30rpm guarantee dynamic machining and up to 30% shorter cutting cycles. The extensive cooling measures are unique in this machine class and enable maximum precision.

The 3rd generation of the DMU 50 DMG MORI offers the ideal, cost-effective entry into the world of 5-sided and even 5-axis simultaneous machining.



Hydraulic component / motorsport



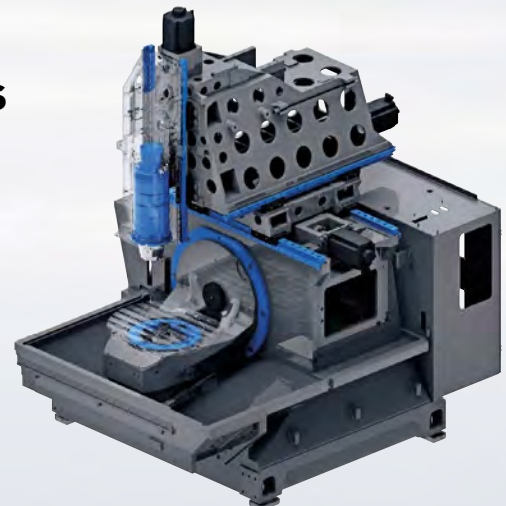
Milling head / tool manufacture

DMU 50 3rd Generation

Highest accuracy thanks to direct drives and the integrated cooling concept.

Precision

- + Single-piece cast iron machine bed for maximum stability
- + Direct driven ball screw drives
- + Direct path measuring systems in all axes





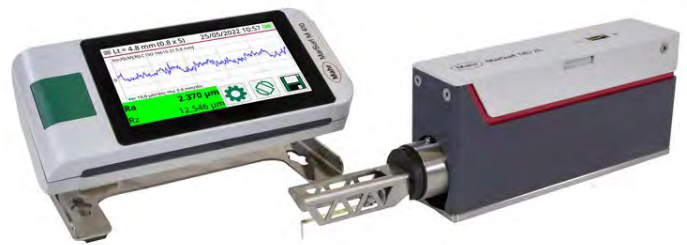
Mobile Surface Measuring Instrument MarSurf M 410

The best of the "mobile" devices

Surface evaluations using skidless tracing are needed not only in the measuring room but more and more in the production area.

The best among the "mobile" devices

- Simple and intuitive operation: as easy as operating a smartphone
- Large, illuminated 4.3" TFT touch display
- Assistant-guided tilt adjustment
- Unique touch arm management
- Separation of display and drive unit
- 55 parameters
- Magnetic stylus arm mounting
- Automatic cutoff selection: ensures correct measurement results even for the non-measuring technician



Easy documentation

- Direct printing on the mobile printer (as an option or directly in the set with printer)
- Data backup as TXT, X3P, CSV and PDF file
- Creation of finished PDF protocols directly in the measuring device
- Customer-specific comments for the PDF protocol are entered directly on the MarSurf M 310
- Display and print MRK and ADK curves
- Save more than 30000 measuring programs (Quick & Easy)

Extended interface diversity

- Micro-USB interface for remote control via ASCII commands
- USB-A interface for connection of e.g. a USB Bluetooth adapter or USB/Bluetooth printer
- Transmission of measurement protocols and data optionally via Bluetooth or cable

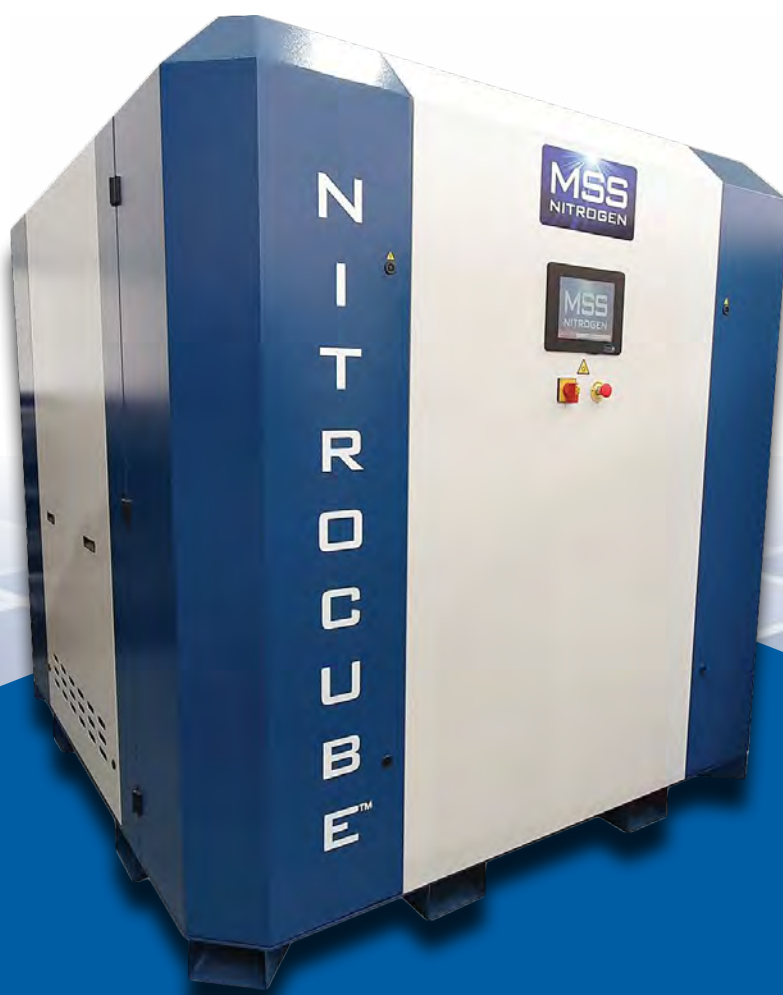




NitroCUBE™

PLUG & PLAY Nitrogen Generation Systems

PLUG & PLAY



Nitrogen Generation Systems

For further information contact Gábor or Graham on 011 976 8600 or email machines@retecon.co.za

Haeger - Fastener Insertion Machine

For a consistent , reliable insertion of Studs , Standoffs , Nuts etc

The 618™ MSP 5e features:

- 6 ton (53kN) ram force and 18 inch (450mm) throat depth with adjustable ram retract position.
- Reliability/energy efficiency of a fully hydraulic machine.
- Haeger's patented safety system.
- Tooling Protection System and Batch Counter.

Positive Stop System (Optional)

The Positive Stop System provides an easily adjustable method of precisely maintaining the stopping point of the machine cylinder. The system is particularly well suited for improving uniformity on soft, delicate work pieces. It is also effective when inserting small hardware. In addition to aluminum, the system also provides excellent insertion results on a wide variety of softer materials such as fiberglass, printed circuit boards, and many plastic or composite materials.

MAS 9 or MAS 350

Modular Autofeed System (Optional)

Customer has the choice to pick either feed system based on which type of auto tooling they want. The maximum stud and standoff lengths are up to 30mm.



Modular Autofeed System.

Built-in TPS Controls

The Tooling Protection System (TPS) is designed to protect both the tooling and the workpiece from damage.

Tooling rack

Quick and easy access to tooling.



618™ MSP 5e



Multi-Shuttle Tooling Platform for Nuts, Studs and Standoffs.

The Multi-Shuttle Platform provides a universal quick and easy tool change over between nuts, studs and standoffs – enabling 2-minute total tool changes without realignment. Changeover between Manual and Automatic Tooling setup is faster and easier.

Multi-shuttle tooling platform for nuts studs and standoffs.

Haeger®

Minac:

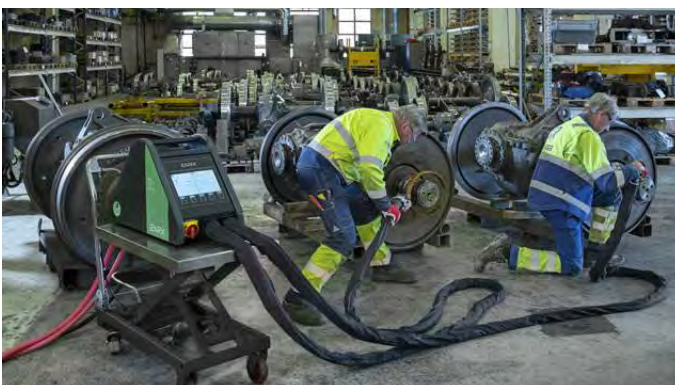
Mobile induction heating equipment

Minac is an all-in-one-solution for the heating of practically any electrically conductive material.



Minac is our family of mobile and versatile induction equipment. Examples of ideal jobs are brazing, curing, hardening, shrink-fitting and straightening. Minac equipment can be fitted with a single or twin output, various coils and coil fixtures, flexible cables, closed or separate cooling systems, and specially designed heating cables. We equip the Minac to fit your need.

- ✓ ENRX MINAC – offering mobile and static heating solutions
- ✓ Available in single and twin operation
- ✓ Ideal for shrink fitting, brazing, heat treatment, pre and post heating and straightening
- ✓ Flexible and easy to use
- ✓ Energy efficient



Have a look at the...



Benchtop Marker FlyMarker® mini 120/100 STATION

BENEFITS AT A GLANCE

- Attractive price-performance ratio
- High quality guide system for highest stability
- Switchable LED lighting of the marking field
- Pollution-protected electronics
- Drag chain guided electric cables
- Laser pointer for simulating the marking process
- Input via USB keyboard
- Capacitive touchscreen (optional)



Logo



Data Matrix Code



Line



New 5-axis machining centre F 6000

At EMO 2023, HELLER presented the new generation of its F 6000 machining centre to international trade visitors for the first time. The 5-axis machine with head kinematics has been designed from the ground up for flexible series production. Like all HELLER machines, it sets a benchmark for cutting performance and precision. Other highlights include free chip fall, short idle times, optimum automation capability, and compatibility with the H and FP series for a wide range of workpieces. The F 6000 also scores with first-class equipment and expandability with technologies such as mill-turn, interpolation turning, or power skiving. The team led by HELLER's Head of Development, Dr Manuel Gerst, kept a close eye on these topics, as well as consistent standardisation and the use of key components 'Made by HELLER'.



Highlights of the new generation include the completely redesigned swivel heads and the new integrated motor spindles specially developed by HELLER. The spindle units deliver the highest levels of precision, dynamics, and cutting performance for 5-axis machining.

For combined milling and turning operations, the machine is equipped with the optional Mill-Turn function, in which the high-torque DDT (Direct Drive Turning) rotary table plays a key role. In line with the trend towards complete machining, this eliminates the need for reclamping on separate turning machines. The results are improved workpiece accuracy and significantly reduced cycle times, especially for series products. The pallet changer is included as standard as the first level of automation. The new 'Automation ready' option enables easy integration of the HELLER rotary pallet storage (RSP) and HELLER's standardised linear magazine solutions at a later date.

To ensure that all of the above benefits are maximised in day-to-day production, HELLER's design engineers have focused on clear and easy operation, as well as good accessibility to all work areas.



Absolute Arm 7-Axis and Absolute Scanner AS1-XL

The next best thing in 3D scanning

The Absolute Arm is made for measurement anywhere, from the quality room to the shop floor, from the design table to a milling machine, from air-conditioned stability to humid and dusty workshops. Full IP54-rated protection – **a world first for a portable measuring arm** – supports this go-anywhere measurement concept, along with the Absolute Arm's easy portability and simple usability.

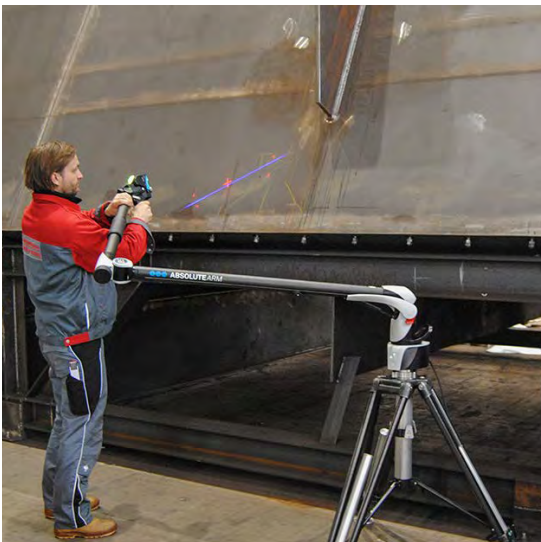
With Absolute Scanner AS1-XL scanning option, the Absolute Arm is made for the future of industrial measurement. High-speed, high-productivity, user-friendly and highly versatile – this is a portable measuring arm that offers more than incremental changes, delivering the new features requested by users as they look to measure in ever more challenging environments.

Fast and simple large-surface inspection

The Absolute Scanner AS1-XL is a 3D laser scanner designed to meet the needs of emerging 3D scanning applications for which higher productivity is the priority. Working in conjunction with the Leica Absolute Tracker AT960 range of high-end laser tracker systems, the AS1-XL opens the door to previously infeasible large-scale 3D digitisation tasks.

Automated large-surface inspection

The Absolute Scanner AS1-XL **is the first 3D laser scanner designed for large-surface inspection** that supports automated and autonomous measurement systems. With the freedom provided by the WRTL wireless link accessory for the Leica Absolute Tracker AT960, the AS1-XL opens the potential to autonomously capture data from extremely large parts in areas such as aerospace and energy.



ALM

THE NO. 1 MOBILE LASER

Extremely short set-up times allow a vast range of machine components, pressing tools and large molds to be repaired and modified with the ALM at any imaginable location.

The ALM's versatility is impressive. The workpiece can be transported to the laser, or the laser to the workpiece. This ensures mobility within the company or at the customer's.

The ALM is air cooled and requires no additional cooling system. Just move the laser to the workpiece, secure the laser area, aim the slim laser arm at the weld, and start welding.

The hydraulic brakes fix the laser beam exactly at the desired work position. Welding can be done manually using a joystick, semi-automatically, or using an external operating unit.

Additional flexibility is possible with the unique turn and tilt objective, which allows the laser beam to be moved continuously up to 40° from vertical to any direction.



Application example



Robomac TF

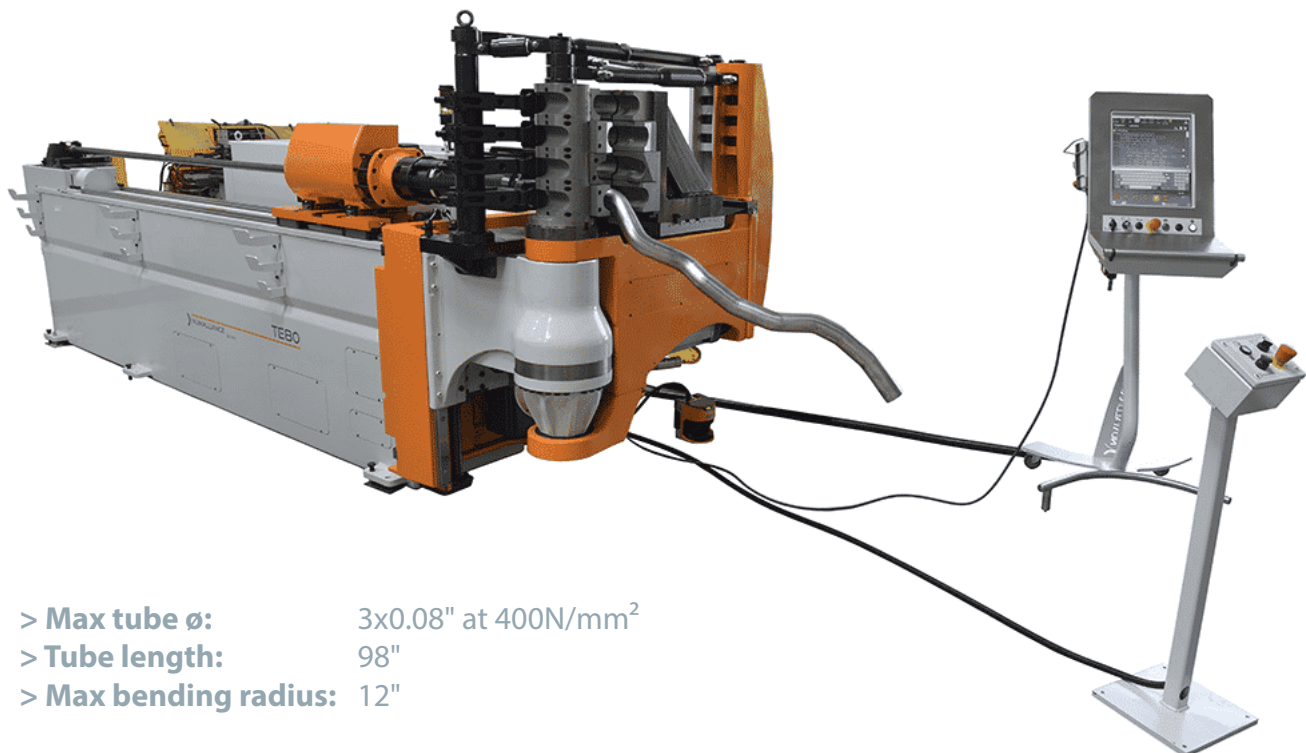


Feed & Form
Robomac 106TF



Wire capacity up to 600 N/mm^2
> From 2 to 6,35 mm

Large Tube Bender - TE80



- > Max tube \varnothing : 3x0.08" at 400 N/mm^2
- > Tube length: 98"
- > Max bending radius: 12"

Promotion No. 4 November - December 2023

Edge trimmer TruTool TKA 1500 (with 45° tool)
free give away (value up to R 13 430.00)



Power your way to the top

Our 15 mm edge trimmer TruTool TKA 1500 is multi-talented: flying sparks, smoke and dust are not an issue with this procedure. With the TruTool TKA 1500, you can apply chamfer lengths of up to 15 mm in angular positions of 30°, 37.5°, 45° and 60° as well as R2, R3 and R4 radii. The edges are characterized by high quality and repeatability; in addition, any oxidation or deformation of the material is avoided. You can save yourself the trouble of reworking.

Free give-away of your choice

Worth up to R 13 430.00 ex VAT

Versatile use

- For straight edges as well as interior and exterior contours
- For radial edges of R2, R3 and R4 mm radii
- For trimming finished edges
- For chamfering to prepare welding seam edges
- For chamfering finished edges. For example, as a work preparation for powder and paint coatings



10x cutter ST/CR/Alu

Worth R 10 445.00 ex VAT



or



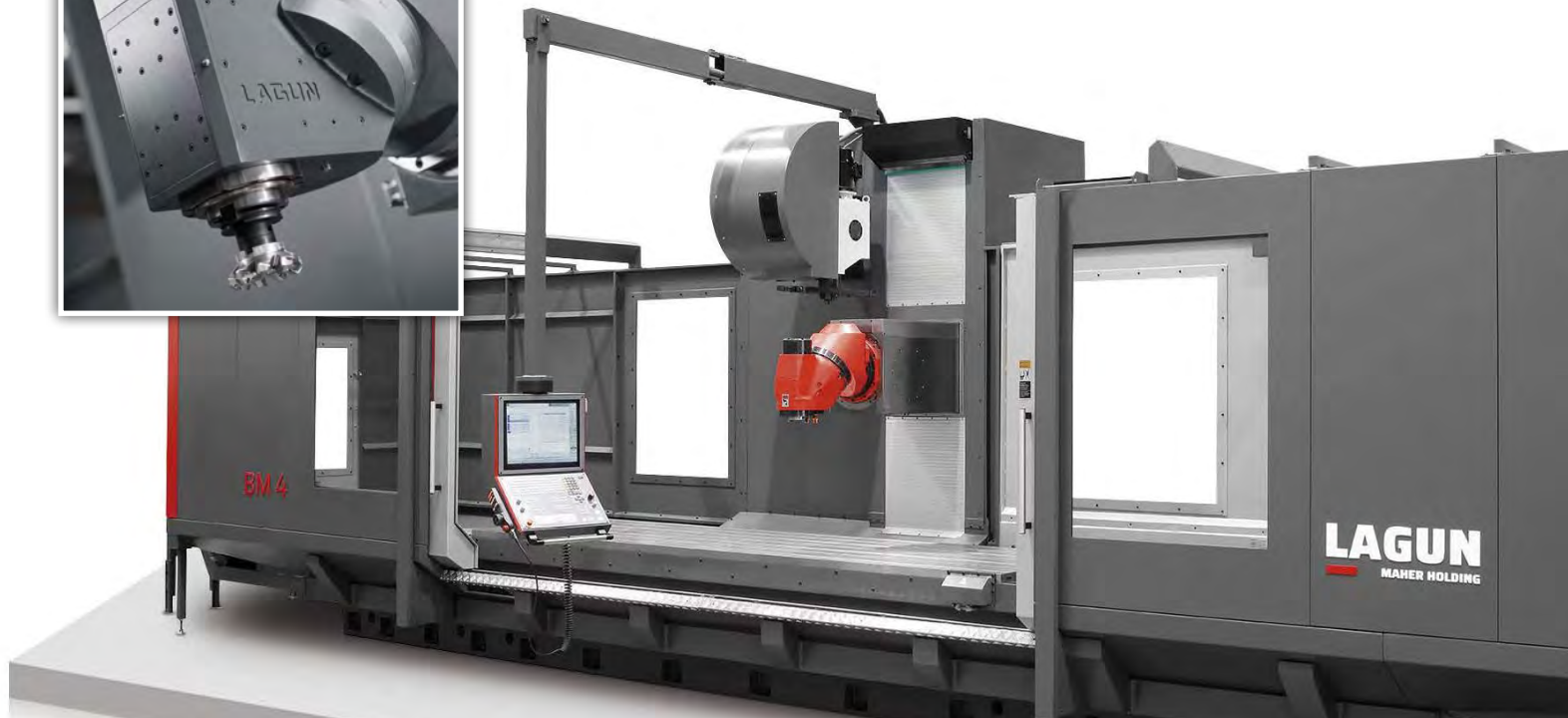
1x cutter mount of your choice: 30°, 37.5° or 60°

Worth R 13 430.00 ex VAT



Go to the product





UPCOMING SUMMER STOCK Universal Milling Machines

BM 3 RT "HEIDENHAIN TNC 640" (24")

- C axis Rotary Table 1600x1200 mm / 6 Tn load
- Twin-drive rotation
- Automatic **LOS** milling head every 0,001° simultaneous rotation
- 4.000 rpm for **LOS** head.
- Perimetral guarding + 2 chip conveyors
- 24 tools drum type ATC
- Air conditioner for electrical cabinet
- Cooling through the tool with 20 Bars pump with air pressure option.

CM 6 "HEIDENHAIN TNC 640" (19")

- Table 7500x1100 mm / Cross trav. Y= 1300 Z=2000
- Automatic milling head 1° / 5000 r.p.m
- Automatic greasing for LU A head
- 4th Axis Driving system preparation, (Without Driver).
- Perimetral guarding + 2 chip conveyors
- 60 tools chain type ATC
- Air conditioner for electrical cabinet
- Cooling through the tool with 20 Bars pump with air pressure option.

BM 4 "HEIDENHAIN TNC 640" (19")

- Table 4100x1100 mm / Cross trav. Y= 1300
- Automatic milling head 1° / 4000 r.p.m
- Automatic greasing for LU A head
- 4th Axis Driving system preparation, (Without Driver).
- Perimetral guarding + 2 chip conveyors
- 24 tools drum type ATC
- Air conditioner for electrical cabinet
- Cooling through the tool with 20 Bars pump with air pressure option.

DO YOU PRODUCE TURNED PARTS?

HERE IS YOUR PRIMA VICIVISION
The optical measuring machine for all shops.



DETECTABLE MEASURES

Static measures

- Diameter
- Length
- Angle
- Radius
- Chamfer

Dynamic measures

- Coaxiality
- Runout
- Circularity
- Cylindricity
- Taper

Threads

- Nominal diameter
- Pitch diameter
- Core diameter
- Crests angle
- Pitch
- Roll dimension

Nut

- Diameter
- Asymmetry
- Timing

Profile measurements (optional)

- DXF comparison
- DXF export





SPECIAL SERVICES OFFERED

Retecon Service has provided skilled, motivated and dedicated machine tool technicians for the South African manufacturing and engineering industries since 1978.

The newest edition to what Retecon Service has to offer is their Preventative Maintenance Service contracts for various machine tools, providing customers with planned, regular maintenance services with the added benefit of discounted labour rates for the service period.

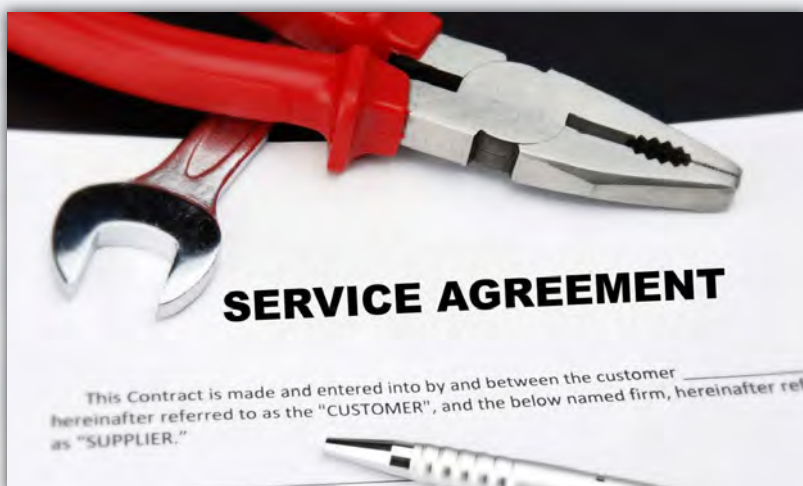
Keep your machines in optimum condition by taking advantage of our Preventative Maintenance Service contracts.

Our Maintenance Service packages are available on a 1 or 2 year contract.

The following are a few benefits of having a Preventative Maintenance Service contract:

- Discounted rates apply.
- Financial flexibility through monthly payments.
- Optimum support for achieving maximum machine availability.
- Maximum machine uptime by adjusting all mechanical, pneumatic, and hydraulic functions.
- Early detection of faults due to wear and tear, therefore reduced downtime and expenditure.
- The value of the machine is preserved.
- Operating costs are minimized.
- Service can be scheduled so as to have the least impact on production operations.

To avoid unnecessary expenses, contact us to schedule a service appointment!



CUT E series

Efficiency at the touch of your finger



- + T-shaped base for large and heavy workpieces up to 1,000 kg
- + Clear view of the process management with the 19-inch touch screen
- + More compact: 30% less floor space

PLATES



BEAMS



TECHNOLOGY

STEEL CONSTRUCTION

AUTOMATIC CNC DRILLING, MILLING AND THERMAL CUTTING SYSTEM FOR LARGE PLATES

TIPO G25LGE

NEW!

The new automatic CNC line TIPO G25LGE for drilling, milling and thermal cutting is a machine designed for the processing of large plates up to 100 mm thick, introducing a number of production innovations and offering a high level of precision and versatility, along with significant ROI optimization:

- New gripper handling system and two carriages to ensure greater precision and capacity for feeding thicker plates.
- New plates contrast base with a vertical sheet metal support that moves transversely to prevent the tool from touching the contrast base, which together with the hold-down, clamps the plates much better than the previous models: less vibration, greater precision, longer tool life.
- Improved kinematics of the unloading table for small parts, that tilts and allows parts separated from the plate to slide underneath the working bench.
- Equipped with the latest Polaris HMI developed by Ficep, which improves machining program management and usability.



AUTOMATIC CNC SINGLE SPINDLE DRILLING, MILLING AND DISC SAWING LINE FOR SECTIONS

XBLADE

NEW!

The new XBLADE CNC line for drilling, tapping, milling and cutting with disc blade is capable of processing steel construction beams of different sizes, with sections up to 305x305 on three sides, 450x450 on one side and variable lengths thanks to its modular configuration. It performs complex operations of drilling, countersinking, tapping, milling and cutting with disc blade and is a "universal" machine lending itself also to the machining of light alloy profiles.

The innovative feature of this machine is the ability to perform three-axis machining even on inclined planes, in two different directions. The 5-axis head consisting of two rotating wrists positions the tool virtually anywhere in the working space. In addition, the introduction of the disc blade expands the range of processing that can be carried out without manual intervention: the integration of the blade with the 5-axis head makes it possible to work around the workpiece by intervening on 5 faces.

Through Ficep's Steel Project software, profile nesting can be programmed and optimized, and through the CAM software that generates the ISO program, the working cycle is launched with great ease.



RETECONREPORT

An information service to our clients



2023 | 3

Machine Tools | Cutting Tools | Accessories and Measuring Equipment

bedra

intelligent wires

BRASS WIRE

BRASS WIRE 0.25mm - SOFT | ECONOMICAL

- Berco Cut 372-392 Nmm 4kg soft
- Berco Cut Special 500 Nmm 16kg soft
- Berco Cut Pro 500 Nmm 5kg soft
- Berco Cut Pro 500 Nmm 8kg soft

BRASS WIRE 0.25mm - HARD 900/Nmm²

- Berco cut Special 900 Nmm 5kg hard
- Berco Cut Special 900 Nmm 16kg hard
- Berco Cut Pro 900 Nmm 5kg hard
- Berco Cut Pro 900 Nmm 8kg hard

COATED WIRE

GAPSTAR WIRE - THE NEW EDM HIGH PERFORMANCE WIRE

- Gapstar.9 - COATED WIRE 900 N/mm 0.25mm 5kg
- Gapstar.9 - COATED WIRE 900 N/mm 0.25mm 8kg

- New Bedra Technology (TRIMPAC)
- Suitable for all EDM wire cutting machines.

TOPAS WIRE - HARD | HIGH TENSILE | FAST | ACCURATE

- Topas Plus H - ZINC COATED 800 Nmm 5kg hard
- Topas Plus H - ZINC COATED 800 Nmm 8kg hard
- Topas Plus H - ZINC COATED 800 Nmm 16kg hard
- Topas Plus H - ZINC COATED 800 Nmm 25kg hard

COATED WIRE (CuZn) - HIGH PERFORMANCE

- Bronco Cut 520 N/mm² 4kg soft
- Bronco Cut 520 N/mm² 8kg soft
- Bronco Cut 520 N/mm² 16kg soft
- Bronco Cut 520 N/mm² 25kg soft

**GREAT VALUE FOR
Money!!**

EDM WIRE

CONTACT DETAILS ▼

Head Office & Showroom

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Kempton Park, 1620
100 Plane Road,
Spartan Industrial Township,
Kempton Park

Tel: 011 976 8600

Telefax: 011 394 2471

E-mail: machines@retecon.co.za

Port Elizabeth

P.O. Box 414
Port Elizabeth, 6000
2A Haupt Street,
Sidwell, Port Elizabeth, 6001

Tel: 041 453 2720

Telefax: 041 453 6678

E-mail: machines.pe@retecon.co.za

Durban

P.O. Box 1186,
Pinetown, 3600
Unit 32, Ivy Park,
3 Ivy Road,
Pinetown

Tel: 031 701 8149

Telefax: 031 701 0313

E-mail: machines.dbn@retecon.co.za

Cape Town

P.O. Box 1167,
Milnerton, 7435
Unit 8 + 9, Peter Park,
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Montague Gardens

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