RETECON REPORT

An information service to our clients

Machine Tools | Cutting Tools | Accessories and Measuring Equipment

2025 | 2

HELLER

5-axis machining centres

F

IN THIS EDITION

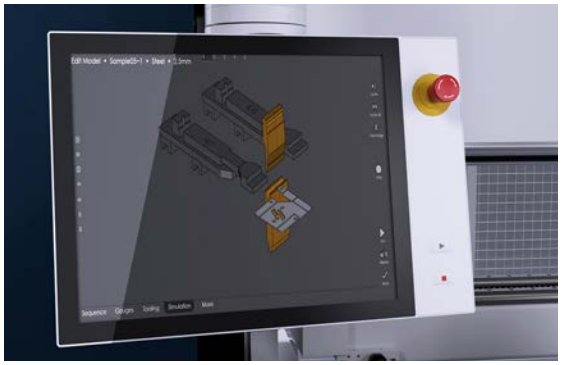
CNC sheet metal bending with Trumpf

TruBend 1000 series

TruBend 1000 series , Basic Edition

Now available in 2m, 3m, 4m bending lengths
Tonnage ranging from 60, 100, 150, 225, 320 Tn
Y1 and Y2 down stroking cylinders
4 axis back gauge
CNC Crowning
Promecam style or Hydraulic Trumpf style tool clamping
Fastest available 3D offline and online programing

Programming in the office or simply directly at the machine control (Offline programming)



Making sheet metal fabrication simpler, more productive and more sustainable.

TruLaser 1000 Series (3 kW – 12 kW)

Discover a laser cutting machine that offers improved start-up and operating costs and is intuitive to use and operate.

The TruLaser Series 1000 Basic Edition is the ideal start into the world of high-quality laser cutting. It is equipped with a TruFiber laser for cutting a wide range of sheet thicknesses. The intuitive programming system makes it possible to start production quickly.

TruLaser 3000 Series (4 kW – 24 kW)

TruLaser 3030 fiber, TruLaser 3040 fiber, TruLaser 3060 fiber and TruLaser 3080 fiber – the fast machines for all your cutting tasks. They impress with their high level of flexibility and cost-effectiveness: You can cut all sheet thickness profitably. The TruDisk solid-state laser enables the processing of non-ferrous metals and provides you with a productivity benefit in thick and thin sheet. BrightLine fiber guarantees the highest edge quality and facilitates part removal.

TruLaser 5000 Series (6 kW – 24 kW)

The TruLaser 5030 fiber, TruLaser 5040 fiber, and TruLaser 5060 fiber impress with their high processing speed and reproducible, high part quality – even for complex contours. You can achieve excellent feed rates thanks to the solid-state laser with up to 24 kW laser power.

Clever assistant systems make the complete machining process more productive and reliable than ever. Operator involvement is low; non-productive times are minimal.

NitroCube is the MOST SIMPLE and ECONOMICAL SOLUTION for on-site nitrogen generation for laser cutting applications

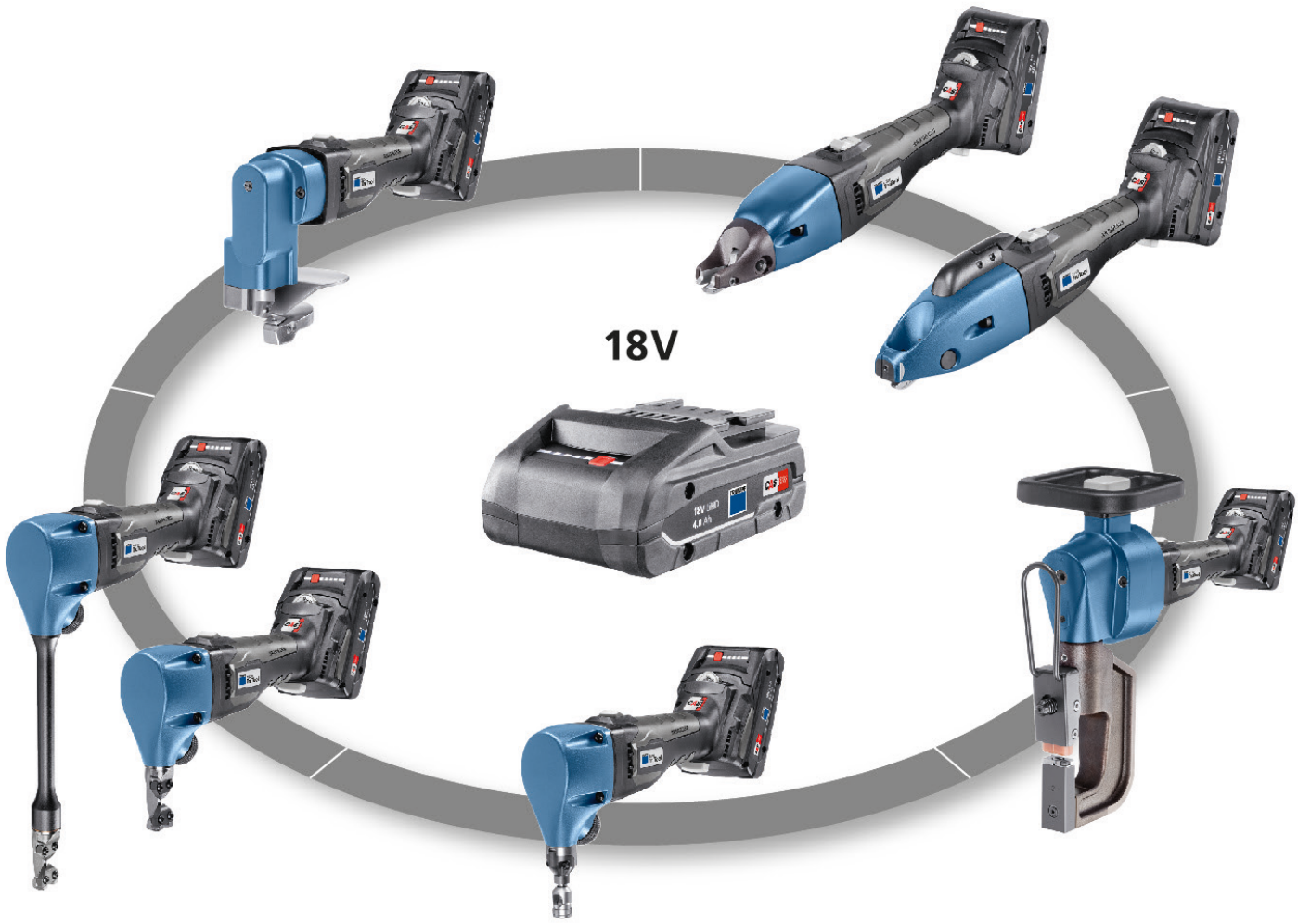
- ✓ Increased productivity
- ✓ Improved product quality
- ✓ Reduced costs
- ✓ Maximum profitability

NitroCube THE BENEFITS

- Guaranteed low cost, high purity nitrogen
- Continuous 24/7 supply
- No running out of gas unexpectedly
- No gas waste, liquid "boil off" or gas bottles returned partially full
- No rental, delivery or environmental charges
- No restrictive gas contracts

- No machine downtime for cylinder changes or liquid top up
- Laser cut carbon steel faster, cheaper and with an "oxide free edge"
- Self financing, using money otherwise spent on ready made nitrogen

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



Cordless Alliance Systems

Slitting shear
TruTool C 200 LiHD 18V
TruTool C 250 with chip clipper LiHD 18V

Shear
TruTool S 250 LiHD 18V

Profile nibbler
TruTool PN 200 LiHD 18V
TruTool PN 201 LiHD 18V

Nibbler
TruTool N 200 LiHD 18V

Power Fastener
TruTool TF 350 LiHD 18V

KOIKE

NEXT generation of portable carriage! with NEW Design & Functions for WIDE Range of Applications!

IK-12 NEXT

Overview

IK-12 NEXT is the latest model of IK-12 series, one of the most popular and long-seller gas cutting carriage.

New control panel and Torch set: Wide range of application is possible to enable not only gas / plasma cutting, but also welding with the same carriage.

New drive control system, allows you to set precise and wide range of travel speed from thin to thick plate thickness cutting application.

Newly equipped function; "CREEP MODE" (Patent pending): By simply pressing the button, normal speed can instantly switched to low speed mode for easy adjustment at start/end point of thick plate cutting.

Adding Weaving Unit option: Butt-welding for thick plat can be easily made by Weaving Unit.

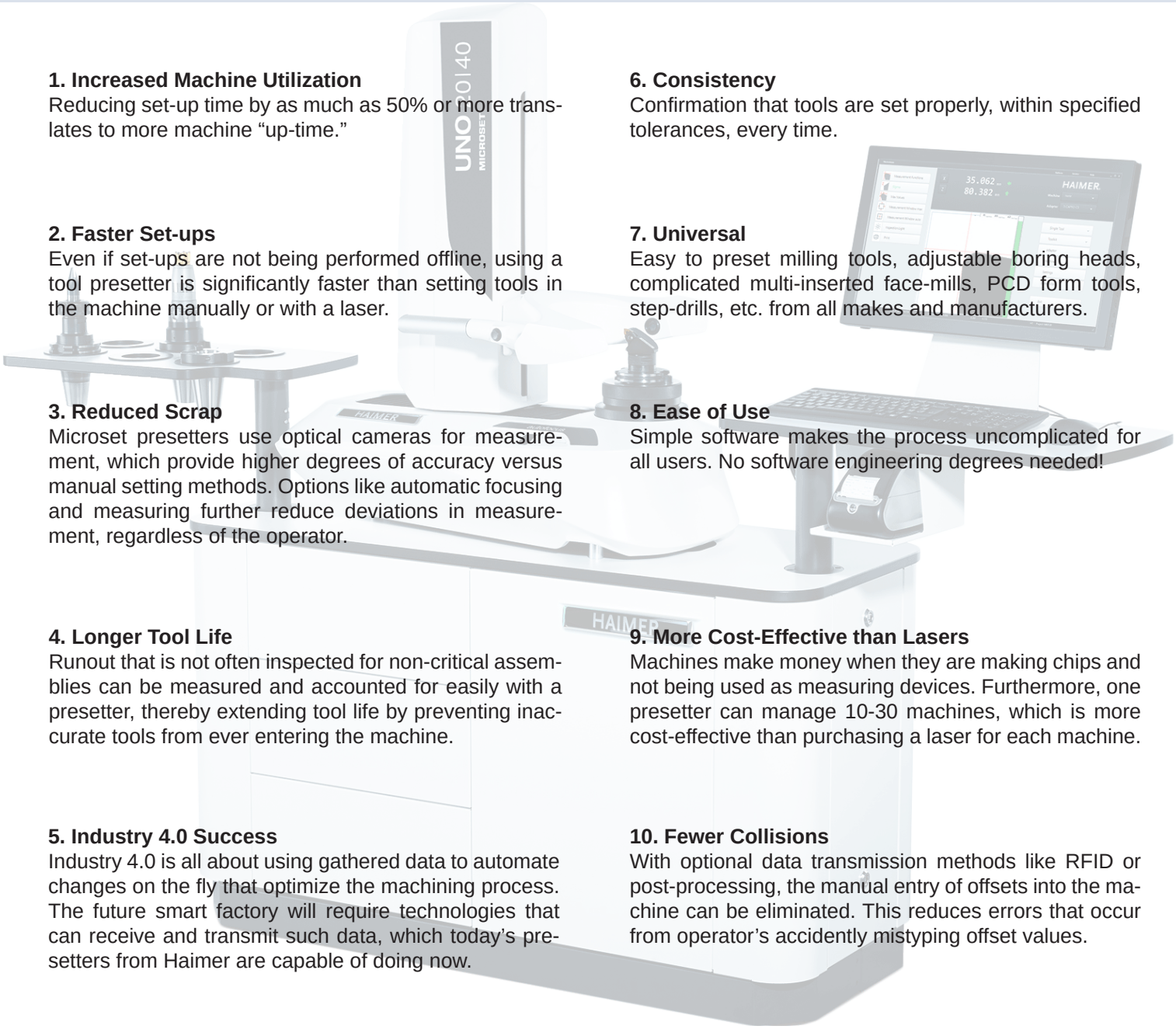
No need to add a separate control box for weaving function for its control unit is already built-in on IK-12 NEXT.

External tool-presetting equipment from HAIMER – save cost and time

HAIMER
Quality Wins.

Efficient tool presetting and measuring equipment ensures highest productivity and economy. Improved quality in the supply of pre-set tools and safe and early detection of damaged tools reduces the number of reject parts and significantly increases the quality of components.

Here are 10 good reasons to invest in HAIMER tool-presetting equipment:



1. Increased Machine Utilization
Reducing set-up time by as much as 50% or more translates to more machine "up-time."

2. Faster Set-ups
Even if set-ups are not being performed offline, using a tool presetter is significantly faster than setting tools in the machine manually or with a laser.

3. Reduced Scrap
Microset presetters use optical cameras for measurement, which provide higher degrees of accuracy versus manual setting methods. Options like automatic focusing and measuring further reduce deviations in measurement, regardless of the operator.

4. Longer Tool Life
Runout that is not often inspected for non-critical assemblies can be measured and accounted for easily with a presetter, thereby extending tool life by preventing inaccurate tools from ever entering the machine.

5. Industry 4.0 Success
Industry 4.0 is all about using gathered data to automate changes on the fly that optimize the machining process. The future smart factory will require technologies that can receive and transmit such data, which today's presetters from Haimer are capable of doing now.

6. Consistency
Confirmation that tools are set properly, within specified tolerances, every time.

7. Universal
Easy to preset milling tools, adjustable boring heads, complicated multi-inserted face-mills, PCD form tools, step-drills, etc. from all makes and manufacturers.

8. Ease of Use
Simple software makes the process uncomplicated for all users. No software engineering degrees needed!

9. More Cost-Effective than Lasers
Machines make money when they are making chips and not being used as measuring devices. Furthermore, one presetter can manage 10-30 machines, which is more cost-effective than purchasing a laser for each machine.

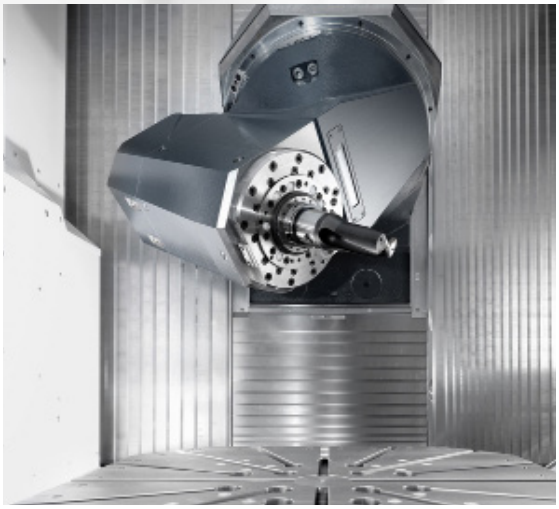
10. Fewer Collisions
With optional data transmission methods like RFID or post-processing, the manual entry of offsets into the machine can be eliminated. This reduces errors that occur from operator's accidently mistyping offset values.

HELLER

F 6000 - A benchmark in cutting performance and precision

HELLER has launched a new generation of the F series. The benefits include increased cutting performance and higher precision, maximum reliability for 24/7 production, optimum ease of operation and a compact machine footprint. Dr. Eng. Manuel Gerst, Head of Development of the HELLER Group, adds: "With the F 6000, we have succeeded in raising the already high standard to a new level, also due to newly developed key components 'Made by HELLER' such as spindles, heads and tables whilst consistent standardisation also helps us to ensure full compatibility with previous models."

Following intensive development work, HELLER's new F 6000 5-axis machining centre can be used for all areas of 5-axis machining, including optional combined mill/turn operations, from heavy-duty cutting through to machining of light metals. The machine is just as efficient for the manufacture of single parts as it is for series production. As a result, the F 6000 offers a compelling solution for companies in a wide range of industries – from general mechanical engineering, powertrain and power engineering through to aerospace.



With its modular design, the F 6000 combines and extends the capabilities of the previous F series and the mill/turn machining centres from the C series. Topology-optimised structural components and the improved machine design guarantee high basic stability. With a wide range of options available, the machine can be optimally tailored to the needs of each individual customer, ensuring maximum productivity in practical use.

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

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 work-piece 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 work-piece, 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

For further Information contact Gábor on 011 976 8600 | 083 327 1928 or email machines@retecon.co.za

Tube Inspect P8

HEXAGON
MANUFACTURING INTELLIGENCE

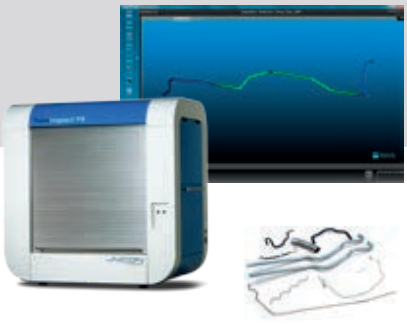
AICON
3D Systems

YOUR ADVANTAGES AT A GLANCE:

- High-resolution digital cameras with latest GigE technology
- Resistant, long-life and low-maintenance LED illumination technology
- Highly precise and long-term stable glass reference
- Measuring system analysis with DKD-calibrated master tube
- Applicable as optical gauge – saves costs for mechanical gauges
- Mobile use in production environment
- Lateral doors for measurement of larger bent parts
- Fits onto a euro-pallet – reduces transport costs and floor space
- Suitable for all materials

Technical specifications

Measurement area	1,000 mm x 580 mm x 400 mm
Cameras	8 high-resolution digital cameras with GigE-technology
Tube diameter	1 mm -125 mm
Bending angle	1° - 340°
Minimum push between two bends	Bend in bend and free-form possible
Software	BendingStudio
Reference field	Three-dimensional glass reference
Dimensions	1,140 mm x 746 mm x 1,140 mm
Weight	240 kg
Accuracy	0.035 mm sheath tolerance



AREAS OF APPLICATION

- Setup and correction of bending programs
- Control of serial production
- Production of free-form geometries
- Reverse engineering
- Replacement of gauges

Precise

Detailed inspections: Captures fine details with precise scans, enabling accurate inspection of edges, fasteners and intricate features directly on production lines.

Selective scanning: True selective scanning allows user-defined areas with uniform point distribution for consistent results.

TruePoint technology: Pinpoints the true centre of each measurement, keeping them highly accurate to reduce rework. TruePoint saves you time and costs.

Efficient

Simplified workflow integration: Compatible with reflectors for metrology-assisted assembly and inspection.

Faster alignment: PowerLock technology automatically locks onto reflectors, reducing setup time and accelerating inspections.

AI-powered feature recognition: Automatically identifies and measures features like holes and edges with FeatureDetect, speeding up your inspections while maintaining consistency.

Scalable

Distance scanning: Ideal for inspecting sizable assemblies and industrial environments with the ability to scan large objects from afar.

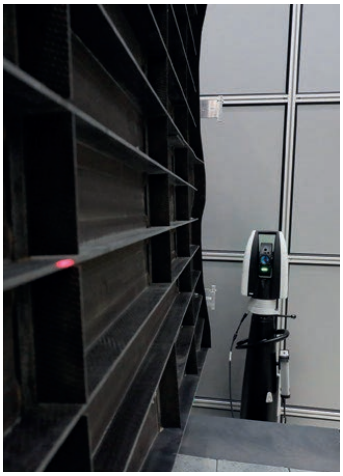
Enhanced safety: Remote operation and scanning at a distance protects workers in busy or hazardous settings.

Portable

Durable and lightweight: Compact design with integrated WiFi, battery power and IP54 protection ensures reliability and versatility across environments.

Leica Absolute Tracker

ATS800

Optical measuring machine for small cylindrical elements.

A clear - cut solution for dental implantology, biomedical technology, the watch-making industry and micromechanic applications.

X Series
MTL X5 / X10

An exclusive solution in the sector
Especially designed for extremely minute micromechanical components.

High resolution
Inspects the external profile of even extremely small parts, thanks to a measuring field of up to 16 x 100 mm.

Objective measurements
Any operator can check production, regardless of their measuring skills. A simple click to run the measuring program, and in a matter of seconds, a clear and detailed result of the component is on screen.

Data collection
All the data are collected by the system for statistics and traceability purposes to produce measurement reports and to monitor the production trend, meeting the needs of Industry 4.0.

Designed for small components
The design facilitates loading and unloading operations, even with difficult to handle parts.
No openings or undercuts in the machine eliminates the risk of small parts falling into the works.

VICIVISION

TALYROND® 150 PRO

High speed roundness measurement system
Bearings, automotive & precision industries

A roundness product, robust enough for the shop floor but accurate enough for any inspection room.

Working closely with bearings manufacturers, Taylor Hobson has focussed on the key attributes that are most important for quality control in today's precision industries.

The Talyrond® 150 PRO offers a flexible solution for roundness and form requirements with a variety of application specific software options and accessories, along with fixtures that can be tailored to your specific need.

World's highest throughput roundness system...

- **Increase manufacturing output**
- **Ensure part traceability**
- **Reduce part scrappage**
- **Improve 'right first time'**

What can it measure...

The Talyrond® 150 PRO is ideally suited to measuring high volume production parts across a wide variety of industries including:

- **Bearings** – Races, Balls, Needles and Rollers
- **Automotive** – Valves, Con Rods, Pins and Brake discs
- **Process Control** – Grinding, Turning, Milling and Honing

For further Information contact Neels on 011 976 8600 | 081 010 8191 or email machines@retecon.co.za

LEADING GARBOLI SUPPLIER !!

Orbital grinding / satin finishing machine

LPC 300

Among our orbital abrasive belts polishing machines, model LPC300 allows to achieve a high productivity enabling to grind, polish and satin finish straight or bent tubes with round, oval, elliptical and irregular section made of stainless steel, steel, aluminum, brass as well as other metals.

Sturdy made and highly efficient, polishing machine type LPC300 is dry operated and can polish tubes up to 114 mm. max diameter. Several equipment are available on request.

GORELOCKER COMBI-T

High production Gorelocker produce standing lockseam elbows and reducers. The high flexibility is achieved by means of 2 separate workstations: a flanging station and seam closing station. Thus the machine is always ready for operation without time-consuming conversion. The standing seam reduces welding to just one longitudinal seam and improves rigidity.

Unique Features

- Dual working station
- Maximum flexibility with no equipment change
- Constant quality / High production speed
- High capacity with material thickness up to 1.5 mm
- Virtually no maintenance, no lubrication necessary
- High quality parts and all rotating tools are made of hardened steel
- High quality seams

Technical Data

Diameter Range	125 - 1250 mm (5”- 50”) optional: 100 mm (4”)
Material Thickness	0.4 - 1.5 mm (0.016”- 0.059”) galvanized steel 0.4 - 1.0 mm (0.016”- 0.039”) stainless steel 0.4 - 1.5 mm (0.016”- 0.059”) aluminium
Flanging Speed	Max. 120 m/min. (394 fpm)
Production Time	90 sec. (bend ø 200 mm, 90° / 4 segments)
Electrical Connection	3 x 400 V / 50 Hz / 4 kVA (other connections on request)

DOT PEN MARKING

A solid carbide pin is made to oscillate by pneumatic or electrical means. It is moved by two traversing slides in x and y direction and pushed into the material by an up and down movement. Due to the marking by individual, adjacent points, the force effect on the material is very low.

The marking pin is pressed into the workpiece. Thus the pneumatically fed scribing pin made of solid carbide or industrial diamond is moved via two traversing slides in x and y direction with low force. The highest marking qualities are achieved at maximum processing speeds. The system is suitable for almost all materials and is low-noise.

SCRIBE MARKING

MOBILE

- Ideal for marking heavy, immobile and voluminous workpieces directly on site
- Space-saving and very handy hand-held marking system
- Compact construction and ergonomic design
- High functionality through modular MARKATOR design system

FAST

- High rigidity due to high-quality linear guides (double guided)
- Fast oscillating marking pin for precise line markings
- High repeatability
- Shortest marking times due to latest control technologies

STRONG

- Extremely precise and distortion-free marking results
- Optimum power transmission on the workpiece to be marked
- High marking strength through pneumatic tool drive
- Optional valve kit available for maximum marking dept

Data Matrix Code (optional)

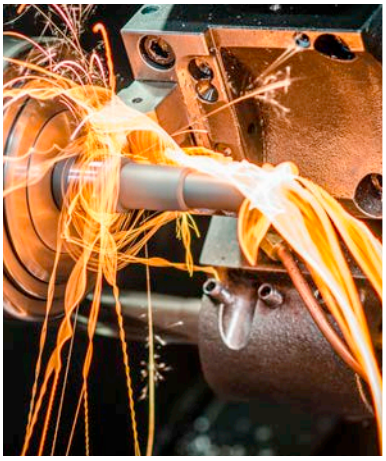
Single point font (optional)

Line font

RETECON SERVICE (PTY) LTD
Your Partner in Metal Working

LifeCYCLE Services

SUPPORTING YOU AT EVERY STAGE




SERVICE CONTRACTS

Peace of mind where you need it most

Our machines are extremely robust and reliable, but if you need reassurance, a service agreement is what you are looking for.

Performance Maintenance Agreement:

- Higher machine productivity and minimised unplanned service visits due to:
  - an early detection of wear-related faults before they damage your machine
  - the correct adjustment of all mechanical, pneumatic and hydraulic functions
- Full flexibility through easy maintenance scheduling and the possibility of after hours maintenance
- Increased machine lifetime and sales value
- Report and quote for future work enabling better budget control
- Transfer of knowledge
- Thorough documentation on the technical condition of your machine, keeping you well informed
- Piority scheduling
- Phone support
- Machine software backup
- Preferred pricing on replacement parts and consumables
- Preferred pricing on sevice calls and training
- Regular maintenance according to standardised checklists
- Comprehensive maintenance report
- Comprehensive safety check

For further Information contact Deon on 011 976 8600 or email service@retecon.co.za / applications@retecon.co.za

ENRX

Highly efficient. Easy to move.

Ventac is a portable air-cooled induction heating system (25 or 50 kW) that combines high continuous output with small size and low weight (only 36 kg). It has a sophisticated temperature control system that lets you stay in charge of your induction heating process. You get the task done quickly and can easily continue with the next one. Ventac is particularly well suited for pre-heating, post-heating and shrink-fitting applications.

Up to 50 kW of continuous power

Ventac has a continuous output of 25 or 50 kW. Unlike other air-cooled induction heating systems, Ventac will give you the power you need to perform your tasks without interruption. When we conducted a pilot project together with a customer regarding Ventac, the result was amazing: The customer could reduce the time per task from 1 hour to 30 minutes. Ventac uses SiC (Silicon Carbide) transistor technology, resulting in high thermal stability and high efficiency of more than 97%.

The low weight is a heavy argument

Ventac sets a new industry standard with its compact size and a weight of 36 kg – just 1/3 of other air- and water-cooled alternatives. This makes it easy to transport to new work sites, and you can even wheel it around the workshop or factory on an robust trolley from ENRX with place for cables. No lift is needed – good for staff health and workplace logistics.

FICEP
STEEL THINKING

FORWARD
INNOVATIVE SOLUTIONS

DISCOVER OUR NEW CUTTING-EDGE TECHNOLOGY SOLUTIONS

FOR THE **STEEL CONSTRUCTION**

BEAMS PROCESSING

XBLADE

Automatic CNC single spindle drilling, milling and disc sawing line for sections

PLATES PROCESSING

TIPO G25LGE

Automatic CNC drilling, milling and thermal cutting system for large plates

For further Information contact Bradley C. on 011 976 8600 | 083 442 9646 or email machines@retecon.co.za

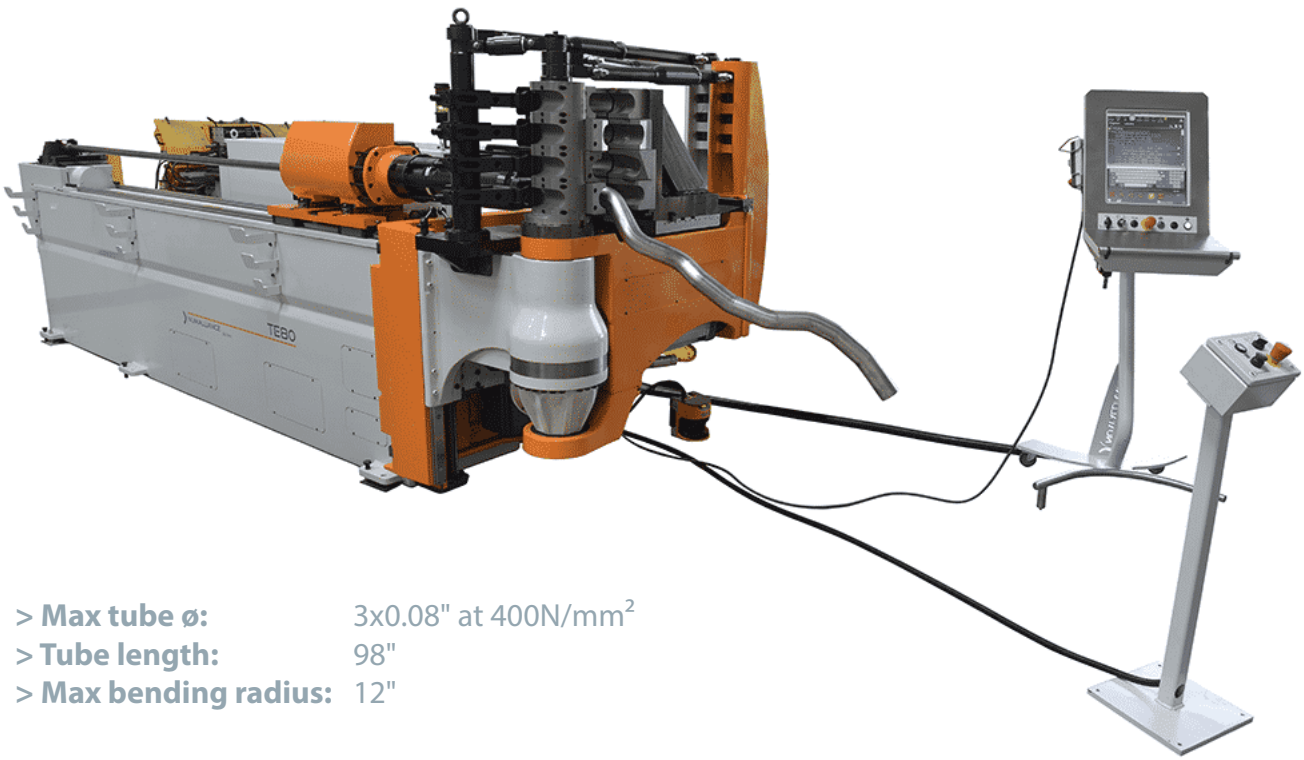
Robomac TF

Feed & Form

Robomac 106TF

Wire capacity up to 600 N/mm²
> From 2 to 6,35 mm

Large Tube Bender - TE80



> Max tube ø: 3x0.08" at 400N/mm²
> Tube length: 98"
> Max bending radius: 12"

bedra
intelligent wires

BRASS WIRE

BRASS WIRE 0.25mm - SOFT I 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 I HIGH TENSILE I FAST I 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

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