

# RETECON REPORT

An information service to our clients



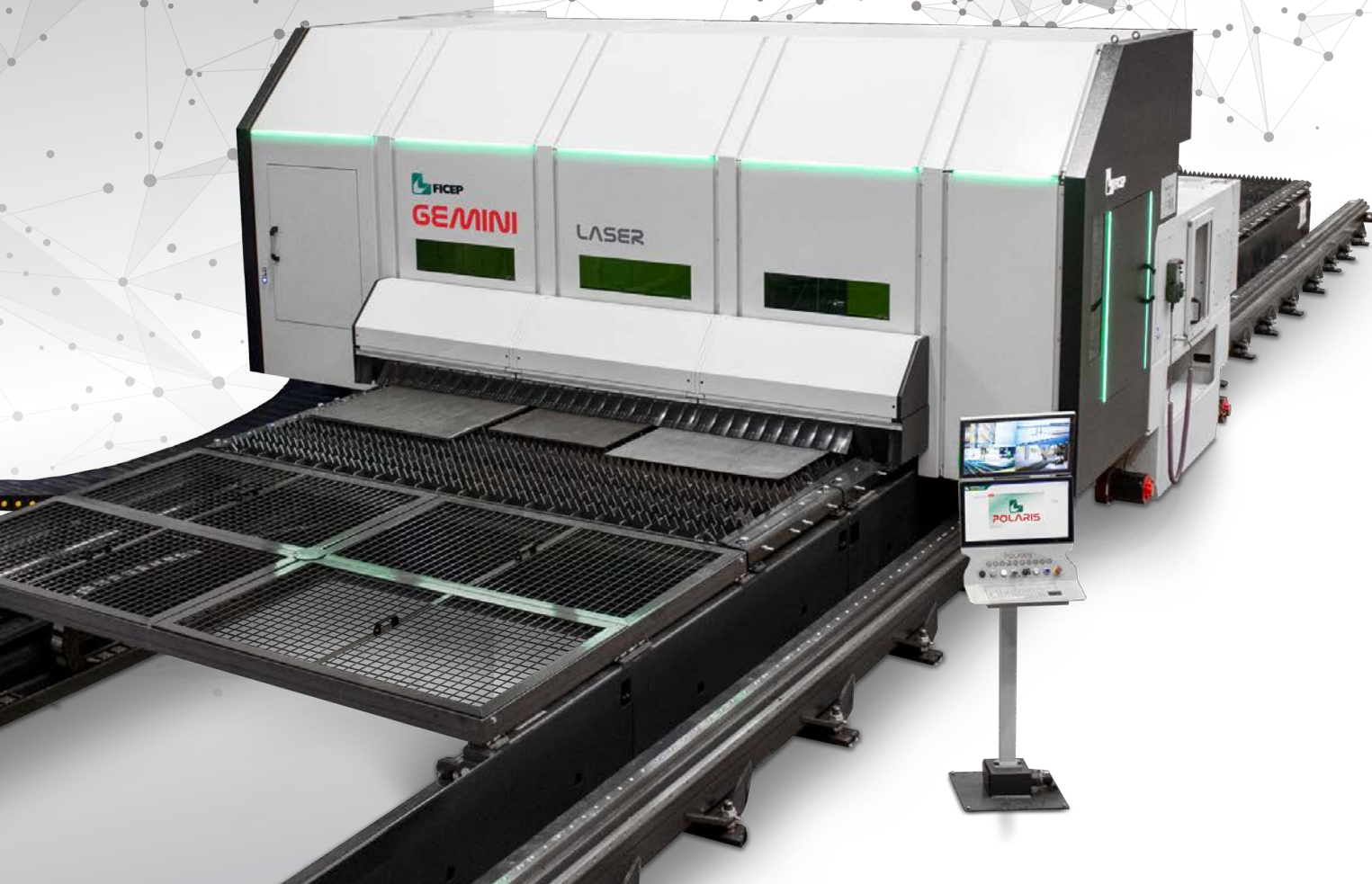
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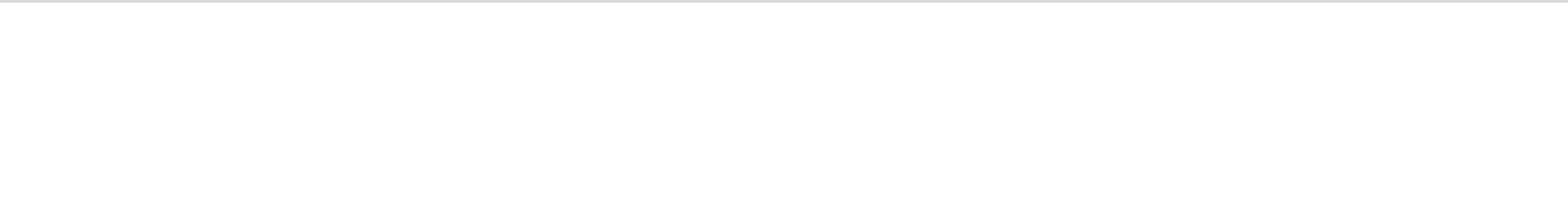
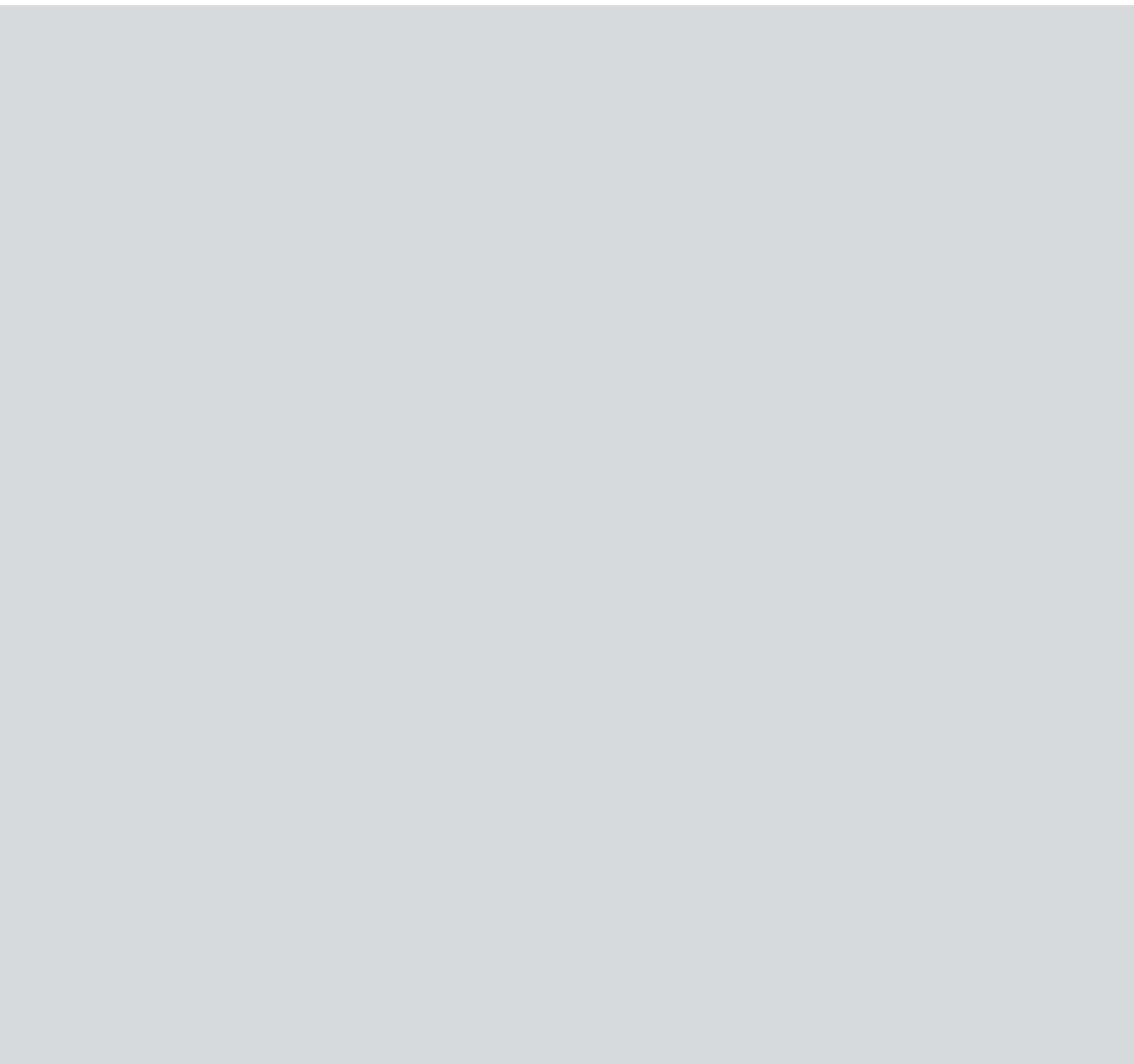
Machine Tools | Cutting Tools | Accessories and Measuring Equipment



## GEMINI LASER

Automatic gantry CNC drilling,  
milling and laser cutting systems  
for large plates





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## PUNCHING MACHINE

# TruPunch 2000 (S18) series

Simple punching - reliable, robust, compact



The TruPunch 2000 is the compact punching machine for companies that want to start using automated punching technology economically or react flexibly to peak loads. With a punching force of 165 kN, up to 900 strokes per minute and an electro-hydraulic drive, it reliably processes a wide range of parts - efficient even at low workloads. Its open design and part removal of 180 × 500 mm offer optimum access, even for large formats. Compared to classic turret machines, it scores with short setup times and high flexibility. Can be optionally automated with the SheetMaster Compact for a continuous material flow in multi-shift operation.

### Flexible use

For an economical start or to cover capacity peaks.

### Efficient at any capacity

High productivity with low operating and setup times.

### Easily accessible

Open design and large part removal for convenient handling.

### Can be automated if required

Expandable at any time with SheetMaster Compact for more speed and safety.

LASER TUBE CUTTING MACHINE

# TruLaser Tube 3000 series

Easy laser tube cutting - reliable, flexible and cost-effective



Cost-effective laser cutting of tubes up to 170 mm diameter - even at low workloads

Whether you want to insource quality, produce at short notice with more flexibility or open up new customers and markets, the TruLaser Tube 3000 fiber is the machine for you – and it is ideal for first-time users or as a supplementary machine thanks to its easy handling.

■ **Particularly cost-effective**

This machine is worth it even when it is not fully utilised.

■ **High-quality bevel cuts**

You can achieve premium quality even with angles of up to 45° with the bevel cutting option.

■ **Reliable functions and robust design**

The machine completes many tasks itself - this saves you money and prevents errors.

■ **Short processing time**

Reliable, efficient, offline, 3D programming software for smart processing



# 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

- 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
- 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



TRUMPF



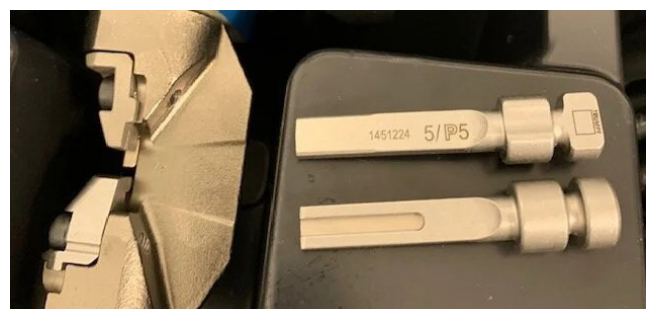
TRUMPF N 500  
TruTool

TRUMPF nibblers:

**Versatile**  
through thick  
and thin.

### Particular strengths:

- Distortion free
- Automatic feed, easy of handling
- Spark-free
- Punches can be reground several times
  
- Multi-directional in 4 directions: forward, reverse or either side
- Burr-free cuts
- With speed regulator for working to scribed lines or templates
- Tool-free tool changing (dies and punches)
  
- Over 5 mm sheet thickness (400 N/mm<sup>2</sup> steel)
  - Rectangular punch: durable and regrindable, yet leaves smallest possible cutting track
  - Multiple cutting directions with tool-free adjustment
  - Reverse cutting provides ease and safety when cutting coil
  - Ideal for cuts across edges, welding seams or doubled sheets

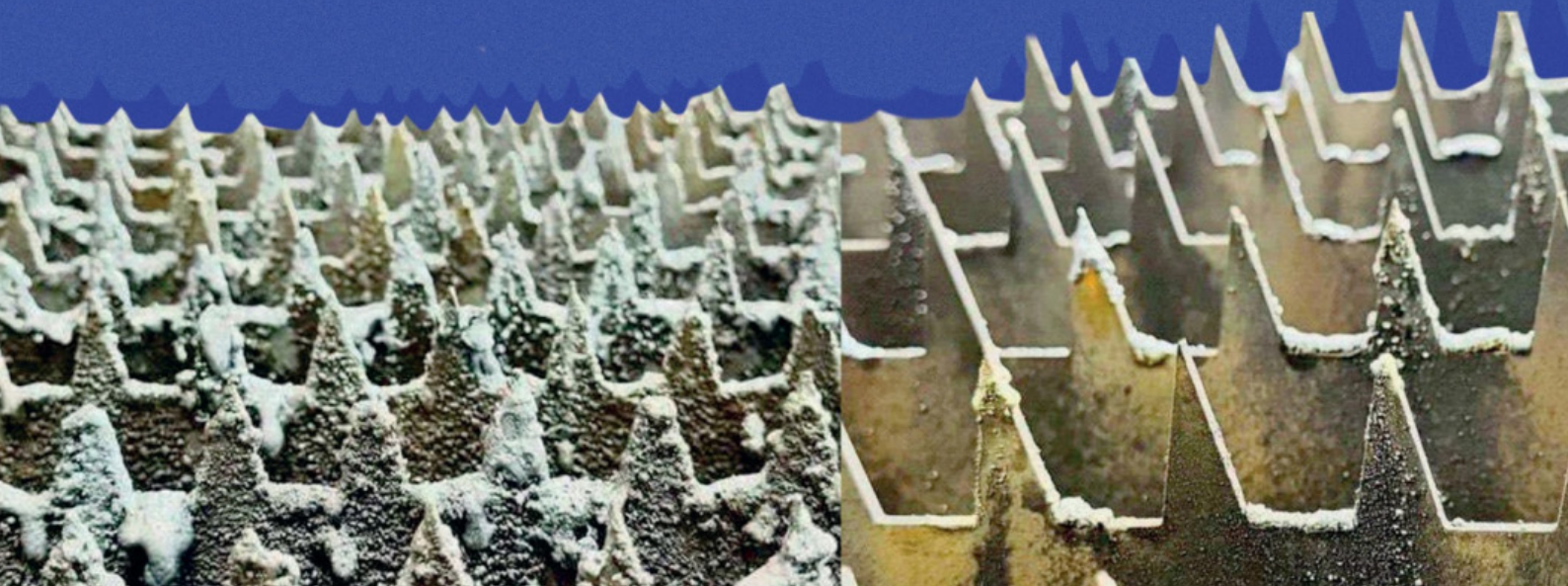


For further information contact Moritz or Mark on 011 976 8600 or email [machines@retecon.co.za](mailto:machines@retecon.co.za)

# Product Launch:

## 3YO TS & 3YO GUN System

Eco-Friendly Protection for Laser Cutting Tables



# 3YO GUN System

Wireless nebulizer for 3YO liquids

Engineered on the factory floor, refined to the last detail.

Lightweight, fast, and easy to use.

Only the essential controls — designed to deliver 3YO products with perfect coverage and zero confusion.

**Fast. Wireless. Rechargeable.**

It's not just the perfect tool.

It's the only one.



**STOP CLEANING,  
keep cutting**

# 3YO TS

Self-Cleaning Solution for Laser Cutting Systems

100% natural, tested up to 150 kW, 3YO TS wipes out cleaning from your cutting table and scrap zone. A few euros now, months of clean cuts ahead.

**No chemicals. No downtime. No excuses.**

Debris won't stick.

Critical components stay protected.

Your laser system lasts longer, and your workspace stays clean and safe.

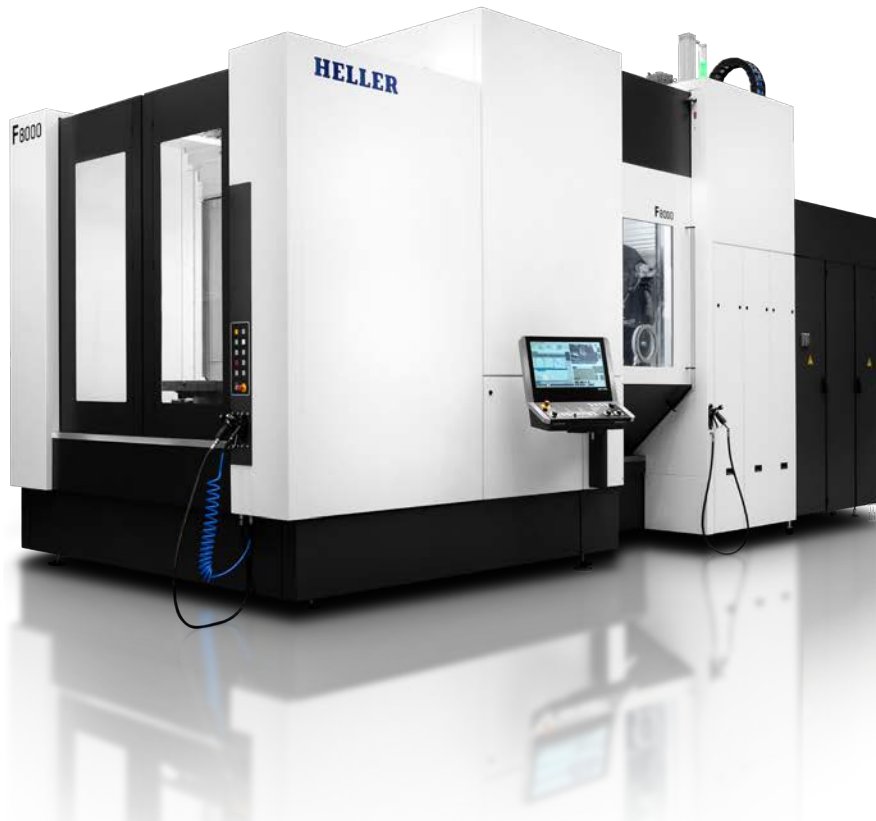
**Exclusively applied with 3YO GUN.**

Shields both the cutting bed and the recovery area beneath it.



## The F 8000 high-performance machining centre

Following the successful introduction of the F 5000 and F 6000 models, HELLER is now extending its new generation 5-axis range at the top end with the F 8000. With numerous innovations that ensure extremely high performance and precision, as well as a small footprint, the F 8000 is suitable for applications in a wide range of industries.



The F 8000 is based on the successful 5-axis F series, which has been on the market for more than a decade. However, it surpasses its predecessors in many areas. For example, at 4.20 metres wide, it has a much narrower footprint and the basic version takes up around 25 per cent less space. In addition, the optional PRO version offers the best technical specifications. Axis acceleration in X/Y/Z has been increased by 50% to 6 m/s<sup>2</sup>. Chip-to-chip time has been reduced by approx. 30 per cent. The F 8000 with PRO package also offers greater precision. Positioning tolerances in X/Y/Z are 6µm – a 25% improvement over the previous model.

Another advantage of the new F 8000 is its large work envelope (X/Y/Z: 1,400/1,200/1,400 mm), which allows larger workpieces to be machined and, above all, the 150 mm longer stroke in the X-axis, which provides even greater machining flexibility. In addition to 800 x 800 mm pallets, it is also possible to use larger 1,000 x 1,000 mm pallets. Head of Development Dr Manuel Gerst explains: "The maximum pallet load is 2,000 kg. And from the end of 2024, we offer an optional pallet load of up to 3,000 kg."



# MILL S/X

S 400 / S 500 / X 400

***The most compact and dynamic  
milling machine***



A member of UNITED MACHINING SOLUTIONS

For further information contact Gábor on 011 976 8600 | 083 327 1928 or email [machines@retecon.co.za](mailto:machines@retecon.co.za)

## Laser Systems

### ALFlak

SELF-PROPELLED, ROBUST, PROGRAMMABLE

The ALFlak's laser arm projects a great distance to effortlessly reach its welding position, even in deep or complex molds. Welding seams up to 500 mm are possible without relocation. Your advantage: The welding process can be performed without constant repositioning.

The ALFlak comes in two versions: with a self-propelled caterpillar track or a model that can be moved manually.

Choose the laser source that fits your requirements: You can choose Nd:YAG 200 W or 300 W laser sources or fiber lasers with output of 300, 450, 600 or 900 W.



### 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.



## Mag Brush Maxx Large

- magnetic sweeper
- width of the collecting bar 17,7" / 450 mm
- collects all magnetic materials, such as steel chips, metal waste etc
- magnetic sweeper is equipped with wheels
- you can release collected material by the simple feed of the handle part up
- telescopic pole for comfortable using
- packed in a paper box
- producer NKO MACHINES

**Technical data:**

Working width 450 mm / 17.71 in  
 Adjustable telescopic handle 920 -1250 mm / 36.22 - 49.21 in  
 Weight 5,5 kg / 12 lb

**Name:**

Magnetic sweeper Mag Brush Maxx Large

**Art. Nr.**

NMF0107



## Mag Brush

- collects all magnetic materials, such as steel chips, metal waste etc
- you can release collected material by the simple feed of the handle part up
- packed in a paper box

**Technical data:**

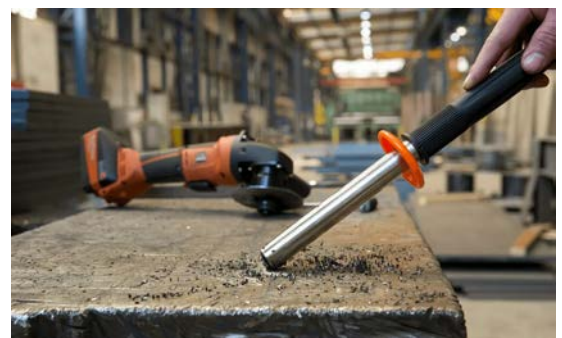
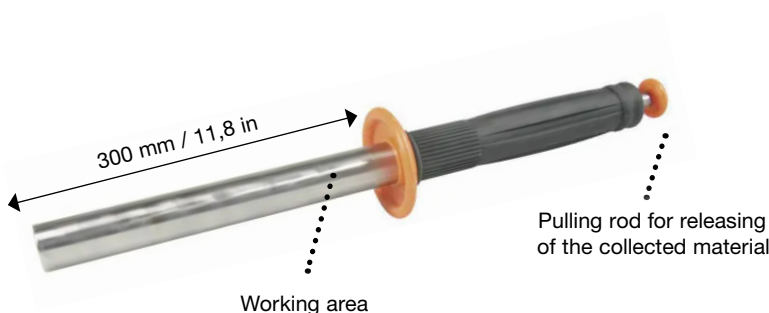
Working lenght 300 mm / 11,8 in

**Name:**

Mag Brush

**Art. Nr.**

18654



# 3-in-1 workflow

## The patented MARVELSCAN solution

A unique photogrammetry system lets the MARVELSCAN offer 3 distinct inspection workflows from a single device.



### 3D scanning

Using on-part targets, MARVELSCAN allows for high-productivity 3D scanning inspection, including Dynamic Scanning of unfixtured objects.



### Target-free 3D scanning

With its built-in photogrammetry system, the MARVELSCAN can inspect with no need for targets placed on the part by using a specially installed target wall for referencing.

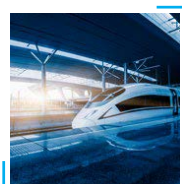


### Photogrammetry

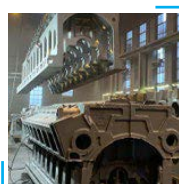
By using the MARVELSCAN's photogrammetry system as a standalone photogrammetry tool to augment 3D scanning, measurement accuracy is significantly increased for larger parts.



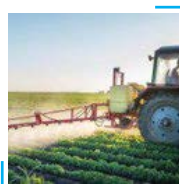
## Typical industry sectors



Railway



General manufacturing



Industrial equipment



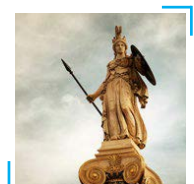
Aerospace



Automotive



Marine



Non-manufacturing

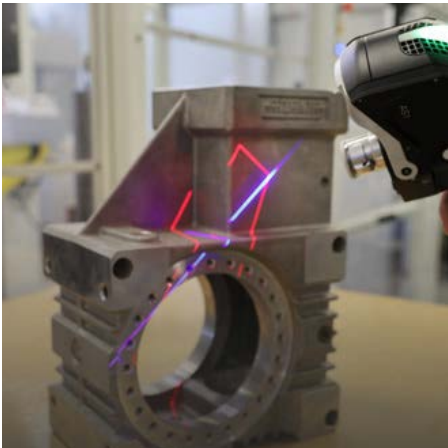
### Why Absolute Arms

# Easy to use

## Designed for practical measurement delivery

Measuring in challenging environments can be a problem. Vibrations and temperature changes can mean that accuracy and time are lost. Some areas of the part might be difficult to reach.

Absolute Arms are easy to use, reduce fatigue, and maximise productivity, supporting your measurement processes to stay consistently efficient and error-free.



## Quick, hands-on control.



The OLED wrist-mounted touch screen lets you monitor results and adjust settings instantly, while haptic feedback alerts you without needing to check the screen—perfect for tight spaces and faster, more efficient measurements.

# Intra Range

## Roughness and contour measurement. Measure both with a single gauge.

Housed in a rugged casing, the Intra has a proven history of maintaining accuracy of measurement without the need for constant maintenance or support.

Quality, flexibility and ease-of-use have enabled the Intra to become a portable shop-floor standard across a wealth of different industries. The Intra combines industry leading specification with simplicity of operation for unbeatable practicality and value.

### Advanced contour measurement.

Cost effective, robust and portable contour solution with built in 90 mm Z height and optional 350 mm column.

- Simple, single user interface for calibration, measurement and analysis.
- Patented ball calibration.
- Precision glass scale.
- Excellent temperature stability.
- Roughness and contour on single gauge.



### Gauge linearity.

Unless your measurements are all taken within the same vertical position of the gauge range and never exceed the amplitude of the step height master, the data you collect may be non-linear which will cause incorrect results.

Using ball calibration is more reliable than the step height master as this eliminates non-linearity.

The Intra is calibrated using a unique patented ball calibration to check linearity of the entire gauge range. Many other systems can only use a few points in the range.

### Traverse accuracy.

Many roughness checkers are time based, collecting data for a fixed period of time instead of a precise, constant distance. Anything that affects speed of traverse – wear, dirt, slippage, etc. – affects the quantity and spacing of the collected data points which in turn affect the measurement results.

The Intra utilises a glass scale and reading head to ensure that data collection is accurate and consistent.

Every measurement on every instrument is calculated from the exact same quantity of identically spaced data points.

# Battery Operated Hand-Held Marking System

## FlyMarker® mini 85/45 plus 4,3"

### TECHNICAL SPECIFICATIONS

#### 100 % mobil marking

- Ergonomic device design for energy-saving, non-tiring work.
- Heavy and immovable components are marked on site.
- Self-sufficient work without power and compressed air cables.
- Reduction of occupational accidents.



Marking area (x/y)  
85 x 45 mm (120 x 45 mm optional)

Available character heights  
1,0 to 44,9 mm

Fonts  
Medium spaced lettering similar to DIN 1451  
in single dot characters (size 5 x 7 or 9 x 13)

Drive of the marking pin  
Electromagnetic

Available characters  
Numbers 0 - 9, capital letters / small letters A - Z; a - z  
various punctuation marks. , / etc.

Interface  
2x USB-A, 1x USB-B, 1x Ethernet

Height tolerance compensation  
Up to max. 5 mm  
(constant marking depth also on uneven surfaces)

Weight  
3,1 kg incl. battery

Battery capacity  
4,0 Ah 18 V (Lithium-Ion)  
8,0 Ah 18 V (optional)

Marking force  
30 possible force settings  
(constant impact performance through the complete  
battery runtime)

Delivery  
FlyMarker® mini 85/45plus 4,3"  
2x battery 4,0 Ah / 18 V  
1x charger  
Prism stop  
Carrying case



## STITCHWELDER *PRO*

The new generation of our Stitchwelder builds upon the most reliable and recognized Stitchwelder 1000/1270/1540 in the industry.

The guaranteed air-tight seam can be achieved through stitch welding or continuous welding application. Moreover, Spiro® is emphasizing its leading role in the HVAC industry by equipping the Stitchwelder with a user-friendly touchscreen. This industrial novelty serves to facilitate the production set up and allows the user to save program settings.

The Stitchwelder *PRO* also features the fastest welding speed in the industry with up to max. 15 m/min., underlining the continuous productivity and efficiency of the machine. Naturally, the welded seam is constant from the beginning to the end, sealing or paint cover is not required, no need to clean or rework the welding rolls, and eliminating burnt galvanized coating results in less finishing work. Finally, the 6 to 8 mm overlap keeps your material costs at a minimum.



### Unique Features

- » New Design
- » Increased Welding Speed
- » Air-Tight Seam Guaranteed!

### Technical Data

<b>Welding Length</b>	50 mm - 1000/1270/1540 mm (2" - 40"/50"/60")
<b>Diameter Range</b>	75 - 1000 mm (3" - 40")
<b>Material Thickness</b>	0.4 - 1.0 mm (0.016" - 0.039")
<b>Overlap</b>	6 mm (0.24") for 1000, 8 mm (0.31") for 1270 & 1540
<b>Wire Diameter</b>	2 mm (0.078")
<b>Adjustable Welding Speed</b>	2 - 15 m/min. (6.6 - 49.2 fpm)
<b>Maximum Output</b>	700 segments/hour - size 315 mm/90°





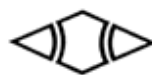
## KOIKE CUTTING NOZZLES

### The Trademark for High Quality Cutting

#### Features and Benefits

- **Sharp, high quality cuts**
- **Small kerf**
- **Limited upper edge melt**
- **Limited upper edge slag**
- **Limited under slag**
- **Steady and safe cutting operation**
- **Cutting with small gas consumption**
- **Variety of selections**
  - \* Standard nozzle
  - \* Divergent high-speed nozzle
  - \* Out-mixing heavy duty nozzle
  - \* Speciality nozzles
- **Excellent quality management**

All KOIKE 100 Series cutting tips are designed to mix the fuel and the oxygen used for preheating inside the cutting-tip. This is recognized as one of the safest methods. The KOIKE D7 cutting tips are one of the most technically advanced cutting tips available, providing safety and accuracy while saving money in time and gas costs. Our high speed D7 Series cutting tips with the divergent tip increases cutting speed up to 28% over standard tips and gas consumption is reduced to 26%. A stainless steel liner helps them to last up to 5 times longer.



#### The trademark of quality

All genuine KOIKE cutting nozzles are marked with KOIKE Japan logo.



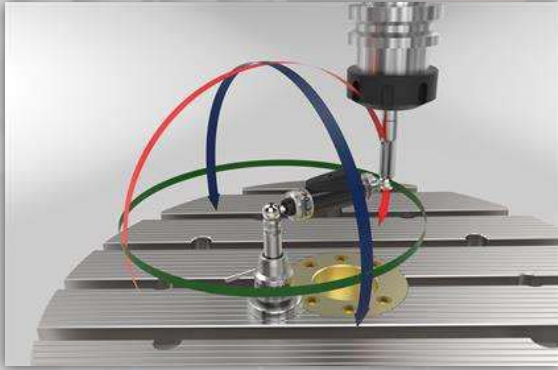
Strong cutting oxygen stream from a divergent nozzle: Photo taken from KOIKE in-house performance test. Nozzle tip at 275 mm above the plate, nozzle 106-D7#0

# SPECIAL SERVICES OFFERED:



RETECON SERVICE (PTY) LTD  
Your Partner in Metal Working

**Ballbar, Laser, Clamp Force, Vibration and so much more...**



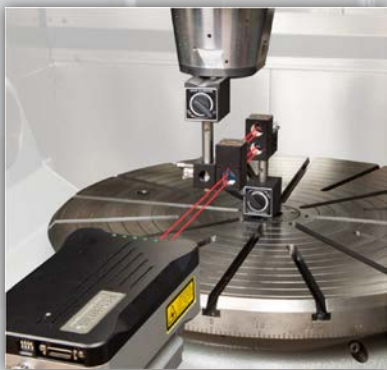
## Benefits of ballbar testing:

- + Ensure accurate parts, first time, from CNC machines
- + Reduce machine down-time, scrap and inspection costs
- + Demonstrate compliance with machine performance and quality management standards
- + Implement fact based predictive maintenance

## Benefits of measuring spindle drawbar force:

The use of this economical spindle drawbar force checking tool will maximize machine up time and minimise spindle down time costs associated with:

- + Wear and damage of drawbars
- + Clamping collets
- + Pull studs
- + Toolholders
- + Tool tapers
- + Eliminates vibration



## Machine verification

The laser is able to directly measure geometric errors in a machine independently, unlike laser tracker systems. This gives confidence in the measurements and makes it possible to isolate errors.

Machine accuracy can then be improved by:

- + Making targeted alterations to the machine's assembly
- + Using the data to apply error compensation

## Benefits of measuring power quality:

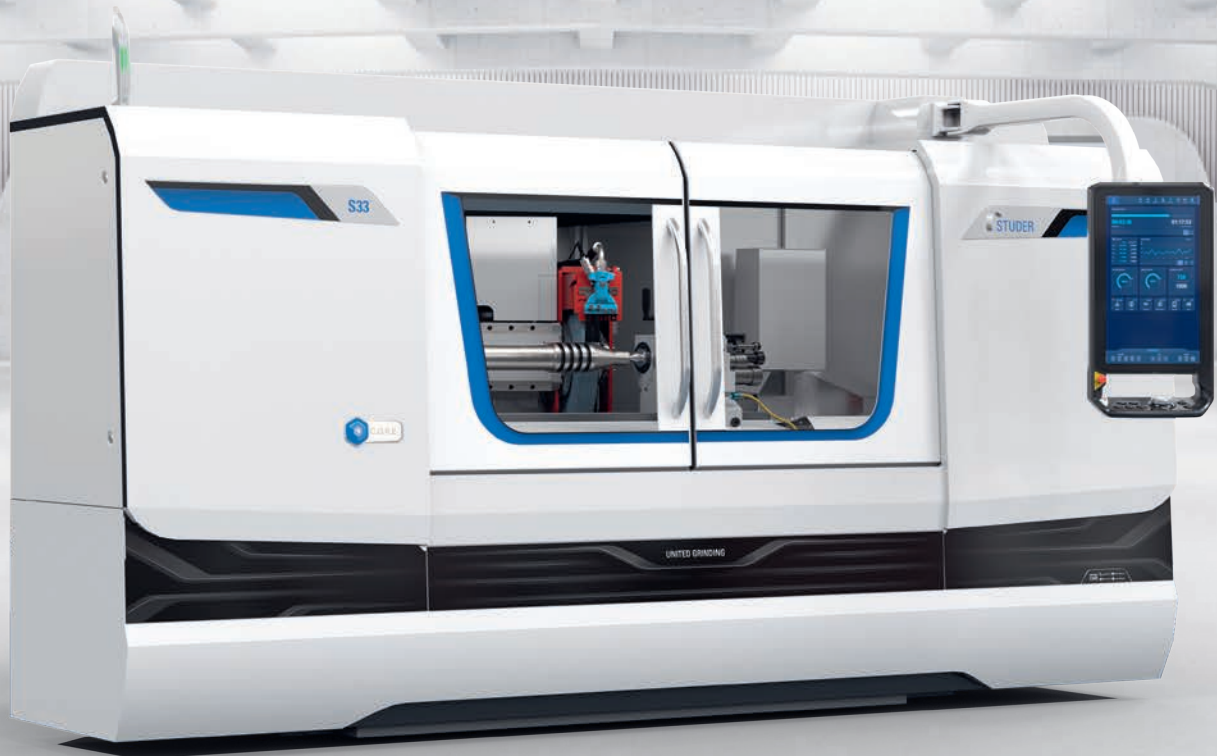
With comprehensive data, an informed decision is key to ensure the correct solution is implemented. There are many solutions available to improve the quality of power supplied to your machinery:

- + Automatic voltage regulators
- + Overload protection devices
- + Power factor correction devices
- + Line filters
- + Transformers



# S33

UNIVERSAL CYLINDRICAL GRINDING MACHINE



Universal and flexible. These are the features of the new S33, the 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 400 mm / 650 mm / 1000 mm / 1600 mm and a centre height of 175 mm. The changeover from grinding between centers to live spindle grinding takes place in record time. Complex workpieces are easily ground in just one clamping.



All the manual operations of layout, marking, thermal cutting and extensive grinding are eliminated.

All thermal cutting operations can be done in line with a drill line to save time and valuable shop space.

The space dedicated to process these tasks manually is greatly decreased.

The labor required for complicated operations is cut to the minimum.

Human error for manual operations is eliminated.

## NOZOMI

Automatic 9 axes CNC  
thermal coping robot



# Robomac TF

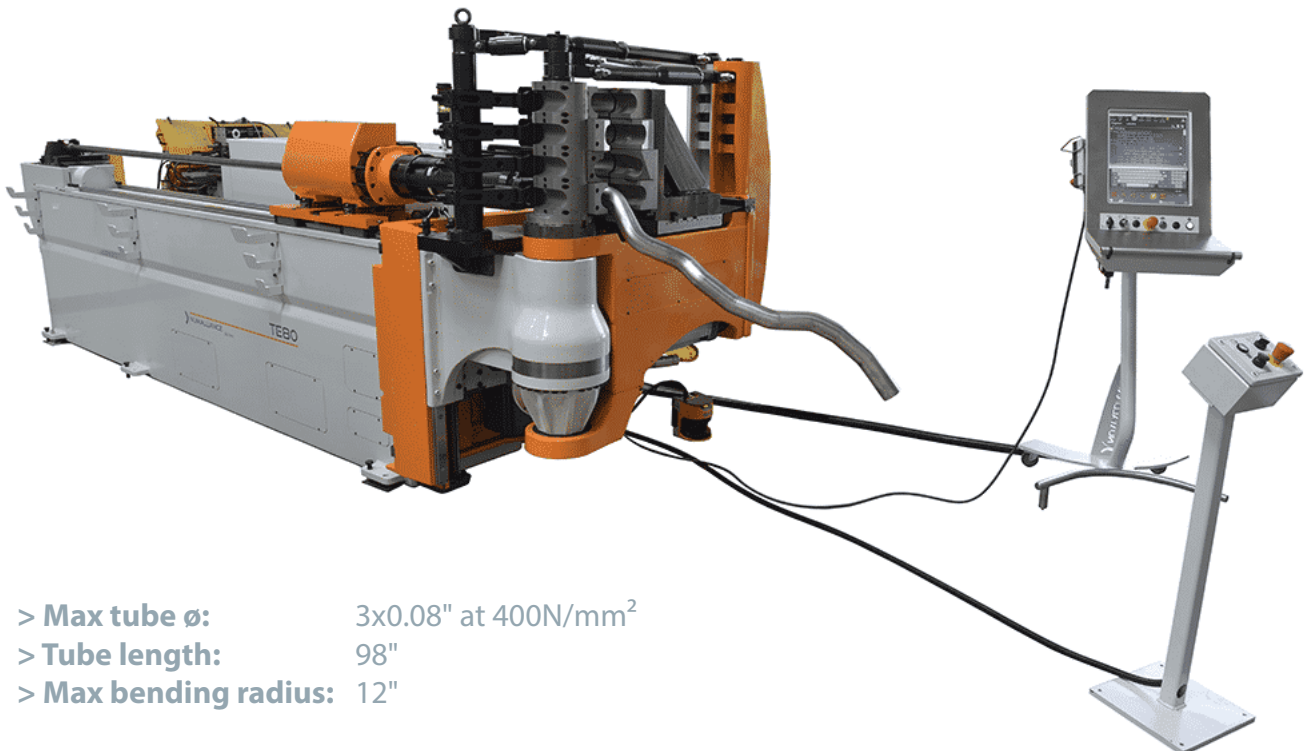


Feed & Form  
Robomac 106TF



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

# Large Tube Bender - TE80



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

# RETECON REPORT

An information service to our clients



2025 | 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/Nmm<sup>2</sup>

- 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/mm<sup>2</sup> 4kg soft
- Bronco Cut 520 N/mm<sup>2</sup> 8kg soft
- Bronco Cut 520 N/mm<sup>2</sup> 16kg soft
- Bronco Cut 520 N/mm<sup>2</sup> 25kg soft

**Great Value FOR  
Money!!**

**EDM WIRE**

### CONTACT DETAILS ▼

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