

# RETECON REPORT

An information service to our clients



2020 | 1

Machine Tools | Cutting Tools | Accessories and Measuring Equipment

Celebrating

50

years  
anniversary

1970 - 2020

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# TruLaser Tube 3000 fiber

The machine that's always  
worth it for laser tube cutting.



## Cost-effective

even when it is not  
fully utilized

## Reliable

thanks to robust design and  
intelligent functions

## Accelerate growth with laser tube cutting

The world we live in is growing. And with it the demand for products on a large scale and in a wide range of materials. Tubes are an elementary part of this. With high growth rates, the market for laser-cut tubes offers exceptionally good chances of success. Choose laser tube cutting to stay on the cutting edge in the future.



Max. outside diameter of round tube in mm: 152\*  
 Max. outer circle diameter of rectangular tube in mm: 170  
 Max. workpiece weight in kg/m: 18.5 (120/148\*\* kg total)

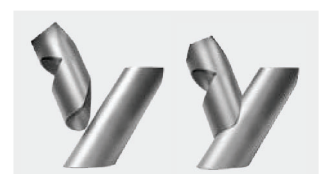


**Easy**  
 to handle

**Precision**  
 cutting and clamping

# Redesign and save on costs

Innovative tube designs save time and give you the technical edge: With bending frames, for example, you will need fewer parts. Positioning aids facilitate error-free assembly. The amount of work required for downstream work steps, for example welding, is noticeably reduced. And all this with just one machine.



## Your powerful and flexible 5-sided machining solution for more efficiency and productivity!

The CMX U is the unrivaled winner in its segment - the modern **C-frame design** with **integrated NC-controlled B- and C-axis table** and inherently **stable, mineral cast composite bed** delivers maximum **stability**. Combined with the **recirculating roller guideways**, it delivers the **highest precision** and the **best surface finish** - with **direct measuring system in standard!**

### HIGHLIGHTS

#### **Stability and reliability without any compromise!**

- + FEM-optimized design
- + Thermal compensation ensures stable and highest quality production process
- + Roller guideways for highest rigidity and stable machining process

#### **More efficiency and productivity**

- + with dynamic axis drives; shorter idle-times up to 20% and 30m/min rapid traverse in all axes

Explore the entire range of **leading technological 5-axis performance of DMG MORI with the CMX U machines.**



# 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 accidentally mistyping offset values.

# GAPGUN<sup>®</sup>PRO2

90% REPEAT BUSINESS

THE MOST ERGONOMIC  
PRODUCT ON THE MARKET



## THE INLINE SOLUTION

### Rely on a robust tool

GapGun Pro2 is IP rated and drop tested. Proven to take 1 million measurements in one year.

### Take ultra-fast measurements

The GapGun Pro2 has a measurement cycle of just 1 second.

### Enjoy a portable and ergonomic tool

The GapGun Pro2 can be taken to the part and can run for up to 8 hours.  
100% operator approved.

## THE TOOL FOR OFFLINE QUALITY CONTROL INSPECTION

### Measure 100s of points of the car easily

The full colour graphic check plans can be tailored to your application and show operators exactly where to measure.

### Ensure an audit trail for all measurements

GapGun Pro2 captures measurement digitally. Sensors are calibrated in an ISO17025 certified laboratory.

### Get repeatable results

For the sharpest business intelligence.

**THIRD DIMENSION**  
ADVANCING MANUFACTURING

25+ YEARS OF METROLOGY EXPERIENCE

# Battery Operated Hand-Held Marking System FlyMarker® mini 120/45



## OPTIONS



Logo

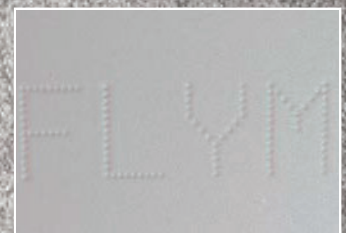


Line

## TREATMENTS



Galvanized

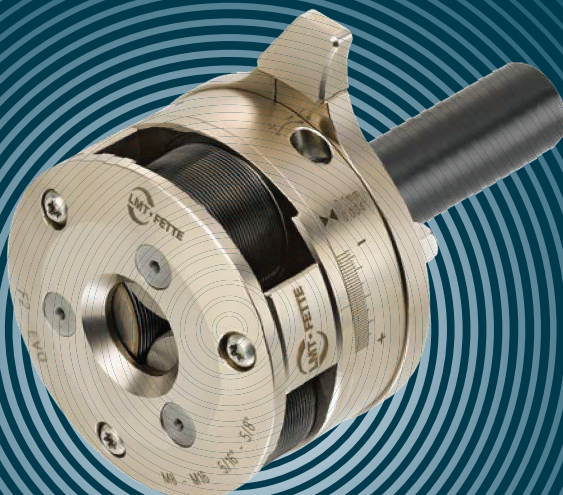


Varnished

For further Information contact **Joe Tippel** or **Moritz Herrmann** on 011 976 8600 or email [machines@retecon.co.za](mailto:machines@retecon.co.za)



## LMT Tools Advances Thread Rolling Development



LMT Fette has demonstrated how to combine quality and speed within this field with its new generation EVOline thread rolling head.

It creates threads whose fatigue strength is three times greater than that produced using cutting techniques.

### Simple handling – optimized processes

LMT Tools brings together the expertise of leading specialists in precision tool technology.

For further Information contact **Joe Tippel** or **Moritz Herrmann** on 011 976 8600 or email [machines@retecon.co.za](mailto:machines@retecon.co.za)



## All of the Performance, **All the Time**

### New RA8 series Absolute Arm with RS6 scanner

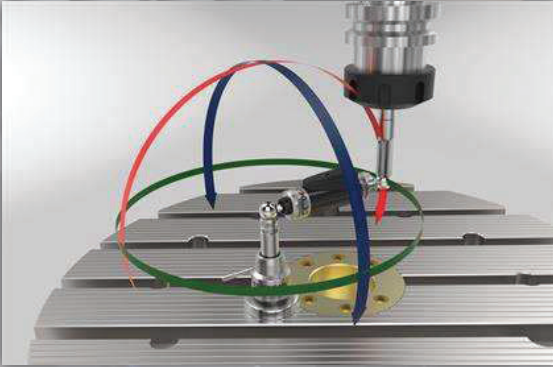
The flagship of the Absolute Arm range, the Absolute Arm 7-Axis, delivers tactile probing and laser scanning in a uniquely ergonomic package. It's the clear choice for high-end portable measurement applications. With usability central to its design, this is an articulating measuring arm that can't be beaten when it comes to ease of movement and ease of measurement.

# 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



# TruTool TKA 1500

Application: For cut-outs starting from 55 mm diameter

## The advantages at a glance

**> Great guide for the best results**

Handle shape, size and positioning are perfectly designed to work together

**> Powerful**

2600 Watt motor for high performance

**> Regular edge quality**

Quality results without re-working and constant angle settings

**> Easy set up**

Versatile setting of the bevel length without tools

**Further advantages**

- Very high working speed
- Work without sparks
- Compact design, robust machine
- Low machine weight
- Easily replaceable cutters

**> Emission-free process**

Free of burred and oxidized cutting surfaces, dust free and no material changes



Application: For interior and outer contours



# Universal Milling Machines

For further Information contact Mike Lee on 011 976 8600 | 083 441 3391 or email [machines@retecon.co.za](mailto:machines@retecon.co.za)

Grinding, rounding, deburring and  
descaling of Laser cut / Punched parts



## WEBER



Planetary head technology for all-round edge machining with cup brushes.



Rubber-coated grinding rollers for surface finishing and deburring.

For further Information contact Graham Rome on 011 976 8600 | 083 324 4458 or email [machines@retecon.co.za](mailto:machines@retecon.co.za)

# Robomac TF



Feed & Form  
Robomac 106TF



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

For further Information contact Mike Lee on 011 976 8600 | 083 441 3391 or email [machines@retecon.co.za](mailto:machines@retecon.co.za)

The new CUT E series  
from GF Machining Solutions delivers high  
cutting performance and boosts productivity



GF Machining Solutions



## CUT E 350/600

The CUT E 350/CUT E 600 range puts efficiency at the touch of your finger with a smart, easy-to-use human-machine interface (HMI) and onboard technologies that streamline your job setup, improve your cutting speed, improve your surface finish, protect your valuable workpieces, and ensure your process robustness.

Expert solutions  
for your success

# MACKMA

GRUPPO MASSARO

## PIPE BENDERS where "QUALITY COMES FIRST"

- The only non-mandrel machines in the market that allow both right & left bending.
- Simple & advanced PLC to bend pipes.
- Modular machine.



For further Information contact Mike Lee on 011 976 8600 | 083 441 3391 or email [machines@retecon.co.za](mailto:machines@retecon.co.za)

## LEADING GARBOLI SUPPLIER !!



### LPC 500

Planetary grinding machine with abrasive belts for grinding, buffing and satin finishing **STRAIGHT** or **BENT** items made of stainless steel, brass, iron, aluminium or any other kind of metal, having round, oval, elliptical or irregular section.

Main feature in comparison with other machines is that this unit is equipped with **2 INDEPENDENT MOTORS**: 1 for disc rotation and 1 for abrasive belts rotation.



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## 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 NEW

- 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 NEW

#### 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

SCAN HERE  
for contact:



Great Value FOR  
Money!!

## EDM WIRE

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