

RETECON REPORT

An information service to our clients



2020 | 2

Machine Tools | Cutting Tools | Accessories and Measuring Equipment



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CELEBRATING 50 YEARS IN THE METAL WORKING INDUSTRY





BENDING MACHINES

TruBend Series 3000



Cost-effective standard machine

The TruBend Series 3000 brings together the best TRUMPF quality with simple operation and an attractive price-performance ratio. This means you can manufacture economically even in low utilization, and profit from precise results as well as the highest safety standards. Through the perfect interaction of all components, the TruBend Series 3000 machines are the fastest bending machines in their class.

■ Fast tool change

For complete clamping tool flexibility, choose between different system options.

■ Convincing design

Due to the closed frame, you can use the entire bending length without restrictions.

■ Well positioned

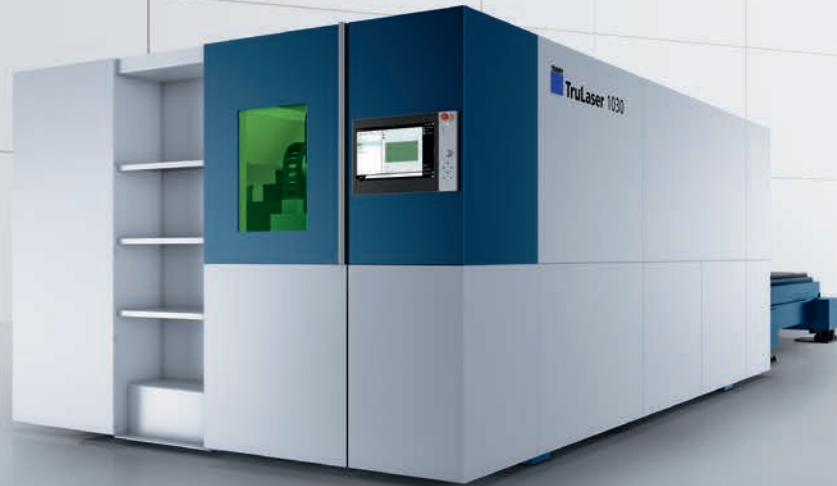
The backgauge positions blanks precisely. You can select a 2, 4, or 5 axis backgauge.

■ Perfect angle

With the ACB Laser angle measuring system, even the first part is a success.

2D LASER CUTTING MACHINES

TruLaser 1030 fiber



Your first step into high-quality 2D laser processing at a low price

First-class TRUMPF quality and expertise with low investment and operation costs – this is what you'll get with the machines from the TruLaser Series 1000. The TruDisk solid-state laser impresses with its robust design and power that will last for years. The machine also makes the cut with its easy-to-learn operation, as well as numerous intelligent functions. Due to its convenient interfaces, the machines of the TruLaser Series 1000 are also easy to automate or to connect to other machines.

■ Always reliable

Numerous functions, such as collision protection, will safeguard your investment throughout the entire life-span of your machine.

■ Multi-functional and productive

The TruDisk laser enables you to cut all common types of sheet metal, quickly and to a high standard.

■ Variable and connectable

The Central Link function and numerous automation options enable you to connect your machine both digitally and physically.

■ For your application

Available in different variants – with a length of up to max. 6 m; with a laser power of up to max. 6 kW.

CLX 750

The new benchmark in universal turning!

2.000 Nm for heavy machining of workpieces up to 600 kg – with direct measuring system in standard!

Max. turning diameter	700 mm
Max. swing diameter	950 mm
Max. work piece length with a tailstock (can be machined)	1,290 mm
Max. chuck size	500 mm
Max spindle motor speed	2,000 rpm
Drive power rating (100% DC)	37 kW (AC)



Chain Wheel
Engineering



Connector
Automotive



Balancing Flange Adaptor
Engineering



Connector
Aerospace



V-Pulley
Engineering

Complete machining of complex parts thanks to counter spindle and Y-axis

- + Highly dynamic spindle drive 48 kW (40% DC) and 2000 Nm (40% DC) with max. speed up to 2.000 rpm
- + Counter spindle as integrated motor spindle ISM 76 with power 32 kW (40% DC), 360 Nm (40% DC) and max. speed up to 4.000 rpm with the possibility for rear-face machining.
- + Y axis with travel range ± 80 mm for superior milling operations, i.e. for complete lateral surface machining

NEW: Highest level of precision and accuracy thanks to direct measuring system in standard

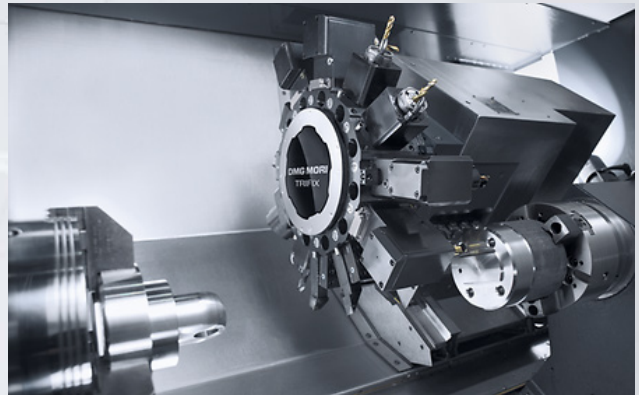
- + enhanced accuracy of the machining process and improved process stability
- + well-proven solution from MAGNETHON for highest accuracy and precision

Compact design with large working area for the machining of workpieces up to 600 kg!

- + Machining of parts with diameter up to $\varnothing 700$ mm
- + Travel in Z axis: 1300 mm
- + Small and compact footprint of 8,9 m²

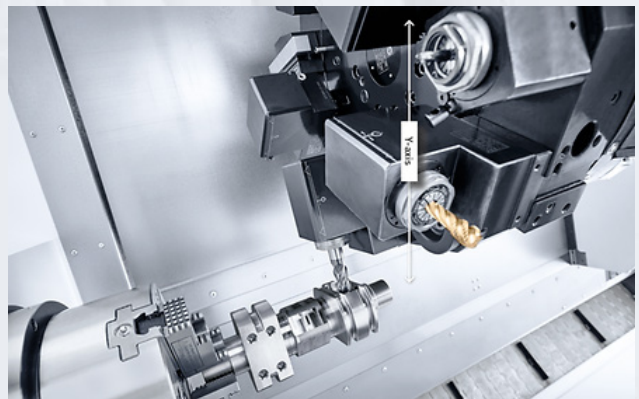
NEW: IoTconnector for digitized and connected production processes in standard!

- + DMG MORI NETservice and MESSENGER preinstalled
- + Quick and easy installation in the control cabinet via LAN cable
- + Specially preconfigured for your machine prior to delivery via the machine's serial number
- + Standard interfaces allow fast and reliable data exchange
- + Integrated firewall with automatic updates guarantees maximum protection for your machine



More efficiency for machining of long workpieces

- + Bar capacity $\varnothing 127$ mm in standard
- + Optional steady rest up to size RX5 ($\varnothing 430$ mm)
- + Optional automation interface according to DMG MORI standard



3D controls with the unique 19" SLIMline touch control panel - with SIEMENS or FANUC.

- + Create your own individual solution!
- + 19" DMG MORI SLIMline multi-touch control panel and SIEMENS for intuitive use and easy operation
- + 19" DMG MORI SLIMline touch control panel and FANUC for 3D simulation with easy contour verification

Sheet-Metal machining in a most compact form

WEBER's small-but-mighty-model.

For deburring, rounding, descaling and surface grinding of your sheet-metal parts with a dry grinding procedure

WEBER TTSC | Deburring machine

The **TTSC** model range is the **most compact** of all WEBER grinding machines, equipped with a **variable operating** height. Different machining methods up to three machining stations can simply be combined with each other for deburring, rounding, descaling and surface grinding.



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



Rubber-coated grinding rollers for surface finishing and deburring.



Technical data

- Working widths 600, 1100 und 1350 mm
- Working height 800–900 mm (variable)
- Version with 1 to 3 grinding stations
- Workpiece thickness 0.8–100 mm
- Infinitely variable feed speed
- Grinding belt length 1900 mm
- Grinding belt drive up to 11 kW
- “i-Touch” controller

You *REALLY* have to try the



FlyMarker® mini 85/45 *plus*

Battery Operated Hand-Held Marking System

BENEFITS AT A GLANCE

- Integrated controller (All-In-One)
- Extra strong magnet for deep markings (optional)
- Integrated user friendly keyboard mat with numeric keys
- Attractive price-performance ratio
- Switchable LED lighting of the marking field
- Pollution-protected electronics and interfaces
- Drag chain guided electric cables
- Laser pointer for simulating the marking process
- One or two-handed operation



Logo



Data Matrix Code



Line

Other size options available:
FlyMarker MINI 65/30
FlyMarker MINI 120/45



Absolute Arm

Usability | Versatility | Productivity | by design

Often, the time needed to scan a part is the most important factor when planning measurement tasks. The part might only be available for measurement for a limited time or restricted to an inconvenient location. That's why Hexagon has created the RS-SQUARED Area Scanner, the world's first structured light scanner mounted on a portable measuring arm.

RS-SQUARED is designed to ensure scanning is as fast as possible by combining the speed of an area scanner with the versatility of a measurement arm. Large 'tiles' of data are captured instead of the laser lines, but without the need for the reference markers that are typical of other area scanners. It's ideal for users who have large backlogs of parts or limited time in which to scan them.

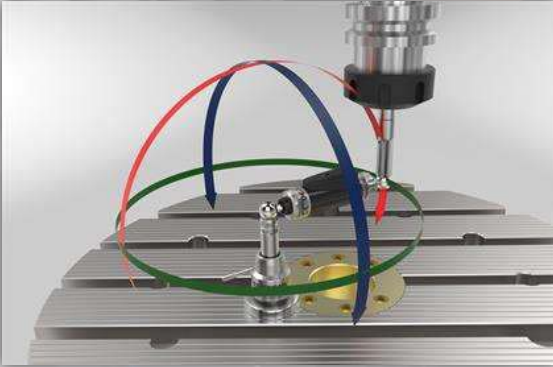


SPECIAL SERVICES OFFERED:



RETECON SERVICE (PTY) LTD
Your Partner in Metal Working

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



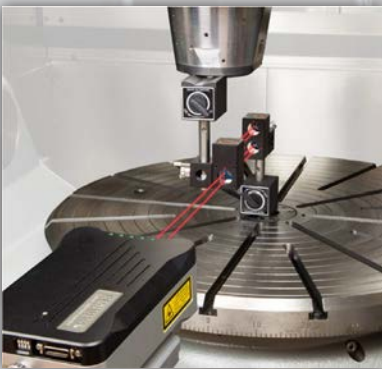
Benefits of ballbar testing:

- + 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
- + Toolholders
- + Clamping collets
- + Tool tapers
- + Pull studs
- + 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
- + Line filters
- + Overload protection devices
- + Transformers
- + Power factor correction devices



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

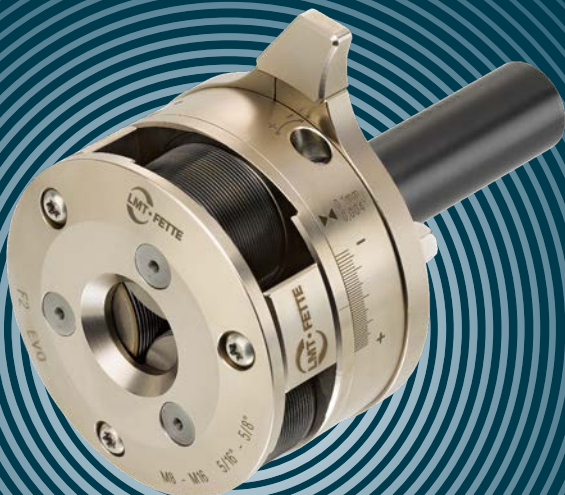


Universal Milling Machines

For further Information contact Mike on 011 976 8600 | 083 441 3391 or email 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 Moritz or Joe on 011 976 8600 or email machines@retecon.co.za

Robomac TF

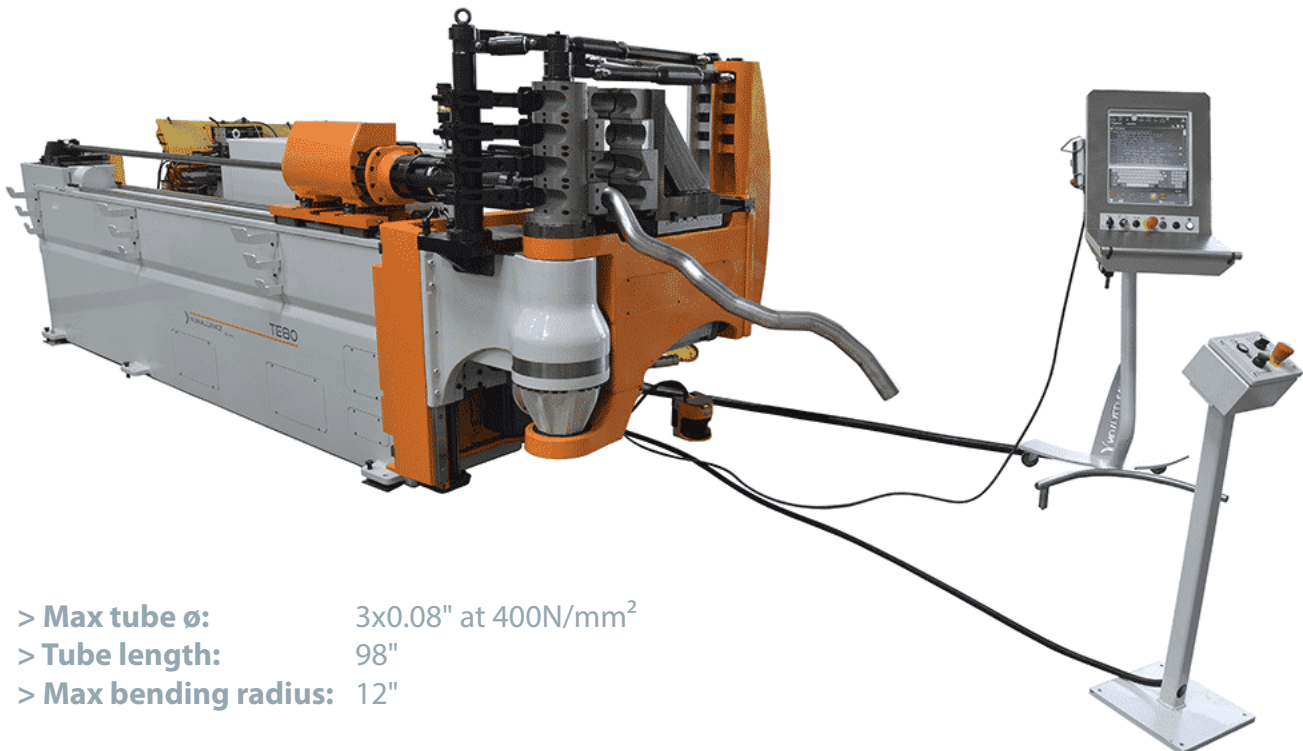


Feed & Form
Robomac 106TF



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

Large Tube Bender - TE80



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

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 on 011 976 8600 | 083 441 3391 or email machines@retecon.co.za

LEADING GARBOLI SUPPLIER !!

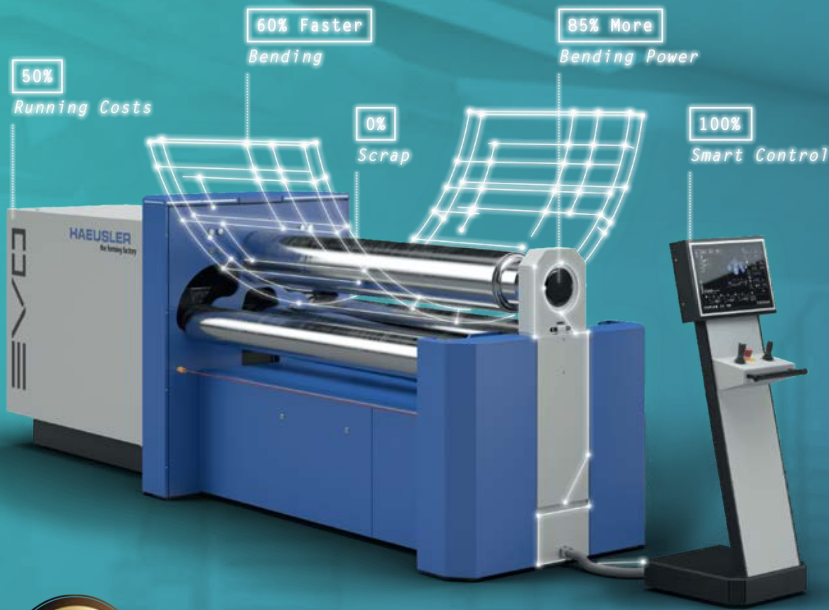


LPC 500

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.

For further Information contact Mike on 011 976 8600 | 083 441 3391 or email machines@retecon.co.za



EVO
THE BENDING EVOLUTION...

4 - ROLLER PLATE BENDING MACHINE



WINNER OF THE 2019
GOLD MEDAL AWARD

For further Information contact Mike on 011 976 8600 | 083 441 3391 or email machines@retecon.co.za

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

+GF+

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**

S33

The good value solution for individual requirements.

The Art of Grinding.



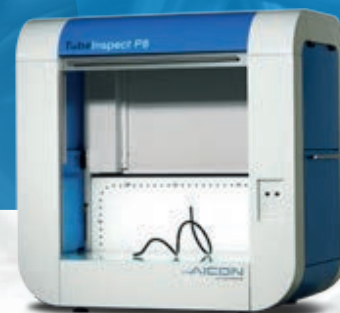
If you don't know today what you'll be grinding tomorrow, then the S33 will impress you with its universality and flexibility: It can be refitted in record time from grinding between centers to live grinding. You can grind even complex workpieces in a single clamping: This is made possible by the new grinding head with two motor spindles. You also benefit from a large selection of wheelhead types.



 **STUDER**

BendingStudio

SOLUTIONS FOR BETTER BENDING



TUBE INSPECT

YOUR ADVANTAGES AT A GLANCE :

- ✓ Effective data handling
- ✓ One software for all users
- ✓ Faster from drawing to part
- ✓ Higher productivity
- ✓ Interconnected data access



HEXAGON
MANUFACTURING INTELLIGENCE

AICON
3D Systems

For further information contact Neels (JHB / DBN), Arno (JHB) or Llewellyn (CT / PE) on 011 976 8600 or email machines@retecon.co.za

VICIVISION

M1c

High performance in a compact machine. The ideal tool to flank multi-spindle lathes or sliding head lathes. For fittings, nuts, small turned parts and precision parts up to 160 x 60 mm. Unbeatable price-performance in a compact machine.

Measurement solutions providing rapid return on investment. Increase production, improve flexibility, reduce rejects. Allows adjustment of tool offset before values are out of tolerance.

Greater efficiency on smaller batches. Helps operators in batch changeover. Allows rapid batch changing. It can be used by more than one operator at the same time.

Ideal for measuring minute turned parts. Designed to measure up to 160 x 60 mm.



KASTOwin Series

Increase your productivity



- Customised to the specific application using a modular system design
- Quick motion using servo drive and ball screw spindle for the material feed and the linear guided saw frame
- Automatic band guide arm adjustment
- Quick and easy programming via colour touch screen
- SmartControl to ensure high bandsaw blade lifetimes



For further Information contact Mike on 011 976 8600 | 083 441 3391 or email machines@retecon.co.za

STOPA TOWER MONO

SHEET METAL STORAGE SYSTEMS



EXCELLENT SPACE UTILIZATION THANKS TO COMPACT SHELF TOWER DESIGN

The STOPA TOWER Mono is a flexible module for mid-sized and industrial companies.

Thanks to the compact design of its shelf tower, users are guaranteed the excellent utilization of their valuable production floorspace – as a buffer facility or for storing materials. At the heart of the system is the Storage and Retrieval Unit with its extremely low-maintenance push/pull device. The chain lifting gear and load-independent travel measuring system guarantee outstanding positioning accuracy.



For further Information contact Mike on 011 976 8600 | 083 441 3391 or email machines@retecon.co.za

HP

High performance CNC punching and shearing lines for angles



FICEP HP lines are unique CNC punching and shearing work cells where an angle enters as a stock length and exits as a completed part, after a combination of programmed processes such as punching, drilling, notching, marking, shearing. These modular lines can have different configurations, both in terms of size and capacity, to address the various fabrication needs in one single pass.



VALIANT PRO

Automatic CNC drilling, drilling and band sawing, drilling and robotic coping line for profiles



The brand new Valiant PRO is equipped with numerous innovations compared to previous models, like an advanced pincher clamping system and a new hold down system with two independent cylinders that allows the best processing of the beam head and end. Another advantage is the enhanced auxiliary axis with 300 mm stroke on each independent drilling unit, which permits a wide variety of operations including special milling features and "rat holes" being made simultaneously on all sides without moving the beam. Valiant PRO can be configured with an automatic tool-changer holding up to 14 positions per head: a significant increase of tools availability that allows completing all necessary operations on the beam without any operator intervention (drilling, milling, four side scribing, threading, etc.).

KRONOS

Automatic Gantry CNC high definition Plasma & Oxy Cutting System for plates



Kronos is a gantry thermal cutting machine whose sizes, technologies and operational capacity can be strongly customized. Kronos is studied to satisfy the requirements of the manufacturers of plates, connection plates, gussets, stiffeners and so on from the raw material to the finished part, executing all cutting processes in a single operation, without handling the material and with the aid of a single operator. The Kronos HP & SP can be equipped with four flame torches, one or two high definition plasma torches, for straight or inclined cuts, with the latest generation Hypertherm source XPR170 or XPR300 or HPR400XD, and a drilling head with the new spindle " 15kW Direct Drive "for drilling operations up to 40mm and scribing. Kronos lines can truly satisfy any sheet metal working requirement. Depending on the chosen model, the table sizes and the technical equipment, Kronos machines can work plates of different sizes and thicknesses.





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

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

SCAN HERE
for contact:



Great Value FOR
Money!!

EDM WIRE

CONTACT DETAILS ▼

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