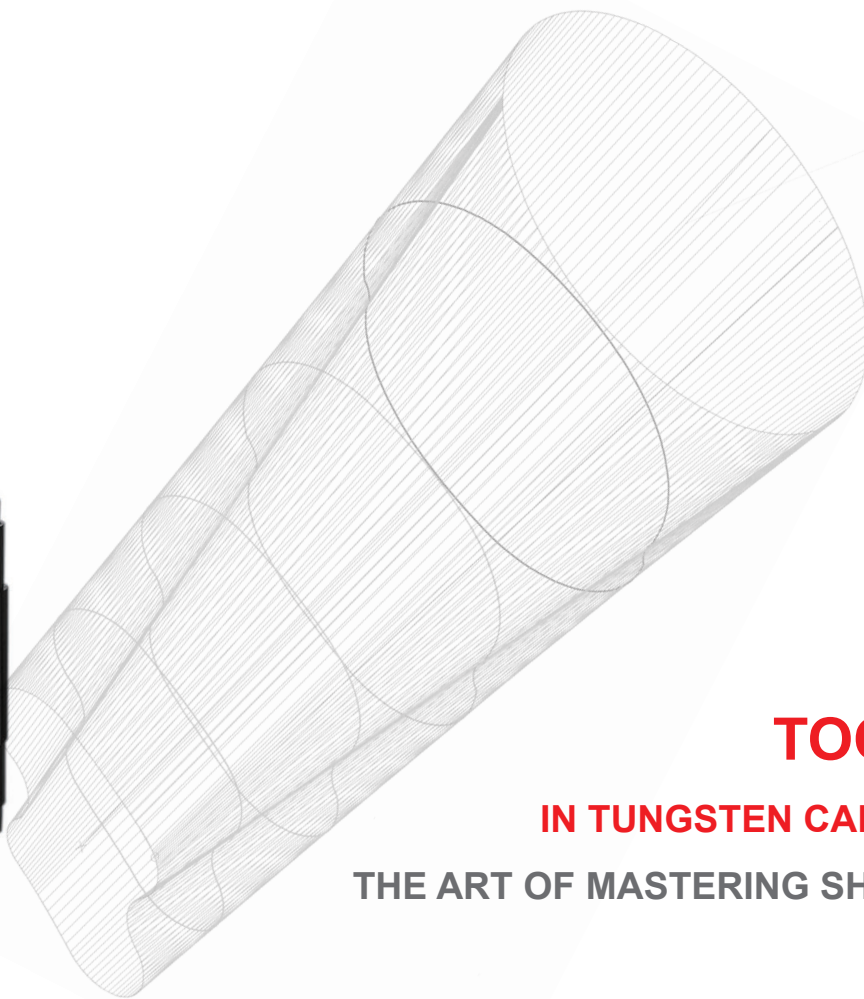




MOUTON RIVOM



TOOLS

IN TUNGSTEN CARBIDE

THE ART OF MASTERING SHAPES

MACHINES

INTERNAL GRINDING MACHINES

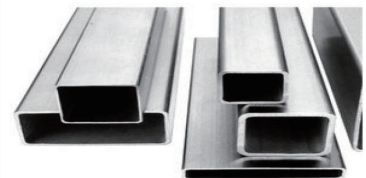
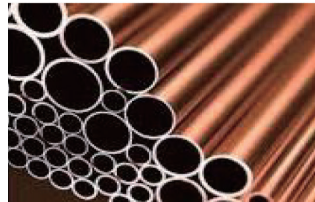
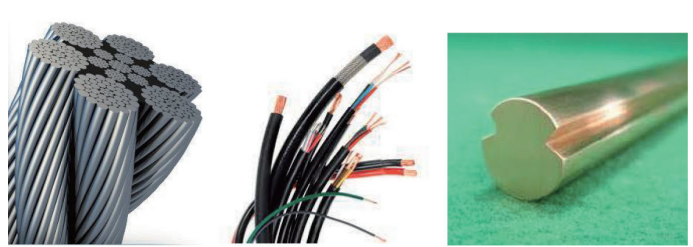
POLISHING LATHES

SHAVING HEADS

MOUTON RIVOM is a major player in the field of tungsten carbide metal forming tools, ranging from wire drawing dies to the most complex dies and punches.

The company's strength lies in its ability to provide custom-made solutions to meet all the industrial sector's needs.

Fields of application



Tools in tungsten carbide

- Heading tools
- Plate cutting and ironing tools
- Indirect extrusion tools
- Special extrusion and tube finishing tools
- Drawing tools
- Shape dies
- Wire drawing tools
- Extrusion tools

Machines

- Internal grinding machines for the repair of tungsten carbide drawing dies
- Polishing lathes
- Shaving heads for metal wires



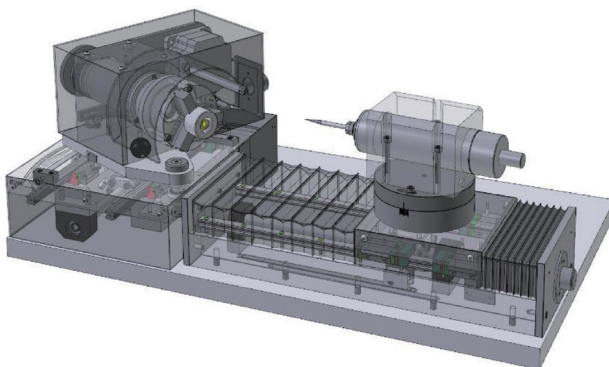
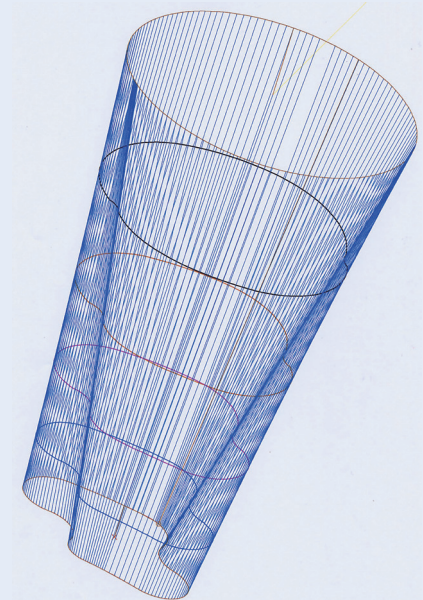
KNOW-HOW

- Bakelite grinding and manual polishing
- 6 shrinkage types to considerably extend tools lifespan
- Choice of materials used (shrinkage steels, carbides adapted to the end use, special steels)



R&D

- CAD-CAM tools conception according to customer information (machine, drawn material, preliminary section, final section, etc.)
- Proposal of technical solutions
- Collaboration with extrusion heads manufacturers



EVOLUTION OF DESIGN AND MANUFACTURING :

Requirements for internal use →
 design → manufacturing → tests →
 improvements → external customer →
 internal and external feedback →
 improvements

CUSTOMIZED MANUFACTURING

Design : « special shrinkage », segmented inserts for the most heavily used tools : heading of difficult materials, complex shapes or significant sizes.

Fields of application : automotive, aeronautics, construction, cycles, etc.

COLD HEADING DIES AND PUNCHES



COLD HEADING DIES



COLD HEADING AND HOT STAMPING TOOLS



TOOLS FOR FOOD PACKAGING



IRONING RING
(Internal diameter 300mm)



IRONING DIES
FOR COSMETICS



TOOLS FOR THE MANUFACTURING OF AMMUNITION



**DIES AND PUNCHES
FOR AEROSOLS, CANS AND FLEXIBLE TUBES**



**DIES, PUNCHES AND MISCELLANEOUS TOOLS
FOR BATTERIES**



SPECIAL PRODUCTS EXTRUDED WITH OUR TOOLS



EXTRUSION DIES



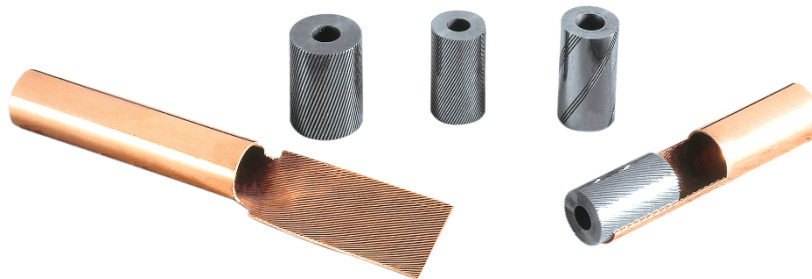
DIES AND MANDRELS FOR TUBES FINISHING



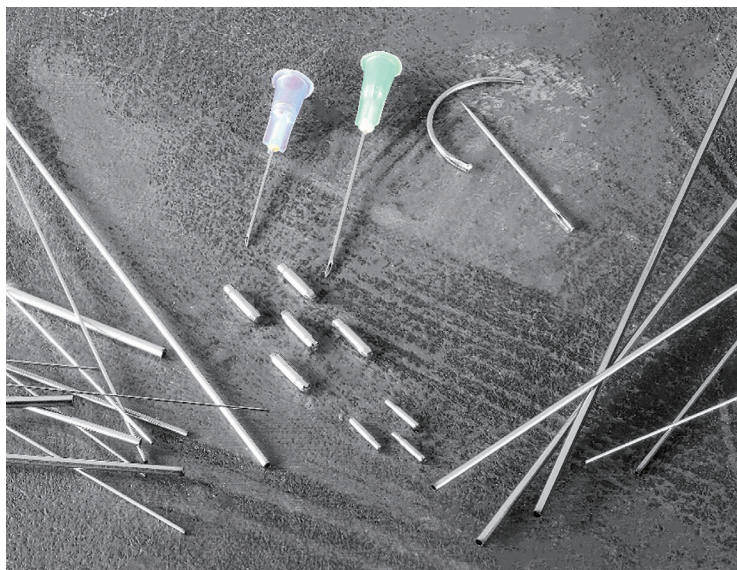
CYLINDRICAL & SHAPE DRAWING DIES AND MANDRELS



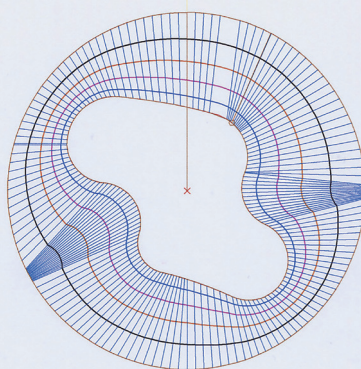
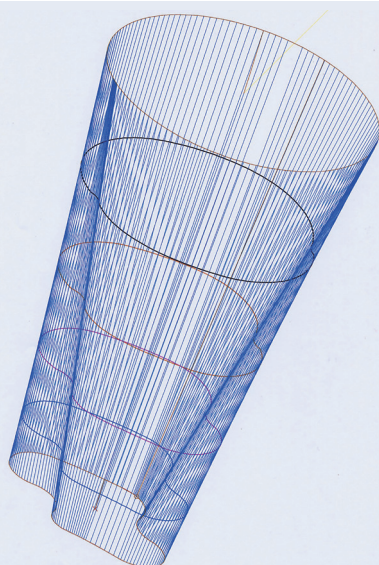
HELICAL GROOVED MANDRELS



MINI-TUBES DRAWING MANDRELS



SHAPE DIES



PROFILE: all tri-dimensional shapes possible
(evolutive cone)

- all dimensions
from 0,5 mm to 160 mm
- tolerance : +/- 0,005mm
- computer-assisted dimensional control

PRODUCTS DRAWN IN OUR DRAWING DIES

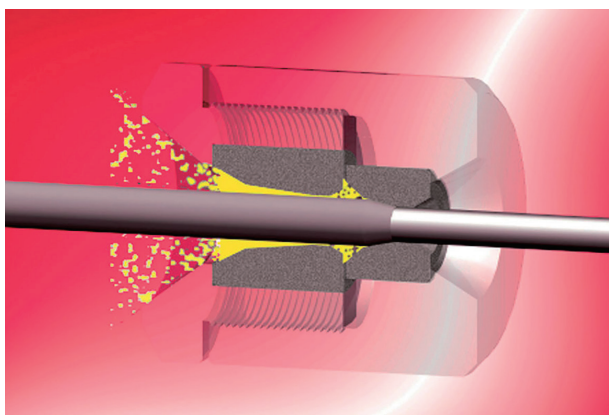


DRAWING TOOLS

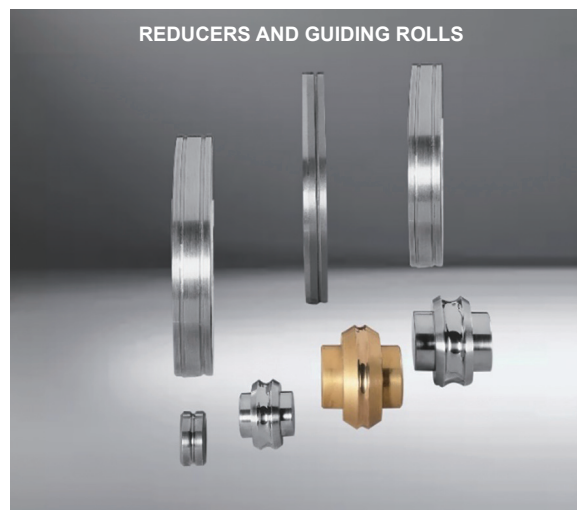
DRAWING DIES



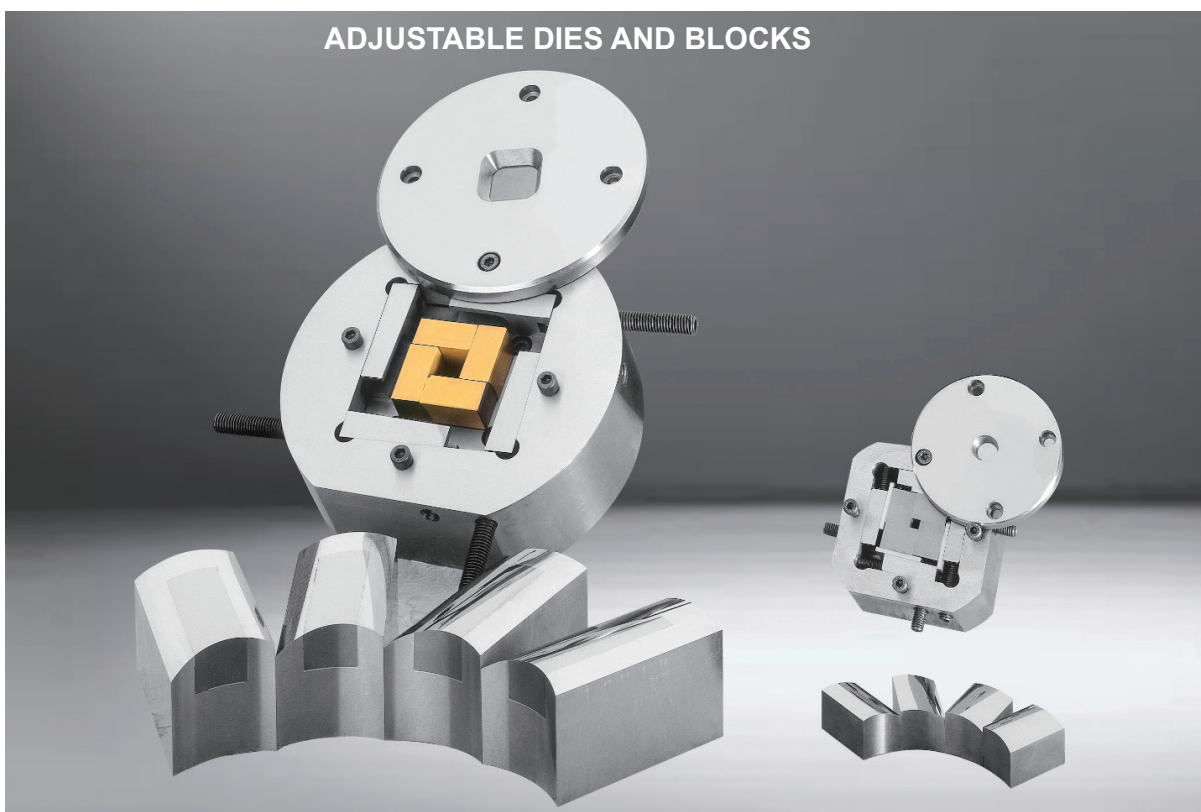
PRESSURE DIES



REDUCERS AND GUIDING ROLLS



ADJUSTABLE DIES AND BLOCKS



EXTRUSION TOOLS

EXTRUSION DIES, PUNCHES, WIRE GUIDES

FOR THE ELECTRIC WIRE AND CABLE INDUSTRY

A FULL RANGE OF EXTRUSION TOOLS :

- Steel
- Tungsten carbide
- Diamond
- Single wire
- Two-wire cable
- Multi-wire cable
- Flat cable, etc.



WIRE GUIDE, COATING DIES

FOR WELDING RODS

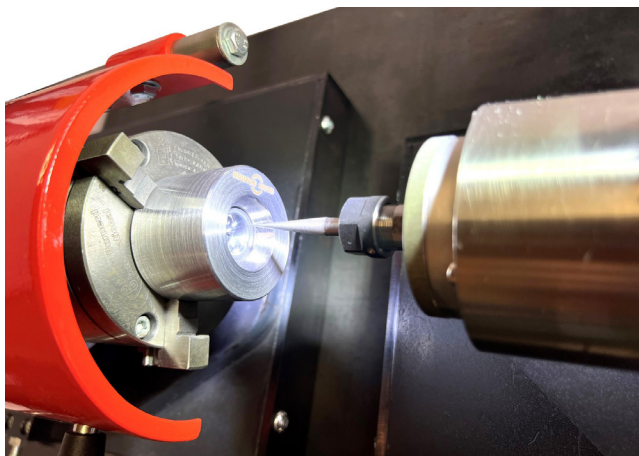




IG80-II

Semi-automatic horizontal grinding machine

- chuck $\varnothing 80\text{mm}$ or $\varnothing 100\text{mm}$
- for dies from $\varnothing 0.80$ to $\varnothing 20\text{mm}$
- machine precision: 0.01mm
- angle precision: $\pm 15'$
- angular inclination: up to 40°
- memorizing of 1 operation
- standard model equipped with high-frequency spindle up to 24,000 rpm



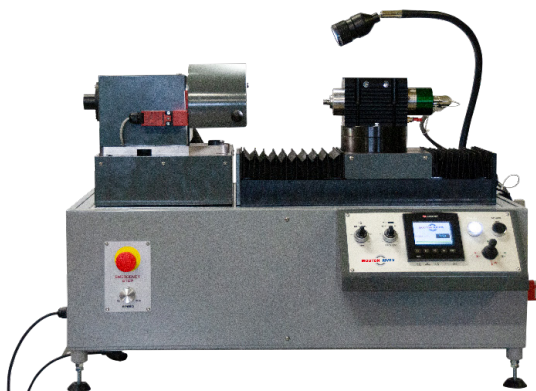
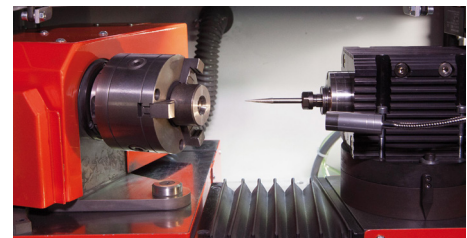
- easy to use
- working length: 30mm
- option: various spindle types available depending on material and diameters to be ground



IG100 A

Automatic horizontal grinding machine

- Chuck $\varnothing 100\text{mm}$
- Programm management by computer numerical control
- For dies from $\varnothing 0.80$ to $\varnothing 30\text{mm}$
- Machine precision : $5\mu\text{m}$
- Angle precision : $\pm 30''$
- New motorized lead angle system (0 to 75°)
- Axis management by stepping motor control allowing an advance in micron
- Memorising of 5 operations in « learn » mode on the first die
- Repeat of the memorised operations to reproduce an identical profile
- Various spindle types available (depending on material and diameters to be ground)
- Totally ducted working area for users' safety



IG100 C

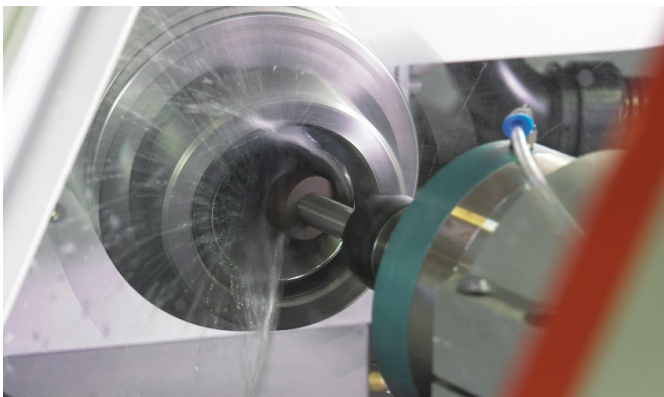
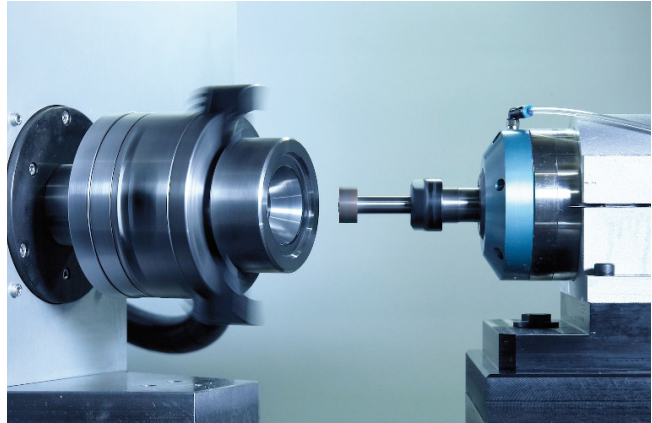
Automatic horizontal grinding machine

- Classic version without outer casing

IG125 A

Automatic horizontal wet grinding machine

- Chuck $\varnothing 125\text{mm}$ or Chunk $\varnothing 160\text{mm}$
- Programm management by computer numerical control
- For dies up to $\varnothing 70\text{mm}$
- Machine precision : $5\mu\text{m}$
- Easy to use
- Axis management by stepping motor control allowing an advance in micron
- Memorising of 5 operations in « learn » mode on the first die
- New system of motorised lead angle (0 to 75°)
- Angle precision : $\pm 30''$
- Repeat of the memorised operations to reproduce an identical profile
- Various spindle types available (depending on material and diameters to be ground)
- Totally ducted area for users' safety



- Centralized lubrication for easier maintenance
- Lubrication system for better roughing, semi-finishing and polishing grinding

POLISHING LATHES

Our manual polishing lathes are dedicated to the polishing of various types of tools and materials. They are equipped with safety devices, electronic speed variators and brakes.

MP1

Polishing lathe

- Equipped with a $\varnothing 80$ mm chuck
- Complete casing around the chuck in order to secure operators' movements
- Motor with variable speed : 0-1500 or 0-3000 rpm
- Small size



MP2

Polishing lathe

- Equipped with various systems of tool tightening (chuck $\varnothing 100$ or $\varnothing 125$ mm, collet chucks, magnetic plate, with back guiding, etc.)
- Complete casing around the chuck in order to secure operators' movements
- Control board on a fixed control panel
- Motor with variable speed : 0-1500 rpm
- Easy to use
- Option : complete workbench



MP3

Polishing lathe on workbench

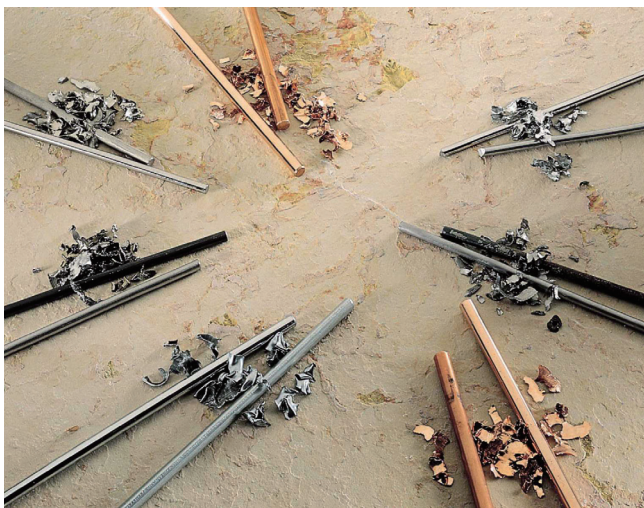
- Polishing lathe equipped with various systems of tool tightening (chuck $\varnothing 160$, $\varnothing 200$ or $\varnothing 250$ mm)
- Complete casing around the chuck in order to secure operators' movements, with safety key
- Angular positioning of the polishing lathe for a better work comfort
- Simplified control board and safety foot controller
- Motor with variable speed : 0-1500 rpm
- Possible adjustment of the torque/speed ratio to adapt to the worked tool
- Various options possible



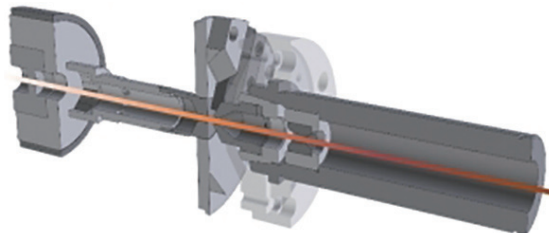
SHAVING OF METAL WIRE

APPLICATION

- Non-ferrous wires : copper, brass, aluminum, etc.
- Ferrous wires : high-carbon steel, low-carbon steel, stainless steel, etc.
- Shaved diameter up to 18mm depending on materials



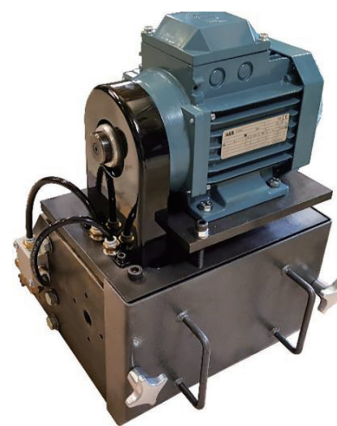
SHAVING PRINCIPLE



TR01

Shaving head

For diameters
< 5mm



MR

Machine equipped with TR02

- Rigid table
- Control board
- Shaving chips conveyor



TR02

Shaving head

The most rigid shaving head dedicated to wires up to 18mm depending on materials



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FOR FURTHER INFORMATION

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