

OVER 60  
YEARS OF  
PRECISION



— MADE IN ITALY —

UNIVERSAL AND SPECIAL MACHINES  
UNIVERSALE E MACCHINE SPECIALI

## THE COMPANY

OMPAR company since 1964 is one of the most famous precision mechanical industry, and, as first Italian manufacturer and seller of diamond faceting machines, is world-wide recognised. Thanks to the internal technical department and to the computerised supports developed, is able to fully provide the design of more and more valid technical solutions fitting the most specific requirements of the customers. OMPAR is always present in the gold market attending the major international exhibition and events.

The range of OMPAR production includes patent machines as:

- Machines for the finishing of chains; fast, easy to use and extremely flexible.
- Multifunctional machinery up to 14 CNC axes; that allow to reproduce three-dimensional workings, drawings, loaded by any sours, on different item with the highest quality.
- CN diamond cutting machines to decorate all kind of designs on jewellery products.
- Automatic diamond cutting machines to carry out designs on variable moulding chains.
- CNC machinery for particular workings on special items and suitable for specific needs of our clients.

The OMPAR technical and commercial staffs are at the complete disposal of their clients in order to satisfy any requirements also for the technical assistance post-sale.

## L'AZIENDA

Sin dal 1964 OMPAR è considerata una delle più famose e importanti officine meccaniche di precisione presenti nel mercato mondiale, in particolar modo nella produzione di diamantatrici per il settore dell'oreficeria e della moda. Grazie al suo ufficio tecnico interno e alle più moderne attrezzature di sviluppo, l'azienda è in grado di soddisfare le specifiche richieste dei clienti con soluzioni sempre innovative sia dal punto di vista tecnico che dal punto di vista del design. OMPAR è da sempre presente nel mondo della tecnologia orafa partecipando alle più importanti manifestazioni del settore ed eventi.

La gamma di prodotti OMPAR comprende macchine brevettate quali:

- Macchinari per la finitura delle catene; veloci, di facile utilizzo ed estremamente flessibili.
- Apparecchiature multifunzionali fino a 14 assi CNC che permettono lavorazioni tridimensionali e di trasferire agevolmente disegni, acquisiti da qualsiasi sorgente, sui diversi gioielli con qualità superlativa.
- Diamantatrici a controllo numerico per decorare gioielli con qualsiasi disegno.
- Diamantatrici automatiche per realizzare decorazioni fantasia su catene con profili variabili.
- Apparecchiature CNC per lavorazioni su prodotti particolari e personalizzate a seconda delle necessità della clientela.

Lo staff tecnico e commerciale di OMPAR è a completa disposizione della clientela in modo da soddisfare al meglio qualsiasi esigenza, anche nell'assistenza tecnica post-vendita.

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# RA 961



## UNIVERSAL DIAMOND CUTTING MACHINE

Universal diamond cutting machine mod. RA 961 suitable to carry out diamond cut and decorations on, flat/convex rings and bangles, medals and plates, beads, on flat objects and chains, according to the options required. Available in manual and semiautomatic version.

## DIAMANTATRICE UNIVERSALE

Diamantatrice universale mod. RA 961 adatta per realizzare decorazioni su fedeli e cerchi piani e bombati, medaglie e targhe, palline sciolte, oggetti vari e catene, in base agli accessori richiesti. È disponibile in versione manuale e semi automatica.



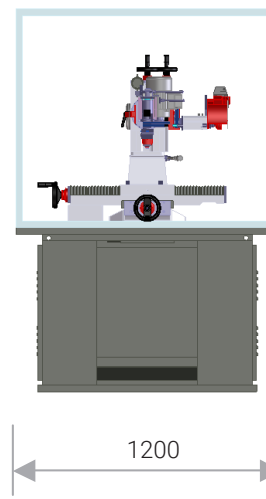
## MACHINABLE PRODUCTS

Flat/Convex rings and bangles, medals and plates,

beads, flat objects and chains

## VERTICAL HEAD

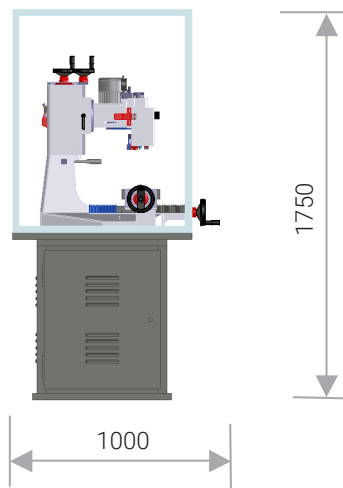
Speed ..... from 0 to 13000 rpm



## HORIZONTAL HEAD

Speed ..... from 0 to 5000 rpm

Tool holder diameter ..... 155 mm



## INSTALLATION DATA

Power supply ..... 400 V, 50/60 Hz, 3~

Weight ..... 350 kg

# OPTIONALS



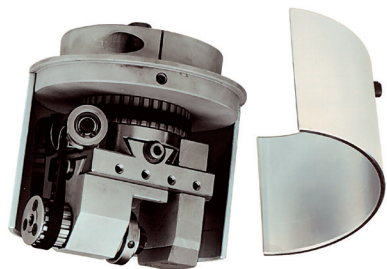
Revolving dividing unit for convex/flat rings & bangles complete with pincers & collets, also available in the motorized version with electronic indexing control system.

Divisore orientabile per fedeli e cerchi completo di supporti, disponibile anche nella versione motorizzata con controllo elettronico.



Manual or Automatic jerking dividing unit for medals.

Divisore per medaglie con chiusura a eccentrico manuale ed automatico.



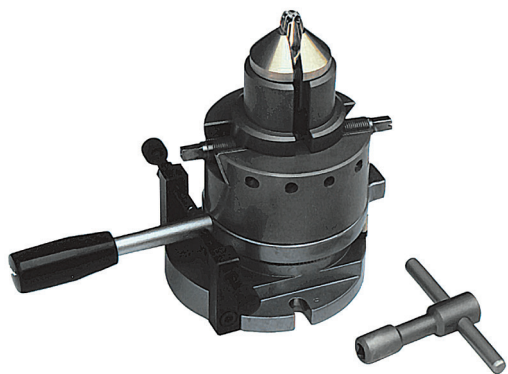
Head for stars.

Testa per stelle.



Manual jerking 360° 350 or 500 mm revolving dividing unit.

Divisore a scatti manuale girevole 360° 350 o 500 mm.



Dividing unit for medals (cuff-links and rings) w/cam closing.

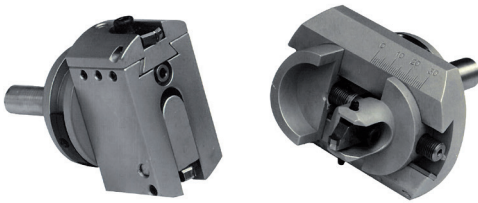
Divisore per medaglie (polsini ed anelli) con chiusura a eccentrico.

# OPTIONALS



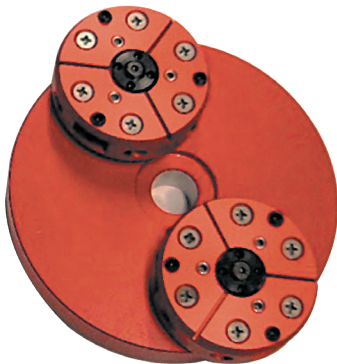
Cutter w/pincer Ø 6.

Fresa con pinza Ø 6.



Lapping & Large ornament cutter.

Frese a lapidare e grandi ornamenti.



3 & 6 interchangeable tools cutter.

Frese a 3 & 6 utensili intercambiabili.



## PATENTED BEADS STINGING MACHINE

Automatic Beads Stinging Loader mod. CP1

## CARICATORE INFILA PALLINE BREVETTATO

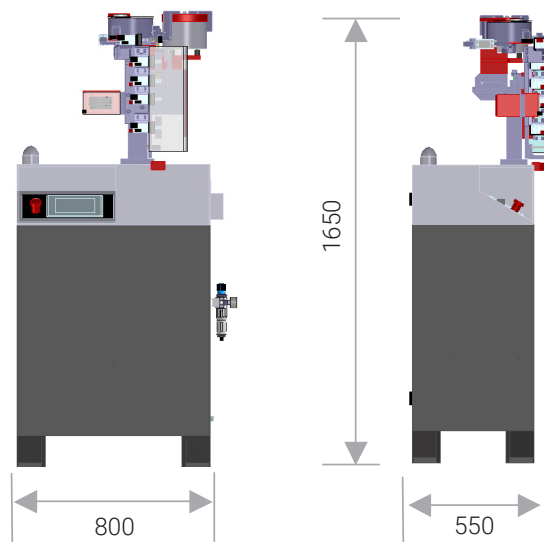
Caricatore infila palline programmabile mod. CP1

### TECHNICAL DATA

Max. diameter beads ..... 12 mm  
Max. number of beads ..... 300 beads/min

### INSTALLATION DATA

Power supply ..... 230 V, 50/60 Hz, 1~  
Pneumatic supply ..... 6 bar  
Weight ..... 220 kg





## DIAMOND CUTTING MACHINE FOR LAPPING FLAT SURFACES

Precise diamond cutting machine mod LSM suitable to carry out lapping cuts on flat surfaces accompanied with icing freezing plate and cooling group for the fixing of items.

## DIAMANTATRICE PER LAPPARE SUPERFICI PIANE

Diamantatrice di precisione mod. LSM adatta per eseguire lappature di superfici piane corredata di piano ghiacciante e refrigerante per la tenuta dei pezzi da lavorare.



## MACHINABLE PRODUCTS

Flat surfaces

## VERTICAL HEAD

Speed ..... from 0 to 11000 rpm

Tool holder diameter ..... 100 mm

## CARRIAGES

Longitudinal Travel ..... 400 mm

Transversal adjustment ..... from -80 to +80 mm

Dimension of the ice plate ..... 300x95 mm

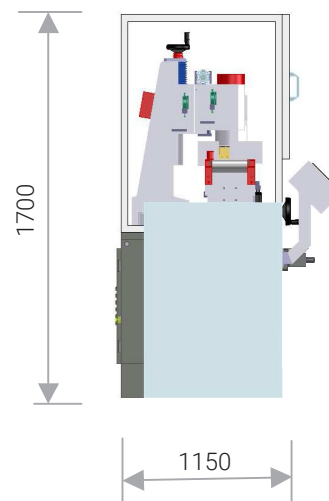
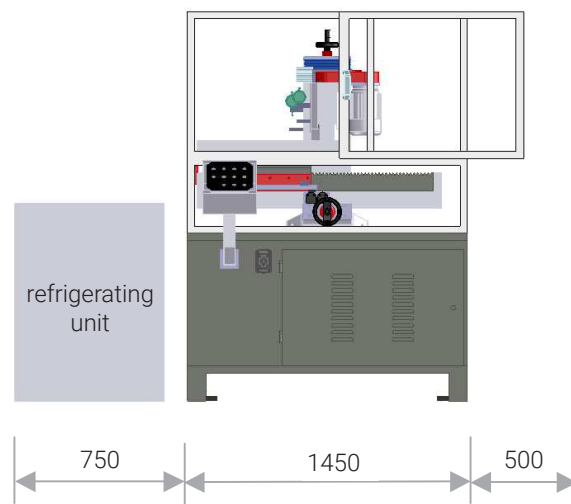
## INSTALLATION DATA

Wattage ..... 3 kW

Power supply ..... 400 V / 50-60 Hz / 3~

Pneumatic supply ..... 6 bar

Weight ..... 550 kg



# TT1

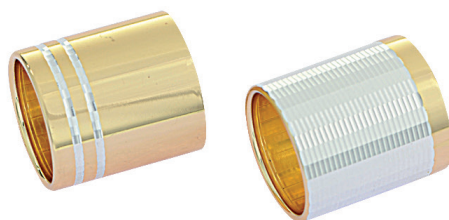


## SPECIAL AUTOMATIC LATHE FOR TURNING OF CYLINDER CAPS

Special automatic lathe mod. TT1 suitable to carry out for turning of cylinder caps.

## TORNIO SPECIALE AUTOMATI- CO PER LA TORNITURA DI CAPPUCCI CILINDRICI

Tornio automatico mod. TT1 adatto per realizzare torniture su cappucci cilindrici.



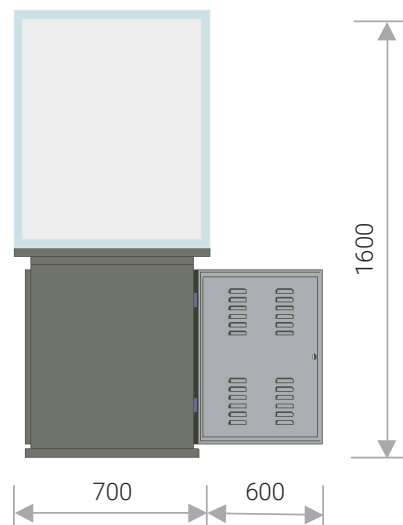
## MACHINABLE PRODUCTS

Cylinder caps

Number of working axes..... 2

Turning tools section ..... 10 x 10 mm

Number of turning tools..... 1



## SPINDLE DRIVE

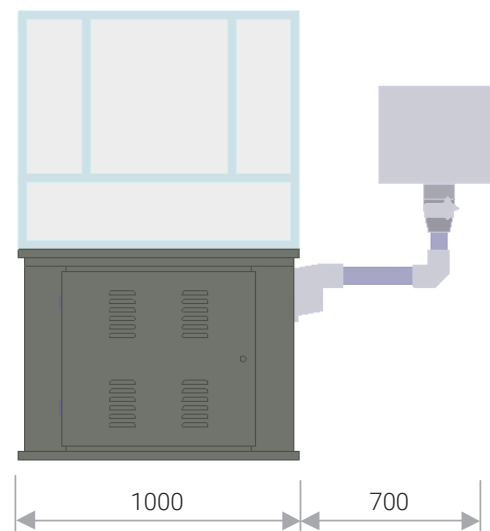
Spindle speed ..... from 0 to 5000 rpm

Motor power ..... 0,9 kW

## INSTALLATION DATA

Power supply ..... 400 V, 50/60 Hz, 3~

Pneumatic supply..... 6 bar



# TDM 1



## AUTOMATIC LATHE FOR TURNING AND DIAMOND CUT OF TAPS

Automatic, precision Lathe mod. TDM 1 CN with 4 controlled axes for turning and diamond cut of water taps.

## TORNIO AUTOMATICO PER TORNITURE E DIAMANTATURE MANIGLIE

Tornio automatico di precisione mod. TDM 1 CN a 4 assi controllati per la tornitura e la diamantatura di maniglie.



## MACHINABLE PRODUCTS

### Water taps

|                                           |            |
|-------------------------------------------|------------|
| Number of working axes .....              | 4          |
| Height of spindle centre .....            | 105 mm     |
| Height of spindle from the carriage ..... | 60 mm      |
| Turning tools section .....               | 10 x 10 mm |
| Number of turning tools .....             | 2          |

## SPINDLE DRIVE

|                     |                    |
|---------------------|--------------------|
| Spindle speed ..... | from 0 to 4500 rpm |
| Motor power .....   | 4,8 kW             |

## CARRIAGES

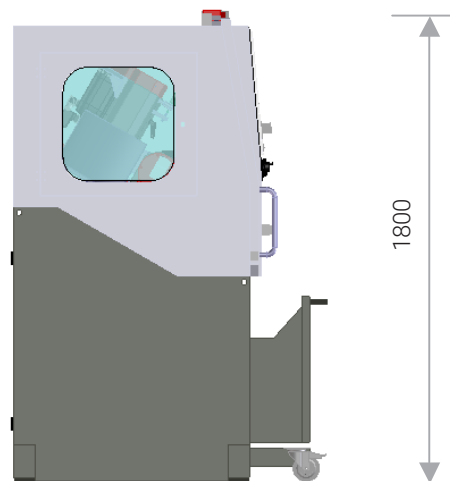
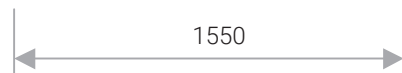
|                                             |        |
|---------------------------------------------|--------|
| Travel of the longitudinal tool slide ..... | 120 mm |
| Travel of the transversal tool slide .....  | 100 mm |

## HORIZONTAL HEAD

|                            |                    |
|----------------------------|--------------------|
| Speed .....                | from 0 to 4500 rpm |
| Tool holder diameter ..... | 210 mm             |

## INSTALLATION DATA

|                        |                     |
|------------------------|---------------------|
| Wattage .....          | 13 kW               |
| Power supply .....     | 400 V, 50/60 Hz, 3~ |
| Pneumatic supply ..... | 6 bar               |
| Weight .....           | 800 kg              |



# TGM



## DIAMOND TOOL GRINDING MACHINE

Universal diamond tool grinding machine mod. TGM  
suitable for diamond tools sharpening.

## AFFILATRICE PER UTENSILI AL DIAMANTE

Macchina universale mod. TGM adatta per affilare utensili  
al diamante.

## HORIZONTAL HEAD

Speed ..... from 0 to 4000 rpm

Grinding tool diameter ..... 140 mm

Vertical travel ..... 200 mm

## DIVIDER

Tool speed in reciprocating motion ..... from 0 to 80 cycle/min

Horizontal tilt adjustment ..... from -30° to +30°

Vertical tilt adjustment ..... from -30° to +30°

Longitudinal adjustment ..... from -150 to +150 mm

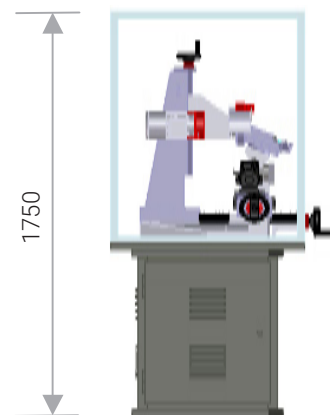
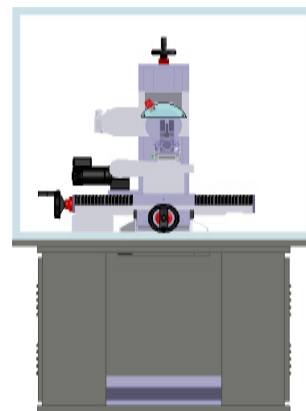
Transversal adjustment ..... from -70 to +70 mm

## INSTALLATION DATA

Wattage ..... 1,5 kW

Power supply ..... 400 V, 50/60 Hz, 3~

Weight ..... 350 kg





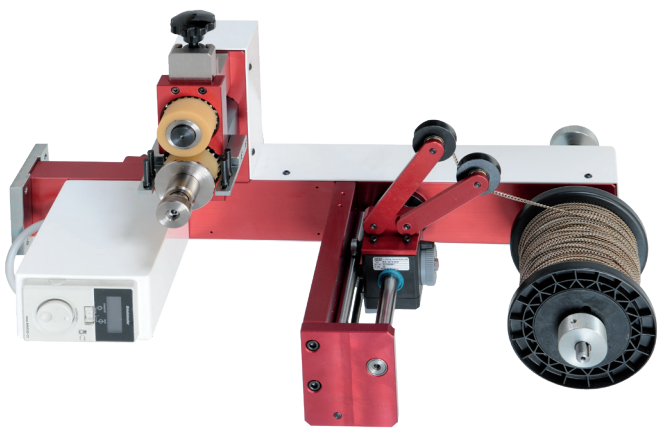
## CENTERING JIG

Universal Centering jig for diamond tools holders.

## CENTRATORE

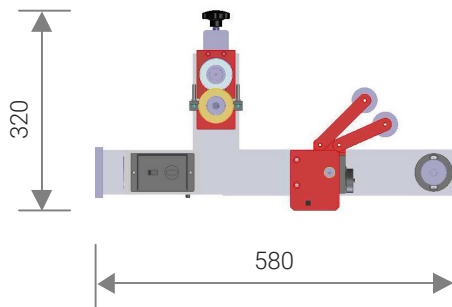
Centratore universale per diamanti su frese a più utensili.





## DRAGGING CHAIN WINDER FOR HAMMERING MACHINE

## TRAI NO AVVOLGICATENA PER BATTITRICE



### TECHNICAL DATA

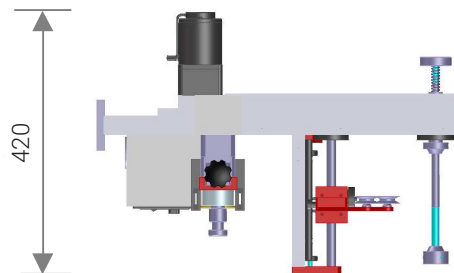
Distribution system changeable pitch..... from 0,3 to 6,3 mm  
 Dragging chain speed..... from 0,5 to 7 m/min

### INSTALLATION DATA

Max. outside diameter..... 220 mm  
 Min. inside diameter..... 50 mm  
 Internal length ..... from 60 to 130 mm

### SPOOL

Power supply..... 230 V, 50/60 Hz, 1~  
 Weight..... 17 Kg





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