

OVER 60
YEARS OF
PRECISION



— MADE IN ITALY —

CHAINS
CATENE

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:

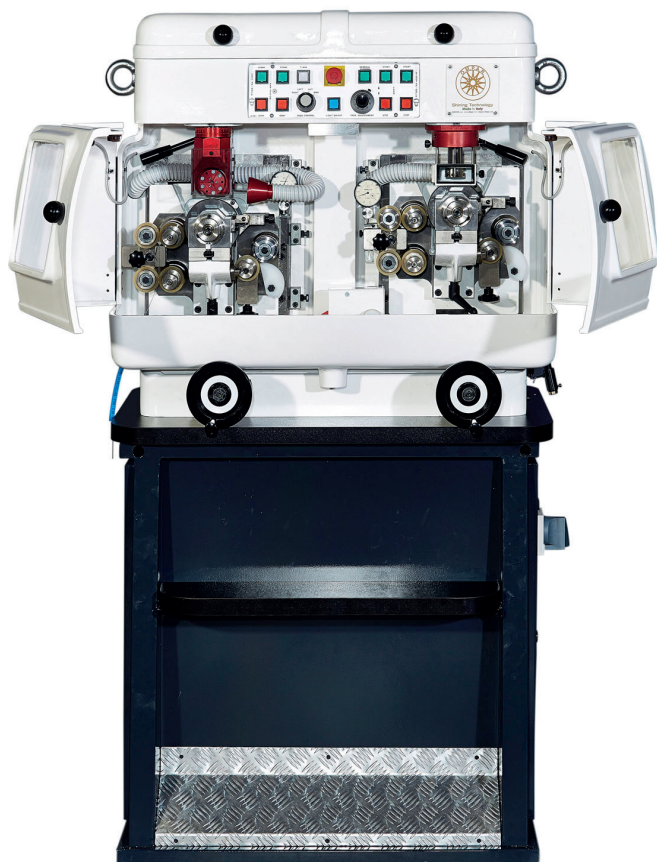
- Macchinari per la finitura delle catene; veloci, di facile utilizzo ed estremamente flessibili.
- Apparecchiature multifunzionali fino a 14 assi CNC che permettono lavorazioni tridimensionali e di trasferire agevolmente disegni, acquisiti da qualsiasi sorgente, sui diversi gioielli con qualità superlativa.
- 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 2000 / RA 2000 SUPER



DIAMOND CUTTING MACHINE FOR SURFACING AND BEVELLING ON CHAIN

Two vertical heads diamond cutting machine mod. RA 2000 prearranged for horizontal heads, suitable for the flat and edges lapping on various medium and small chains.

Diamond cutting machine mod. RA 2000 SUPER at synchronised cyclic movements, prearranged for star heads.

DIAMANTATRICE PER SUPERFICI E SMUSSI SU CATENE

Diamantatrice mod. RA 2000 a due teste verticali, predisposta per il montaggio di teste orizzontali, adatta per la lappatura in piano e smussi di catene varie medio-piccole.

Diamantatrice mod. RA 2000 SUPER con movimenti ciclici sincronizzati, predisposta per il montaggio di teste per stelle.



MACHINABLE PRODUCTS

Curb / Box / Cable / Singapore chain

Min. wire diameter.....0,15

DRAGGING UNIT

Feed speedfrom 0 to 5 m/min

VICE DISCS UNIT

Discs diameter110 mm

Tilt adjustment.....from -10° to +10°

Vertical adjustment.....50 mm

VERTICAL HEAD

Speedfrom 0 to 18000 rpm

Horizontal adjustment.....from -10 to +10 mm

HORIZONTAL HEAD (OPTIONAL)

Speedfrom 0 to 14000 rpm

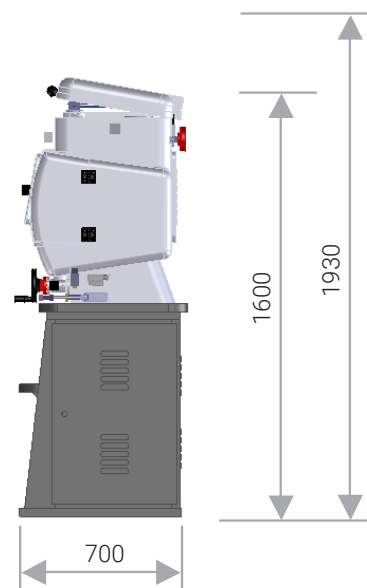
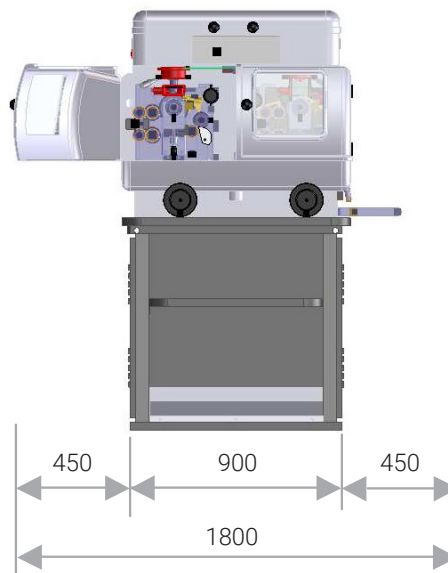
Tool holder diameter.....55 mm

INSTALLATION DATA

Wattage3 kW

Power supply400 V, 50/60 Hz, 3~

Weight.....500 kg



RA 3000

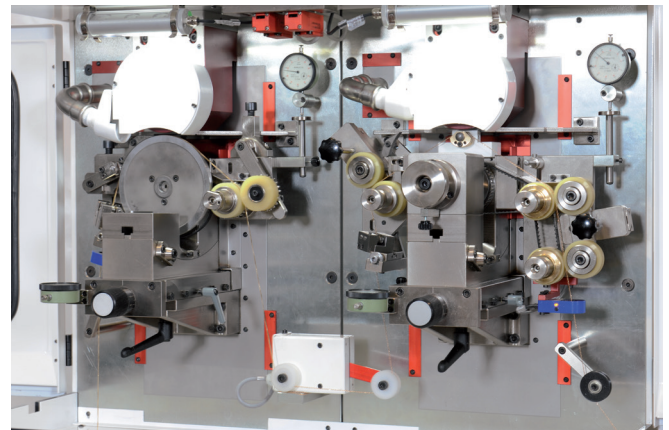


DIAMOND CUTTING MACHINE FOR SURFACING AND BEVELLING ON CHAIN

Two vertical heads diamond cutting machine mod. RA 3000 prearranged for mounting of horizontal heads, suitable for the flat and edges lapping on various small medium and square chains.

DIAMANTATRICE PER SUPERFICI E SMUSSI SU CATENA

Diamantatrice mod. RA 3000 a due teste verticali predisposta per il montaggio di teste orizzontali, adatta per la lappatura in piano e smussi di catene varie e a sezione quadra.



MACHINABLE PRODUCTS

Box / Curb / Cable / Singapore chain

Min. Box chain.....0,40x0,40 mm

DRAGGING UNIT

Feed speedfrom 0 to 5 m/min

VICE DISCS UNIT

Discs diameter150 mm

Tilt adjustmentfrom -5° to +5°

Horizontal adjustmentfrom -10 to +10 mm

Vertical adjustment.....90 mm

VERTICAL HEAD

Speedfrom 0 to 22000 rpm

HORIZONTAL HEAD (OPTIONAL)

Speedfrom 0 to 18000 rpm

Tool holder diameter.....120 mm

INSTALLATION DATA

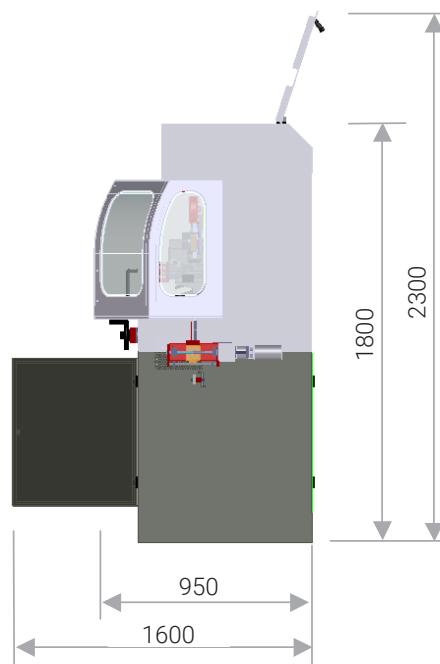
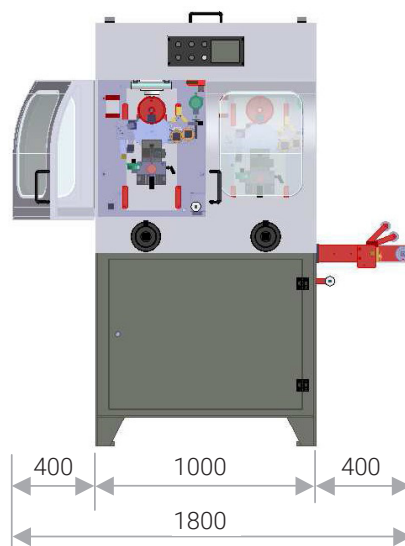
Wattage6 kW

Power supply230 V, 50/60 Hz, 1~

Pneumatic supply.....6 bar

Max. air consumption.....800 NI/min

Weight.....800 kg



RA FANTASY

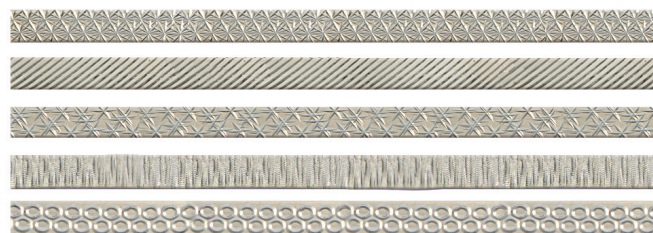
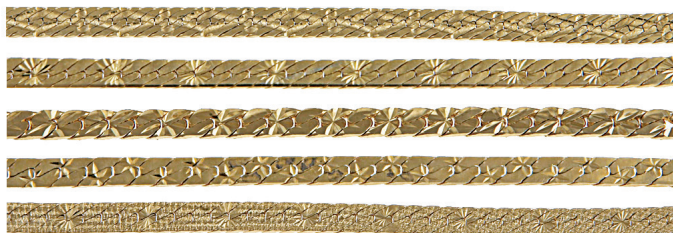


UNIVERSAL DIAMOND CUTTING MACHINE FOR CHAIN DECORATION

Diamond cutting machine mod. RA FANTASY at synchronised cyclic movements with two vertical heads prearranged mounting of horizontal heads and star heads suitable to carry out various diamond cut like lapping, bevels, satin, shot, stars drawing and geometrical decorations.

DIAMANTATRICE UNIVERSALE PER DECORAZIONI SU CATENE

Diamantatrice mod. RA FANTASY con movimenti ciclici sincronizzati a due teste verticali predisposta per il montaggio di teste orizzontali e per stelle, adatta per eseguire diamantature varie come lappature, smussi, satinature, colpi, stelle, disegni e decori geometrici in genere.



MACHINABLE PRODUCTS

Flat chains

Number of working axes.....4 (Dragging and vice unit/
Tool/Head translations/Head vibrations)

DRAGGING UNIT

Feed speedfrom 0 to 7 m/min

VICE DISCS UNIT

Discs diameter150 mm

Vertical adjustment.....50 mm

Centring adjustmentfrom -10 to +10 mm

Tilt adjustmentfrom -4° to +4°

VERTICAL HEAD

Speedfrom 0 to 21000 rpm

HORIZONTAL HEAD (OPTIONAL)

Speedfrom 0 to 6500 rpm

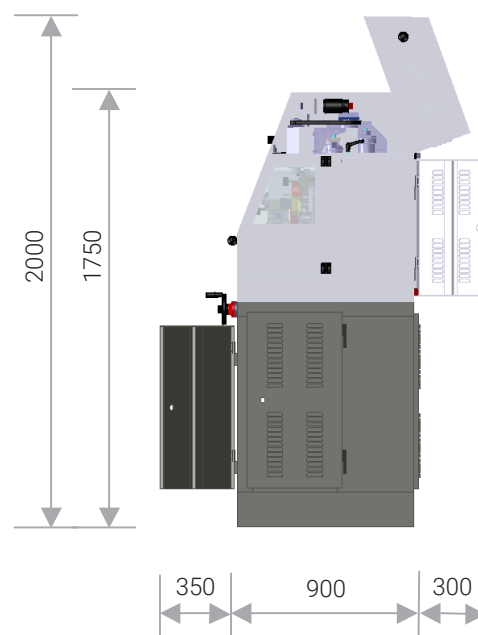
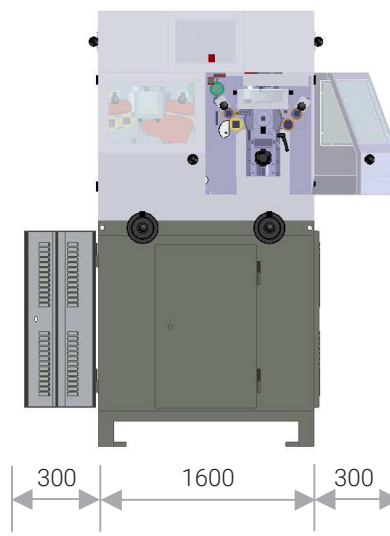
Tool holder diameter.....80 mm

INSTALLATION DATA

Wattage2,2 kW

Power supply230 V, 50/60 Hz, 1~

Weight.....600 kg



RA 2600



DIAMOND CUTTING MACHINE FOR CHAINS WITH GEOMETRICAL SECTION

Diamond cutting machine mod. RA 2600 with two horizontal heads suitable to carry out cutting and forming on 4, 6, 8 sides on rope chain, ball chain and hammered with geometrical shape chains; concave and convex bevelling and forming on medium and small chains.

DIAMANTATRICE PER CATENE CON PROFILO GEOMETRICO

Diamantatrice mod. RA 2600 a due teste orizzontali adatta per realizzare diamantature e sagomature a 4, 6, 8 lati su catene corda, catene a palline e catene battute con profilo geometrico; smussi e sagomature concave e convesse su catene medio piccole.



MACHINABLE PRODUCTS

Ball chain / Hammered with geometrical shape chains (Snake chain)

DRAGGING UNIT

Feed speedfrom 0 to 4 m/min

DISCS UNIT

Brass discs diameter 120 mm

Vice discs diameter 110 mm

Depth adjustmentfrom -20 to +20 mm

Centring adjustmentfrom -10 to +10 mm

HORIZONTAL HEAD

Speed7500 rpm

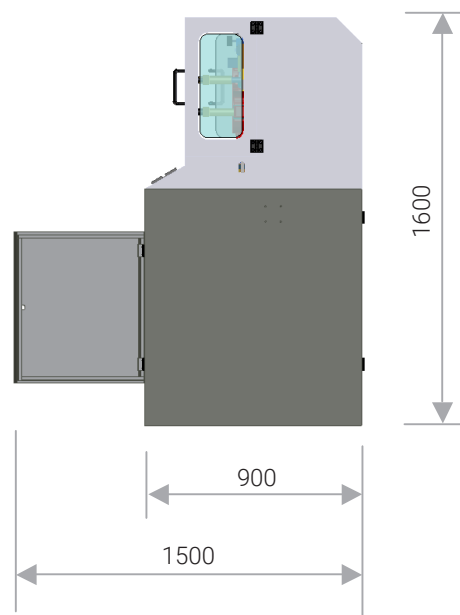
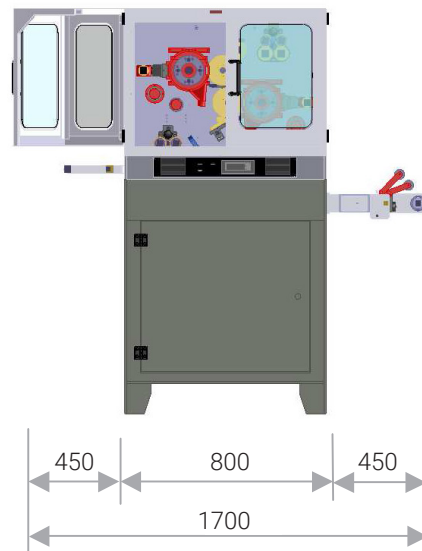
Tool holder diameter 120 mm

INSTALLATION DATA

Wattage3,5 kW

Power supply400 V, 50/60 Hz, 3~

Weight.....520 kg



RA 2700



DIAMOND CUTTING MACHINE FOR MULTICUTTING ON CHAINS

Patented RA 2700 Diamond Cutting Machine, with four horizontal heads, suitable to get multiple faceting and shaping on various kind of chains in one pass only.

DIAMANTATRICE PER MULTIDIAMANTATURE SU CATENE

Diamantatrice mod. RA 2700 brevettata, a quattro teste orizzontali, adatta per ottenere multi diamantature e sagomature su catene varie, in una sola passata.



MACHINABLE PRODUCTS

Cable / Square chains

Number of working axes4 (Dragging and vice discs unit / Tool)

DRAGGING UNIT

Feed speedfrom 0 to 4 m/min

VICE DISCS UNIT

Pin diameter20 mm

Depth adjustmentfrom -5 to +5 mm

Centring adjustmentfrom -5 to +5 mm

HORIZONTAL HEAD

Speed7500 rpm

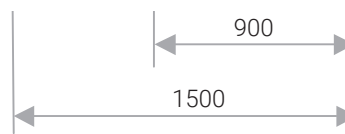
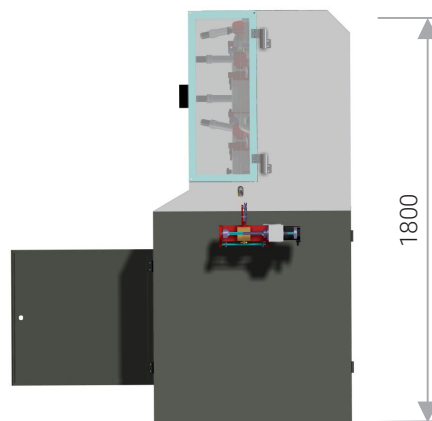
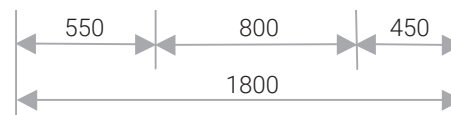
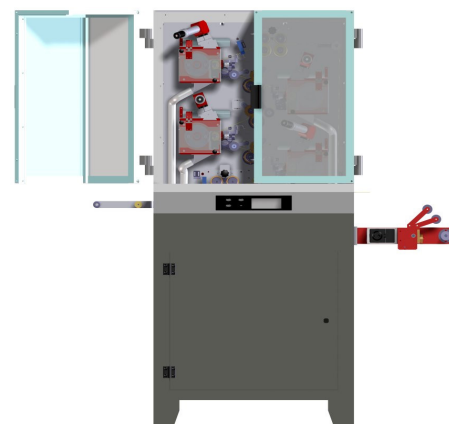
Tool holder diameter.....100 mm

INSTALLATION DATA

Wattage3,5 kW

Power supply400 V, 50/60 Hz, 3~

Weight.....520 kg



RA 3200



DIAMOND CUTTING MACHINE FOR CHAINS WITH GEOMETRICAL SECTION

Diamond cutting machine mod. RA 3200 with two horizontal heads and two vice units in flat position, suitable to carry out cutting and forming on 4, 6, 8 sides on rope chain, mixed ball & long cylinder chain, round or with geometrical shape chains in general.

DIAMANTATRICE PER CATENE CON PROFILO GEOMETRICO

Diamantatrice mod. RA 3200 a due teste orizzontali e due gruppi morse in piano, adatta per eseguire diamantature e sagomature a 4, 6, 8 lati su catene corda, catene a palline con cilindretti lunghi, catene tonde o con profilo geometrico in genere.



MACHINABLE PRODUCTS

Ball chain / Hammered with geometrical shape chains (Snake chain) /
Figaro chain

Min. chain diameter:..... 1 mm

Number of working axes..... 2 (Dragging unit/Tool)

DRAGGING UNIT

Feed speed from 0 to 9 m/min

HORIZONTAL HEAD

Tool rotation speed from 0 to 7500 rpm

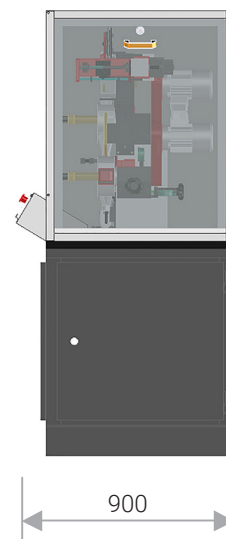
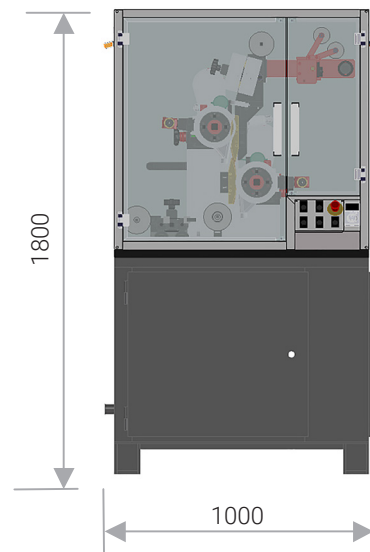
Tool holder diameter..... 120 mm

INSTALLATION DATA

Wattage 3 kW

Power suppl:..... 400 V, 50/60 Hz, 3~

Weight..... 300 kg



RA 2300 B2

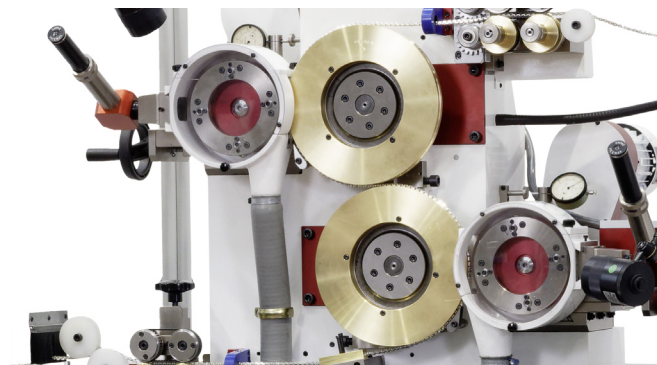


DIAMOND CUTTING MACHINE FOR CHAINS WITH GEOMETRICAL SECTION

Diamond cutting machine mod. RA 2300 B2 with two horizontal heads suitable to carry out cutting and forming on 4, 6, 8 sides on rope chains, ball-chain and hammered with geometrical shape chains; concave and convex bevelling and forming on medium and big chains.

DIAMANTATRICE A DUE TESTE PER CATENE CON PROFILO GEOMETRICO

Diamantatrice mod. RA 2300 B2 a due teste orizzontali adatta per realizzare diamantature e sagomature a 4, 6, 8 lati su catene corda, catene a pallina e catene battute con profilo geometrico; smussi e sagomature concave e convesse su catene medio grosse.



MACHINABLE PRODUCTS

Rope chains, ball-chain and hammered with geometrical shape chains

Number of working axes 2 (Dragging and Vice discs unit/Tool)

DRAGGING UNIT

Feed speed from 0 to 7 m/min

DISCS UNIT

Vice discs diameter 190 mm

Brass discs diameter 240 mm

HORIZONTAL HEADS

Speed 7500 rpm

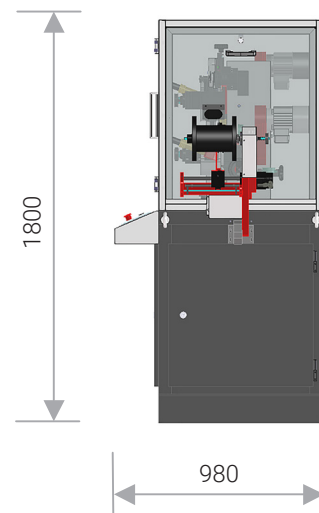
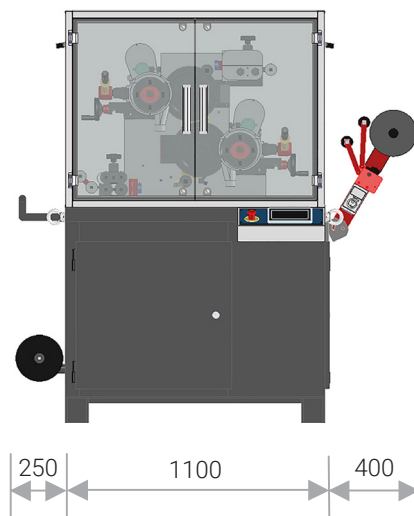
Tool holder diameter 150 mm

INSTALLATION DATA

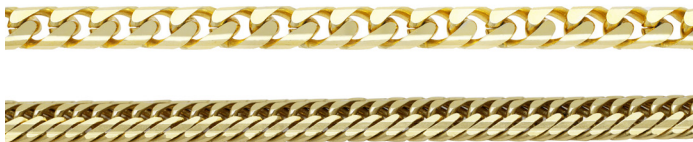
Wattage 3,5 kW

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

Weight 550 kg



RA 2300 C / 2300 TWIN

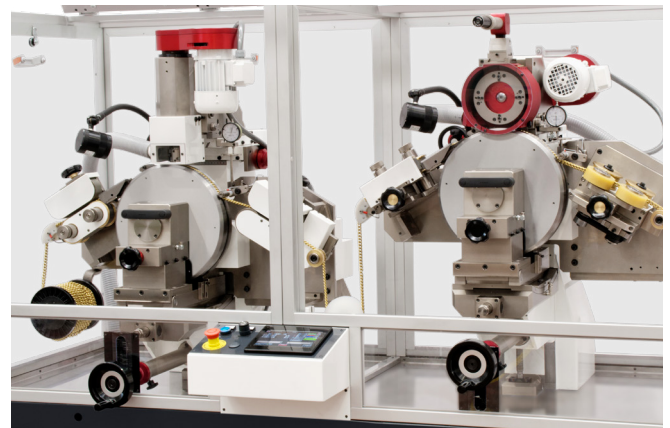


SINGLE OR TWIN DIAMOND CUTTING MACHINE FOR BIG CHAINS

Diamond cutting machine mod. RA 2300 C with 1 or 2 heads suitable for shaping and lapping on long links medium big chains.

DIAMANTATRICE PER CATENE GROSSE SINGOLA O DOPPIA

Diamantatrice mod. RA 2300 C ad 1 o 2 teste adatta per realizzare sagomature e lappature su catene medio grosse.



MACHINABLE PRODUCTS

Flat chain (Curb / Figaro) of medium-heavy dimension

Number of working axes 2 (Dragging unit/Tool)

DRAGGING UNIT

Feed speed from 0 to 3 m/min

VICE DISCS UNIT

Discs diameter 350 mm

HORIZONTAL HEAD

Speed 7500 rpm

Tool holder diameter 150 mm

VERTICAL HEAD

Speed 12000 rpm

Tool holder diameter 60 mm

INSTALLATION DATA RA 2300 TWIN

Wattage 4 kW

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

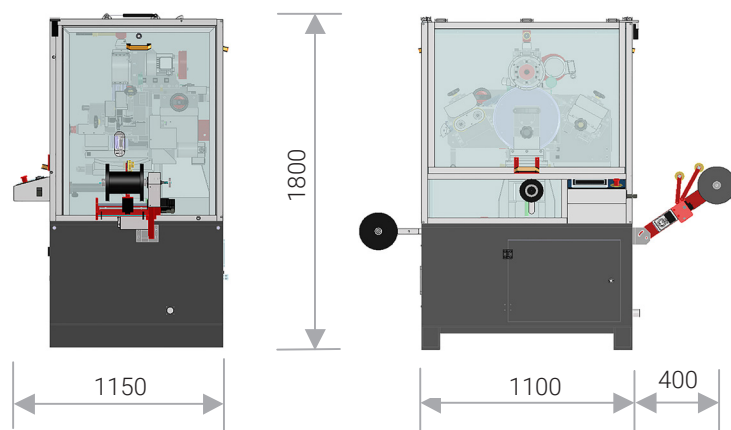
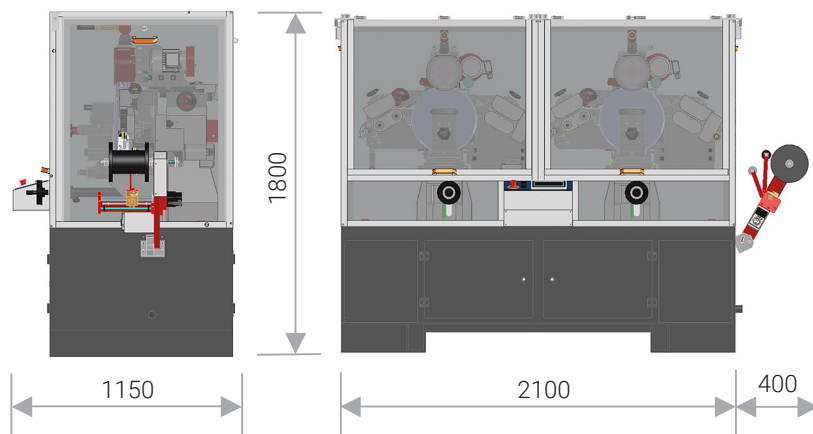
Weight 1400 kg

INSTALLATION DATA RA 2300 C

Wattage 2.5 kW

Power supply 230 V, 50/60 Hz, 1~

Weight 700 kg



DG1 400

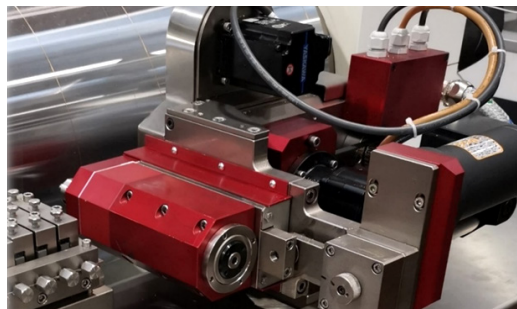
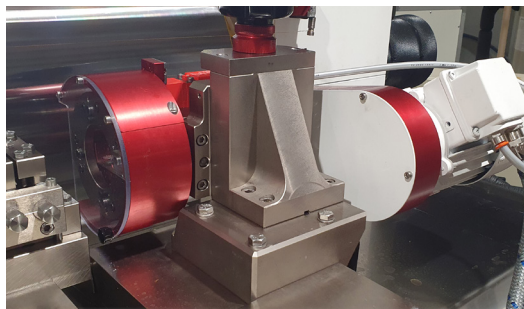


PATENTED ICE LATHE FOR CHAINS

Patented high precision ice Lathe mod. DG1 400 suitable to carry out flat lapping, bevels and satin finishing on chains.

TORNIO A GHIACCIO BREVETTATO PER CATENE

Tornio a Ghiaccio di precisione brevettato mod. DG1 400 adatto per eseguire lappature, smussi e satinature su catene.



CYLINDER

Cylinder length700 mm
Cylinder diameter400 / 500 mm
Speedfrom 0 to 500 rpm
Cylinder stop time 500 - 0 rpm0.8 sec
Cylinder motor.....15 kW

CARRIAGE

Speedfrom 0 to 4000 mm/min
Turning tools section10 x 10 mm
Number of tools5

HORIZONTAL HEAD (OPTIONAL)

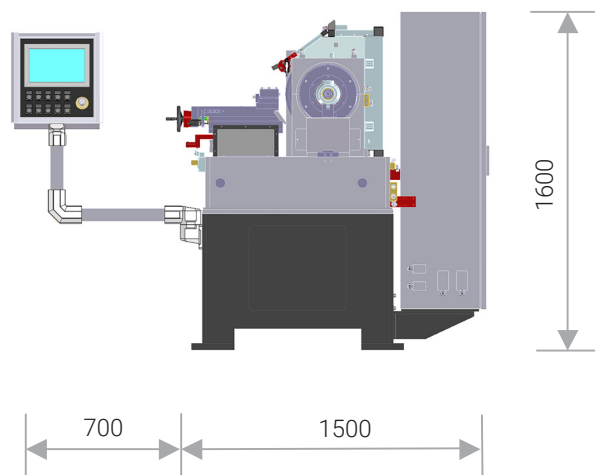
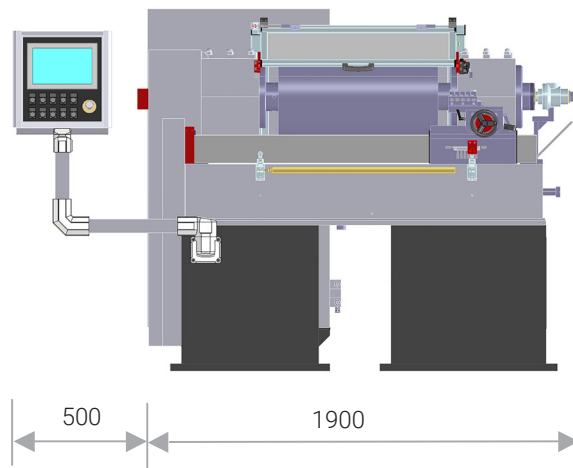
Tool rotation speedfrom 0 to 6000 rpm
Tool holder diameter.....144 mm

SATIN FINISHING UNIT (OPTIONAL)

Tool rotation speedfrom 0 to 40000 rpm
Tool pincer diameter.....8 mm
Satin finish depth.....from 0.10 to 0.70 mm

INSTALLATION DATA

Wattage18 kW
Power supply400 V / 50-60 Hz / 3~
Weight.....3500 kg



VRT 10

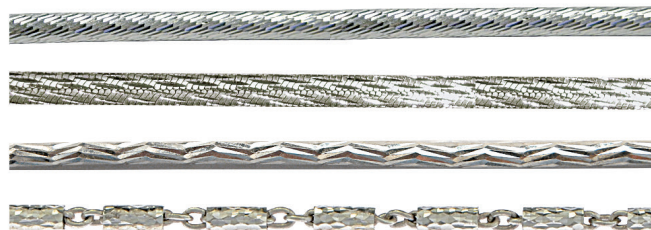
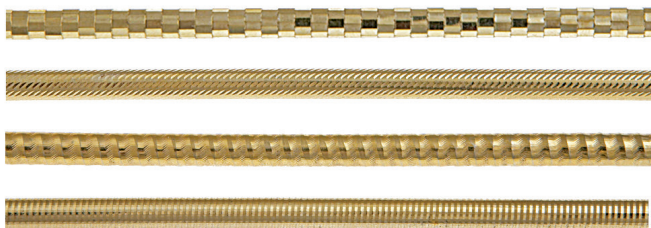


PATENTED DIAMOND CUTTING MACHINE FOR WIRE/TUBE AND ROUND/OVAL SHAPED CHAIN

Patented diamond cutting machine mod. VRT 10, controlled by C.N.C., suitable to carry out various decorations on wire, tube and round and oval shaped chain, in continuous, alternate way or by step.

DIAMANTATRICE BREVETTATA PER FILO/TUBO E CATENA ROTONDA E OVALE

Diamantatrice mod. VRT 10 brevettata, a controllo numerico computerizzato, adatta per realizzare decori vari su filo, tubo e catena a sezione rotonda e ovale, in modo continuo, alternato o a passo.



MACHINABLE PRODUCTS

Chain / Wire / Tube

Machinable diameterfrom 0,25 to 12 mm

Number of working axes.....3 (Dragging unit/Rotating drum/Tool)

DRAGGING UNIT:

Feed speedfrom 0 to 3.5 m/min

ROTATING DRUM

Rotation speedfrom 0 to 1200 RPM

VERTICAL HEAD

Tool rotation speedfrom 0 to 18000 RPM

HORIZONTAL HEAD

Tool rotation speedfrom 0 to 14000 RPM

Tool diameter80 / 50 / 25 mm

Orientation availablefrom -30° to +120°

WORKING MODE

- Step processing by optical fibre
- Drum-tool processing in synchronism
- Processing with phase displacement and real time synchronism
- Position processing

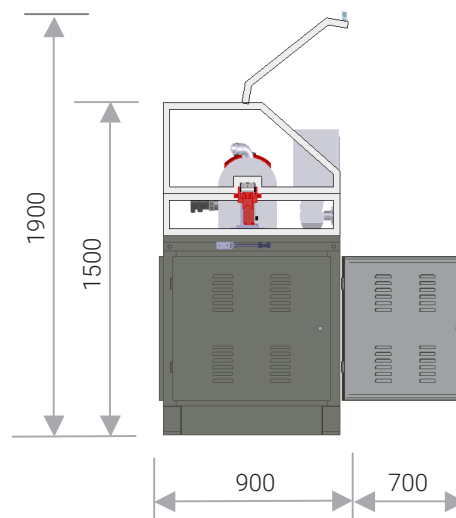
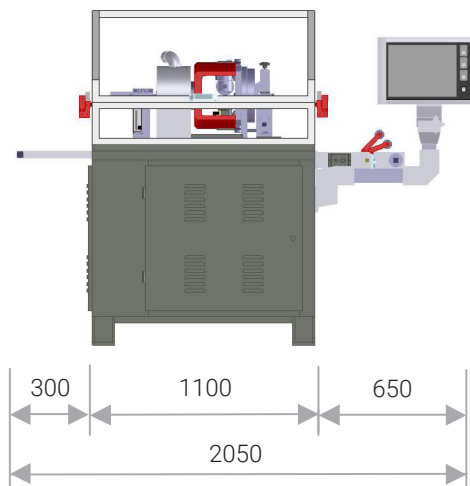
INSTALLATION DATA

Wattage7 kW

Power supply400 V, 50/60 Hz, 3~

Pneumatic supply6 bar

Weight.....550 kg





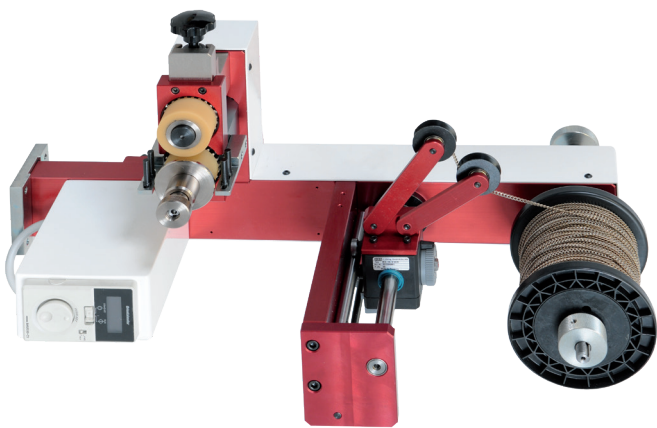
CENTERING JIG

Universal Centering jig for diamond tools holders.

CENTRATORE

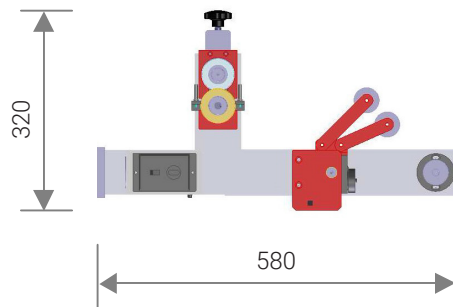
Centratore universale per diamanti su frese a più utensili.





DRAGGING CHAIN WINDER FOR HAMMERING MACHINE

TRAI NO AVVOLGICATENA PER BATTITRICE



TECHNICAL DATA

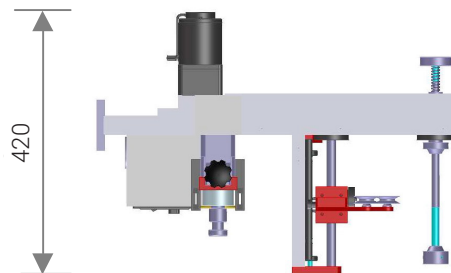
Distribution system changeable pitch..... from 0,3 to 6,3 mm
 Dragging chain speed..... from 0,5 to 7 m/min

SPOOL

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

INSTALLATION DATA

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



NOTE



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