

OVER 60
YEARS OF
PRECISION



— MADE IN ITALY —

BALLS, STRIP AND MEDALS
PALLINE, LASTRA E MEDAGLIE

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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DVP R / DVP M9



PATENTED C.N.C. DIAMOND CUTTING MACHINE FOR BALL CHAINS AND ROSARY CHAINS

Diamond Cutting Machine mod. DVP R / DVP M9 with 12 axes computerised numerical control suitable to carry out various decorations, facetings, punctuations, beats, stars on ball chains and Rosary chains.

DIAMANTATRICE C.N.C. BREVETTATA PER CATENE A PALLINE E CATENE ROSARIO

Diamantatrice mod. DVP R / DVP M9 a controllo numerico computerizzato a 12 assi adatta per eseguire decorazioni varie, sfaccettature, punteggiature, colpetti, stelline su catene a palline e catene Rosario.



MACHINABLE PRODUCTS

Ball chain / Rosary chain

Max. diameter chain	6 mm
Number of working axes.....	12
Axis tilt Table	-20° / +45°
Axis tilt Tool Heads.....	-45° / +180°

DRAGGING AND SPOOL UNIT

Spool dimensions.....	Øe.150 / Øi.45 x Li.74 mm
Feed speed	from 0 to 3.5 m/min

VERTICAL HEAD

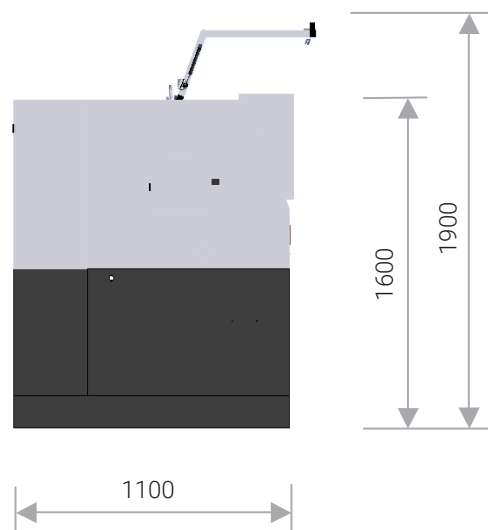
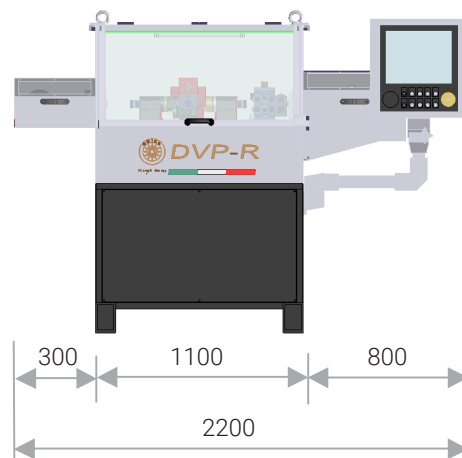
Tool rotation speed	from 0 to 20000 rpm
Tool pincer diameter.....	6 mm

HORIZONTAL HEAD

Tool rotation speed	from 0 to 15000 rpm
Tool diameter	80 mm

INSTALLATION DATA

Wattage	5 kW
Power supply	400 V, 50/60 Hz, 3~
Pneumatic supply.....	6 bar
Weight.....	1000 kg



DVP S5



PATENTED C.N.C. DIAMOND CUTTING MACHINE FOR BEADS

Diamond cutting machine mod. DVP S5 with 5 axes computerised numerical control suitable to carry out various decorations, facetings, punctuations, beats, stars on beads.

DIAMANTATRICE C.N.C. BREVETTATA PER PALLINE SINGOLE

Diamantatrice mod. DVP S5 a controllo numerico computerizzato a 5 assi adatta per eseguire decorazioni varie, satinature, sfaccettature, punteggiature, colpetti, stelline su palline singole.



MACHINABLE PRODUCTS

Beads

Max. diameter beads	12 mm
Number of working axes	5
Axis tilt Table	-65° / +65°
Axis tilt Tool Heads	-135° / +135°

BEADS LOADER

Max. number of beads	15 beads/min
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VERTICAL HEAD

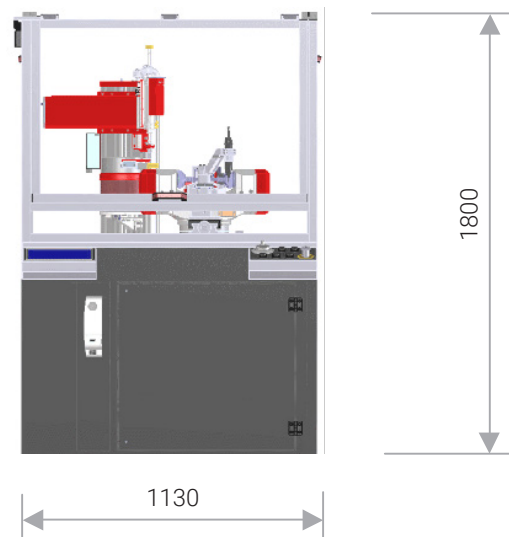
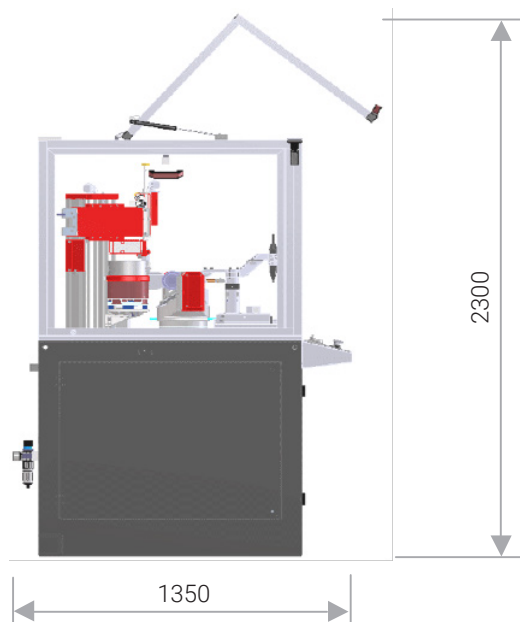
Tool rotation speed	from 0 to 20000 rpm
Tool pincer diameter	6 mm

HORIZONTAL HEAD

Tool rotation speed	from 0 to 15000 rpm
Tool diameter	80 mm

INSTALLATION DATA

Wattage	3 kW
Power supply	230 V, 50/60 Hz, 1~
Pneumatic supply	6 bar
Max. air consumption	60 NI/min
Weight	560 kg



DVP S12



PATENTED C.N.C. DIAMOND CUTTING MACHINE FOR BEADS

Diamond cutting machine mod. DVP S12 with 11 axes computerised numerical control suitable to carry out various decorations, facetings, punctuations, beats, stars on beads.

DIAMANTATRICE C.N.C. BREVETTATA PER PALLINE SINGOLE

Diamantatrice mod. DVP S12 a controllo numerico computerizzato a 11 assi adatta per eseguire decorazioni varie, sfaccettature, punteggiature, colpetti, stelline su palline singole.



MACHINABLE PRODUCTS

Beads

Max. diameter beads	12 mm
Number of working axes	11
Axis tilt Table	-40° / +65°
Axis tilt Tool Heads	-45° / +180°

BEADS LOADER

Max. number of beads	15 beads/min
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VERTICAL HEAD

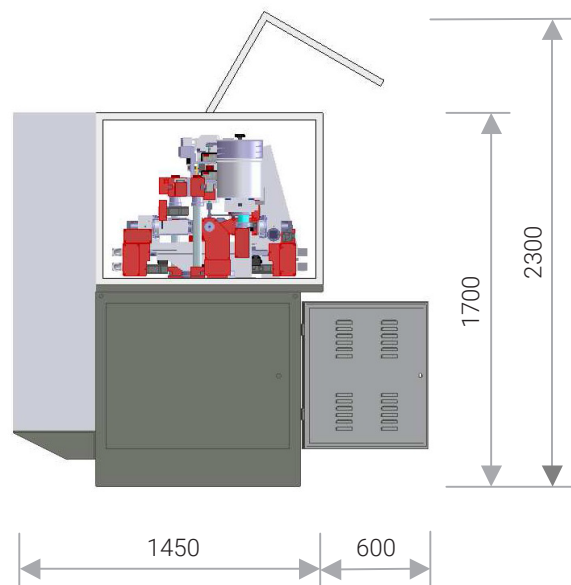
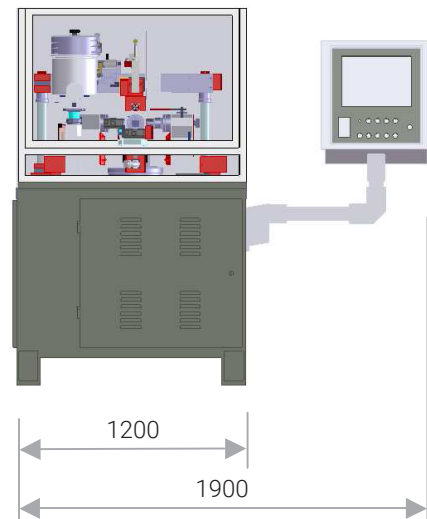
Tool rotation speed	from 0 to 20000 rpm
Tool pincer diameter	6 mm

HORIZONTAL HEAD

Tool rotation speed	from 0 to 15000 rpm
Tool diameter	80 mm

INSTALLATION DATA

Wattage	4.6 kW
Power supply	230 V, 50/60 Hz, 1~
Pneumatic supply	6 bar
Max. air consumption	60 NI/min
Weight	550 kg



DVP S17



PATENTED C.N.C. DIAMOND CUTTING MACHINE FOR BEADS

Diamond cutting machine mod. DVP S17 with 12 axes computerised numerical control suitable to carry out various decorations, facetings, punctuations, beats, stars on beads.

DIAMANTATRICE C.N.C. BREVETTATA PER PALLINE SINGOLE

Diamantatrice mod. DVP S17 a controllo numerico computerizzato a 12 assi adatta per eseguire decorazioni varie, sfaccettature, punteggiature, colpetti, stelline su palline singole.



MACHINABLE PRODUCTS

Beads

Max. diameter beads	12 mm
Number of working axes	12
Axis tilt Table	-40° / +65°
Axis tilt Tool Heads	-45° / +180°

BEADS LOADER

Max. number of beads	24 beads/min
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VERTICAL HEAD

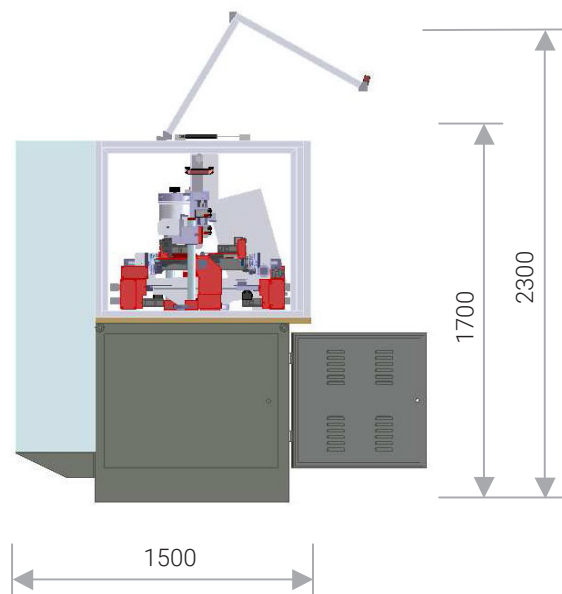
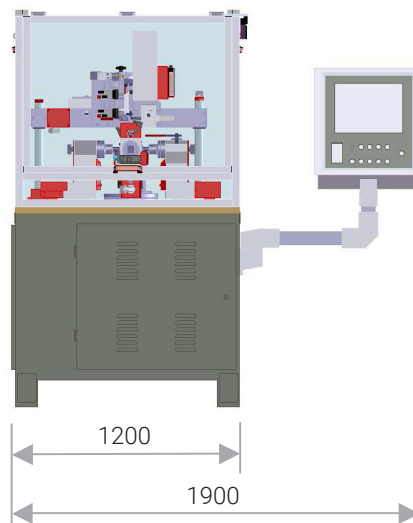
Tool rotation speed	from 0 to 20000 rpm
Tool pincer diameter	6 mm

HORIZONTAL HEAD

Tool rotation speed	from 0 to 15000 rpm
Tool diameter	80 mm

INSTALLATION DATA

Wattage	4.8 kW
Power supply	230 V, 50/60 Hz, 1~
Pneumatic supply	6 bar
Max. air consumption	60 NI/min
Weight	600 kg



DVP S15



C.N.C. PATENTED DIAMOND CUTTING MACHINE FOR SPHERICAL ELEMENTS

Diamond cutting machine mod. DVP S15 with 14 axes computerised numerical control suitable to perform various decorations on the whole surface of spherical elements.

DIAMANTATRICE C.N.C. BREVETTATA PER ELEMENTI SFERICI

Diamantatrice mod. DVP S15 a controllo numerico computerizzato a 14 assi adatta per eseguire decorazioni varie su tutta la superficie di elementi sferici.



MACHINABLE PRODUCTS

Beads

Max. diameter beads	20 mm
Number of working axes.....	14
Axis tilt Table	-100° / +100°
Axis tilt Tool Heads.....	-45° / +180°

BEADS LOADER

Max. number of beads	15 beads/min
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VERTICAL HEAD

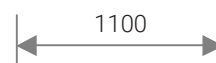
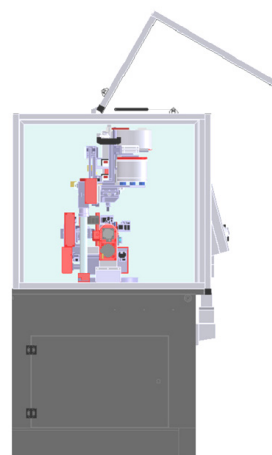
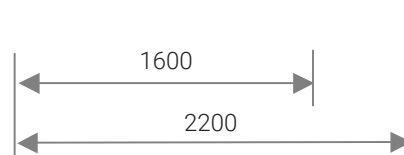
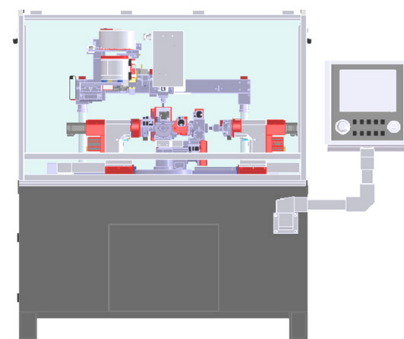
Tool rotation speed	from 0 to 20000 rpm
Tool pincer diameter	6 mm

HORIZONTAL HEAD

Tool rotation speed	from 0 to 15000 rpm
Tool diameter	80 mm

INSTALLATION DATA

Wattage	5,5 kW
Power supply	230 V, 50/60 Hz, 1~
Pneumatic supply	6 bar
Max. air consumption.....	60 NI/min
Weight.....	1200 kg



DVP S16



C.N.C. PATENTED DIAMOND CUTTING MACHINE FOR MICROCAST SPHERICAL ELEMENTS

Diamond cutting machine mod. DVP S16 with 12 axes computerised numerical control suitable for diamond cutting microcast spherical elements on beads.

DIAMANTATRICE C.N.C. BREVETTATA PER ELEMENTI SFERICI MICROFUSI

Diamantatrice mod. DVP S16 a controllo numerico computerizzato a 12 assi adatta per diamantare elementi sferici microfusi.



MACHINABLE PRODUCTS

Beads

Max. dimensions beads Ø28 x 45 mm

Number of working axes 12

Axis tilt Table -65° / +65°

Axis tilt Tool Heads..... -45° / +180°

VERTICAL HEAD

Tool rotation speed from 0 to 20000 rpm

Tool pincer diameter 6 mm

HORIZONTAL HEAD

Tool rotation speed from 0 to 15000 rpm

Tool diameter 80 mm

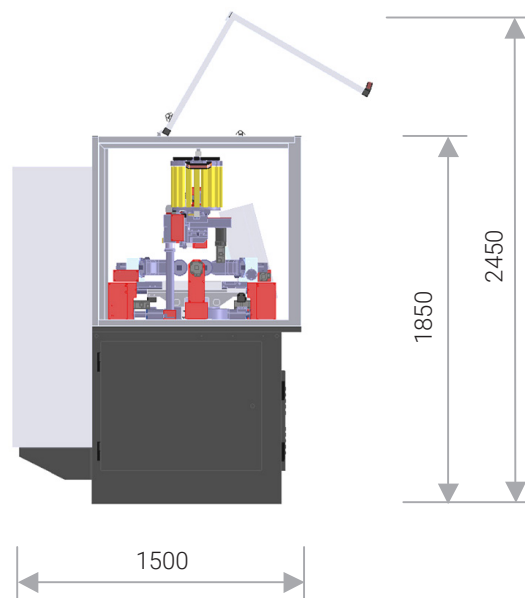
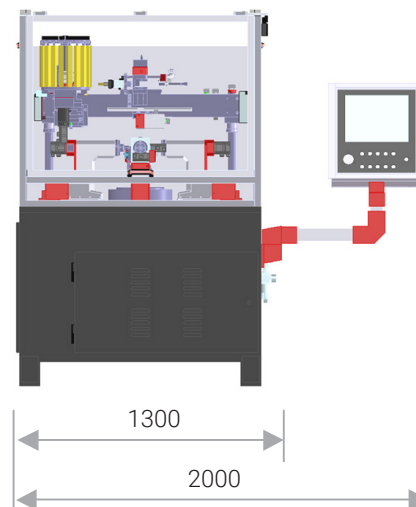
INSTALLATION DATA

Wattage 4.8 kW

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

Pneumatic supply 6 bar

Weight..... 700 kg



RI 3

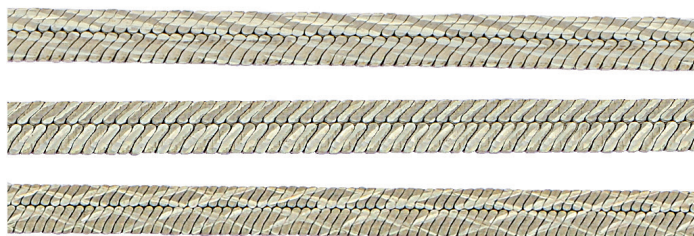
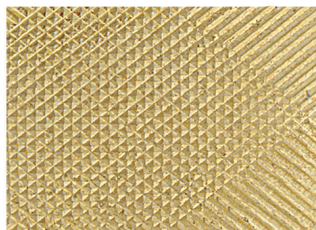
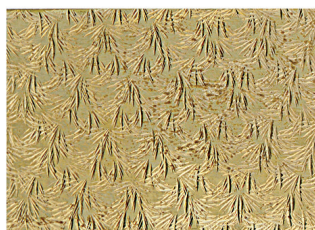


PATENTED C.N.C. DIAMOND CUTTING MACHINE FOR VARIED DECORATIONS ON CHAINS/STRIP

Diamond cutting machine mod. RI 3 with 5 controlled axes, suitable to carry out varied diamond cut and decorations on flat or convex chains and strip.

DIAMANTATRICE C.N.C. BREVETTATA PER DECORI VARI SU CATENE/LASTRA

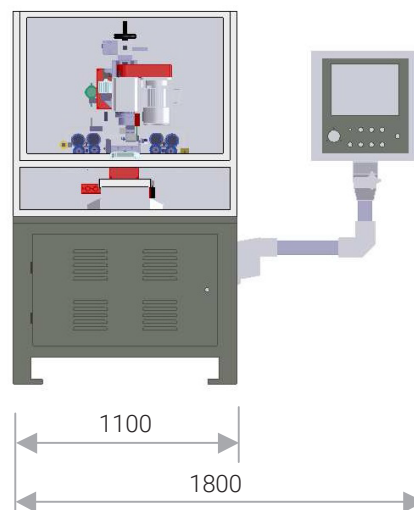
Diamantatrice mod. RI 3, a 5 assi controllati, adatta per eseguire diamantature e decori vari su catene piatte o bombate e lastra.



MACHINABLE PRODUCTS

Flat / Convex chains or Strip

Max. convex chain.....	Radius 15 x Width 10 mm
Max. width strip	40 mm
Number of working axes.....	5
Y-axis transversal travel Carriage.....	180 mm
X-axis feed speed Dragging Unit	from 0 to 13 m/min
C-axis rotation Horizontal Head	from 0 to 300 rpm
Vibrations axis.....	from 0 to 6000 shots/min
Tilt chain axis.....	from 0 to 650 °/s



VERTICAL HEAD

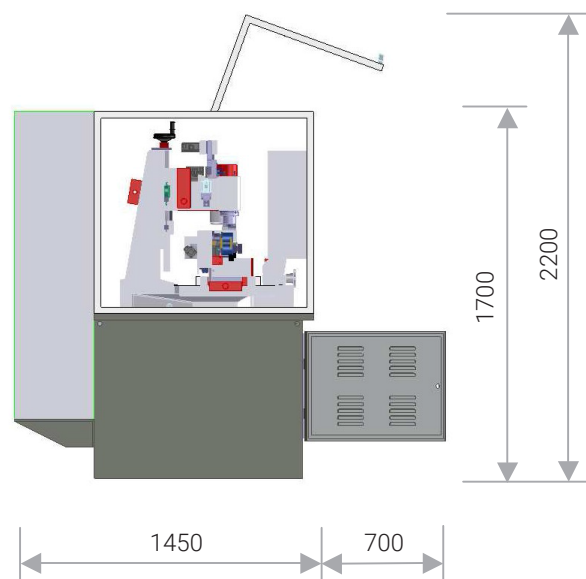
Max tool rotation speed	from 0 to 17000 rpm
Pincer diameter.....	6 mm

HORIZONTAL HEAD

Max tool rotation speed	from 0 to 9000 rpm
Tool diameter	40 mm

INSTALLATION DATA

Wattage	3 kW
Power supply	230 V, 50/60 Hz, 1~
Pneumatic supply.....	6 bar
Weight.....	480 kg



RI 5



C.N.C. DIAMOND CUTTING MACHINE FOR FLAT STRIP

Diamond cutting machine mod. RI 5, with 6 controlled axes, suitable to carry out varied milling cuts and decorations on flat strip.

FRESATRICE C.N.C. DI PRECISIONE PER LASTRA

Fresatrice di precisione mod. RI 5 a 6 assi controllati adatta per eseguire fresature e decorazioni al diamante su lastra, in automatico.



MACHINABLE PRODUCTS

Strip

Max. width strip	100 mm
Number of working axes	6
X-axis transversal travel head	850 mm
X-axis speed	30'000 mm/min
Y-axis longitudinal travel head	300 mm
Z-axis vertical travel head	100 mm
Y-Z axis speed	15'000 mm/min
C-axis rotation Horizontal Head	from 0 to 160 rpm
Vibrations axis	from 0 to 6'000 shots/min

VERTICAL ELECTRIC SPINDLE

Driving power	1.2 kW
Tool rotation speed	from 0 to 60'000 rpm
Pincer	WK 16

TOOL MAGAZINE FOR VERTICAL HEAD

Number of tool stations:	9
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HORIZONTAL HEAD

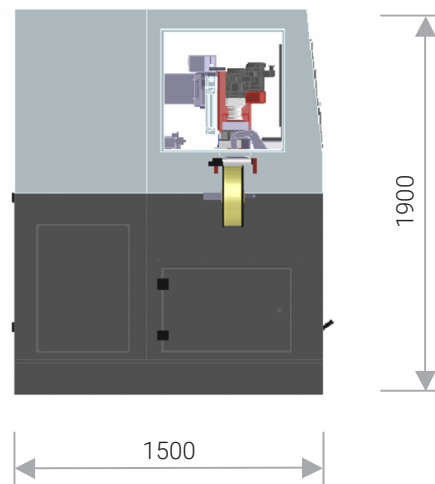
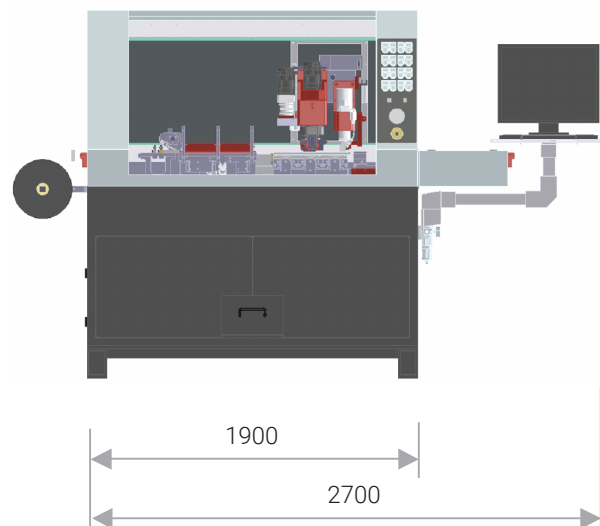
Tool rotation speed:	from 0 to 5'000 rpm
Number of tool:	3
Tool holder diameter:	75 mm

SMALL HORIZONTAL HEAD

Tool diameter:	20 mm
Tool rotation speed:	from 0 to 15'000 rpm

INSTALLATION DATA

Wattage:	6 kW
Power supply:	400 V, 50/60 Hz, 3~
Pneumatic supply:	6 bar
Weight:	2500 kg



RA 961 OVS

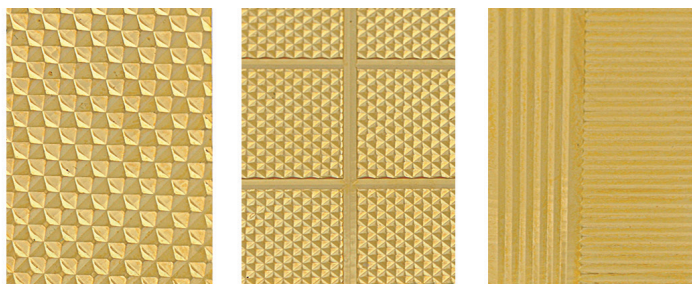


PATENTED C.N.C. DIAMOND CUTTING MACHINE FOR FLAT DECORATION

Diamond cutting machine mod. RA 961 OVS with computerised numerical control, suitable to carry out various decorations on medals, plates and general flat objects with execution of parallel lines either continuous or alternated, synchronized radiant crowns, circles, crosses, stars, alternate beats and other.

DIAMANTATRICE C.N.C. BREVETTATA PER DECORAZIONI IN PIANO

Diamantatrice mod. RA 961 OVS a controllo numerico computerizzato adatta per realizzare decorazioni varie su medaglie, targhe ed oggetti piani in genere con l'esecuzione di righe parallele continue o alternate, raggiere sincronizzate, cerchi, croci, stelle, colpi alternati ed altro.



MACHINABLE PRODUCTS

Flat objects / Medals / Plates

AXES

Number of working axes 6

Linear axes X – Y

X-axis longitudinal travel Divider 400 mm

Y-axis transversal travel Divider 180 mm

Axes speed 15 m/min

Rotation axes

C-axis speed Divider from 0 to 1000 rpm

Vertical spindle speed from 0 to 18000 rpm

HORIZONTAL HEAD

Speed from 0 to 6000 rpm

Tool holder diameter 130 mm

SMALL HORIZONTAL

Speed from 0 to 12000 rpm

Tool holder diameter 50 mm

Vibration horizontal head from 0 to 6000 shots/min

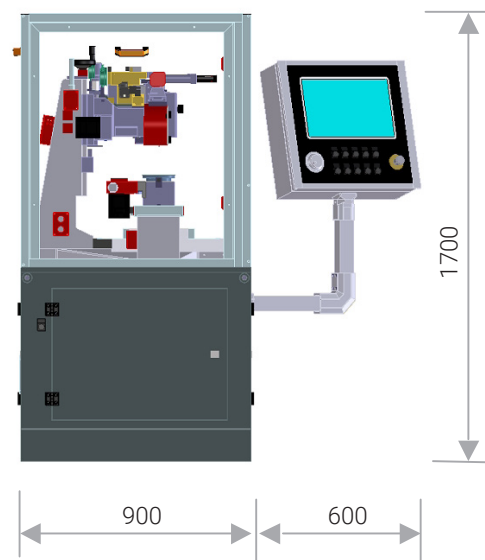
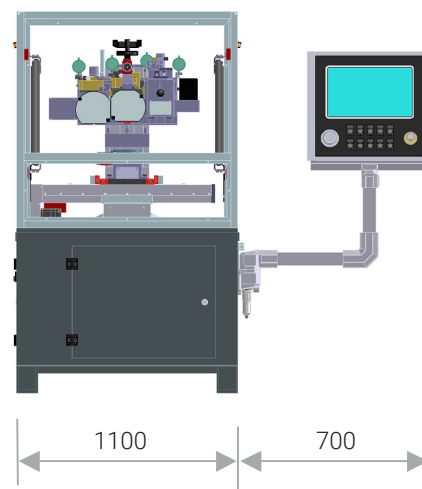
INSTALLATION DATA

Wattage 7 kW

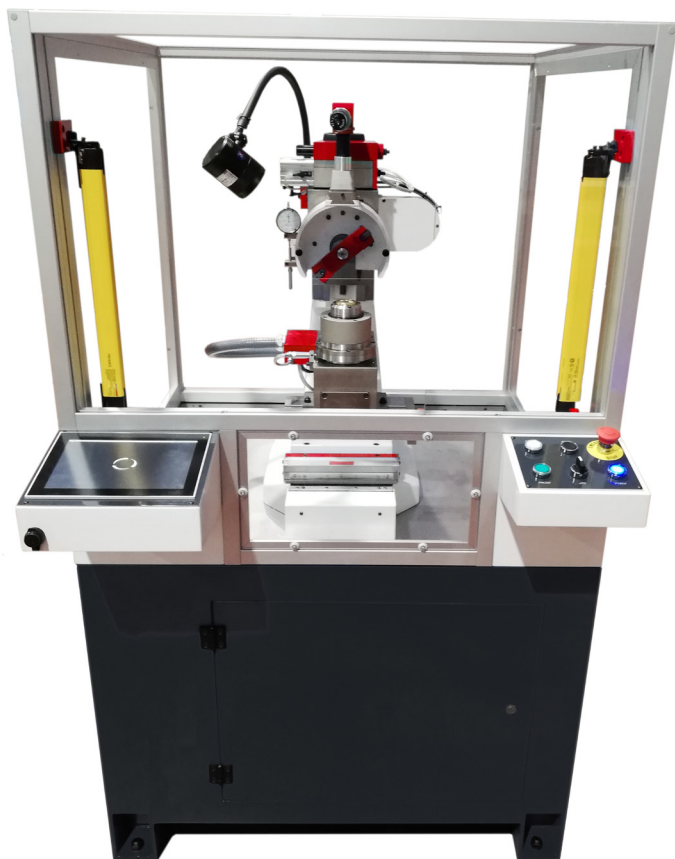
Power supply 400 V / 50-60 Hz / 3~

Pneumatic supply 6 bar

Weight 760 kg



SYNCRO 0 / SYNCRO 2



DIAMOND CUTTING MACHINE FOR MEDALS

Diamond cutting machine mod. SYNCRO with horizontal head or 2 heads (horizontal and vertical) suitable to carry out various radiant crowns on objects such as: medals, coins, buttons and similar ones in automatic mode.

DIAMANTATRICE AUTOMATICA PER MEDAGLIE A 2 TESTE

Diamantatrice mod. SYNCRO ad 1 testa orizzontale oppure a 2 teste (Orizzontale e Verticale) adatta per realizzare raggiere varie su oggetti quali: medaglie, monete, bottoni e simili in automatico.



MACHINABLE PRODUCTS

Flat objects / Medals / Plates / Buttons

Number of working axes..... 3 / 4

DIVIDER

Speed from 0 to 1000 rpm

Max diameter machinable 35 mm

Transversal adjustment from -50 to +50 mm

Longitudinal adjustment from -25 to +25 mm

VERTICAL HEAD

Speed from 0 to 12000 rpm

HORIZONTAL HEAD

Speed from 0 to 5000 rpm

Tool holder diameter..... 155 mm

SMALL HORIZONTAL HEAD (OPTIONAL)

Speed from 0 to 10000 rpm

Tool holder diameter..... 55 mm

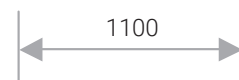
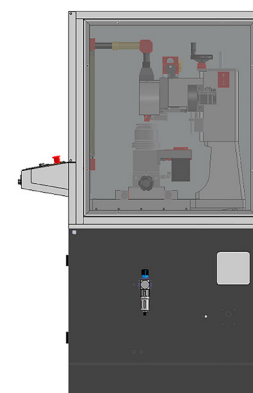
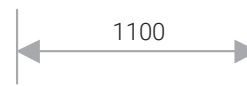
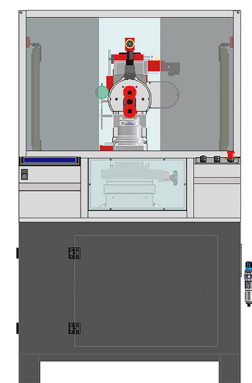
INSTALLATION DATA

Wattage 3,5 kW

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

Pneumatic supply..... 6 bar

Weight..... 550 kg





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