

OVER 60
YEARS OF
PRECISION



— MADE IN ITALY —

RINGS & BANGLES
ANELLI & BRACCIALI

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:

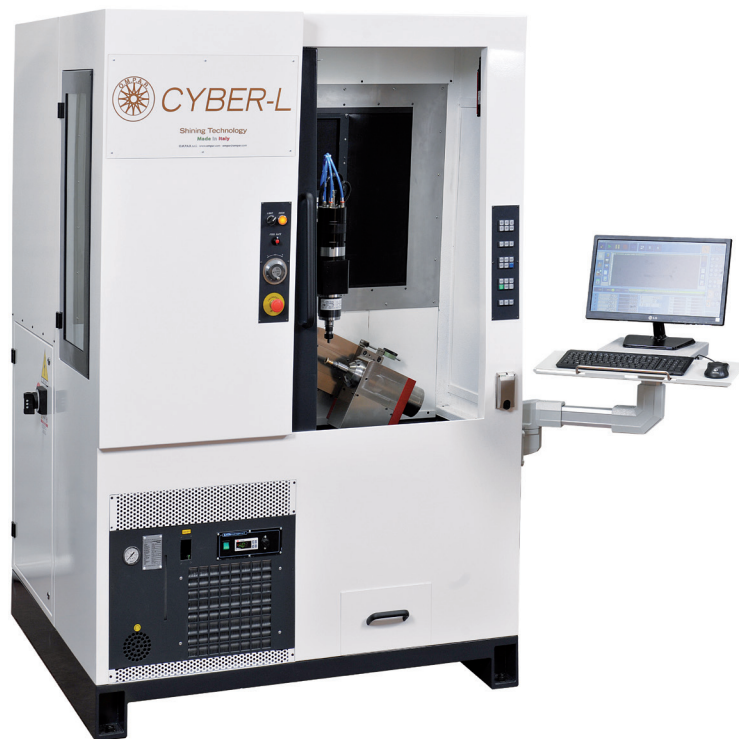
- Macchinari per la finitura delle catene; veloci, di facile utilizzo ed estremamente flessibili.
- Apparecchiature multifunzionali fino a 14 assi CNC che permettono lavorazioni tridimensionali e di trasferire agevolmente disegni, acquisiti da qualsiasi sorgente, sui diversi gioielli con qualità superlativa.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



C.N.C. DIAMOND CUTTING MACHINE FOR WEDDING-RINGS AND BANGLES

Diamond cutting machine mod. CYBER L with one head and 6 controlled axes to carry out decorations and diamond milling on flat and convex rings and bangles, in automatic mode.

DIAMANTATRICE C.N.C. PER FEDI E CERCHI

Diamantatrice mod. CYBER L con una testa e 6 assi controllati per la realizzazione di decorazioni e fresature al diamante su fedi e cerchi, piani e bombati, in automatico.



AXES

Number of working axes..... 6

Linear axes X – Y – Z

X-axis transversal travel Electro-spindle..... 470 mm

Y-axis longitudinal travel Electro-spindle 200 mm

Z-axis vertical travel Electro-spindle..... 300 mm

Rotation axes A – B

A-axis rotation Pincer 360°

B-axis tilt Divider -95° / +45°

ELECTRIC SPINDLE

Driving power 4.5 kW

Speed from 0 to 30000 rpm

Tool shaft size..... HSK 32

TOOL MAGAZINE

Number of tool stations 12

Max. tool diameter 60 mm

Max. tool length 40 mm

INSTALLATION DATA

Wattage 8,5 kW

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

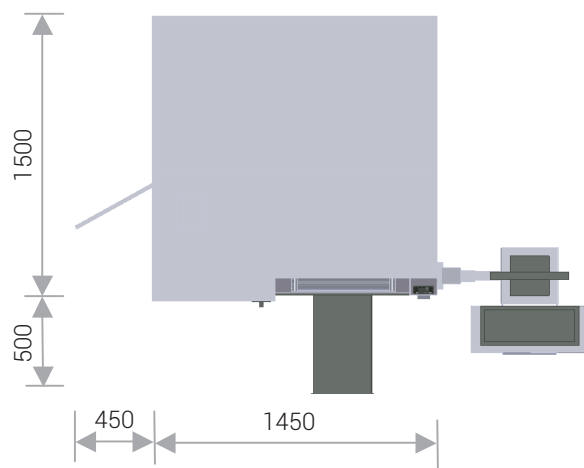
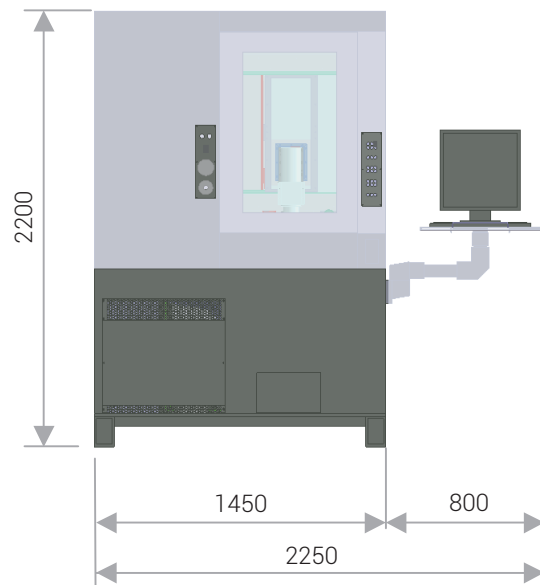
Pneumatic supply..... 6 bar

Max. air consumption..... 300 NI/min

Weight..... 1500 kg

PRESETTING TOOL OPTIONAL

m&h 35.10-TS



CYBER 1



C.N.C. DIAMOND CUTTING MACHINE FOR WEDDING-RINGS AND BANGLES

Diamond cutting machine mod. CYBER 1 with two in line heads and 11 controlled axes to carry out decorations and diamond milling on flat and convex rings and bangles, in automatic mode.

DIAMANTATRICE C.N.C. PER FEDI E CERCHI

Diamantatrice mod. CYBER 1 con due teste in linea e 11 assi controllati per la realizzazione di decorazioni e fresature al diamante su fedi e cerchi, piani e bombati, in automatico.



AXES

Number of working axes	10
Linear axes W – X – Y – Z1 – Z2	
W-axis vertical travel Pincer	40 mm
X-axis longitudinal travel Divider	60 mm
Y-axis transversal travel Heads	500 mm
Z1-axis vertical travel Horizontal Head	150 mm
Z2-axis vertical travel Electro-spindle	240 mm

Rotation axes A – B – C

A-axis rotation Pincer	360°
B-axis tilt Divider	-95° / +45°
C-axis rotation Divider	-50° / +100°

ELECTRIC SPINDLE

Driving power	2.6 kW
Speed	from 0 to 45000 rpm
Tool shaft size	HSK-E 25

HORIZONTAL HEAD

Speed	from 0 to 4500 rpm
Number of tool	6
Tool holder diameter	160 mm

TOOL MAGAZINE

Number of tool stations	20
Maximum tool diameter	60 mm
Maximum tool length	150 mm

INSTALLATION DATA

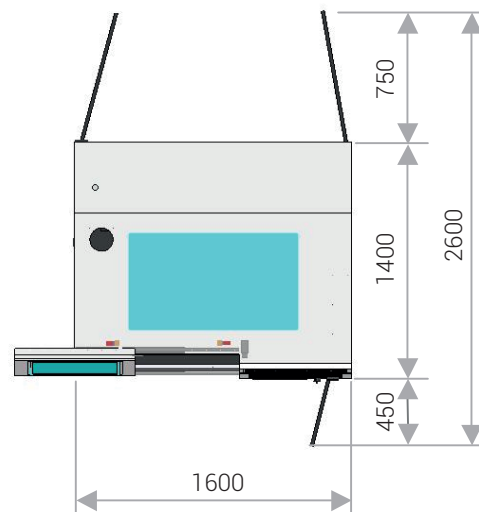
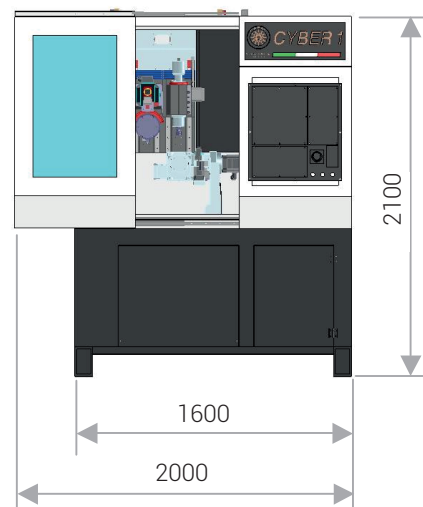
Wattage	11 kW
Power supply	400 V, 50/60 Hz, 3~
Pneumatic supply	6 bar
Maximum air consumption	400 NI/min
Weight	2000 kg

CONTROL SYSTEM

SIEMENS SINUMERIK	840DsI
DRIVES SYSTEM	SINAMICS

PRESETTING TOOL

m&h	35.10-TS
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RA 961 A



DIAMOND CUTTING MACHINE

Diamond cutting machine mod. RA 961 A with 3 controlled axes, suitable to carry out various diamond cutting and grooving on wedding-rings and bangles.

DIAMANTATRICE PER FEDI E CERCHI

Diamantatrice mod. RA 961 A a 3 assi controllati, adatta per eseguire diamantature varie e canali su fedeli e cerchi.



MACHINABLE PRODUCTS

Wedding-rings / Bangles

Number of working axes:..... 3

DIVIDER

Speed from 0 to 1000 rpm

Tilt adjustment from -45° to $+45^{\circ}$

Transversal adjustment from -50 to $+50$ mm

Longitudinal adjustment from -50 to $+50$ mm

VERTICAL HEAD

Speed from 0 to 12000 rpm

HORIZONTAL HEAD

Speed from 0 to 5000 rpm

Tool holder diameter 155 mm

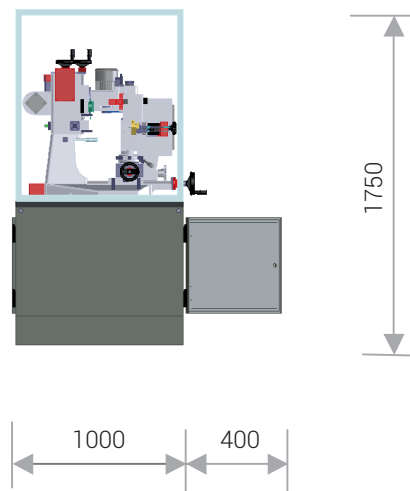
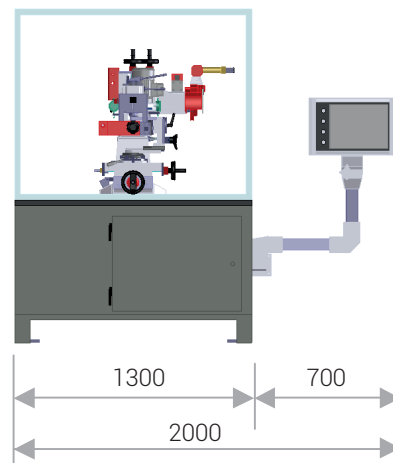
INSTALLATION DATA

Wattage 3,5 kW

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

Pneumatic supply 6 bar

Weight 550 kg



115 89



HIGH PRECISION UNIVERSAL LATHE FOR WEDDING-RINGS AND BANGLES DIAMOND CUT

High precision universal lathe mod. 115 89 suitable for diamond tool finishing on bangles, wedding-rings, flat and convex rings, watch-cases and various non ferrous parts.

TORNIO UNIVERSALE AD ALTA PRECISIONE PER DIAMANTARE FEDI E CERCHI

Tornio universale mod.115 89 adatto per finiture al diamante di cerchi, fedi, anelli piani e bombati, casse di orologio e minuteria varia non ferrosa.



MACHINABLE PRODUCTS

Wedding-rings / Bangles

Height of spindle..... 115 mm

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

SPINDLE DRIVE

Spindle speed..... from 0 to 4000 rpm

Motor power 0,75 kW

CARRIAGES

Number of longitudinal tool slide..... 2

Travel of the longitudinal tool slide..... 50 mm

Travel of the transversal tool slide..... 80 mm

Height of spindle from the carriage..... 24 mm

STANDARD PINCERS

Rings inside diameters..... from 15 to 22 mm

Rings outside diameters..... from 17 to 24 mm

Bangles inside diameters from 64 to 71 mm

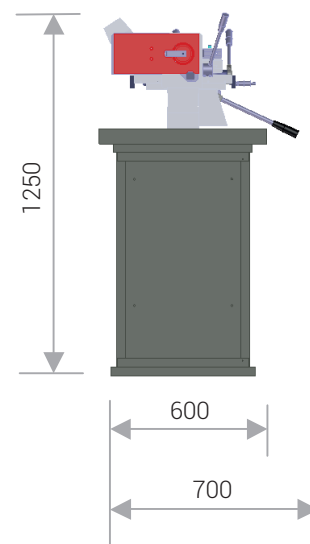
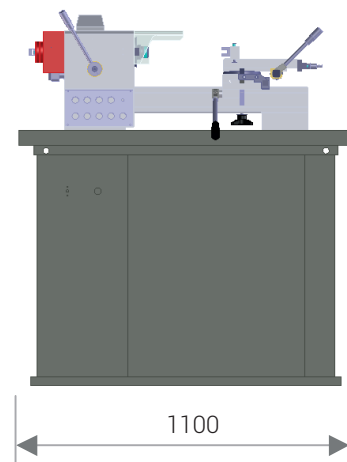
Bangles outside diameters..... from 68 to 78 mm

INSTALLATION DATA

Wattage 1,5 kW

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

Weight..... 250 kg



155 12



HIGH PRECISION UNIVERSAL LATHE FOR WEDDING-RINGS AND BANGLES DIAMOND CUT

High precision universal lathe mod. 115 12 suitable for diamond tool finishing on bangles, wedding-rings, flat and convex rings, watch-cases and various non ferrous parts.

TORNIO UNIVERSALE AD ALTA PRECISIONE PER DIAMANTARE FEDI E CERCHI

Tornio universale mod.115 12 adatto per finiture al diamante di cerchi, fedi, anelli piani e bombati, casse di orologio e minuteria varia non ferrosa.



MACHINABLE PRODUCTS

Wedding-rings / Bangles

Height of spindle centre..... 155 mm

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

SPINDLE DRIVE

Spindle speed..... from 0 to 4000 rpm

Motor power..... 0,75 kW

CARRIAGES

Number of longitudinal tool slide..... 2

Travel of the longitudinal tool slide..... 50 mm

Travel of the transversal tool slide..... 110 mm

Height of spindle from the carriage..... 21 mm

STANDARD PINCERS

Rings inside diameters..... from 15 to 22 mm

Rings outside diameters..... from 17 to 24 mm

Bangles inside diameters..... from 64 to 71 mm

Bangles outside diameters..... from 68 to 78 mm

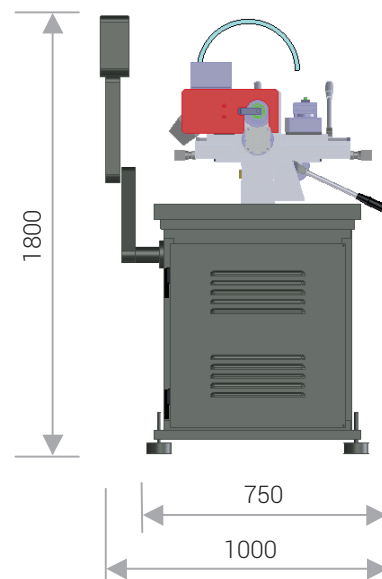
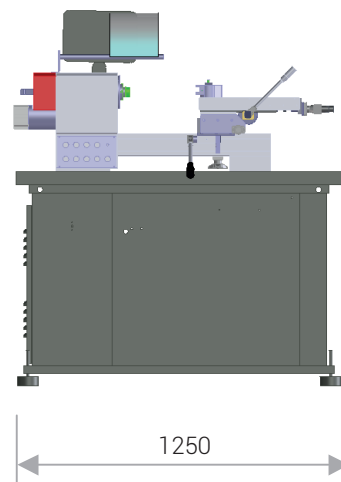
INSTALLATION DATA

Wattage..... 1,5 kW

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

Pneumatic supply..... 6 bar

Weight..... 350 kg



155 CN



PRECISION, AUTOMATIC, NUMERICALLY CONTROLLED LATHE

Automatic, precision Lathe mod. 155 CN with 3 controlled axes for turning wedding rings or bangles.

TORNIO AUTOMATICO DI PRECISIONE

Tornio automatico di precisione mod. 155 CN a 3 assi controllati per la tornitura di fedì o bracciali.



MACHINABLE PRODUCTS

Wedding-rings / Bangles

Height of spindle centre	190 mm
Height of spindle from the carriage	98 mm
Turning tools section	10 x 10 mm
Max. number of tools	5
Number of motorized tools	2 (OPTIONAL)

AXES

Number of working axes	3
Linear axes X – Z	
Z-axis longitudinal travel	150 mm
X-axis transversal travel	180 mm
Axis speed	5 m/min
C-axis Spindle	
Axis speed	from 0 to 5000 rpm
Motor power	1.3 kW

STANDARD PINCERS

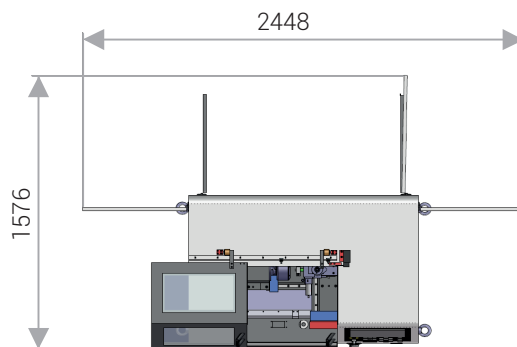
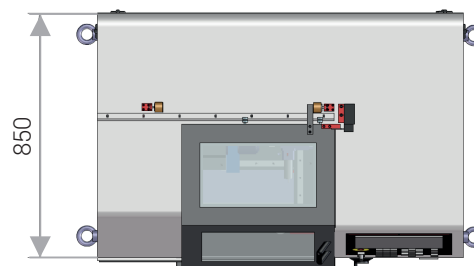
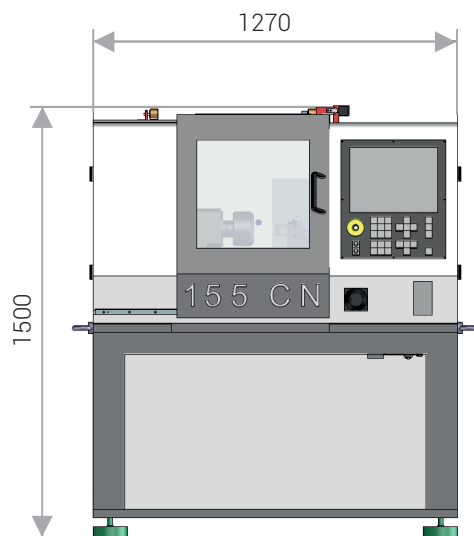
Rings inside diameters	from 15 to 22 mm
Rings outside diameters	from 17 to 24 mm
Bangles inside diameters	from 64 to 71 mm
Bangles outside diameters	from 68 to 78 mm

INSTALLATION DATA

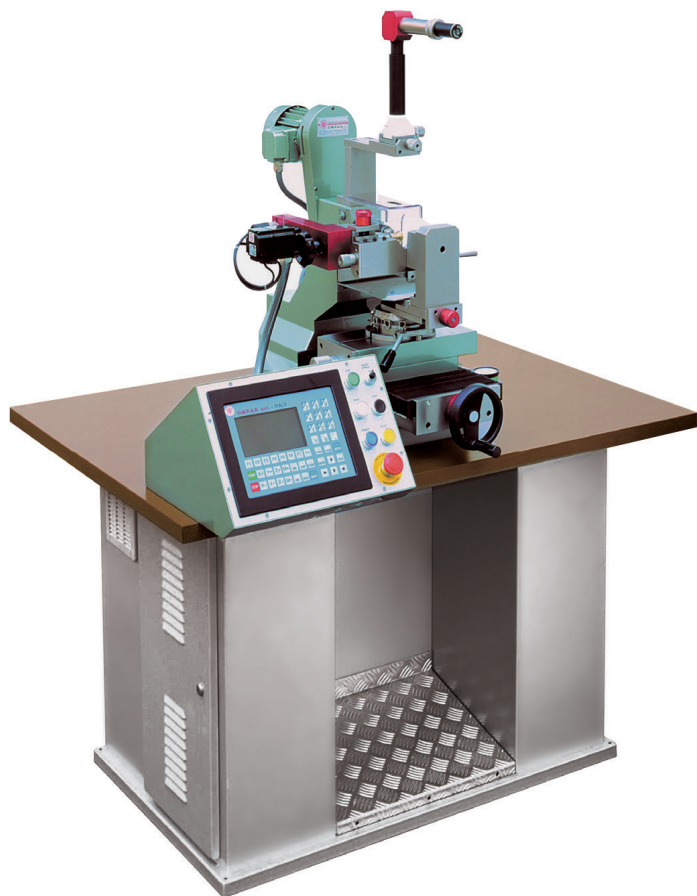
Wattage	4 kW
Power supply	400 V, 50/60 Hz, 3~
Pneumatic supply	6 bar
Max. air consumption:	50 NI/min
Weight	700 kg

SIDE SPINDLES (OPTIONAL)

Power	0,2 kW
Controlled speed	16500 rpm
Pincer diameter	6 mm



SIM 1



SEMI-AUTOMATIC DRILLING MACHINE FOR RINGS AND BANGLES

Semiautomatic drilling machine for rings and bangles mod. SIM 1 with one controlled axis, suitable to drill and create diamond site on wedding-rings and bangles.

FORATRICE SEMI-AUTOMATICA PER FEDI E CERCHI

Foratrice semi-automatica per fedeli e cerchi mod. SIM 1 ad un asse controllato, adatta per forare e creare castoni per diamanti su fedeli e cerchi.



MACHINABLE PRODUCTS

Wedding-rings / Bangles

Number of working axes..... 1

DIVIDER

Tilt adjustment..... from -45° to +45°

Transversal adjustment..... from -100 to +100 mm

Longitudinal adjustment..... from -50 to +50 mm

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

DRILL SPINDLE

Speed..... from 0 to 14000 rpm

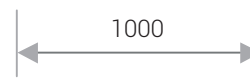
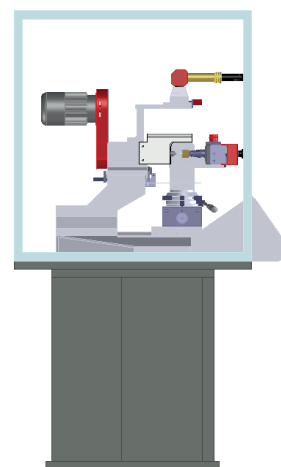
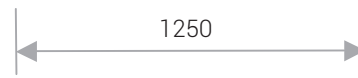
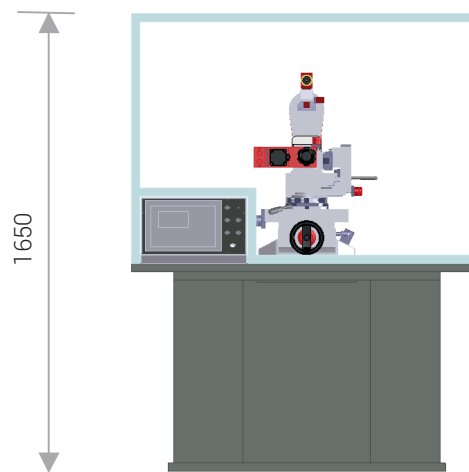
Tool pincer diameter..... 6 mm

INSTALLATION DATA

Wattage..... 2,5 kW

Power supply..... 230 V / 50-60 Hz / 1~

Weight..... 340 kg





CENTERING JIG

Universal Centering jig for diamond tools holders.

CENTRATORE

Centratore universale per diamanti su frese a più utensili.





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