

Integrated technologies



IMPACT 2
freeformer

medium
IMPACT
freeformer



IMPACT 2
freeformer



high technology multiform
generator



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IMPACT 2
freeformer

Automatic load

Technical data

DIMENSIONS mm. 2000x1900x1550 - WxDxH

WEIGHT Kg. 2100 ca.

NOISE 65/70 db.

ELECTRIC POWER 9.5 Kw. Installed + 3.5 chiller

ELECTRIC CONSUMP. 15/18 A (in cycle)

COMPRESSED AIR 6 bar

TOOLS

- Polycrystalline diamond wheel
- Sintered diamond wheel
- Galvanic, Carbide and for Aluminium (*)

(*)available on requirement

Fining:

- PCD tool
- Diamond tool

Axes

X: Position +/- 0.001 mm. - max speed 500 mm./sec

Y: Position +/- 0.001 mm. - max speed 500 mm./sec

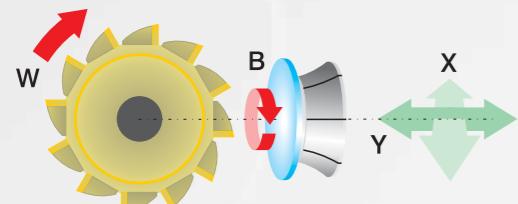
Z1: Position +/- 0.001 mm. - ultra fast acceleration axis

Z2: Position +/- 0.001 mm. - ultra fast acceleration axis

B: Position +/- 0.008° mm. - 6000 rpm.

W: Rotation 0 to 18.000 or 30.000 rpm.

Generating axes



medium
IMPACT
freeformer

Manual load

Technical data

DIMENSIONS mm. 1700x1700x1550 - WxDxH

WEIGHT Kg. 2000 ca.

NOISE 65/70 db.

ELECTRIC POWER 8.5 Kw. Installed + 3.5 chiller

ELECTRIC CONSUMP. 15/18 A (in cycle)

COMPRESSED AIR 6 bar

TOOLS

- Polycrystalline diamond wheel
- Sintered diamond wheel
- Galvanic, Carbide and for Aluminium (*)

(*)available on requirement

Fining:

- PCD tool
- Diamond tool

Axes

X: Position +/- 0.001 mm. - max speed 500 mm./sec

Y: Position +/- 0.001 mm. - max speed 500 mm./sec

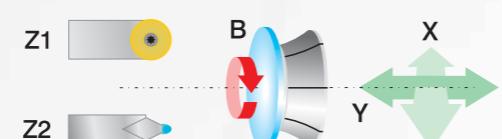
Z1: Not available

Z2: Position +/- 0.001 mm. - ultra fast acceleration axis

B: Position +/- 0.008° mm. - 6000 rpm.

W: Rotation 0 to 18.000 or 30.000 rpm.

Fining axes



Features

- 5 working axes (X, Y, Z1, B, W) /optional 6th axis Z2.
- Interpolated X and Y axes based on high speed linear motors.
- Z1 / Z2 axes: special-patented ultra speed motors.
- Interpolated B axis (lens) - 6000 rpm.
- Direct drive motor spindle W axis (generation wheel) at 18000 or 30.000 rpm.
- Automatic millesimal device for semi-finished and finished lens control.
- Automatic millesimal device for lens diameter control.
- Diameter reduction and lens pre-shape.
"elliptic and programmable forms".
- Controlled programmable chamfering.
- High speed feedback on operative system kernel.
- Pneumatic and I/O controls based on ModBus technology.
- Separated antivibration double structure.

Control panel-PC system

- Innovative graphic user interface.
- Dedicated software by COMES Zanzaform PRO.
- Touch screen interactive user interface.
- Relational data base for lens parameters.
- LAN Net connection.
- Serial port RS232.

Optionals

- Remote control service.
- Internal modem.
- Integrated automatic loader for prescription box.
- Automatic or Manual barcode scanner for lens data entry.
- Cooling system.
- Multiform sofware generation (freeform).

Materials

- CR 39 / Trivex.®
- Polycarbonate.
- Plastic high index.
- Aluminium and plastic tools.

Production

Ready to polish

- All ophthalmic forms + FREEFORM.