



Elosdent 5 Axis Metal Milling Machine



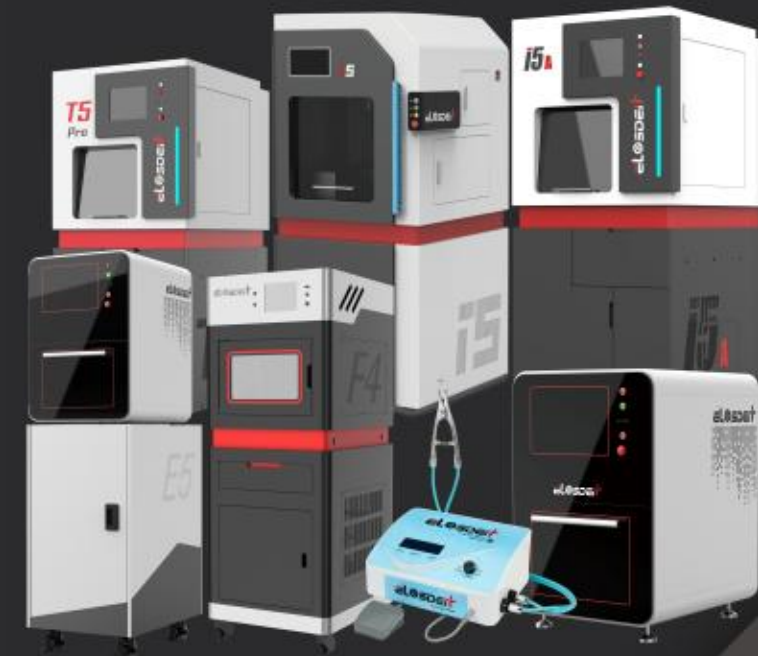
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About us >

Elosdent medical shenzhen co., ltd is a company focus on the high-precision milling/turning machine, which is used mainly for medical milling, metal processing and aerospace. In medical area, machine is used for bone nail, dental implant, abutment, screws; elosdent dental department is founded in 2015, focus on the dental cad/cam development. Elosdent dental have a team with high technology of machine design, dental cad design, and cam. Until now, we have over 30 distributors on china, vietnam, india, spain, germany, italy, turkey, etc. Now, elosdent dental have the full solution for dental milling - zirconia, ceramic, titanium, cobalt, peek, etc. Which can satisfy all requests of the dental lab.



Elosdent T5

Holder Types



Applications



Material Types



Economy
5 Axis machine

Machine bed:
Ball milled cast iron



Mechanical structure
Design of Industrial
Integration

19 tool libraries

Elosdent T5 Parameter

Axis: 5 axis

A angel limit: $\pm 25^\circ$

B angel limit: -40° to 220°

Spindle : 2.5 kW

Rotation: 60,000rpm

Accuracy: 6 μ m

Repeatability accuracy: 4 μ m

Tool magazine: 19 tools

Xyz limit: 180*220*160 mm

Machine size: 820*1060*1820 mm

Weight: 900 kg

Cast iron bed

High precision tool compensation.

Mecahnics: high assembly process

Grinding lead screw

Great guide rail

Servo: high speed and precision

Elosdent T5 Pro

Holder Types



Applications



Material Types

Ti	PMMA	PEEK	Wax	Dentures	Premill Abutment
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high-performance 5 axis Metal Machine

Mechanical structure Design of Industrial Integration



Precision customized machine

23 tool libraries

Elosdent T5 Pro Parameters

Axis: 5 Axis

Angle A limit: $\pm 25^\circ$

Angle B Limit: -40° to 220°

Spindle Power: 2.7kW

Spindle Rotation: 60000rpm

Accuracy: $5\mu\text{m}$

Repeatability: $4\mu\text{m}$

Tool Library: 23 PCS

XYZ Limit: $180 \times 220 \times 160 \text{ mm}$

Machine Size : $820 \times 1060 \times 1820$

Machine Weight: 900kg

Machine Bed: Casting Iron

Tool Measurement: Automatic

Machine: precise guide

precise bearing

Servo: Bus Servo

Elosdent i5A

Holder Types



Applications



Material Types

Ti	PMMA	PEEK	Wax	Dentures	Premill Abutment	CoCr
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Customized 90° vertical milling

High performance servo motor

24-hour batch production



comprehensive

High power and higher precision spindle

20 tool libraries

Elosdent I5A Parameter

Axis: 5 axis

A angel limit: $\pm 30^\circ$

B angel limit: $\pm 40^\circ$ for disk cube 140*150
 -50° to $+310^\circ$ for disk 98

Spindle : 2.7 kW 40,000rpm

Accuracy: 5 μm

Repeatability accuracy: 3 μm

Tool magazine: 20 tools

Machine size: 820*1050*1780 mm

Weight: 950 kg

Cast iron bed for over 4 years.

High precision tool compensation.

High assembly process

Mecahnics grinding lead screw

Great guide rail

Servo: high speed and precision

Elosdent i5

Holder Types



Applications



Material Types

Ti	PMMA	PEEK	Wax	Dentures	Premill Abutment	CoCr
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Customized 90° vertical milling

High performance servo motor

24-hour batch production

comprehensive intelligent

High power and higher precision spindle

32 tool libraries

Elosdent i5 Parameter

Axis: 5 axis

A angel limit: $\pm 35^\circ$

B angel limit: $\pm 35^\circ$ for disk cube 140*150
 $\pm 45^\circ$ for disk cylinder 98

Spindle power: 3.0 kW 40,000rpm

Accuracy: 5 μ m

Repeatability accuracy: 3 μ m

Tool magazine: 32 tools

Xyz limit: 160*320*200 mm

Machine size: 860*950*1750 mm

Weight: 1000 kg

Elosdent i5 Advantage:

Integrated casting makes the machine stable within 10 Years, 24 hours continuous works.

Continuous milling on breakpoint, automatical tool compensation

365 * 24 hours work.

32 tools magazine.

High-precision guide and servo drive.

3dquickse auto compensation system.

Unattended system, remote control, remote monitor, And remote after-service.

Customized fixture system: user can switch clamping System for disk cube 140*150, or disk cylinder 98, or 12 position reimilled. Disk cube 140*150 can milling 8 Implant bridge, or 5 removable denture, or hundreds of Abutment.

Strong knowledge of milling, strong cam support

Elosdent i5 Pro

Holder Types



Applications



Material Types

Ti	PMMA	PEEK	Wax	Dentures	Premill Abutment	CoCr
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Customized 90° vertical milling

High performance servo motor

Direct cutting abutment interface

24-hour batch production



Comprehensave, intelligent

Precision customized machine

High power and higher precision spindle

32 tool libraries

Elosdent I5 Pro Parameter

Axis: 5 axis

A angel limit: $\pm 30^\circ$

B angel limit: $\pm 40^\circ$ for disk cube 140*150
 -50° to $+310^\circ$ for disk 98

Spindle : 3.0 kW 40,000rpm

Accuracy: 4 μm

Repeatability accuracy: 2 μm

Tool magazine: 32 tools

Machine size: 860*950*1750 mm

Weight: 1000 kg

Cast iron bed for over 5 years.

High precision tool compensation.

High assembly process

Mecahnics Grinding lead screw

Great guide rail

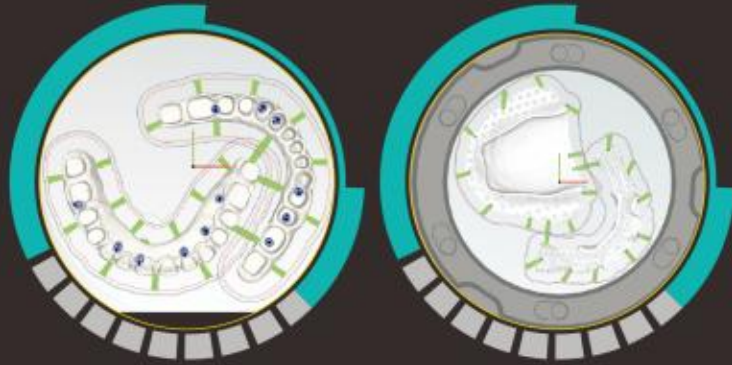
Servo: high speed and precision

Cam support: custmized cam library and template

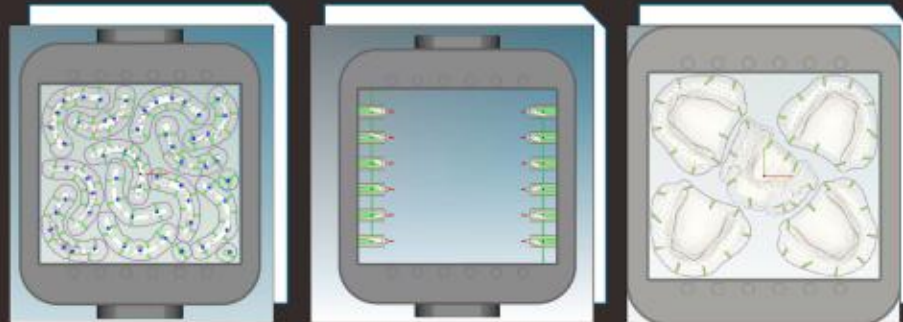
| Elosdent I5 Clamping system

Elosdent clamping system is more useful than traditional size:

98mm Cylinder fixture



Elosdent I5 Clamping system



Advantage



1. other fixture can only nest two implant bridge, I5's can milling 8.
2. other fixture only position 6 premill stocks, I5's can put 12 stocks.
3. other fixture can only nest 2 denture, I5's can nest 5 big one and 6 small one.

Elosdent I5 Product Display



Elosdent F4

Holder Types



Applications



Material Types

Ti

High Speed
High Efficiency
High Precision

10mins for one piece

Breakpoint
continuous work



Grinding lead screw
Servo system

Customized vertical
milling strategy

Milling 12 pcs ceramic
at the same time

Elosdent F4 Parameter

Axis: 4 axis

Voltage: 200-240v/50-60Hz

Spindle : 1.8 kW

Rotation : 60,000rpm

Accuracy: 6 μ m

Repeatability accuracy: 4 μ m

Tool magazine: 4 tools

Weight: 300 kg

Machine size: 660*750*1730 mm

Used for: premill abutment

Stock position: 5 or 12 to choose

Elosdent C5 Zirconia 5 Axis machine

Extraordinary Precision,
Infinite Possibilities



Precision Excellence,
Embrace the Future

Fusing Innovation with
Reliability,
Crafting Exquisite
Selections

Advancing to the Peak
of Industrial Precision



Elosdent C5 Parameter

Axis: 5 axis

A angel limit: no limit

B angel limit: +30°/-25°

Spindle : 1.8 kW ,60,000rpm

Accuracy: 7 μm

Repeatability accuracy: 5 μm

Tool magazine: 9 tools

Machine size: 500*750*745 mm

Weight: 125 kg

Cast iron bed

High precision tool compensation.

High assembly process

Mecahnics: grinding lead screw

Great guide rail

Servo: high speed and precision

Elosdent E5 ChairSide 5x machine

Dry and wet milling



Intelligent monitoring system

Supports processing
of various materials

Boosting overall production
output by 15%



Elosdent E5 Parameter

Axis: 5 axis

A angel limit: no limit

B angel limit: +30/-25

Spindle : 1.8 kw ,60,000rpm

Accuracy: 6 μm

Repeatability accuracy: 4 μm

Tool magazine: 10 tools

Machine size: 500*750*745 mm

Weight: 150 kg

Cast iron bed

High precision tool compensation.

high assembly process

Mecahnics: grinding lead screw

Great guide rail

Servo: high speed and precision

Elosdent Cold welding machine



Welding consumables

welding wire

welding cap



Power parameters

Voltage: ac 210-230 V
Power: 220W



Elosdent E4

Grinding lead screw Servo system.

Breakpoint continuous work



Milling 6 pcs ceramic at the same time

20mins for one piece

Holder Types



Applications



Material Types

Glass-Ceramics Resin ceramics

Elosdent E4 Parameter

Axis: 4 axis
Voltage: 200-240v/50-60hz
Spindle : 2.0 kW ,60,000rpm
Accuracy: 5 μm
Repeatability accuracy: 3 μm
Stock position: 6 pcs
Tool magazine: 6 tools

Weight: 200 kg
Machine size: 850*620*900 mm
Used for glass ceramic

Elosdent E4 Characteristic

- Cast iron bed with a life over 10 years.
- 24 hours continuous work.
- Breakpoint continuous work.
- Easy to use.

AI scanner series AI-3



No post-processing time

Switch true color textures with one click

Freely switch scanning workflow

Intelligently add scan

Fast scanning: efficiency increased by 50%

Software operation is simple

Industry-leading large scanning range

AI scanner series AI-6

AI-6 High performance scanner to further enhance your scanning efficiency

The pixel size is 0.05, and the number of pixels per unit area is higher than the main-stream 5MP scanner's.



High hardware configuration: dual 3 MP high frequency cameras, scanning accuracy 0.005mm

Dynamic big articulator scanning

implant thin powder scanning
Impression powder-free scanning

Comprehensive upgrade of scanning performance

1. Scan and upgrade without separation

360-degree scanning with no blind spots, high precision that can clearly identify margin lines and intelligently add scan the narrow gaps which is hard to scan.



2. Scanning expert of removable

Real model color acquisition, fast scanning without post-processing, the data size is only 2MB and it runs very smoothly in CAD software.



3. Implant scanning is easier

little powder spray - the scanning accuracy is more accurate, support dynamic articulator scanning - support virtual articulator occlusion transfer, and the scanning accuracy can reach 0.007mm (S012836).



Scanning results are more reliable

No or very little powder spray

There is no need for powder spray on the impression, no need for powder spray on the artificial gingiva, and a small amount of powder spray on the metal.



Post-processing is faster

High-precision scanning does not affect scanning efficiency, no matter how complex the model is, almost no post-processing is required, so that scanning time is reduced.



High precision designed for implant

The accuracy of 0.005mm ensures that the upper implant crown/bridge repair is not loosen or tighten and smoother to wear. Ai6 for bridge repair can reduce the rework rate of bridges.



Sintering Furnace CF-1000

Double-Layer Sintering Box

Environmental Temperature· Voltage· Current Monitoring

LED Information Display



Double-layer Sintering Tray

Silicon Carbide Rod Heating Technology

Built-in memory for 18 programs, each program can have up to 5-stage heating curves

Sintering Furnace CF-1000 Parameter

Rated voltage/frequency: 220V±10%

Rated frequency: 50Hz

Rated power: 2500W

Maximum operating temperature: 1550°C

IP rating: IP 21

Size: 420*465*800 (mm)

Fuse1: 2~380V/16A

Fuse2: ~250V/0.5A

Fuse3: ~250V/1.0A

Quick fuse: ~500V/32A

Net weight: 44kg

Sintering Furnace Ts7

Easy operation, attractive appearance

High-purity alumina furnace chamber, impurity-free, producing crystal-clear dental crowns

Smart PID control for even temperature and consistent sintering



Equipped with power feedback for circuit protection

High-grade heating elements ensure stable and reliable high-temperature performance.

Allow manual adjustment of process parameters and temperature curves

Sintering Furnace TS7 Parameter

Furnace mode: Lift mode

Display mode: Touch-screen

Maximum temperature: 1700°C

Operating temperature: ≤1600°C

Ramp-up rate: Recommendation: 20°C/min Max: 30°C/min

Rapid sintering: Complete the entire sintering process in 4 hours

Heating zone: Single-zone

Zone diameter: 120mm*120mm

Temperature control accuracy: ±1°C

Furnace chamber shape: cylindrical

Sealing method: disc tray

Temperature curve: 30 segments of "time-temperature curve" can be freely set

Sintering capacity: ≤40 units (two-tier crucibles)

Pre-set curves: 20 pre-stored firing curves

Over-temperature alarm: Yes

Over-current protection: Yes

Machine voltage: AC: 220V 50Hz

Total power: 2.5kW

Disconnection prompt: Yes

Temperature sensor: Type B thermocouple

Heating element: Silicon molybdenum rod

Furnace material: Aluminum oxide fiber

Size: 400×530×850 (mm)

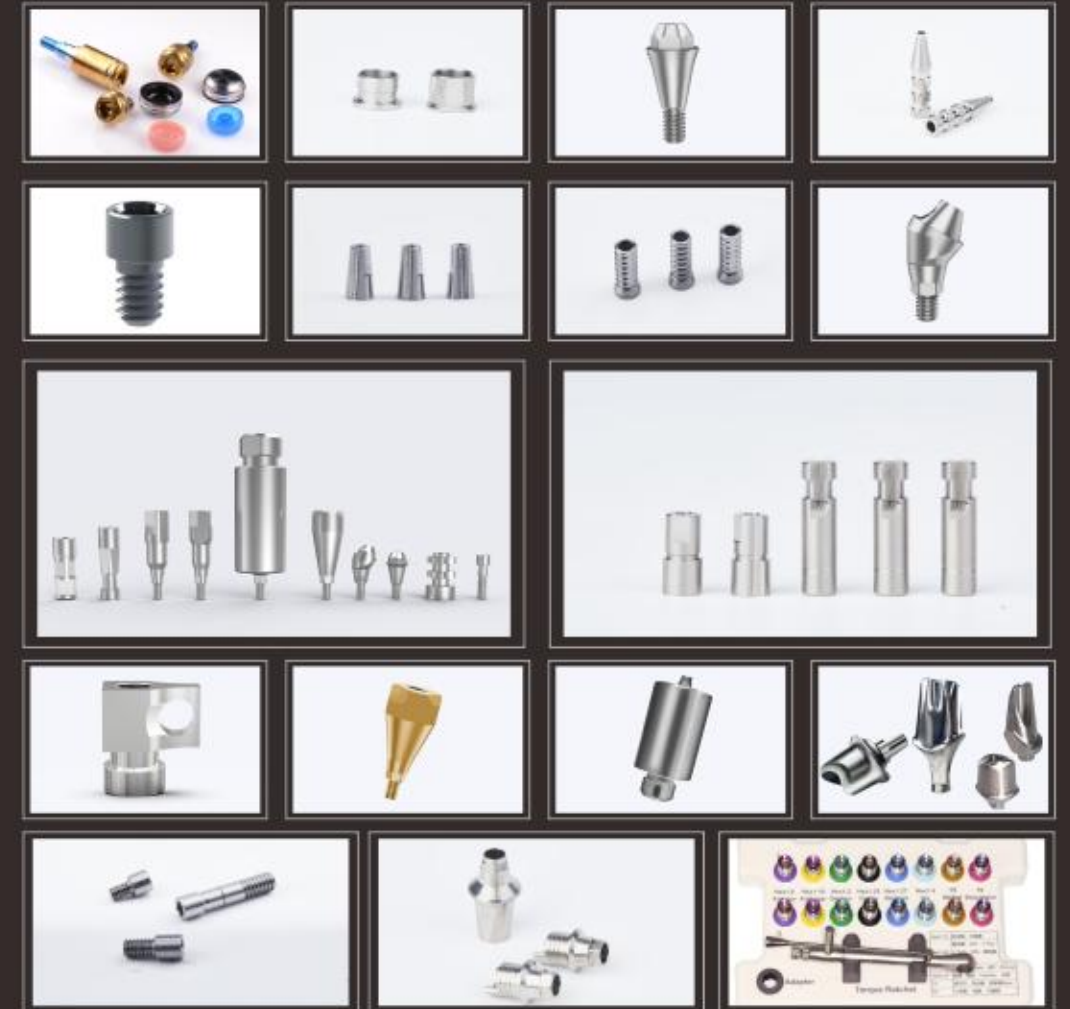
Net Weight: 65kg

Elosdent : Functions of All Styles



Equipment name	T5	T5 Pro	i5A	i5	i5 Pro
Implant Bridge	√	√	√	√	√
Accuracy	6μm	5μm	5μm	5μm	4μm
Abutment	×	×	√	√	√
Premill	3 Position	3 Position	12 Positions	12 Positions	12 Positions
Locator	√	√	√	√	√
thread	×	√	√	√	√
Milling Speed	100%	100%	110%	110%	110%
Spindle Power	2.5kW	2.7kW	2.7kW	3.0kW	3.0kW
Remote Control	None	None	Yes	Yes	Yes
Calibration	Manual	Manual	Remote	Remote	Auto
Clamping system	Disk	Disk+Premill	Disk+Cube+Premill	Disk+Cube+Premill	Disk/Half Disk Cube/Half Cube Premill Customized Fisture
Applicable object	Regular Metal Milling	Regular Metal Milling	Regular and part of Complex Metal Milling	Regular and part of Complex Metal Milling	Most of the Metal Milling
Characteristics	economical minority produce	economical intelligent	comprehensive Mass Precision	comprehensive intelligent Mass Precision	comprehensive, intelligent Mass Precision customized

Dental digital implant accessories



Different dental implant system accessories can be customized