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埃洛斯医疗(深圳)有限公司
Elosdent Medical (Shenzhen) Co., Ltd

About us

关于我们

· Exploratin · Efficiency · Pragmatism · Symbiosis · Warmth

Elosdent Medical (Shenzhen) Co., Ltd. is a joint venture specializing in high-precision CNC turning and milling systems for medical applications. Our equipment is widely used in orthopedic and dental fields for the production of components such as bone screws, implant abutments, and precision fasteners.

Founded in 2015, our Dental Division focuses on the research and development of CAD/CAM systems for digital denture processing. Our team combines deep experience in machine automation with extensive knowledge of dental laboratory CAD/CAM workflows.

We have established our own milling center and obtained a Class III medical qualification, which can undertake the processing of various customized products such as Implant bridge&bar and etc.



Company Milestones

发展历程



Elosdent i5 金属五轴机床



- Optional 90° Vertical Milling
- High-performance servo motor
- 24-hour batch production
- Versatile & intelligent model
- High-power, high-precision spindle
- 32-Tool Automatic Tool Changer

Elosdent i5 Pro 金属五轴机床



- 90° vertical machining (optional)
- High-performance servo motor
- Direct Milling of Abutment Interfaces
- 24-hour batch production capability
- Versatile & intelligent model
- Precision-customizable configuration
- High-power, high-precision spindle
- 32-tool automatic changer (ATC)

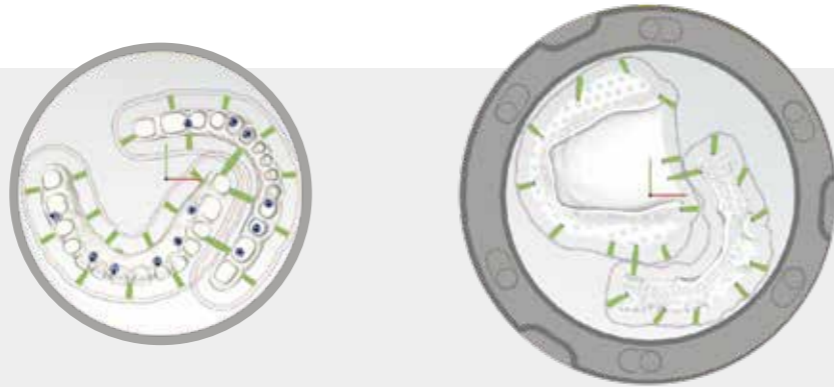
Elosdent i5 Specifications	
Number of axes	5-axis simultaneous interpolation
A-Axis Rotation Range	±35°
B-Axis Rotation Range	±35° (140×150mm square plate)
	±45° (Ø98mm round plate)
Positioning accuracy	5µm
Repeat positioning accuracy	3µm
Machine weight	1,200kg
Machine dimensions	940×1080×1910mm
Tool magazine capacity	32 tools
Spindle power	3.0 kW / 40,000rpm
Travel range (XYZ)	160×320×200mm
Machining time:	☆Full crown: 18-23 min , ☆Titanium rod: 15min , ☆Bar attachment: 3-3.5hrs

Elosdent i5 Pro Specifications	
Number of Axes	5-axis simultaneous machining
A-axis machining angle	±30 degrees
B-axis machining angle	±40 degrees (material: 140*150 square plate)
	-50 to +310 degrees (semi-fixtured machining possible)
Positioning accuracy	4 µm
Repeat positioning accuracy	2 µm
Machine weight	1200 kg
Machine dimensions	940×1080×1910 mm
Tool magazine capacity	32 PCS
Spindle power	3.0 kW 40,000 rpm (Dynamic anomaly detection - custom)
Cutting time:	☆Full crown: 18-23 min, ☆ Titanium rod: 15 min, ☆Bridge framework: 3-4.5 hours

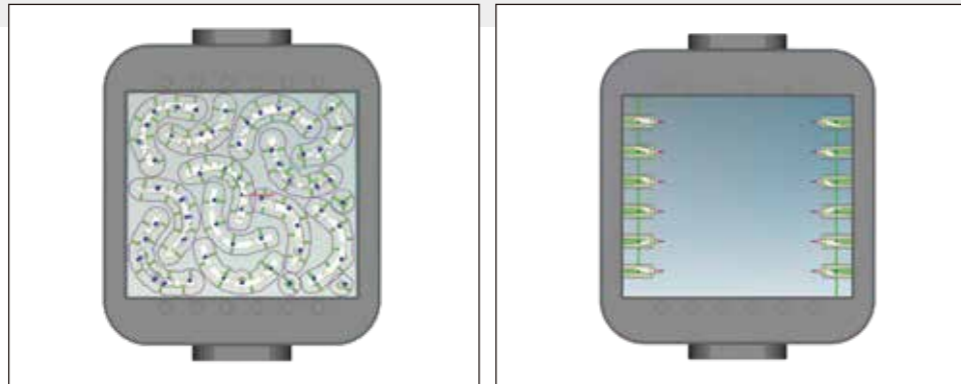
Elosdent i5 / i5 Pro Clamping System

The Elosdent clamping system is more efficient than traditional sizes **400%**

98mm Cylinder Fixture



Elosdent i5 Clamping System



Material Types

Ti-alloys | PMMA | PEEK | WAX | Premill Abutment | Glass-Ceramic

Elosdent i5 / i5 Pro Product Display



Elosdent C5 氧化锆五轴机床



Material Types

Zirconia | PMMA | PEEK | WAX | resin ceramics

- Innovation and Reliability
- Exquisite and compact
- Chairside processing acceptable
- To the Pinnacle of Industrial-Grade Precision



Elosdent C5 Specifications

Number of Axes	5-axis simultaneous machining	Spindle Speed	60,000 rpm
A-axis Rotation Range	360° (with 90° machining capability)	Positioning Accuracy	6 μm
B-axis Machining Angle	±30°	Repeatability	5 μm
Spindle Power	0.5/1.0/2.2/2.5kW (configurable)	Tool Magazine Capacity	10 tools

Machining Time: ☆ Zirconia: 10 min ☆ Wax: 10 min ☆ PMMA: 10 min

Elosdent E5

- Smart Tool Management with predictive maintenance and smart alerts help extend tool life.
- Dual Wet & Dry Modes Adapts to various milling requirements
- Proprietary Customizable Smart OS Enhances production efficiency.
- Optimized Algorithm for 15% Productivity Gain



Product Showcase



Fixture



Elosdent E5 Specifications

Number of Axes	5-axis simultaneous control	Spindle Speed	60,000 rpm
A-axis Rotation Range	360° (90° machining capability)	Positioning Accuracy	6 μm
B-axis Machining Angle	±25°	Repeat Positioning Accuracy	4 μm
Spindle Power	1.8/2.5kW (optional)	Tool Magazine Capacity	10 PCS

Machining Time: ☆ Titanium rods: 20 min ☆ Bridge frames: 3.5-5 hrs ☆ Glass ceramics: 15 min

Elosdent E52 五轴机床

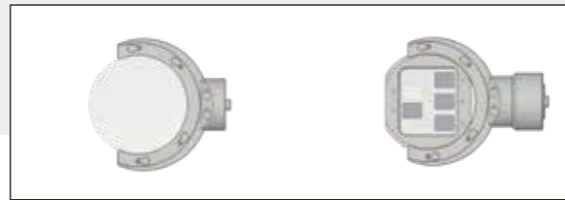
- Dual wet and dry modes to meet various milling needs
- Industrial-grade integrated ductile cast iron base for enhanced stability
- Smart Tool Management and Wear Prediction Extends tool life
- Professional-grade bridge and implant support structure
- New algorithm improves overall production capacity by 30%
- Custom-developed intelligent operating system boosts production efficiency



Product Showcase



Fixture



Elosdent E52 Specifications			
Number of Axes	5-axis simultaneous control	Positioning Accuracy	5 μm
A-axis Rotation Range	360° (with 90° machining capability)	Repeat Positioning	3 μm
B-axis Machining Angle	±35°	Accuracy	550kg (configurable)
Spindle Power	1.8/2.2/2.5kW (configurable)	Machine Weight	590×680×1800 mm
Spindle Speed	60,000 rpm		
Machining Time:	☆ Titanium rods: 20 min, ☆ Bar attachments: 3.5-4 hrs ☆ Glass ceramics: 15 min		

Elosdent F4 椅旁切削设备

- High Speed! High Efficiency! High Precision
- 10mins for one piece
- Breakpoint continuous work
- Grinding lead screw Servo system
- Customized vertical milling strategy
- Milling 10 titanium columns and 8 glass ceramics via the same fixtures

Product Showcase



Fixture



Material Types

Glass ceramics | Titanium rods

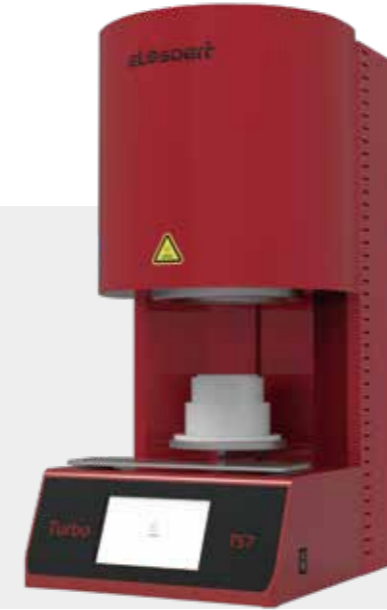
Elosdent F4 设备参数			
Axes	4	Tool Magazine Capacity	20 PCS
Voltage	200-240V/50-60Hz	Weight	300 kg (optional)
Spindle Power	1.8/2.2/2.5kW (optional)	Machine Size	510 × 680 × 1700 mm
Max Speed	60,000 rpm	Application	Pre-Milled Abutments
Accuracy	6 μm	Tool Magazine	10/8 tools
Repeatability Accuracy	4 μm	Milling time	Premill abutment: 10-15mins

Sintering furnace CF-1000



- Double-layer sintering box
- Ambient temperature, voltage, and current monitoring
- LCD information display, real-time monitoring
- Double-layer sintering tray
- Silicon carbide heating element technology
- Built-in 18 program memory
Each program supports up to 5-stage heating curves

Sintering Furnace TS7



- Easy to operate with a sleek and modern design
- High purity alumina chamber prevents contamination and ensures excellent crown translucency
- Intelligent PID precision control ensures even heat distribution and consistent sintering results
- Equipped with power feedback system to prevent circuit failure due to current loss
- Uses ultra-high temperature heating elements for ample temperature capacity and reliable high-temperature performance
- Allows manual addition, deletion, and modification of process parameters and temperature curves

Sintering furnace CF-1000 Parameters

Rated Voltage/Frequency	220V±10%	Fuse 1	2~380V/16A
Rated Frequency	50Hz	Fuse 2	~250V/0.5A
Rated Power	2500W	Fuse 3	~250V/1.0A
Maximum Working Temperature	1550°C	Fast Fuse	~500V/32A
Protection Level	IP21	Net Weight	44kg
Equipment Dimensions	420×465×800mm		

Sintering Furnace TS7 Parameters

Furnace Mode	Lift-type	Temperature Curve	30-segment programmable "Time-Temperature Curve"
Display Mode	Touchscreen	Pre-set Curves	20 stored firing curves
Maximum Temperature	1700°C	Over-temperature Alarm	Yes
Working Temperature	≤1600°C	Over-current Protection	Yes
Heating Rate	Recommended: 20°C/Min, Max: 30°C/Min	Input Voltage	220V, 50Hz
Rapid Sintering	Completes full process in 4 hours	Total Power	2.5KW
Heating Zone	Single zone	Thermocouple Failure Alert	Yes
Zone Dimensions	120mm×120mm	Temperature Sensor	Type B thermocouple
Temperature Control Accuracy	±1°C	Heating Elements	Molybdenum disilicide rods
Furnace Shape	Cylindrical	Furnace Material	Alumina fiber
Sealing Method	Tray-type	Dimensions	400×530×850mm
Firing Capacity	≤40 units (double-layer crucibles)	Net Weight	65kg

AI Scanner Series AI-3



- No post-processing time
- Switch true color textures with one click
- Seamlessly switch scanning workflows
- Intelligently adds scanning
- Fast scanning: efficiency increased by 50% Simple software operation
- Industry-leading large scanning range

Comprehensive Upgrade of Scanning Performance

No-separation scanning upgrade

360° dead-angle-free scanning, high precision for clear margin line identification, intelligent gap rescanning



Framework Scanning Expert

True model color capture, rapid scanning with no post-processing, 6MB lightweight data runs smoothly in CAD software



Implant Scanning Made Easier

Minimal powder spray - enhanced scan accuracy certainty
 Supports dynamic articulator scanning - virtual articulator relationship transfer
 Scanning accuracy up to 0.007mm (ISO 12836)



AI Scanner Series AI-6



- The pixel size is 0.05, and the number of pixels per unit area is higher than mainstream 5MP scanners
- Dynamic Big Articulator Scanning
- High-Performance Hardware: Dual 3MP High-Frequency Cameras, Scanning Accuracy of 0.005 mm Dynamic Big Articulator Scanning
- Thin Powder Implant Scanning Powder-Free Impression Scanning

Scanning Results Are More Reliable

No or Very Little Powder Spray

No need for powder spray on impressions. No powder required on artificial gingiva. Minimal powder usage on metal surfaces.



Faster Post-Processing

High-precision scanning maintains efficiency, regardless of model complexity. Almost no post-processing is required, reducing overall scanning time.

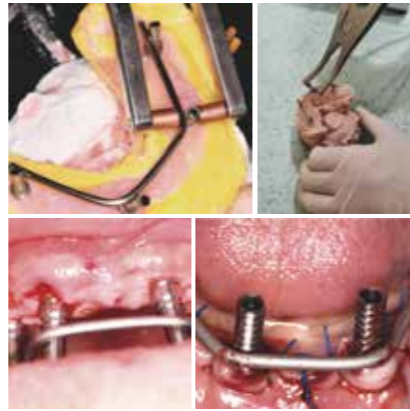
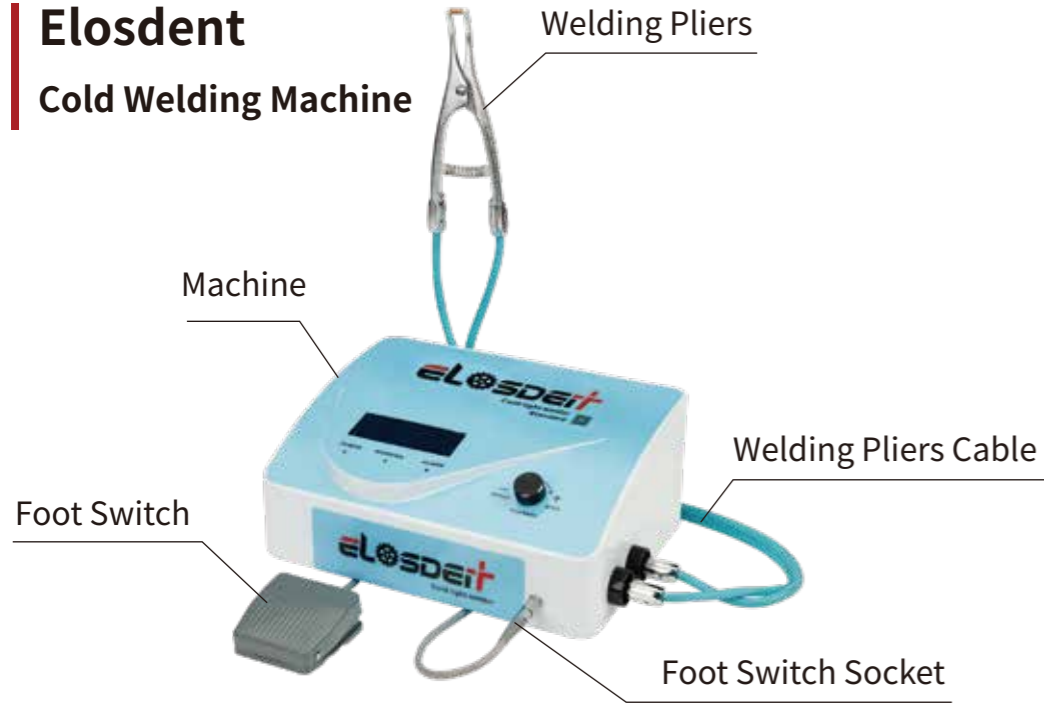


High Precision for Implants

Scanning accuracy of 0.005 mm ensures tight and smooth implant crown and bridge fitting. AI-6 minimizes rework rates for bridges and implants.



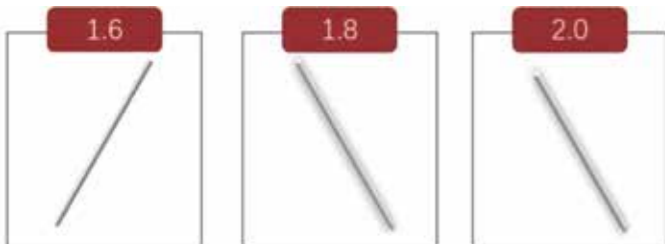
Elosdent Cold Welding Machine



Power Specifications

Voltage	AC 210-230 V
Rated Power	220W

Welding Consumables



Welding Wire



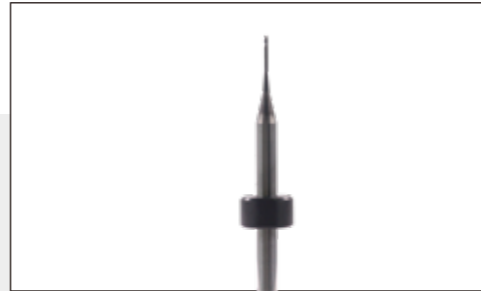
Welding Cap

Dental Digital Implant Accessories

Various dental implant system accessories can be customized

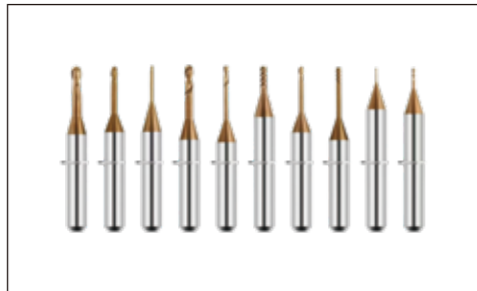
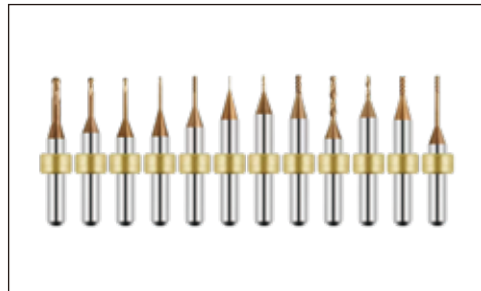


Elosdent Metal Burs



Elosdent Zirconia Burs

Customizable Machine Burs for Various Brands



Elosdent Materials



Aluminum Round Disc



Titanium Round Disc



Titanium Square Block



Resin Round Disc



Resin Square Block



PEEK Round Disc

Elosdent Products



Elosdent Products

