Aidite AMD-500

AMD-500

Five-axis / Large-angle processing / Material saving





Fax: 0086-335-8587198 Email: info@aidite.com

NMPA ISO13485 (€0197 FDAK111291



AMD-500 Digital Dental Milling Machine

Aidite AMD-500 dental millinging machine is a dry-milling equipment with five-axis, mainly used for CAD / CAM processing of dental materials such as zirconia and PMMA. AMD-500 has stable performance and large processing angle, enable to do 90° vertical processing of the buccal surface of the restoration. At the same time, AMD-500 is equipped with 1/2 open fixture and plastic secondary fixture, effectively improving the material layout utilization. The large high-definition touch screen is easy to operate and brings you the ideal dental material processing solution.



Talabata	-1 C:f:+:
Technical Specifications	
Equipment size	560*670*770mm
Axis Motor Technology	Digital AC Servo Motor
Ball Screw Precision	8µm
Spindle Speed	60000RPM
Spindle Power	500W
Number of Axis	5 Axis
Max. Tilt Angle	B axis: + 30 °, -90 °; A axis: ± 360 °
Max. Tools Shaft Diameter	4mm
ATC Capacity	6
Dry Milling	•
Wet Milling	0
Milling Material	Zirconia/ PMMA/ Wax/ Composite
Voltage / Frequency	220V 50/60Hz ,110V 50/60Hz (OPTION)
Power Consumptions	1.6KW
Air Requirement (Lt / Min.)	60L/min
Compressed Air Pressure (Bar)	6Bar
CAMSoftware	Open System

*Milling Time (12mm Zr Blank / Single Anatomic Crown)16 Min

Processing Show



Onlay processing







90°buccal processing



Veneer processing



Display of buccal processing

Veneer processing



- 1.Touch control board
- 2.User friendly HMI
- 3.Remote control
- 4. Multi languages supported

Aidite[®]



1.Open CAM system integrated to AMD-500

2.Multi machine controlled with a single CAM



- 1. High speed spindle at 60000 rpm with air cooling
- 2. Ability to use milling cutter from
- 0.2mm to 4 mm diameter



CNC System

- 1.Embedded five axis simultaneous CNC system with advanced tool pathalgorithm and control thanks to 20000 NC lines pre-read
- 2. Equipped with servo motor for more acceurate operation
- 3.Fast loading of large NC program file



Large Rotation Angle

1. Large rotation angles: B axis: + 30°, -90°; A axis: ± 360°, achieving 90 degree vertical buccal side milling function.



New-type fixture

Quipped with 1/2 open fixture and plastic secondary fixture, effectively improving the material layout utilization.



Tool Magazine

- 1. Automatic tool change (ATC)
- 2. Tool length and breakage detection
- 3. ATC tool number: 6 tools
- 4. Tool detection sensor with 2µm sensitivity



- 1.Integral casting structure
- 2. High precision ball screw and linear guide rails
- 3. High precision harmonic reducer