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Zirconia material processing solution

Aidite®
AMD-500DC

AMD-500DC

12-fold disc changer | C-type fixture | Multi-task intelligent management



Aidite®
en.aidite.com

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AMD-500DC Dental Milling Machine

AIDITE AMD-500DC dry machine is equipped with five-axis, mainly used for CAD/CAM digital milling of zirconia, resin and other dental materials. It's quite stable and equipped with a fully automatic 12-fold disc changer. At the same time, the equipment can be matched with the C-type open fixture, and the material utilization rate can be increased by 30%, raising the CAD/CAM processing of denture restoration materials to a new level.



Technical Specifications	
Equipment size	930*750*1760
Weight	460Kg
Loadable workpiece shape	X Axis: Maximum 110mm
	Y Axis: Maximum 150mm
	Z Axis: Maximum 100mm
Axis Motor Technology	Digital AC Servo Motor
Spindle Speed	60000RPM
Spindle Power	1500W
Number of Axis	5 Axis
Rotary axis travel angle	A axis: -90°— 28°; B axis: ± 360 °
Max. Tools Shaft Diameter	4mm
Number of burs housed	10
Number of adapters housed	12
Dry Milling	●
Wet Milling	○
Millable material	Zirconia/ PMMA/ Wax/ Composite
Voltage / Frequency	220V 50/60Hz or 110V 50/60Hz
Power Consumptions	3.5KW
Air Requirement (Lt / Min.)	60L/min
Compressed Air Pressure (Bar)	6Bar
CAM Software	Open System
Accuracy of positioning and repeat positioning	0.01/0.005mm

Detail display







Aidite / AMD-500DC Dental Milling Machine

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Open CAM System

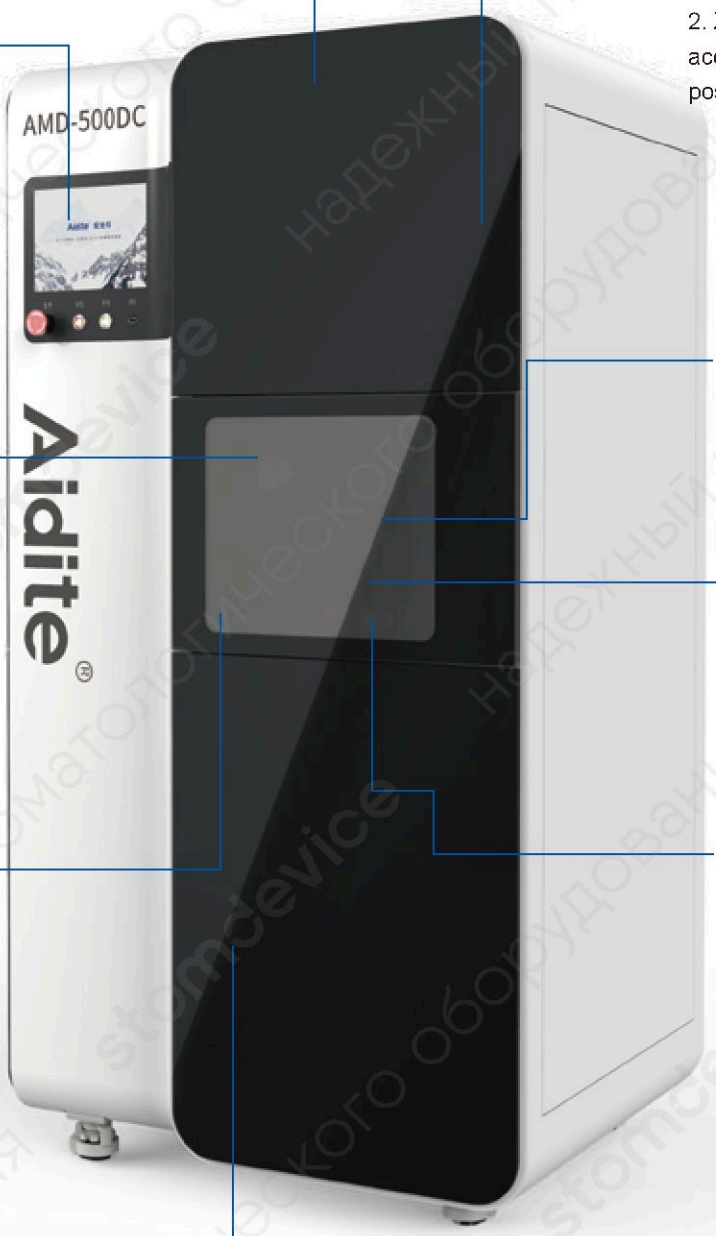
1.Open CAM system integrated to AMD-500DC
2.Multi machine controlled with a single CAM

Control Board

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

CNC System

1. Full servo closed-loop control.
2. Zero clearance rotary structure, high accuracy of positioning and repeat positioning.



Large Rotation Angle

Large rotation angles:
A axis: -90°~28°; B axis: ± 360 °.

Spindle

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

Automatic material change

12-fold disc changer housed, achieving continuous processing for 24 hours.

New upgrade of C-type fixture

New C-type fixture to improve the utilization of material layout



Tool Magazine

1. Automatic tool change (ATC)
2. Tool length and breakage detection
3. ATC tool number: 10 tools.

Machine Structure

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

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