From people dedicated to helping you find the path to productivity.

The Lava™ CNC 500 Milling Machine is just one example of the forward thinking 3M ESPE is applying to all aspects of CAD/CAM dentistry. We believe that digitization will be a fundamental part of the future of dentistry, and we are committed to helping all of our industry partners put themselves in the best position to succeed, today and down the road.

Picture your operation with a milling machine that can be programmed to **run for 76 hours straight**.

A machine that can deliver **3- or 5-axis smart milling**. And a machine that is as **low on maintenance costs** as it is high on productivity.

You have pictured the Lava™ CNC 500 Milling Machine. And, from any perspective, it is a picture of **advanced technology** that will help you ascend to a higher level of automation and a wider range of indications.

It's **a reliable step up** for your business.

Nesting options provide optimal use of frame space.

The Lava™ CNC 500 Milling Machine gives you the option to optimize your milling block usage through a software-supported restoration placement functionality. Using this feature, you can load your machine on Friday and come back on Monday to find all your cases done. It's a way of getting even more value from your materials.

Technical Data

Input	Supply voltage: 200 – 240 V AC Nominal supply frequency: 50/60 Hz Nominal current: 4 A Nominal output: 0,92 KW – 1,1 KW Power fuse (external): 10 A (delay-action) Air pressure: 6,5 bar Air volume: 250 l/min Air purity: Class 344 DIN ISO 8573-1
Dimensions and Weight	Width: 1090 mm Height: 1960 mm Depth: 840 mm Working height: 1063 mm Weight: ca. 620 kg
Ambient Installation Conditions	Temperature range: 18 – 25°C Relative humidity: max. 90%, non-condensing
Protection Class	Protection class: Machine IP 40
Sustained Sound Level at Workstation	Sustained sound level: 65 dB (A)

Materials Ordering Information

Zirconia

Lava™ Zirconia Frame materials provide flexibility and multiple size options for the production of Lava zirconia frameworks and copings.

Item Number	Frame Type	
68583	Lava Zirconia Frame 20	Produces single crown copings
68581	Lava Zirconia Frame 40	For nesting up to an average of three units
68582	Lava Zirconia Frame 60	For nesting up to an average of five units
68591	Lava Zirconia Frame Multi	For nesting up to an average of ten units
68593	Lava Zirconia Frame 20 XL*	For large implant abutments and large single crowns
68592	Lava Zirconia Frame Multi XL*	For large long span bridges and curved bridges

Wax

The Lava™ Wax Block produces wax patterns to cast and invest for porcelain fused to metal (PFM) restorations.

Item Number	Frame Type	
68588	Lava Wax Block 60*	For nesting up to an average of five units

Glass Ceramic

The Lava™ Digital Veneering System containes glass ceramic materials to mill tzhe veneering for a Lava™ Zirconia Crown. This system is scheduled for release in 2009.

* These materials have not been released but are coming soon.

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You + 3M ESPE = A formula for success

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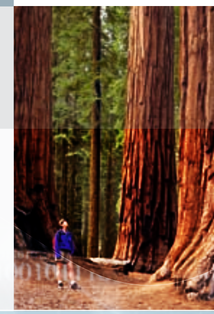
Precision Solutions

Lava™

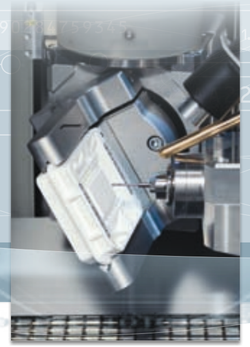
CNC 500 Milling Machine



Dependable Productivity

3M ESPE

1 3-axis speed and precision. 5-axis milling when you need it.



You can use this machine's smart, 5-axis milling for full contouring, undercuts and abutments, as well as the Lava™ Digital Veneering System*. And without missing a beat you can convert to 3-axis milling at any time. In one easy step, you'll become a more versatile source of CAD/CAM milling.

2 A workpiece magazine that's not a lot of work.

The CNC 500 workpiece magazine allows you to load and unload a variety of frame types without interrupting the milling process—up to 21 frames with as many as 10 units per frame. The robust, reliable design eliminates the need for spring retainers. And with the easy-view window and the adjacent touchscreen control center, you won't ever have to wonder where you are in a particular milling cycle.

3 A worktool magazine with a brain.

Because the CNC 500 machine tool changer holds 31 tools up to 50 mm in length, you can easily change your tool portfolio to fit a wide variety of materials and indications. And because the tool changer has a sensor that detects incorrect placement of tools, you literally can't go wrong. Plan on long, automatic run times and very little downtime.

4 Operator-friendly touchscreen.

Look, no keyboard! The conveniently located touchscreen control center on the CNC 500 machine provides easy access to the information your people need, from bur status to milling time. There's no need to hunt and peck on a keyboard. Just touch the icons on the screen and manage your milling process.

5 Quiet, integrated suction system for dust collection.

Both the milling hardware and the integrated suction system in the CNC 500 machine have been designed to reduce dust and avoid contamination. The highly efficient suction system can be connected to your central dust abatement system at no extra cost, and with no extra devices required. In addition, the system is quieter and consumes less energy than our previous milling machine.

6 Non-stop operation, even with multiple materials.

In addition to milling zirconia frames, the Lava™ CNC 500 Milling Machine will work with a wax block** and other materials without requiring any stopping for retooling. This increase in versatility can produce an increase in productivity for your business.

* The Lava™ Digital Veneering System is scheduled for release in 2009.

** The Lava™ Wax Block and the Lava™ Digital Veneering System are scheduled for release in 2009.