versamill

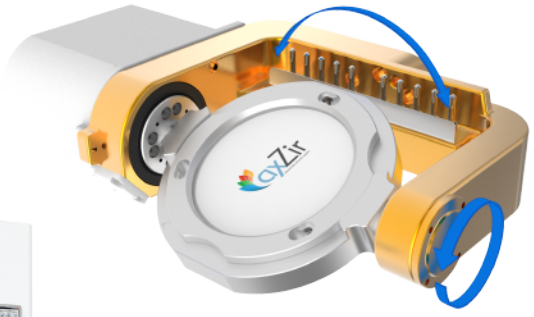
PRECISION DENTAL MACHINING CENTERS

versamill 5X400

small-format industrial-quality machines.

The flagship of our Versamill compact-machine lineup is our Versamill 5X400 precision dental machining center. The 5X400 is designed to perform reliably with high precision for the long term. It can process any dental material from zirconia and PMMA to delicate glass ceramics– and even titanium.

With the versamill 5X400 you get a complete, industrial-quality manufacturing solution used by dental laboratories and milling centers around the world that is specifically designed to meet the demanding support requirements of dental laboratores & milling centers.



SPEED WITHOUT SACRIFICE

The strength and rigidity of the Versamill 5X400 coupled with the undercut machining capability of full 5-Axis control provides perfect fits, great anatomical detail and the best possible restorative margins with faster cycle times and greater tool life.

- Single-unit zirconia crowns in less than 14 minutes.
- Single-unit glass-ceramic crowns in as little as 15 minutes.
- 6-implant zirconia implant bridges in less than 105 minutes.

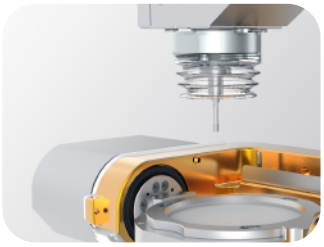
RIGID CONSTRUCTION

- Cast and heavy fabricated aluminum-plate frame.
- Zero-stack tolerance, 5-axis trunnion.
- Liner guides & ballscrews with preloaded bearings.
- Closed loop system with micro-stepper technology and position encoders.

INDICATIONS

- Inlays, onlays, copings, crowns, veneers, splints & guides.
- Removable & fixed bridges, models, abutments* & zirconia bars (with optional modules).
- Process PMMA, zirconia, PEEK composites glass-ceramic, resins, titanium and more.
- Block sizes up to 40mm.

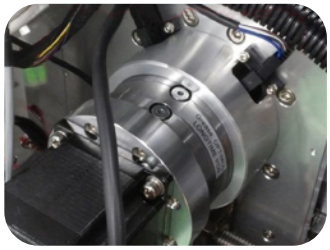
* Not recommended for continuous-duty machining of titanium



Powerful Spindle and Coolant Delivery.

Class-leading .5kW spindle with coolant delivery system that assures complete saturation of the machining area.

Heavy-gage aluminum fabricated frame provides the rigidity required to absorb vibration and dissipate heat.



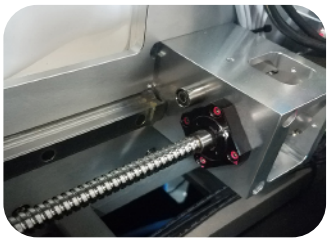
5-axis operation with quick-change universal fixture.

Rotary axis trunnion driven by high-torque reduction gears with fully supported zero stack tolerance quick-change part holding fixture.

10-station ATC houses sturdy, flex-resisting 4mm diameter cutting tools.

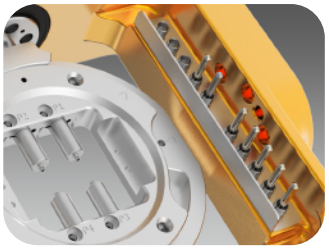
The spacious work area of the Versamill makes for easy operation and part handling.

Use of precision ball screws with anti-backlash ball nuts along with linear guides and closed-loop servo drives assures superior dynamic motion and positional accuracy.



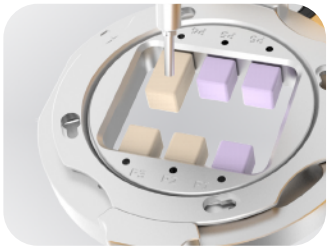
Quick-change 4-unit pre-form abutment cartridge.

Facilitates light-duty production of custom implant abutments from titanium pre-form blanks.



Quick-change 6-unit CAD-block cartridge.

Facilitates high production of lithium disilicate, Lava Ultimate and other pre-mounted dental materials.



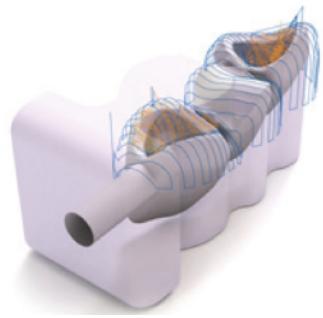
Heavy-duty Machine stand

Provides stability and storage while housing the cooling liquid filtration and delivery system.

CAM SOFTWARE: PROVEN & FULL-FEATURED

The versamill 5X400 is powered by hyperDENT CAM software from FOLLOW-ME! Technology Group.

hyperDENT incorporates efficient proven milling cycles from the industrial segment to provide maximum process stability and indication quality, including patent-protected milling strategies used for complex materials ensuring perfect surface quality while maximizing tool life.



hyperDENT COMPACT

OPTIONAL MODULES

Full Denture, Template Generator

As with our Versamill machine technology, we leverage our 40 years of digital design and manufacturing experience - spanning all market segments including the dental industry - to provide additional software enhancements over and above a vendors' standard deliverable product. These unique enhancements, which are not available from any other supplier, provide additional functionality, while assuring unrivaled reliability and increased productivity.

Versamill 5X400 Specifications

Number of axes:		5 simultaneous
Travel (x, y, z axis):	(mm)	145 x 110 x 85
A Rotational axis:	(degrees)	360 °
B Rotational axis:	(degrees)	±35 °
Drive Mechanism:		Ballscrew
Way System:		Linear Guide
Repeatability:	(µm)	±5.0
Spindle Power:	(watts)	AC 0.5kW max
Spindle Speed:	(rpm)	6,000 - 80,000
ATC number of tools:	4.0mm Ø	10
Axis Drive System	Closed-Loop	Microstepper w/Encoder
Blank disc diameter:	(mm)	98 Ø
Machine size (W x H x L):	(mm)	545 x 590 x 680
Table size (W x H x L):	(mm)	545 x 590 x 950
Weight:	(Kg)	100Kg
Input Power	(VAC/50-60Hz)	100 - 240 Single Phase

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