



ax 400HT

The Versamill AX400HT is a compact 5-axis dental machining center designed for the wet or dry precision machining of copings, crowns, bridges, dentures, titanium custom abutments, models and more.

Couple Axsys Advantage exclusive enhancements like higher-torque spindle, and high-speed probing with standard Versamill features like heavy-duty aluminum-alloy frame, large-diameter ballscrews, closed-loop drive system, linear guideways, heavy-duty gear reducers, and more enable you to quickly manufacture restorations with perfect fits and virtually no post-processing.

Materials

Pre-milled Ti Blank	○ (2-each)
CoCr & NiCr Disc	X
Ti Disc	X
Lithium Disilicate	○
Nanocomposite	○
Zirconia	○
PMMA	○
PEEK	○
Pekkton	○
Wax	○

○ High Compatibility / X Not Compatible /
 ○ Compatible (not intended for continuous production)

High-Efficiency Machining Templates

Based on our extensive know-how accumulated over hundreds of man years of all aspects of digital manufacturing, we provide optimal, high-speed machining templates for all indications. This is Axsys' unique value that cannot be provided anywhere else.



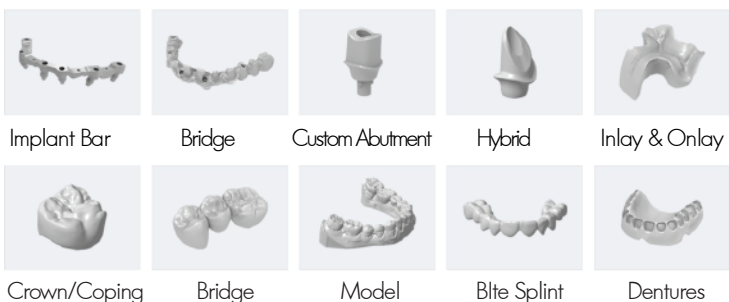
User-Friendly Operating Environment

With Auto Calibration, you can maintain optimal machine performance anytime, anywhere.

User interface design with enhanced ease of use makes operation of equipment easy and simple.

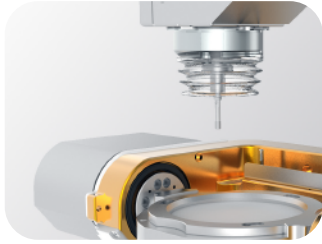


Indications



Features

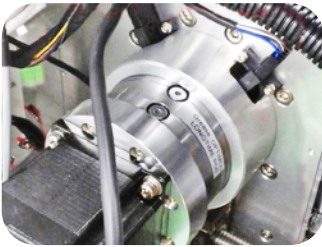
- 5-Axis simultaneous operation
- Rigid, vibration dampening construction
- Precision guides, linear ways and ball screws
- Low maintenance and high reliability
- 4mm shaft tooling
- Tool measurement probe with breakage detection
- Wet or dry milling
- High Precision with $\pm 1 \mu\text{m}$ Resolution



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.



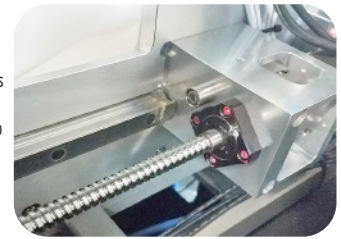
5-axis operation with quick-change universal fixture.
Rotary axis trunnion driven by high-torque reduction gears with fully supported zero stack tolerance quick-change part holding fixture.



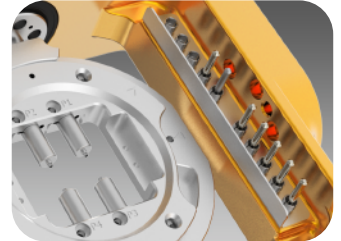
10-station ATC houses sturdy, flex-resisting 4mm diameter cutting tools.
The spacious work area of the Versamill makes for easy operation and part handling.



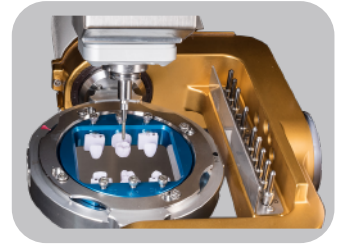
Use of precision ball screws with anti-backlash ball nuts along with linear guides and closed-loop servo drives assures superior dynamic motion and positional accuracy.



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 light-duty production of lithium disilicate, Lava Ultimate and other pre-mounted dental material.



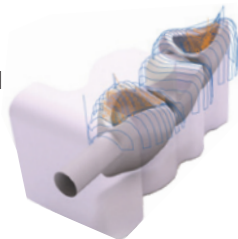
Heavy-duty Machine stand provides stability and storage while housing the cooling liquid filtration and delivery system.



CAM SOFTWARE: PROVEN & FULL-FEATURED

The Versamill AX400HT is powered by your choice of GO2cam or hyperDENT CAM software from FOLLOW-ME! Technology Group.

These software products incorporate efficient, proven milling cycles to provide maximum process stability and indication quality. Includes patent-protected milling strategies used for complex materials that, coupled with our expert machining templates, ensure perfect surface quality while minimizing cycle time and maximizing tool life.



hyperDENT **GO2cam**

OPTIONAL MODULES

Full Denture, Hybrid, Implant, Template Generator

Multi-Import & Nesting, Implant Bar/Bridge, Expert, Expanded Import

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 AX400HT 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