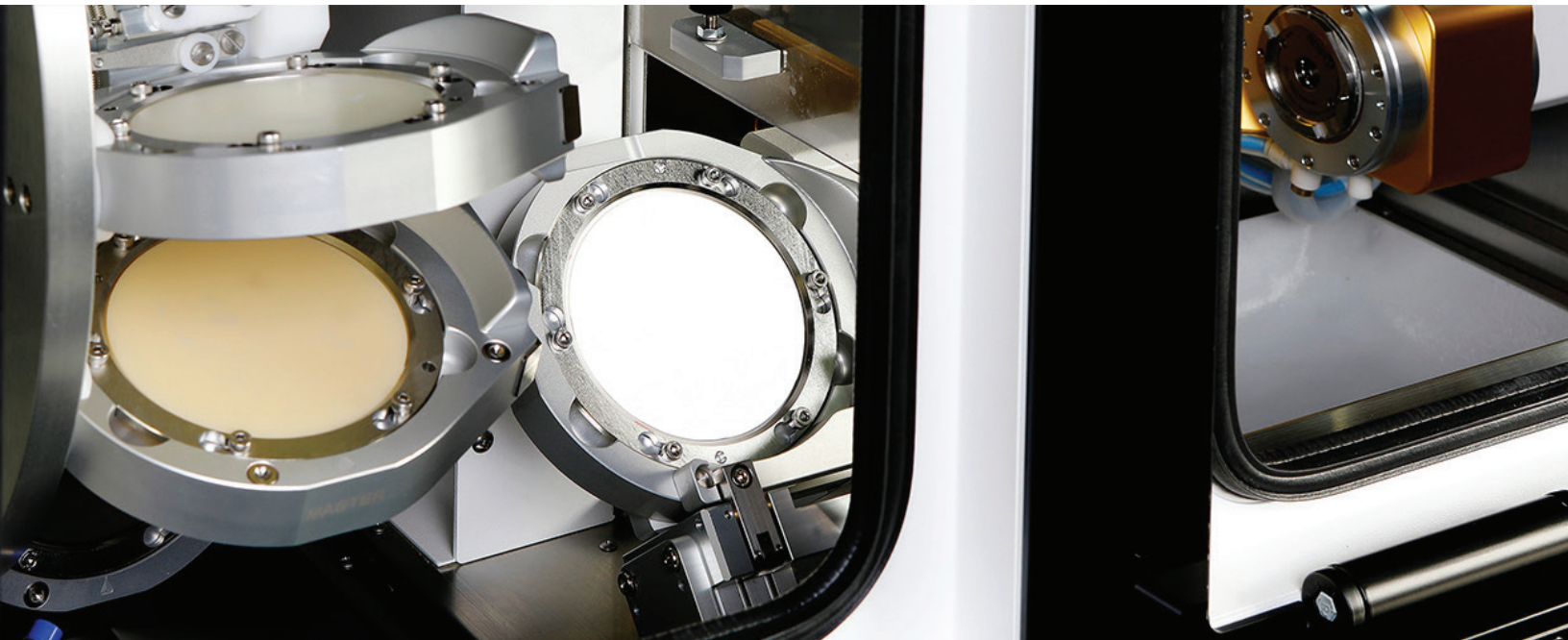
imill™ 500 Series [5X-500L / 5X-500]

Outstanding Machining Performance

5X-500L features a loader so that you can achieve 24-hour production with automatic replacement of 12 fixtures. You can machine accurately and dependably even with repeated fixture replacement and unattended operation.

5X-500 allows you to easily replace 4 types of fixtures for agility in switching between disks or premilled blanks.



Materials & Applications

Materials			Applications		
Model	5X-500L	5X-500	Case	5X-500L	5X-500
Pre-milled Blank (Titaniunm)	◉ (10 ea)	◉ (10 ea)	Implant Bar	◉	◉
CrCo & NiCr Disk	○	○	Screw-Retained Bridge (Crown & Coping)	◉	◉
Titanium Disk	◉	◉	Custom Abutment	◉	◉
Lithium Disilicate	○	○	Hybrid Abutment	◉	◉
Nanocomposite	◉	◉	Inlay & Onlay	◉	◉
Zirconia	◉	◉	Crown & Coping	◉	◉
PMMA	◉	◉	Crown & Coping Bridge	◉	◉
PEEK	◉	◉	Model	◉	◉
Wax	◉	◉	Bite Splint	◉	◉
			Denture	◉	◉

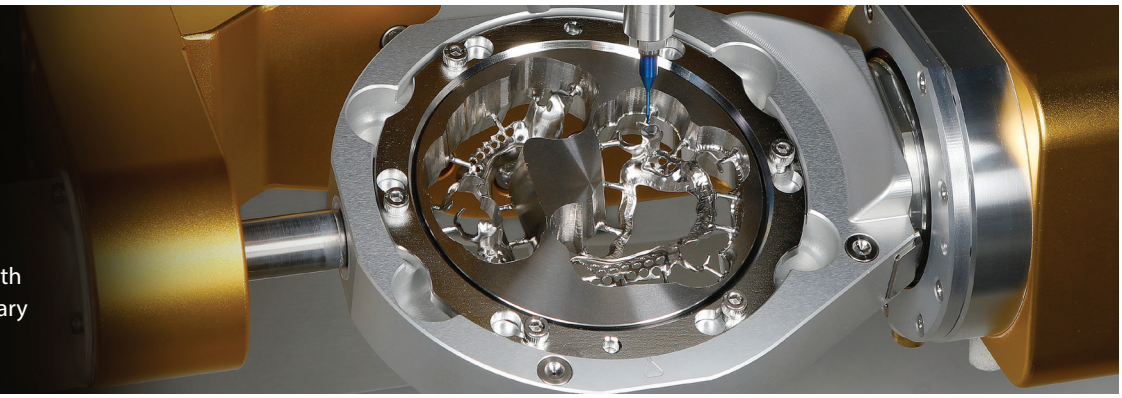
◉: High Compatibility / ○: Compatibility / ✕: Non-Compatible

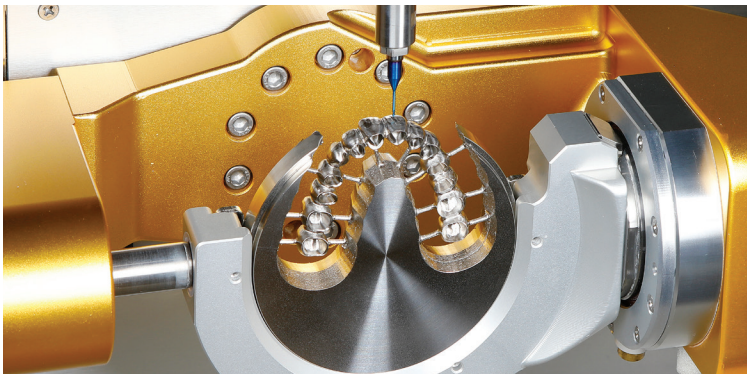
Specifications

Model		5X-500L	5X-500
Axis°		5-Axis	5-Axis
Processing		Wet and Dry	Wet and Dry
Spindle Power		AC 2.2 kW	AC 2.2 kW
Max RPM		60,000	60,000
ATC		20	20
Tool Shank (mm)		Ø6	Ø6
Motor		Servo	Servo
Drive Mechanism		Ball Screw	Ball Screw
Way System		Linear Guide	Linear Guide
Power Requirement		AC 200-240 V, 50/60 Hz, 15 A	AC 200-240 V, 50/60 Hz, 15 A
Air Requirement (Main Air Pressure):		5 kg/cm^2 = 71.1167 psi	5 kg/cm^2 = 71.1167 psi
Machine Size (WxDxH)		1100 x 910 x 840mm (43 x 35.5 x 33 in)	710 x 910 x 840mm 30 x 35.5 x 33 in)
Total Size (WxDxH)		1100 x 910 x 1735mm (43 x 35.5 x 68 in)	710 x 910 x 1735mm (30 x 35.5 x 68 in)
Weight (Machine/Table)		330 kg / 87 kg (728 lbs / 192 lbs)	230 kg / 65 kg (507 lbs / 143 lbs)
Travel	X,Y,Z Axis	228 x 128 x 130mm (9 x 5 x 5 in)	228 x 128 x 130mm (9 x 5 x 5 in)
	A / B Axis	330° / ±30°	330° / ±30°
Number of Jigs		12	-

Excellent Precision and Durability

With a ZERO Point system, you can achieve excellent origin point precision despite repeated fixture replacement, which allows you to machine even the most complex shapes effectively. The Servo Motor with a built-in Absolute Encoder and Auxiliary Support compensates for vibration.



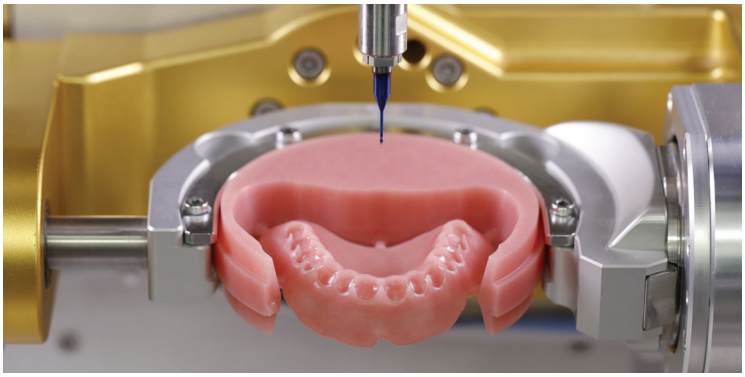


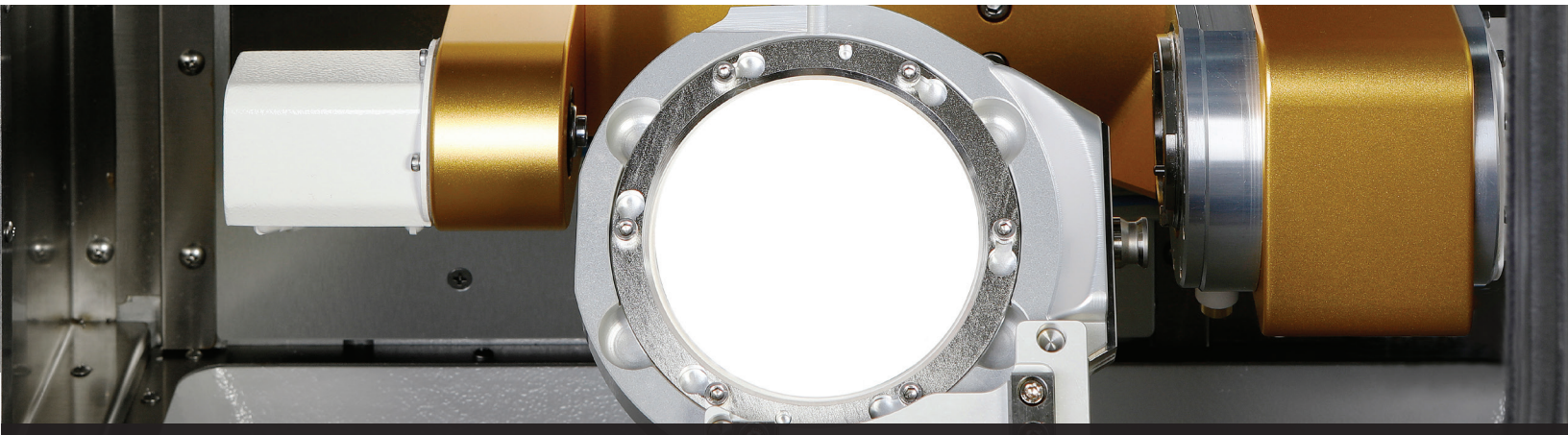
Best-in-Class Spindle

With the powerful spindle from Sycotec in Germany, the 500 series boasts excellent performance in machining all dental CAD/CAM materials including metals (Co-Cr, Titanium, Ni-Cr).

Labial Side Machining

With an Open C-Clamp, you can minimize time spent in precision machining and post-machining of facial or buccal side texture and undercut areas.





12 Magazine

20 Tools


Facial

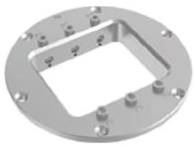

Occlusal


Cuff


All Disks


CAD Blocks

500 Series Accessories

		
Disk Fixture	Disk C Type Fixture	Premill Fixture (5X-500L Dedicated)
		
AT Holder (5X-500L Dedicated)	Premill Fixture T Type	CAD Block Holder
		
Milling Analogs	Calibration Master & Probe	Straumann PMAB Holder (Bushing Type)

* Products are subject to change without notice to improve quality, function, design, or otherwise.

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