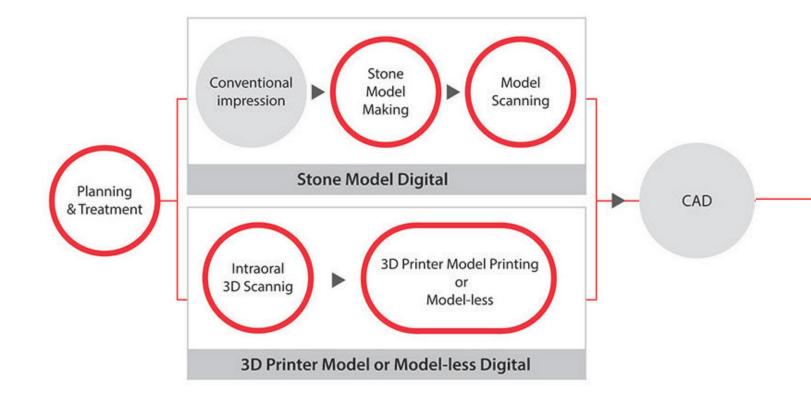


ARUM CATALOG DIGITAL DENTISTRY SOLUTIONS



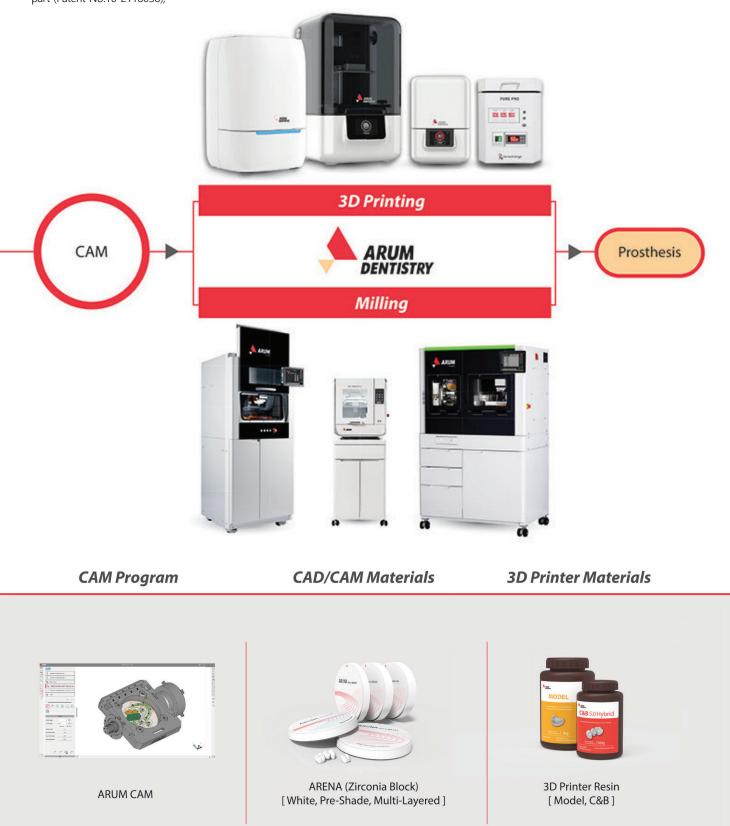
ARUM Digital Dentistry Workflow





With use of products of Arum Dentistry from planning & treatment and CAD/CAM design to prosthesis production, Digital Dentistry becomes fun for you.

You can realize simple prosthesis production and prosthetic treatment using ARUM Digital Dentistry Solution that features: "Fixture Design (Patent No. 10-2118038)" allowing rapid formation of new bones by the distribution of the stress on the upper part of the fixture to prevent fracture and facilitate smooth blood flow in the screw part (Patent No.10-2118038); "Excellent Machining Precision of CAD / CAM milling machine recognized in the world market over the last 20 years; "Accurate and Excellent Quality Dental Material" that went through total inspection process (Ti 6Al-4V ELI / stainless steel 303F); "Zirconia Block" boasting its strength and natural shade, and "3D Printer System"(Printer, UV curing machine, Resin) boasting its fast printing speed and accuracy, you can realize simple prosthesis production and prosthetic treatment.



ARUM Milling Machine Line Up

	ARUM				ARUM		•
Metal Disk							
Pre-milled Blank							
Zirconia Block	<u>له مر</u>	n	Ä	0 0	ų ų	ų i	ų.

Мс	odel	5X-200	5X-500L	5X-500	5X-450	4X-450
Axis		5 Axis	5 Axis	5 Axis	5 Axis	4 Axis
Processing		Wet and Dry	Wet and Dry	Wet and Dry Wet and Dry		Wet
Max. RPM		60,000	60,000	60,000	60,000	50,000
Spindle Powe	er	DC 3.0kw	AC 2.2kw	AC 2.2kw	AC 1.28kw	AC 1.8kw
A.T.C		15	20	20	15	6
Tool Shank (r	nm)	Ø6	Ø6	Ø6	Ø6	Ø6
Motor		Servo	Servo	Servo	Stepping	Stepping
Drive Mecha	nism	Ball Screw	Ball Screw	Ball Screw	Ball Screw	Ball Screw
Way System		Linear Guide	Linear Guide	Linear Guide	Linear Guide	Linear Guide
Total Size (W	*D*H)	31.5 x 37.4 x 69.3 inch	43.31 x 35.83 x 67.52 inch	27.95 x 35.83 x 66.73 inch	31.1 x 31.1 x 64.8 inch	31.1 x 31.1 x 64.8 inch
Weight (Mac	hine / Table)	595 lbs / 298 lbs	728 lbs / 192 lbs	507 lbs / 143 lbs	408 lbs / 144 lbs	408 lbs / 144 lbs
	X,Y,Z axis	13 x 5.75 x 5.71 inch	8.98 x 5.04 x 5.12 inch	8.98 x 5.04 x 5.12 inch	9.65 x 4.57 x 5.12 inch	9.65 x 4.57 x 5.12 inch
Travel	A / B axis	360°/±30°	360°/±30°	360°/±30°	360°/±35°	360°/-
Disk Jig or Ca	artridge Type	O type	O type, C type	O type, C type	C type	-
Number of Ji	g	-	12	-	-	-
Jig exchange	2	-	Auto	-	-	-
Materials						
Pre-milled B (Titanium)	lank	© (5ea)	© (10ea)	© (10ea)	© (5ea)	© (10ea)
Co-Cr & Ni-C	Co-Cr & Ni-Cr Disk		0	0	Х	Х
Titanium Dis	sk	Ø	Ø	O	0	Х
Lithium Disi	licate	0	0	0	0	Х
Nanocompo	osite	Ø	Ø	O	O	Х
Zirconia		Ø	Ø	Ø	O	Х
PMMA		O	O	O	O	Х
PEEK		O	O	O	O	Х
Wax		Ø	Ø	Ø	O	Х
Applications	5					
Implant Bar		Ø	O	O	O	Х
Screw-Retai	ned Bridge	Ø	O	Ø	O	Х
Customized	Abutment	Ø	O	Ø	Ø	O
Hybrid Abut	ment	Ø	O	Ø	Ø	Х
Inlay & Onla	у	O	O	O	Ø	Х
Crown & Co	ping	O	O	O	0	Х
Crown & Co	ping Bridge	O	0	O	Ø	Х
Model		Ø	O	O	0	Х
Bite Splint		Ø	0	0	0	X
Denture		O	0	O	0	Х
Page		5-8p	9-	12p	13-	16р



4X-100	5X-400	5X-300 Pro	5X-300D	4X-300	4X-300D
4 Axis	5 Axis	5 Axis	5 Axis	4 Axis	4 Axis
Wet and Dry	Wet and Dry	Wet and Dry	Dry	Wet and Dry	Dry
50,000	80,000	80,000	60,000	80,000	60,000
AC 1.8kw	AC 0.5kw				
8	10	12	12	12	12
Ø6	Ø4	Ø4	Ø4	Ø4	Ø4
Servo	Stepping	Stepping	Stepping	Stepping	Stepping
Ball Screw					
Linear Guide					
28 x 35 x 68.9 inch	22.5 x 25.8 x 64 inch	22.4 x 24.4 x 62.2 inch	22.4 x 24.4 x 25.2 inch	22.4 x 24.4 x 62.2 inch	22.4 x 24.4 x 25.2 inch
463 lbs / 181 lbs	220 lbs / 143 lbs	198 lbs / 143 lbs	198.4 lbs / X	198.4 lbs / 143 lbs	198.4 lbs / X
9.84 x 4.56 x 4.33 inch	5.71 x 4.33 x 3.35 inch	6.26 x 4.72 x 3.54 inch			
- / 360°	±35° / 360°	±30° / 360°	±30° / 360°	360° / -	360°/-
O type	O type	C type	C type	-	-
-	-	-	-	-	-
© (10ea)	O (2ea)	Х	Х	Х	Х
X	Х	Х	Х	×	X
Х	Х	Х	Х	Х	Х
○ (T Jig X)	O	Ø	Х	O	Х
© (T Jig X)	O	O	Ø	O	Ø
© (T Jig X)	O	O	Ø	Ø	O
© (T Jig X)	O	Ø	Ø	Ø	Ø
© (T Jig X)	O	Ø	Ø	O	Ø
© (T Jig X)	O	O	Ø	O	O
X	Х	Х	Х	Х	Х
Х	0	0	Х	X	Х
© (T Jig ©)	0	Х	Х	X	X
O (T Jig X)	O	Ø	Ø	0	0
O (T Jig X)	O	0	O	0	0
O (T Jig X)	O	O	O	0	0
O (T Jig X)	O	O	O	X	Х
Х	O	0	0	Х	Х
X	O	O	O	X	X
X	0	O	Ø	Х	Х
17-18 P	19-22 P	23-26 P	27-28 P		X

* Products are subject to change without notice to improve quality, function, design or otherwise. / ③: High Compatibility / O: Compatibility / X: Non-Compatibility

ARUM 5X-200 Complete Ultimate System



Amazing milling power

With DC 3.0kw spindle, Servo Motor & Linear Guide, you can mill any dental material such as Titanium, Co-Cr, Pre-milled Blank, Zirconia, Lithium Disilicate, Nanocomposite, PMMA, PEEK, and WAX and more.



A standard of METAL milling

This machine can be compared with none of the metal milling machine. You can mill various shapes such as Implant Bar Bridge, Screw-retain Bridge, and Partial Framework using various materials such as Titanium, Co-Cr, and Ni-Cr, etc.

Based on unsurpassed metal milling capability and extensive knowhow accumulated over many years, the excellence of our product has been proven in the global market.





Mounting of 5 pre-milled blanks

With a function of mounting of 5 pre-milled blanks simultaneously. Also, you can product Customized Abutment without Connector with AT Holder. In addition, it is possible to process using the Straumann PMAB holder (Bushing type) exclusively for Straumann Pre-milled Blanks, so it has expandability.



Easy material replacement

As it is easy to replace Disk Cartridge, you can replace Disk quickly and easily and use materials economically.



Special tool designed for perfection

The optimal tool designed to increase the completeness of milling. With use of ARUM's special tools (burs) such as Drill Tool, Reamer Tool, and Thread Tool, etc., you can achieve the best milling restoration.





Materials & Applications Info.

Materials		Applications		
Pre-milled Blank (Titanium)	© (5ea)	Implant Bar	O	
Co-Cr & Ni-Cr Disk	Ø	Screw-Retained Bridge (Crown & Coping)	O	
Titanium Disk	Ø	Customized Abutment	0	
Lithium Disilicate	0	Hybrid Abutment	O	
Nanocomposite	Ø	Inlay & Onlay	0	
Zirconia	Ø	Crown & Coping	O	
PMMA	O	Crown & Coping Bridge	O	
PEEK	Ø	Model	O	
Wax	Ø	Bite Splint	Ø	
		Denture	0	

O: High Compatibility / O: Compatibility / X: Non-Compatibility

Specifications

Axis	5-Axis	Drive Mechanism		Ball Screw	
Processing	Wet and Dry	Way System		Linear Guide	
Spindle Power	DC 3.0kw	Machine Size (W*D*H)		31.5 x 37.4 x 37 inch	
Max. RPM	60,000	Total Size (W*D*H)		31.5 x 37.4 x 69.3 inch	
A.T.C	15	Weight (Machine / Table)		595 lbs / 298 lbs	
Tool Shank (mm)	Ø6	Traval	X,Y,Z axis	13 x 5.75 x 5.71 inch	
Motor	Servo	Travel	A / B axis	360°/±30°	

Accessories



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ARUM 500 Series [5X-500L / 5X-500]

The Leader of Middle Class Specialized



Outstanding machining performance

5X-500L is a model with a loader part and with it you can realize a 24hour smart factory with automatic replacement of 12 jigs.

You can machine accurately and stably even with repeated Jig replacement, and manage production time efficiently.

5X-500 is a modal without a loader part. With it you can easily replace 4 types of jigs, which allows you to be able to freely machine from disk to pre-milled blank.



Excellent Precision and Durability

With ZERO Point system, you can achieve excellent origin point precision despite repeated jig replacement, which allows you to machine even complex shape stably. Servo Motor with built-in Absolute Encoder and Auxiliary Support compensates for even fine vibrations.





Best-in-class Spindle

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

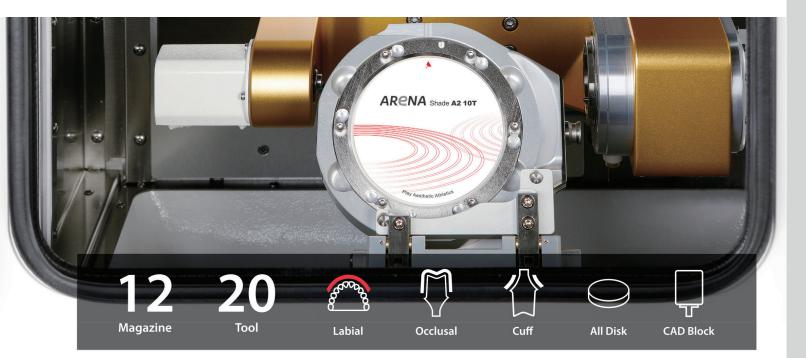


Labial Side Machining

With Open C Type Jig, you can minimize time spent in precision machining and post-machining of labial (or Buccal) side texture and undercut area.







Materials			Applications			
Model	5X-500L	5X-500	Model	5X-500L	5X-500	
Pre-milled Blank (Titanium)	© (10ea)	© (10ea)	Implant Bar	O	O	
Co-Cr & Ni-Cr Disk	0	0	Screw-Retained Bridge (Crown & Coping)	O	O	
Titanium Disk	O	O	Customized Abutment	O	O	
Lithium Disilicate	0	0	Hybrid Abutment	O	O	
Nanocomposite	O	O	Inlay & Onlay	O	O	
Zirconia	O	O	Crown & Coping	O	O	
PMMA	O	O	Crown & Coping Bridge	O	O	
PEEK	O	O	Model	O	O	
Wax	O	O	Bite Splint	0	O	
			Denture	O	O	

Materials & Applications Info.

©: High Compatibility / O: Compatibility / X: Non-Compatibility

Specifications

Model		5X-500L	5X-500	
Axis		5-Axis	5-Axis	
Processing		Wet and Dry	Wet and Dry	
Spindle Power		AC 2.2kw	AC 2.2kw	
Max. RPM		60,000	60,000	
A.T.C		20	20	
Tool Shank (mm)		Ø6	Ø6	
Motor		Servo	Servo	
Drive Mechanism		Ball Screw	Ball Screw	
Way System		Linear Guide	Linear Guide	
Machine Size (W*D*H	ł)	43.31 x 35.83 x 33 inch	27.95 x 35.83 x 33 inch	
Total Size (W*D*H)		43.31 x 35.83 x 67.52 inch	27.95 x 35.83 x 66.73 inch	
Weight (Machine / Ta	ble)	728 lbs / 192 lbs	507 lbs / 143 lbs	
Tuessel	X,Y,Z axis	8.98 x 5.04 x 5.12 inch	8.98 x 5.04 x 5.12 inch	
Travel	A / B axis	360°/±30°	360°/±30°	
Number of Jig		12	-	
Jig exchange		Auto	-	



Accessories

Disk Jig	Disk C Type Jig	Premill Jig (5X-500L Dedicated)
	- Constant of the second	
AT Holder (5X-500L Dedicated)	Premill Jig T Type	CAD Block Cartridge
Attachment	Calibration Master & Probe	Straumann PMAB holder (Bushing type)

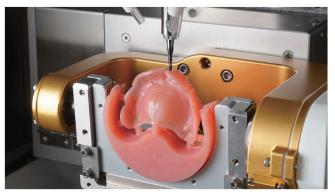
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ARUM 450 Series [5X-450 / 4X-450]

Faithful Mill for Main Prosthesis



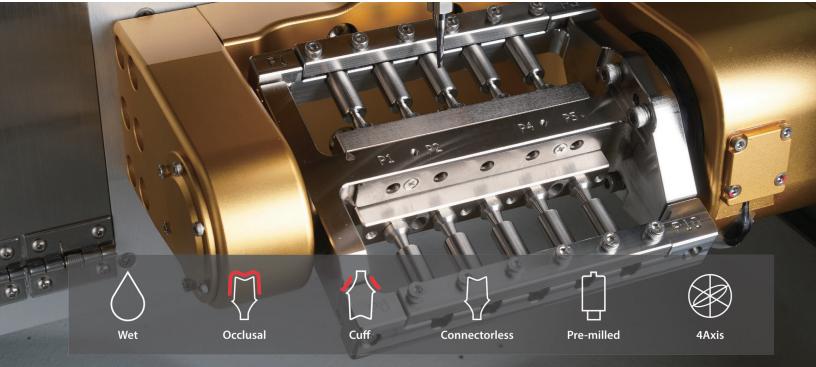


Milling of various prostheses

With use of open C type cartridge, you can precisely machine Labial Side (Buccal Side) and Under-Cut zone that requires additional machining.

With the amazing power of the best-in-class spindle AC 1.28kw, you can machine various shapes and materials such as Denture, Zirconia, CAD Block, and Titanium milled Bar. etc. (Except for Ni-Cr / Co-Cr Disk) [5X-450]







Precision machining using AT Cartridge

In addition to simple top & bottom side machining, you can machine cuffside (Gingival side), occlusal side, and retention groove using AT Cartridge. [5X-450]



Machining with removal of connector

By using the attachment, you can machine customized abutment from which the connector has been removed. The improved bonding with the upper prosthesis with removal of connector reduces the work during the post production stage, allowing you to produce prostheses in a more efficient way. [5X-450]









Titanium Disk

Zirconia Crown

Materials & Applications Info.

Materials			Applications			
Model	5X-450	4X-450	Model	5X-450	4X-450	
Pre-milled Blank (Titanium)	© (5ea)	© (10ea)	Implant Bar	O	Х	
Co-Cr & Ni-Cr Disk	Х	Х	Screw-Retained Bridge (Crown & Coping)	O	Х	
Titanium Disk	0	Х	Customized Abutment	0	O	
Lithium Disilicate	0	Х	Hybrid Abutment	0	Х	
Nanocomposite	O	Х	Inlay & Onlay	0	Х	
Zirconia	O	Х	Crown & Coping	0	Х	
PMMA	O	Х	Crown & Coping Bridge	0	Х	
PEEK	O	Х	Model	O	Х	
Wax	O	Х	Bite Splint	0	Х	
			Denture	0	Х	

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Specifications

Model		5X-450	4X-450
Axis		5-Axis	4-Axis
Processing		Wet and Dry	Wet
Spindle Power		AC 1.28kw	AC 1.8kw
Max. RPM		60,000	50,000
A.T.C		15	6
Tool Shank (mm)		Ø6	Ø6
Motor		Stepping	Stepping
Drive Mechanism		Ball Screw	Ball Screw
Way System		Linear Guide	Linear Guide
Machine Size (W*D*H	H)	31.1 x 31.1 x 3.1 inch	31.1 x 31.1 x 3.1 inch
Total Size (W*D*H)		31.1 x 31.1 x 64.8 inch	31.1 x 31.1 x 64.8 inch
Weight (Machine / Ta	ıble)	408 lbs / 144 lbs	408 lbs / 144 lbs
	X,Y,Z axis	9.65 x 4.57 x 5.12 inch	9.65 x 4.57 x 5.12 inch
Travel	A / B axis	360°/±35°	360° / -

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

ARUM 4X-100 One Very Serious machine





Completion of Customized Abutment machining

With various machining methods of pre-milled blank provided by us, anyone can easily machine high quality Customized Abutment. In addition, free processing from disk to pre-milled blank is possible depending on the Jig type selection. (Metal Disk cannot be processed)



Cuff side (Gingival side) & Occlusal side Precision milling With a jig for pre-milled blank machining, precision machining of the cuff side and occlusal side areas is possible to increase the completeness. In addition, it is possible to process using the Straumann PMAB holder (Bushing type) exclusively for Straumann Pre-milled Blanks, so it has expandability.



Materials & Applications Info.

Materials			Applications			
Jig Type	g Type Basic T Jig Type		Basic	Т		
Pre-milled Blank (Titanium)	© (10ea)	© (10ea)	Implant Bar	Х	Х	
Co-Cr & Ni-Cr Disk	Х	Х	Screw-Retained Bridge (Crown & Coping)	Х	Х	
Titanium Disk	Х	Х	Customized Abutment	O	O	
Lithium Disilicate	0	Х	Hybrid Abutment	0	Х	
Nanocomposite	O	Х	Inlay & Onlay	0	Х	
Zirconia	O	Х	Crown & Coping	0	Х	
PMMA	O	Х	Crown & Coping Bridge	0	Х	
PEEK	O	Х	Model	Х	Х	
Wax	O	Х	Bite Splint	Х	Х	
			Denture	Х	Х	

: High Compatibility / O: Compatibility / X: Non-Compatibility

Specifications

Axis	4-Axis	Drive Mechanism		Ball Screw
Processing	Wet and Dry	Way System		Linear Guide
Spindle Power	AC 1.8kw	Machine Size (W*D*H)		28 x 35 x 33.5 inch
Max. RPM	50,000	Total Size (W*D*H)		28 x 35 x 68.9 inch
A.T.C	8	Weight (Machine / Table)		463 lbs / 181 lbs
Tool Shank (mm)	Ø6	Traval	X,Y,Z axis	9.84 x 4.56 x 4.33 inch
Motor	Servo	Travel	A / B axis	- / 360°

Accessories

		Carlos and a			
Disk Cartridge	AT Cartridge	AT Holder A/B	Attachment	Bushing	Straumann PMAB holder (Bushing type)

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ARUM 5X-400 Economical & Reasonable





Unrivaled grinding capability

With the adoption of a high RPM specialized spindle, this equipment boasts its unrivalled capability of grinding Lithium Disilicate (Glass Ceramic).

We improved user convenience by applying the cartridge that can mount and machine up to 6 CAD Blocks (Lithium Disilicate, Nanocomposite), and the application of high-precision ball screws allows you to get high quality machining outputs.







Your reasonable choice

You can machine various materials from Zirconia Disk to CAD Block, Pre-milled Blank, and select between wet and dry machining.

You can enjoy the maximum results at a reasonable price.



User-friendly environment

With Auto Calibration Function, you can maintain the best condition of machine anytime, anywhere. You can always see a certain level of machining. U.I design makes operation of equipment easy and simple.

Like natural teeth

Every patient wants a prosthesis that looks natural. With milling the grooved part precisely using ARUM's 0.3mm tool for Zirconia, you can reproduce the teeth that look natural.







Customized Abutment

Materials & Applications Info.

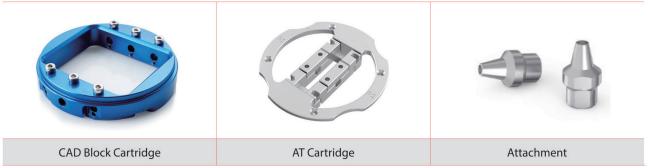
Materials		Applications	Bar X Retained Bridge (Crown & Coping)	
Pre-milled Blank (Titanium)	0 (2ea)	Implant Bar	Х	
Co-Cr & Ni-Cr Disk	Х	Screw-Retained Bridge (Crown & Coping)	0	
Titanium Disk	Х	Customized Abutment	0	
Lithium Disilicate	O	Hybrid Abutment	O	
Nanocomposite	O	Inlay & Onlay	O	
Zirconia	O	Crown & Coping	O	
PMMA	O	Crown & Coping Bridge	O	
PEEK	O	Model	O	
Wax	O	Bite Splint	O	
		Denture	0	

 $\odot:$ High Compatibility / $\bigcirc:$ Compatibility / X : Non-Compatibility

Specifications

Axis	5-Axis	Drive Mecha	inism	Ball Screw
Processing	Wet and Dry	Way System		Linear Guide
Spindle Power	AC 0.5kw	Machine Size (W*D*H)		22.5 x 25.8 x 26.8 inch
Max. RPM	80,000	Total Size (W	/*D*H)	22.5 x 25.8 x 64 inch
A.T.C	10	Weight (Mad	hine / Table)	220 lbs / 143 lbs
Tool Shank (mm)	Ø4	Traval	X,Y,Z axis	5.71 x 4.33 x 3.35 inch
Motor	Stepping	Travel	A / B axis	±35°/360°

Accessories



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

ARUM 5X-300 Pro Bright Future, Right System





Efficient C-TYPE JIG Labial (or Buccal) side texture and undercut area precision processing minimize post-processing time.



Easy and easy material change You can easily exchange from disk to CAD block as it uses cartridge type materials.





All in One System

An external compressor is not required, and all additional devices (Dust Collector, Coolant System) are built inside the table to overcome installation space constraint and minimize noise. ** German Renfert SILENT compact CAM model is used (optional)

High speed 80,000 RPM

By choosing one from 2 modes of roughing process (U peeling milling, and Parallel milling), you can process glass ceramic materials more effectively.





[U peeling milling]

[Parallel milling]



Excellent detail expression

Through groove, labial side texture precision processing using ARUM's exclusive 0.3mm tool for Zirconia, you can process prostheses close to natural teeth.







Zirconia Hybrid Abutment

Crown & Coping Bridge

Materials & Applications Info.

Materials		Applications	
Pre-milled Blank (Titanium)	Х	Implant Bar	Х
Co-Cr & Ni-Cr Disk	Х	Screw-Retained Bridge (Crown & Coping)	0
Titanium Disk	Х	Customized Abutment	Х
Lithium Disilicate	O	Hybrid Abutment	O
Nanocomposite	O	Inlay & Onlay	O
Zirconia	O	Crown & Coping	O
РММА	O	Crown & Coping Bridge	O
PEEK	O	Model	O
Wax	O	Bite Splint	O
		Denture	O

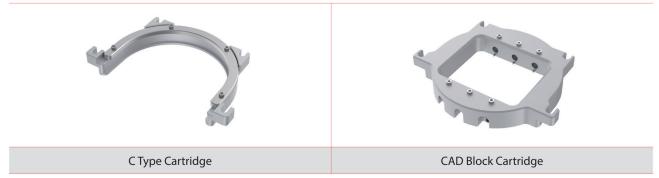
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Specifications

Axis	5-Axis	Drive Mechanism		Ball Screw
Processing	Wet and Dry	Way System		Linear Guide
Spindle Power	AC 0.5kw	C 0.5kw Machine Size (W*D*H)		22.4 x 24.4 x 25.2 inch
Max. RPM	80,000	Total Size (W*D*H)		22.4 x 24.4 x 62.2 inch
A.T.C	12	Weight (Machi	ne / Table)	198 lbs/ 143 lbs
Tool Shank (mm)	Ø4	Traval	X,Y,Z axis	6.26 x 4.72 x 3.54 inch
Motor	Stepping		A / B axis	±30° / 360°

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Accessories



ARUM 5X-300D Compact amd Powerful



The beginning of a small change

With a small change of "7° Tilted Door" to ensure user's viewing angle, you can clearly see the milling progress. With the door opening wide, you can secure enough work space to conveniently change materials and setting tools. In addition, the interior floor is inclined for convenient cleaning.



Device to automatically exchange 12 tools

With a 12-tool pocket, you can machine almost every material such as Zirconia, Lithium Disilicate, PMMA, PEEK, and WAX in just one setting, and the automatic tool change function allow you to use equipment without interruption.



User-friendly use environment

With Auto Calibration Function, you can maintain the best condition of machine anytime, anywhere. You can always see a certain level of machining. U.I design with enhanced ease of use makes operation of equipment easy and simple.



Excellent detail expression

Through groove, labial side texture precision processing using ARUM's exclusive 0.3mm tool for Zirconia, you can process prostheses close to natural teeth.

Specifications

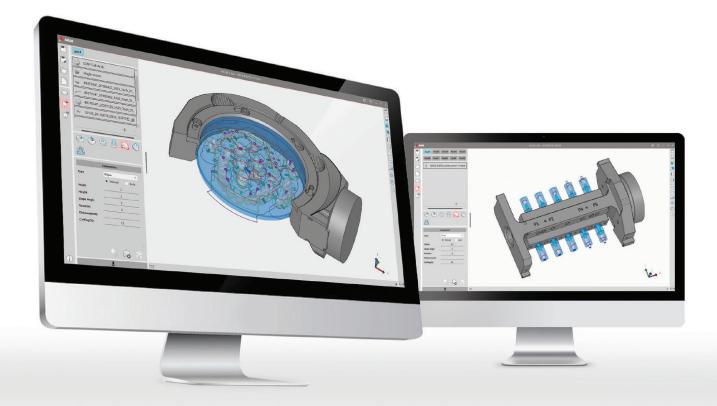
Model		5X-300D		
Axis		5-Axis		
Processing		Dry		
Spindle Powe	er	AC 0.5kw		
Max. RPM		60,000		
A.T.C		12		
Tool Shank (mm)		Ø4		
Motor		Stepping		
Drive Mechar	nism	Ball Screw		
Way System		Linear Guide		
Machine Size	(W*D*H)	22.4×24.4×25.2 inch		
Total Size (W*	*D*H)	-		
Weight (Machine / Table)		198.4lbs / x		
-	X,Y,Z axis	6.26 x 4.72 x 3.54 inch		
Travel	A / B axis	±30° / 360°		
Disk Cartridge Type		C type		

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



Accessories

ApexMill The Easy, The Fast, The Accurate.

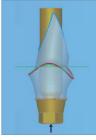


ApexMill is a software in which all the machining know-hows of ARUM DENTISTRY are integrated. It is, above all, optimized for ARUM Milling Machine, and guarantees excellent machining quality. It provides a UI/UX environment that is easy for everyone to understand and all the core functions necessary for dental part machining. Now you can experience the most practical and most powerful CAM Design developed by ARUM.

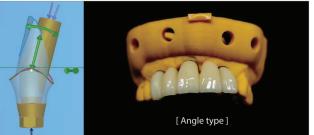
Function	Description
Implant library machining	A function to easily machine the abutment implant interface with a variety of predefined libraries
Angled screw channel machining	A function to adjust the interface angle and machine angled screw channel
Screw channel machining	A function to paper the screw channel's inner shape / automatically analyze and machine End Type
Grinding machining module	Grinding optimized for lithium disilicate (glass ceramic)
Basic shape recognition	A function of automatic/manual recognition while working on margins and holes even without CAD information
Advanced shape recognition	Differentiated part recognition and modification
Workflow and UI	Practical and intuitive user interface and experience
Material information setting	A function to register and modify materials and to modify basic information modification of each material
Sinter frame creation	A function to create a variety of sinter frames
Toolpath master module	A function to create and modify strategies, define customized machining method and modify machining tool
Automatic placement	A function to set whether (or not) to use automatic part placement function and specify the degree of overlap
User-defined area designation	A function to designate and machine a specific area of the prosthesis
Automatic connector	A function to automatically place connectors on part
C-type jig machining	A function to machine thin and long anterior teeth even with thin materials
Machine connection	A function to print out NC output file path as a network folder so that it can used directly on the machine
Circular material machining	A function to machine the blank of circular material
Block material machining	A function to machine ceramic block material such as lithium disilicate (glass ceramic)
Pre-milled blank material machining	A function to machine the round bar material for abutment
Undercut indication	A function to analyze the undercut for entire part appearance and analyze tooth's inner undercut individually
Simulation history	A function to save and check the recently created list of NC simulation information

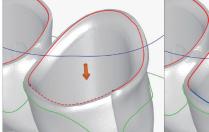


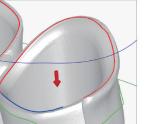
Interface Library With two types of library provided, ie. Straight / Angle, you can machine a wider variety of shapes. By using angle type, you can set the screw channel hole in the direction of lingual surface to produce aesthetically excellent prostheses.



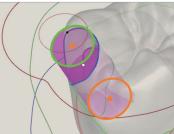


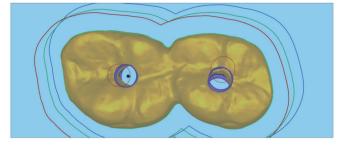


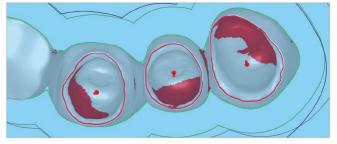


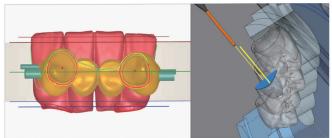












Easy margin line edition You can delete the margin line re-

You can delete the margin line requiring modification with just 3 clicks, and create new margin lines in a short time.



3-point SCRP production

You can form SCRP hole quickly and easily with 3-point click, and modify the height and diameter of the hole by entering numerical values or using a mouse. In addition, the boundary of the outer shape automatically changes according to the position of the hole, allowing the automatic detection of the possibility of collision between the tool and the material.

A liberty to change the hole

You can even change the hole for distorted or scanned parts, and freely modify the height, diameter, direction, and position of the hole.



Individual undercut check

You can check the condition of the undercut individually which allows you to be able to set the insertion direction of the tool faster and more conveniently.

In addition, you can easily use the undercut view, the insertion direction modification, view insertion direction, and the occlusal surface machining direction setting using each of the provided icons.

Open C-type jig machining

The use of C-type jig allows you to be able to easily machine thin and long anterior teeth and maximize the application of ApexMill.

CAD/CAM etc

Materials



Titanium, Co-Cr, Ni-Cr Disk



Zirconia



PMMA

Nanocomposite



PEEK



Pre-milled Blank

CAD Program **exocad** 3shape[▷]



Model Scanner





Model	FREEDOM HD	FREEDOM UHD
Resolution of camera	2.0MP	5.0MP
Accuracy (um)	7	7
Scan area (mm)	-	-
Size (W*H*inch)	11.8 x 19.4 x 16.9	11.8 x 19.4 x 16.9
Weight (lbs)	37.4	37.4

Sintering Furnace





Model	ARUM sintering furnace	HTS/M/Zirkon
Max. Temperature(°C)	1600	1,650
Chamber Volume(mm)	90*90*65	Ø120*30
Size (W*H* inch)	14.7 x 19.3 x 15.1	15.3 x 31.1 x 19.7
Weight (lbs)	72.7	132.2

Dust Collector



Model	Renfert SILENT CompactCAM
Size (W*H* inch)	9.6 x 17.3 x 19.6
Weight (lbs)	28.7

Lab Driver



Screw Driver Tips

- Place the model scanbody and the abutment
- 10 types of tips (compatible with more than 300 implants system)

Analog Insertion Tips

- Place the lab analog to 3D printed model
- Easy and safe to place the lab analog
- Prevent damage of the lab analog internal thread
- 5 types of tips (compatible with more than 300 implants system)



iPen

Torque Adapter

For clamping Attachment and Premill for connectorless milling (with 0.3Nm torque)Prevent screw loosening during milling

ARUM

Screw Driver Tips Line-Up

SI	ZE	COLOR	Compatible Implant System
\bigcirc	Hex 1.0	Blue	DENTIUM NR Line, DENTSPLY Ankylos C/X Implant, etc.
\bigcirc	Hex 1.2	Purple	BIOMET 3i Certain, BIOMET 3i EXTERNAL HEX, DENTIS i-Clean, DENTSPLY Xive, DIO UF, MEGAGEN AnyONE, MEGAGEN Anyridge, NEOBIOTECH, OSSTEM (HIOSSEN) GS(TS), OSSTEM SS, OSSTEM US, SIC Invent, etc.
\bigcirc	Hex 1.25	Black	BEGO Semados, BIOHORIZONS External, BIOHORIZONS Internal, DENTIS s-Clean, LASAK Bioniq, etc.
\bigcirc	Hex 1.27	Red	ALPHABIOTEC Internal Hex, ANTHOGYR axiom, ASTRA TECH OsseoSpeed TX, CAMLOG, DENTIUM Super- Line, IMPLANT DIRECT Legacy, MIS C1, MIS Internal Hexagon, ZIMMER Tapered Screw-Vent, etc.
\bigcirc	Hex 1.3	Green	ASTRA TECH OsseoSpeed EV, CLC Conic, DYNA Pushin Octalock, KENTEC, PLATON, Type IV Pro, Sweden & Martina, etc.
	Torx 1.7	Brown	STRAUMANN Bone Level, STRAUMANN Conical Bone Level, STRAUMANN synOcta, etc.
	Torx 1.5 (Star)	Yellow	ADIN CLOSEFIT, NOBEL BIOCARE Active, NOBEL BIOCARE Branemark, NOBEL BIOCARE Replace Select, etc.
\bigcirc	Cross	Gray	THOMMEN SPI, etc.
	Ball Torx	Orange	1. Most of angled screws of ARUM Ti-base (screw head size is more than 2.1mm) 2. All implant system for disk angulated screw channels
\bigcirc	Ball Hex	White	Some of angled screws of ARUM Ti-base (screw head size is less than 2.1mm) *Please contact us for a separate list.

Analog Insertion Tips Line-Up

SIZ	ZE	COLOR	Compatible Implant System
>	M2.0*P0.40	Сосоа	Osstem(Hiossen) GS Regular, Dentium Super line, Megagen Anyone, Dentis S-clean, Straumann Tissue level, etc.
	M1.8*P0.35	Light Green	Zimmer TSV, Megagen Anyridge, Biohorizon Internal, Bego Semados, etc.
	M1.6*P0.35	Pink	Straumann Bone level, Osstem GS Mini, Nobel biocare Active Mini, Dentsply Xive, Neodent GM, etc.
	M1.4*P0.30	Sky Blue	Starumann Bone level 2.9, Dio UF Narrow, Megagen Mini, Astra Yellow. Most of Multi unit, etc.
	M2.5*P0.45	lvory	Osstem US Wide, Nobel biocare Branemark WP, etc.

** Aware of the color of analog tip

** Contact us for a complete list of implant compatibility

Torque Adapter

Torque

0.3 Nm

Clinical Driver

- Use of Trimrite with excellent corrosion resistance
- Easy and simple cleaning
- For angle screw channels
- Heat treatment and hardness of 50 or more







[Hex 8mm]

[Torx 15mm]

Size	Length	Order Code	Implant System	Recommend Torque
Ball Torx	22mm	BT1722	1. Most of angled screws of ARUM Ti-Base (screw head size is more than 2.1mm) 2. All implant system for disk angulated screw channels	20 Ncm
	15mm	BT1715		
	8mm	BT1708		
Ball Hex	22mm	BH1222	Some of angled screws of ARUM Ti-Base (screw head size is less than 2.1mm) *Please contact us for a separate list.	20 Ncm
	15mm	BH1215		
	8mm	BH1208		

Attachment

With use of Attachment, you can machine more sophisticated and near perfect Customized Abutment.

- Occlusal side milling : 500 Series I 450 Series
- Connectorless milling : 500 Series I 450 Series I 5X-200 I 5X-400

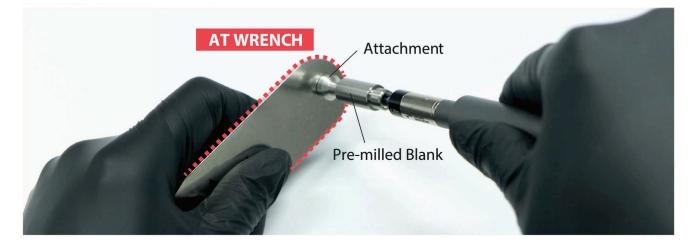




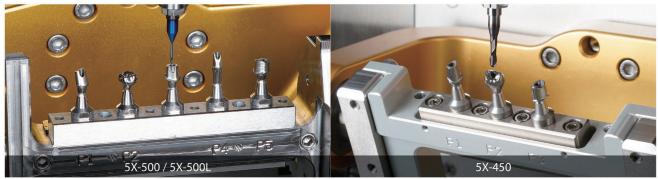
AT Wrench

A tool to fix attachment when tightening with a strong torque to prevent separation of Attachment and Premill when machining premill in a connectorless method.

- Easy to use and storage
- Compatible with all ARUM Attachments
- Stainless Steel 304
- 4.7 x 1.1 x 0.1 inch / 0.16 lbs



Use Case







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