

# STRONG METAL MILLING WITH THE LARGEST IMPLANT SYSTEM RANGE



Stable and durable milling machine for high quality machining.

**800+**  
IMPLANT  
CONNECTIONS  
TOTAL CAD/CAM  
SOLUTIONS

## ARUM 5X-500 series



**ARUM**

Wet	Dry	C-Clamp	Auto Calibration	Zero	Loader
Occlusal	Cuff	All Disk	CAD Block	Pre-milled	

# ARUM Milling Machine Line-up



Metal Disk [ 800+ Implant Connection Milling ]

Pre-milled Blank

Zirconia Block

Model	5X-500L	5X-500	5X-200	5X-450	
Axis	5 Axis	5 Axis	5 Axis	5 Axis	
Processing	Wet and Dry	Wet and Dry	Wet and Dry	Wet and Dry	
Max. RPM	60,000	60,000	60,000	60,000	
Spindle Power	AC 3.6kw	AC 3.6kw	AC 3.0kw	AC 1.28kw	
A.T.C	20	20	15	15	
Tool Shank (mm)	Ø6	Ø6	Ø6	Ø6	
Motor	Servo	Servo	Servo	Stepping	
Drive Mechanism	Ball Screw	Ball Screw	Ball Screw	Ball Screw	
Way System	Linear Guide	Linear Guide	Linear Guide	Linear Guide	
Total Size (W*D*H)	1078*921*1713mm	689*918*1706mm	815*949*1755mm	791*791*1657mm	
Weight (Machine / Table)	360 kg / 110 kg	230kg / 65kg	270kg / 135kg	185kg / 65kg	
Travel	X, Y, Z axis	227.5*125*131mm	227.5*125*131mm	325*142.5*144mm	245*116*130mm
	A axis / B axis	360° / +40° ~ -31.5°	360° / +40° ~ -31.5°	360° / ±30°	360° / ±35.1°
Disk Jig or Cartridge Type	O type, C type	O type, C type	O type	C type	
Number of Jig	12	-	-	-	
Jig exchange	Auto	-	-	-	

## Materials

Pre-milled Blank	◎ (10ea)	◎ (10ea)	◎ (5ea)	◎ (5ea)
Co-Cr & Ni-Cr Disk	○	○	◎	X
Titanium Disk	◎	◎	◎	○
Lithium Disilicate	○	○	○	○
Nanocomposite	◎	◎	◎	◎
Zirconia	◎	◎	◎	◎
PMMA	◎	◎	◎	◎
PEEK	◎	◎	◎	◎
Wax	◎	◎	◎	◎

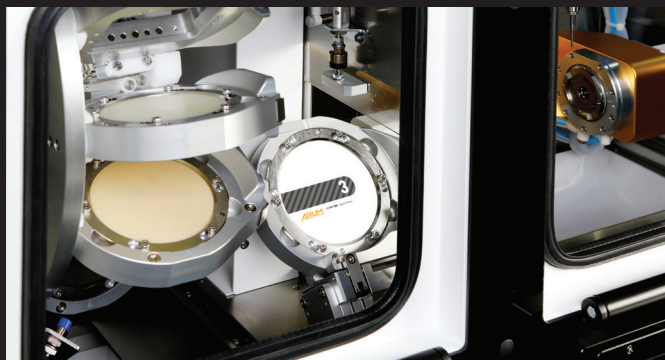
## Applications

Implant Bar	◎	◎	◎	◎
Screw-Retained Bridge	◎	◎	◎	◎
Customized Abutment	◎	◎	◎	◎
Hybrid Abutment	◎	◎	◎	◎
Inlay & Onlay	◎	◎	◎	◎
Crown & Coping	◎	◎	◎	◎
Crown & Coping Bridge	◎	◎	◎	◎
Model	◎	◎	◎	◎
Bite Splint	◎	◎	◎	◎
Denture	◎	◎	◎	◎



4X-450	5X-400	5X-300 Pro	5X-300D
4 Axis	5 Axis	5 Axis	5 Axis
Wet	Wet and Dry	Wet and Dry	Dry
50,000	80,000	80,000	60,000
AC 1.8kw	AC 0.5kw	AC 0.67kw	AC 0.5kw
6	10	12	12
Ø6	Ø4	Ø4	Ø4
Stepping	Stepping	Stepping	Stepping
Ball Screw	Ball Screw	Ball Screw	Ball Screw
Linear Guide	Linear Guide	Linear Guide	Linear Guide
791*791*1657mm	568*643*1616mm	568*641*1583mm	568*641*645mm
185kg / 65kg	100kg / 65kg	90kg / 65kg	90kg / -
241*116*130mm	146*122.3*106.5mm	167*119.8*94mm	167*119.8*94mm
360° / -	±35.2° / 360°	±30° / 360°	±30° / 360°
-	O type	C type	C type
-	-	-	-
-	-	-	-
◎ (10ea)	○ (2ea)	X	X
X	X	X	X
X	X	X	X
X	◎	◎	X
X	◎	◎	◎
X	◎	◎	◎
X	◎	◎	◎
X	◎	◎	◎
X	◎	◎	◎
X	X	X	X
X	X	X	X
◎	○	X	X
X	◎	◎	◎
X	◎	◎	◎
X	◎	◎	◎
X	◎	◎	◎
X	◎	◎	◎
X	◎	◎	◎
X	◎	◎	◎
X	○	◎	◎

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



### Outstanding Machining Performance

5X-500L is a model with a loader part and with it you can realize a 24-hour smart factory with automatic replacement of 12 jigs. You can machine accurately and stably even with repeated Jig replacement, and manage production time efficiently.



### Machining with Maximum Efficiency

You can machine a variety of materials with a single setting. (a storage space for 12 jigs, 12 disks, 72 Pre-milled blanks, 72 Cad blocks), allowing you to be able to manage machining time and cost efficiently.

## Specifications

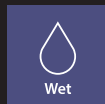
Axis	5 Axis	Way System	Linear Guide	
Processing	Wet and Dry	Machine Size (W*D*H)	1078*921*889mm	
Spindle Power	AC 3.6kw	Total Size (W*D*H)	1078*921*1713mm	
Max. RPM	60,000	Weight (Machine / Table)	360kg / 110kg	
A.T.C	20	Travel	X,Y,Z axis	227.5*125*131mm
Tool Shank (mm)	Ø6		A / B axis	360° / +40° ~ -31.5°
Motor	Servo	Number of Jig	12	
Drive Mechanism	Ball Screw	Jig exchange	Auto	

## Tool List

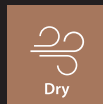
Material	Code	Ø	Size	Material	Code	Ø	Size
Zirconia	ZB-05	2.0	D2.0*L20*55	Glass ceramic	DG-21	1.0	D1.0*L10*50
	ZB-06	1.0	D1.0*L14*53		DG-22	0.6	D0.6*L08*50
	ZB-07	0.6	D0.6*L08*50		DG-37	2.5	D2.5*L12*50
	ZB-78	0.3	D0.3*L1.5*50		DG-38	1.5	D1.5*L10*50
Metal (Premilled Blank/Disk)	MB-09	3.0	D3.0*L12*50	PMMA(Long)	PB-88	3.0	D3.0*L20*55
	MB-10	2.0	D2.0*L12*50		PB-89	2.0	D2.0*L20*55
	MB-11	1.5	D1.5*L10*50		PB-90	1.5	D1.5*L18*58
	MB-12	1.0	D1.0*L10*50		PB-91	1.0	D1.0*L13*55
Metal(Disk)	MB-14	0.6	D0.6*L03*50	PB-92	0.6	D0.6*L10*55	
Metal (Reamer)	MR-01	3.5	D3.5*L18*55*180°	PMMA(Denture)	PB-93	4.5	D4.5*L25*60
	MR-02	2.6	D2.6*L18*55*180°	PMMA(Lollipop)	PB-94	3.0	D3.0*L15*60
	MR-05	2.3	D2.3*L18*55*120°	T-cutter	TC-82	2.0	D2.0*L08*50
	MR-06	2.3	D2.3*L18*55*90°		TC-83	1.8	D1.8*L08*50
	MR-07	2.3	D2.3*L18*55*30°		TC-84	1.5	D1.5*L08*50
	MR-09	2.4	D2.4*L18*55*70°		TC-97	2.3	D2.3*L07*50
	MR-10	2.6	D2.6*L18*55*30°	Flat endmill	MF-15	2.0	D2.0*L18*55
	MR-11	2.4	D2.4*L18*55*140°		MF-45	1.5	D1.5*L07*50
	MR-12	2.6	D2.6*L18*55*90°		MF-71	0.6	D0.6*L05*50
	MR-13	2.7	D2.7*L18*55*70°	Bullnose mill	MFR-44	1.5	D1.5*L05*R0.1*50
	MR-14	2.3	D2.3*L18*55*70°		MFR-66	1.5	D1.5*L14*R0.2*50
	MR-15	2.3	D2.3*L18*55*180°		MFR-43	2.0	D2.0*L18*R0.2*55
MR-16	2.4	D2.4*L18*55*90°	Thread	TH-69	M2.0*P0.4	M2.0*P0.4	
MD-18	1.5	D1.5*L14*50		TH-70	M1.4*P0.3	M1.4*P0.3	
MD-19	2.0	D2.0*L18*55		TH-95	M1.8*P0.35	M1.8*P0.35	
MD-73	1.1	D1.1*L05*50		TH-99	M1.6*P0.35	M1.6*P0.35	
Zirconia (Long)	ZB-85	2.0	D2.0*L25*60				
	ZB-86	1.0	D1.0*L20*60				
	ZB-87	0.6	D0.6*L10*60				

# ARUM 5X-500L

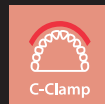
12  
Magazine



Wet



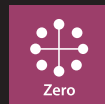
Dry



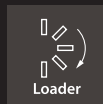
C-Clamp



Auto Calibration

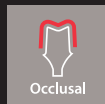


Zero

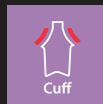


Loader

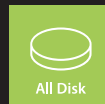
20  
Tool



Occlusal



Cuff



All Disk



CAD Block



Pre-milled



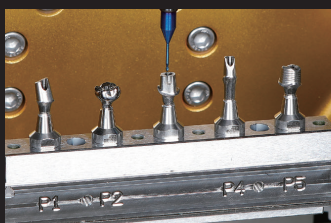
## European Milling Strategy Set-up

For more than 800 implant connections.

## Modified to Maximise Production

magazine space for 12 jigs, 12 disks, 72 pre-milled blanks, 72 cad blocks.

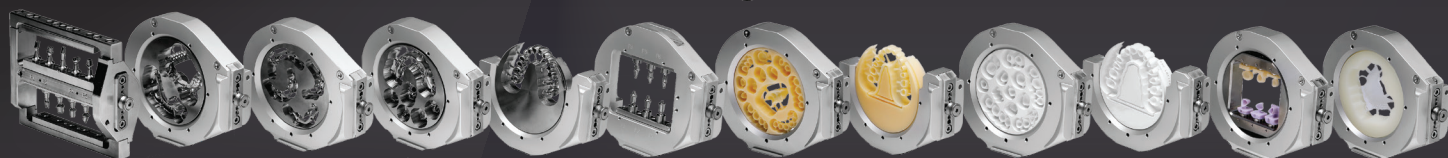
## Connectorless Abutment Milling + Attachment



## Others

Leading stability and minimise the vibration while milling and high quality of outcome.

## Various Types of Jigs Available



24-hrs operating  
Non-stop production



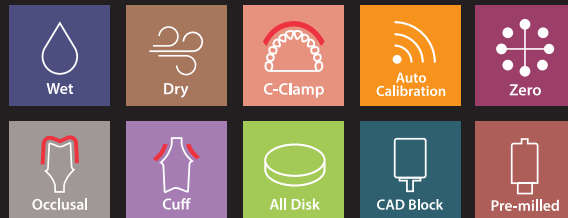
## Materials & Applications Info.

Materials		Applications	
Pre-milled Blank	◎ (over 10ea)	Implant Bar	◎
Co-Cr & Ni-Cr Disk	○	Screw-Retained Bridge (Crown & Coping)	◎
Titanium Disk	◎	Customized Abutment	◎
Lithium Disilicate	○	Hybrid Abutment	◎
Nanocomposite	◎	Inlay & Onlay	◎
Zirconia	◎	Crown & Coping	◎
PMMA	◎	Crown & Coping Bridge	◎
PEEK	◎	Model	◎
Wax	◎	Bite Splint	◎
		Denture	◎

◎: High Compatibility / ○: Compatibility / X: Non-Compatibility

# ARUM 5X-500

20  
Tool



Open System

Built-in Control PC

Easy access the teamviewer to increase efficiency.

Machine Hard and Soft Materials

Including CoCr, titanium, stainless, glass-ceramics, zirconia, PMMA and More.



Straumann Original Premill Milling Available

Straumann PMAB holder.



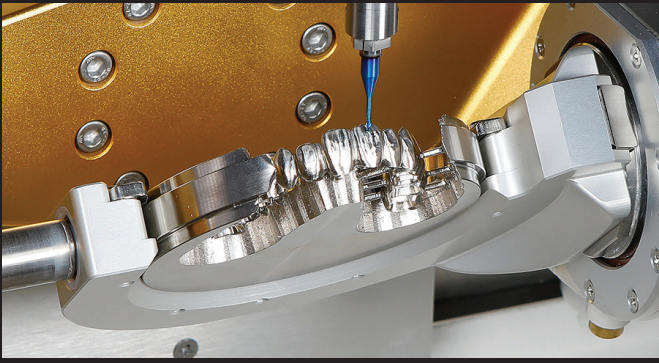
5-Axis

Simultaneous machining including undercuts.

## Materials & Applications Info.

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

◎: High Compatibility / ○: Compatibility / X: Non-Compatibility



### 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.



### 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.

## Specifications

Axis	5 Axis	Drive Mechanism	Ball Screw	
Processing	Wet and Dry	Way System	Linear Guide	
Spindle Power	AC 3.6kw	Machine Size (W*D*H)	689*918*839mm	
Max. RPM	60,000	Total Size (W*D*H)	689*918*1706mm	
A.T.C	20	Weight (Machine / Table)	230kg / 65kg	
Tool Shank (mm)	Ø6	Travel	X,Y,Z axis	227.5*125*131mm
Motor	Servo		A / B axis	360° / +40° ~ -31.5°

## Tool List

Material	Code	Ø	Size	Material	Code	Ø	Size
Zirconia	ZB-05	2.0	D2.0*L20*55	Glass ceramic	DG-21	1.0	D1.0*L10*50
	ZB-06	1.0	D1.0*L14*53		DG-22	0.6	D0.6*L08*50
	ZB-07	0.6	D0.6*L08*50		DG-37	2.5	D2.5*L12*50
	ZB-78	0.3	D0.3*L1.5*50		DG-38	1.5	D1.5*L10*50
Metal (Premilled Blank/Disk)	MB-09	3.0	D3.0*L12*50	PMMA(Long)	PB-88	3.0	D3.0*L20*55
	MB-10	2.0	D2.0*L12*50		PB-89	2.0	D2.0*L20*55
	MB-11	1.5	D1.5*L10*50		PB-90	1.5	D1.5*L18*58
	MB-12	1.0	D1.0*L10*50		PB-91	1.0	D1.0*L13*55
Metal(Disk)	MB-14	0.6	D0.6*L03*50	PB-92	0.6	D0.6*L10*55	
Metal (Reamer)	MR-01	3.5	D3.5*L18*55*180°	PMMA(Denture)	PB-93	4.5	D4.5*L25*60
	MR-02	2.6	D2.6*L18*55*180°	PMMA(Lollipop)	PB-94	3.0	D3.0*L15*60
	MR-05	2.3	D2.3*L18*55*120°	T-cutter	TC-82	2.0	D2.0*L08*50
	MR-06	2.3	D2.3*L18*55*90°		TC-83	1.8	D1.8*L08*50
	MR-07	2.3	D2.3*L18*55*30°		TC-84	1.5	D1.5*L08*50
	MR-09	2.4	D2.4*L18*55*70°		TC-97	2.3	D2.3*L07*50
	MR-10	2.6	D2.6*L18*55*30°	Flat endmill	MF-15	2.0	D2.0*L18*55
	MR-11	2.4	D2.4*L18*55*140°		MF-45	1.5	D1.5*L07*50
	MR-12	2.6	D2.6*L18*55*90°		MF-71	0.6	D0.6*L05*50
	MR-13	2.7	D2.7*L18*55*70°	Bullnose mill	MFR-44	1.5	D1.5*L05*R0.1*50
	MR-14	2.3	D2.3*L18*55*70°		MFR-66	1.5	D1.5*L14*R0.2*50
	MR-15	2.3	D2.3*L18*55*180°		MFR-43	2.0	D2.0*L18*R0.2*55
MR-16	2.4	D2.4*L18*55*90°	Thread	TH-69	M2.0*P0.4	M2.0*P0.4	
MD-18	1.5	D1.5*L14*50		TH-70	M1.4*P0.3	M1.4*P0.3	
MD-19	2.0	D2.0*L18*55		TH-95	M1.8*P0.35	M1.8*P0.35	
MD-73	1.1	D1.1*L05*50		TH-99	M1.6*P0.35	M1.6*P0.35	
Zirconia (Long)	ZB-85	2.0	D2.0*L25*60				
	ZB-86	1.0	D1.0*L20*60				
	ZB-87	0.6	D0.6*L10*60				

**WE SHARE THE EXPERIENCE**  
with  
**PERFECTION**

**GET IN TOUCH**

---

**Arum Europe GmbH**

Am Kronberger Hang 2  
65824 Schwalbach am Taunus  
Germany

+49 (0)6196 9695 675(6)  
info@arumeurope.com  
www.arumdentalshop.com

**Arum 3D Solutions Ltd.**

26C Lyon Road Walton-on-Thames  
KT12 3PU  
United Kingdom

+44 (0)207 388 1390  
info@arumdental.com  
www.arumdental.com



Scan me for whatsapp!