

# FAITHFUL MILL FOR MAIN PROSTHESIS



The 5-axis milling machine for wet and dry machining.

  
**kızılırmak**  
Lab. Mal. ve Diş Deposu  
San. ve Tic. Ltd. Şti.



## ARUM 450 series

**750+**  
IMPLANT  
CONNECTIONS

TOTAL CAD/CAM  
SOLUTIONS



**ARUM**

# ARUM Milling Machine Line-up



Metal Disk [ 750+ 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 2.2kw	AC 2.2kw	DC 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)	1100*910*1735mm	710*910*1695mm	800*950*1760mm	790*790*1645mm
Weight (Machine / Table)	330kg / 87kg	230kg / 65kg	270kg / 135kg	185kg / 65kg
Travel	X, Y, Z axis	228*128*130mm	228*128*130mm	245*116*130mm
	A / B axis	360° / ±30°	360° / ±30°	360° / ±35°
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 0.5kw	AC 0.5kw
6	0	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
790*790*1645mm	570*655*1625mm	570*620*1580mm	570*620*640mm
185kg / 65kg	100kg / 65kg	90kg / 65kg	90kg / -
245*116*130mm	145*110*85mm	159*120*90mm	159*120*90mm
360° / -	±35° / 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	○	◎	◎

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

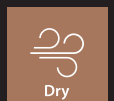
# ARUM

## 5X-450 / 4X-450

5X-450



Wet



Dry



All Disk

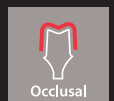


CAD Block

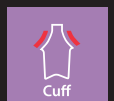
4X-450



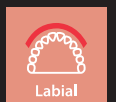
Wet



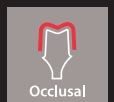
Occlusal



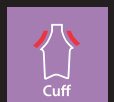
Cuff



Labial



Occlusal



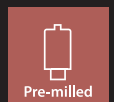
Cuff



5Axis



Connectorless



Pre-milled



4Axis



### European Milling Strategy Set-up

[5X-450]  
For more than 750 implant connections.

### Solid Machine Frame for Incomparable Quality



### C-Clamp

[5X-450]  
C-Clamp for efficiency and quality.



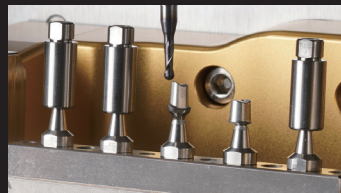
### 5-Axis

[5X-450]  
5-Axis simultaneous machining including undercuts.



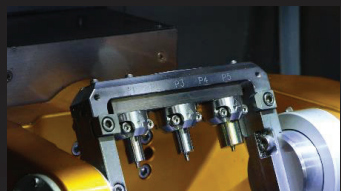
### Connectorless Premill Milling

[5X-450] 5ea [4X-450] 10ea



### Straumann Original Pre-mill Milling Available

[5X-450] Straumann PMAB holder.



### Machine Hard and Soft Materials up to Titanium

## Materials & Applications Info.

Materials			Applications		
Model	5X-450	4X-450	Model	5X-450	4X-450
Pre-milled Blank	◎ (5ea)	◎ (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



### [5X-450] Precision Machining Using AT Cartridge

In addition to simple top & bottom side machining, you can machine cuff side (Gingival side), occlusal side, and retention groove using AT Cartridge.

### [4X-450] Differentiated Pre-milled Blank Machining

You can mount 10 pre-milled blanks and machine them simultaneously, and machine the cuff side (Gingival side) and occlusal side area using A-axis 90° rotation in an optimal condition.

## Specifications

Model	5X-450	4X-450	Model	5X-450	4X-450	
Axis	5-Axis	4-Axis	Drive Mechanism	Ball Screw	Ball Screw	
Processing	Wet and Dry	Wet and Dry	Way System	Linear Guide	Linear Guide	
Spindle Power	AC 1.28kw	AC 1.8kw	Machine Size (W*D*H)	790*790*790mm	790*790*790mm	
Max. RPM	60,000	50,000	Total Size (W*D*H)	790*790*1645mm	790*790*1645mm	
A.T.C	15	6	Weight (Machine / Table)	185kg / 65kg	185kg / 65kg	
Tool Shank (mm)	Ø6	Ø6	Travel	X,Y,Z axis	245*116*130mm	245*116*130mm
Motor	Stepping	Stepping		A / B axis	360° / ±35°	360° / -

## Tool List

	Code	Size	Code	Size	Code	Size
Basic	ZB-05	D2.0*L20*55	MB-14	D0.6*L03*50	MF-15	D2.0*L18*55
	ZB-06	D1.0*L14*53	MD-18	D1.5*L14*50	MF-45	D1.5*L07*50
	ZB-07	D0.6*L08*50	MD-19	D2.0*L18*55	MF-71	D0.6*L05*50
	MB-09	D3.0*L12*50	DG-21	D1.0*L10*50	MFR-44	D1.5*L05*R0.1*50
	MB-10	D2.0*L12*50	DG-22	D0.6*L08*50	MFR-66	D1.5*L14*50
	MB-11	D1.5*L10*50	DG-37	D2.5*L12*50	MTR-72	M2*P0.4
	MB-12	D1.0*L10*50	DG-38	D1.5*L10*50		
Special	Code	Size	Code	Size	Code	Size
	ZB-01	D2.0*L20*63(Dia)	TC-41	D1.5*L08*50	MR-06	D2.3*L18*55*90°
	ZB-01A	D2.0*L20*63(DLC)	TC-42	D1.8*L08*50	MR-07	D2.3*L18*55*30°
	ZB-02	D1.0*L16*63(Dia)	MD-73	D1.1*L05*50	MR-09	D2.4*L18*55*70°
	ZB-02A	D1.0*L16*63(DLC)	MFR-43	D2.0*L18*R0.2*55	MR-10	D2.6*L18*55*30°
	ZB-03	D0.6*L13*63	MFR_66	D1.5*L14*50	MR-11	D2.4*L18*55*140°
	ZB-04	D0.3*L1.5*63	MTR-74	M1.4*P0.3	MR-12	D2.6*L18*55*90°
	ZB_08	D0.5*L08*50*6°	TH-69	M2.0*P0.4	MR-13	D2.7*L18*55*70°
	ZB-77	D3.0*L20*50	TH-70	M1.4*P0.3	MR-14	D2.3*L18*55*70°
	ZB-78	D0.3*L1.5*50	MR-01	D3.5*L18*55*180°	MR-15	D2.3*L18*55*180°
	MB-67	D1.5*L16*52	MR-02	D2.6*L18*55*180°	MR-16	D2.4*L18*55*90°
	TC-40	D2.0*L08*50	MR-05	D2.3*L18*55*120°		

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Lab. Mal. ve Diş Deposu  
San. ve Tic. Ltd. Şti.

Altındağ Mah. 147 Sok. Ege Apt. No:21/A  
Muratpaşa / ANTALYA -TÜRKİYE

Tel: +90 242 248 60 01 -02  
Tel: +90 242 248 59 23  
www.kizilirmakdis.com  
kizilirmakdis@hotmail.com

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



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