

TORNOS



*Very high-precision
machining centers*

PRODUCT RANGE

CU range

CU 2007 and CU 3007

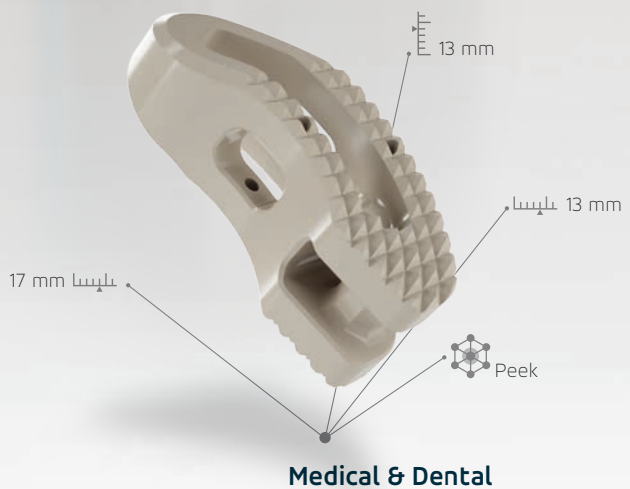
The gateway to 3-7-axis machining

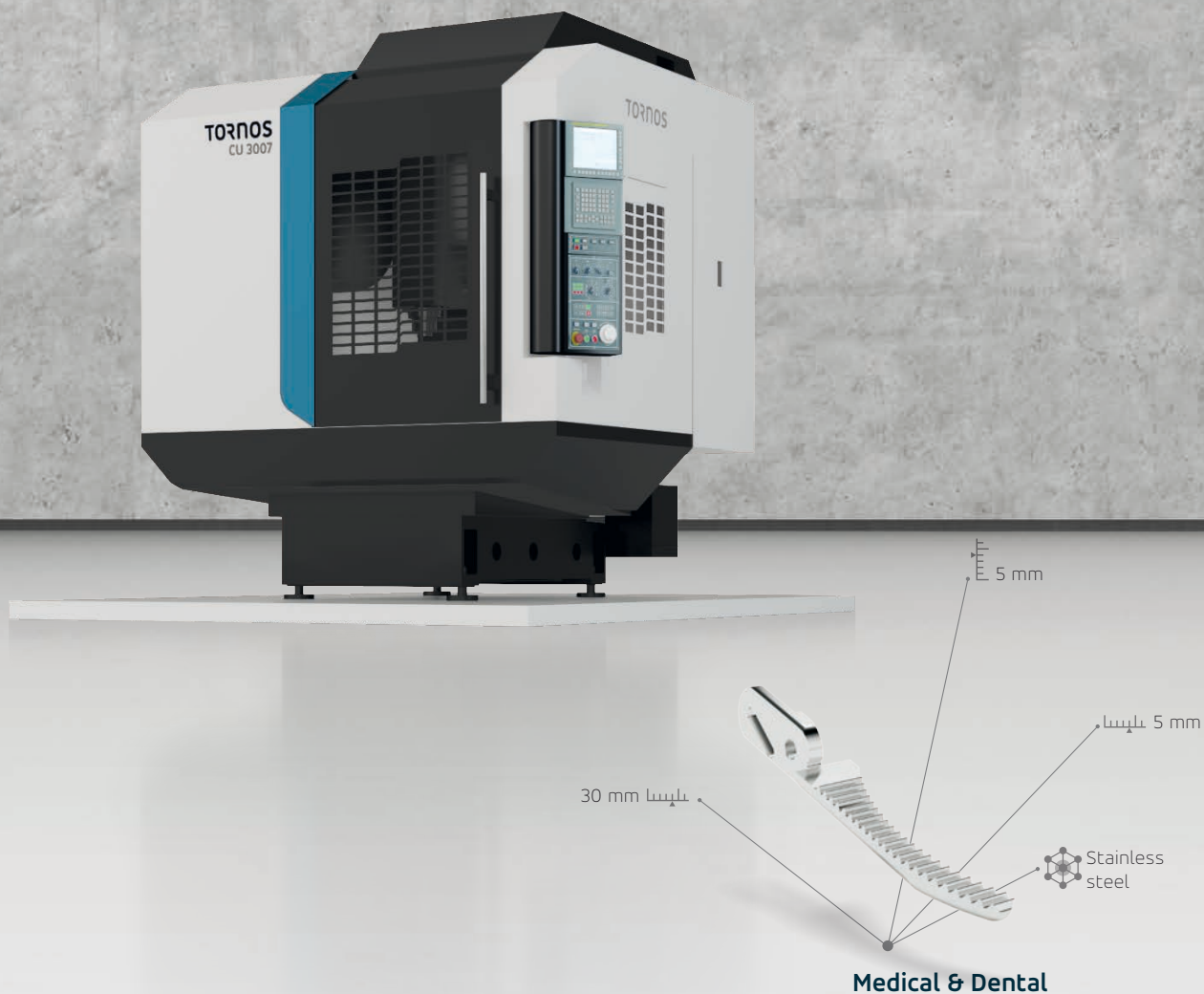
The CU 2007 and CU 3007 combine dynamic performance and outstanding reliability with Swiss expertise and precision, enabling Almac to offer its customers a truly innovative solution. The comprehensive standard equipment, combined with the expertise of the company's engineers, creates the optimal conditions for producing complex workpieces.



Advantages

- High-performance 3-7-axis machining
- Ultra-quick tool changes
- Different integrated automation systems depending on the workpiece requirements
- External robotisation on request
- Machining of short bars up to Ø 27 mm
- 60 m/min rapid feed rate
- Spindle up to 40,000 rpm
- Throughspindle cooling





in brief		CU 2007	CU 3007
Number of linear axes		3 to 7 simultaneous	3 to 7 simultaneous
X/Y/Z axes	mm	500/400/470	700/400/470
Number of tools	tools	16/24/40	16/24/40
Tool holder		BBT 30/HSK E40	BBT 30/HSK E40
Spindle max. speed	rpm	12000, 20000 ou 40000	12000, 20000 ou 40000
Rapid feed	m/min	60	60
Work table dimensions	mm	650 x 400	850x400
Control type		Fanuc OiMD/31iB/31iB-5	Fanuc OiMD/31iB/31iB-5
PA/PR precision	µm	6/3	6/3
Overall dimensions (L x W x H)	mm	1580 x 2450 x 2410	2100 x 2450 x 2410
Weight	kg	2500	3000

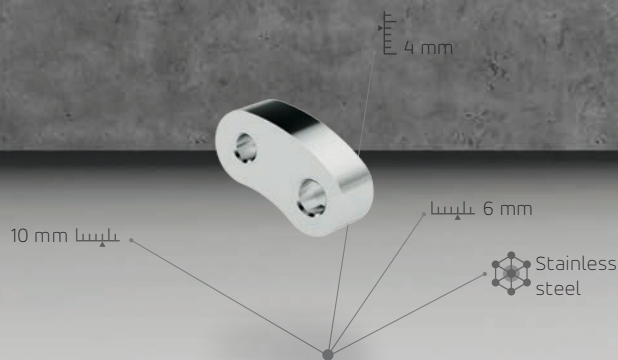
BA range

BA 1008

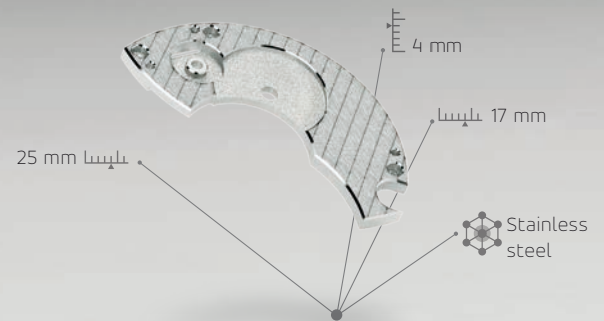
The ultra-compact bar miller

3-8-axis horizontal machining center for machining bars

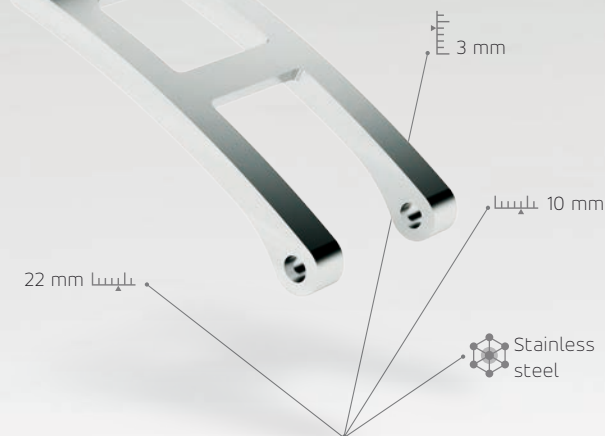
The BA 1008 is fed with bars via the machine, using a divider system which allows workpieces up to a diameter of 16 mm to be loaded. Positioned machining operations and interpolation between the tool systems and the workpiece are easily possible. With 4 frontal spindles, 3 lateral spindles and 2 secondary operation spindles, the BA 1008 is well equipped to tackle any challenges.



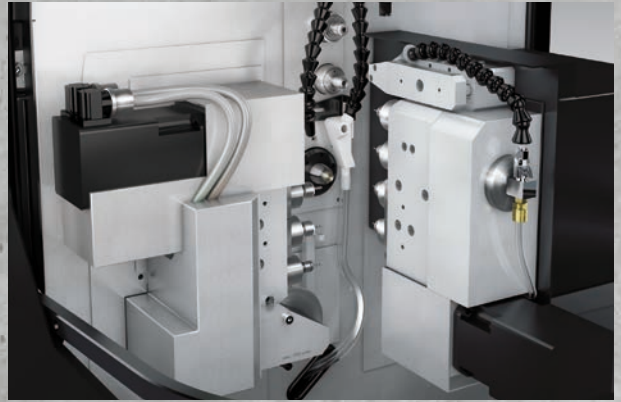
Micromechanics



Micromechanics



Micromechanics



BA 1008



Advantages

- Ergonomics based on the famous Tornos SwissNano
- High productivity
- Reduced dimensions
- Excellent value for money

in brief

BA 1008

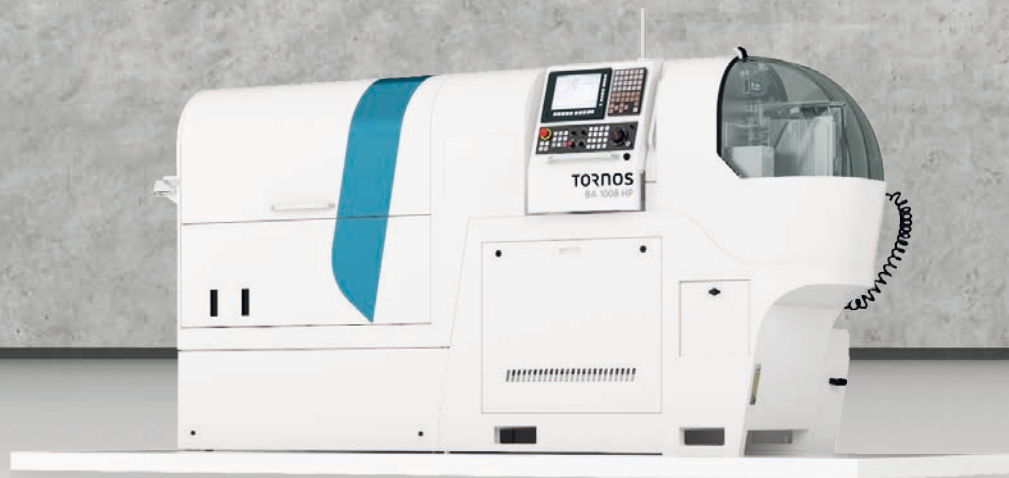
Number of axes	axes	6 linéaires + 1 axe C + 1 axe B (option)
U/V/W travel	mm	26/160/200
Max. bar capacity (F22 nose collet)		16
Maximum number of tools		10
Front spindles	rpm	4 x 12,000 spindles (mechanical) 28,000 (HF) or 80,000 (HF)
Lateral spindles	rpm	3 x 12,000 spindles (mechanical) 28,000 (HF) or 80,000 (HF)
Secondary operation	rpm	2 x 28,000 (HF) or 80,000 (HF) spindles
Sectioning tool		1 outil (Ø 80mm)
Control type		Fanuc OiMD/OiMF
Dimensions L x W x H	mm	2400 x 650 x 1600
Weight	kg	950

BA range

BA 1008 HP

Optimal management of fluids, workpieces and swarf

The BA 1008 range has been extended with the BA 1008HP. Like the BA 1008 machining centre, the BA 1008HP is fed with bars and equipped with 4 frontal spindles, 3 lateral spindles and 2 secondary operation spindles. The BA 1008 HP integrates a complete through-spindle cooling module for faster and even more precise machining operations.



Advantages

- Ergonomics and design based on the BA 1008
- Throughspindle cooling and high pressure (120 bars)
- Optimal fluid and chips management
- Precious metal machining

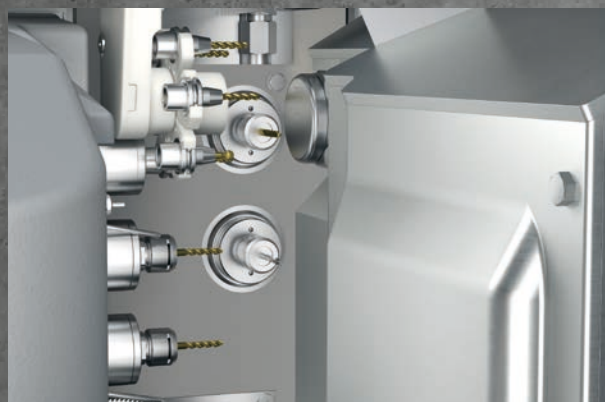
in brief		BA 1008 HP
Number of axes	axes	6 linear + 1 C axis + 1 B axis
U/V/W travel	mm	26/160/200
Max. bar capacity (F22 nose collet)		16
Maximum number of tools		10
Front spindles	rpm	4 x 12,000 spindles (mechanical) 28,000 (HF or HP) or 80,000 (HF)
Lateral spindles	rpm	3 x 12,000 spindles (mechanical) 8,000 (HF) or 80,000 (HF)
Secondary operation	rpm	2 x 28,000 (HF or HF/HP) or 80,000 (HF)
Sectioning tool		1 tool (Ø 80 mm)
Control type		Fanuc OiMD/OiMF
Dimensions L x W x H	mm	3200 x 650 x 1690
Weight	kg	1200

BA 1008 XT

A machine for even the most complex parts, equipped with up to two tools changers

The XT version has an integrated tool change solution. This key asset enables increasingly complex parts to be produced in record time!

The configuration of the BA 1008 XT significantly increases the machining options, enabling the manufacture of parts previously impossible to produce. It can house up to 8 spindles and two tool changers for a maximum capacity of 23 tools.



Lateral spindle: Tool changer with 6-positions



Frontal spindle: Tool changer with 10-positions

Advantages

- 23 tools in total
- Ultra-small footprint
- High productivity thanks to multi-spindle technology
- Optimal chip management

in brief

BA 1008 XT

Number of axes	axes	6 linear + 1 C axis
U/V/W travel	mm	26/160/200
Max. bar capacity		16 (F22)/28 (F35)*
Maximum number of tools		23
Front spindle block		Up to 3 spindles (mechanical, HF* or HF auto*)
Tool changer for frontal spindle		10 tools
Lateral spindle block		Up to 3 spindles (mechanical, HF* or HF auto*)
Tool changer for lateral spindle		6 tools
Sectioning tool		Ø80 mm tools, up to 8000 rpm
Pickup spindle unit		Up to 2 HF spindles
Mechanical spindles rotational speed	rpm	12,000 (ER11)
HF spindles rotational speed	rpm	28,000 (ER11) or 80,000 (ER8)
HF auto spindles rotational speed	rpm	28,000 (E15-ER11)
Part clamping types		Pickup collet/Pickup vice*
Control type		Fanuc OiMD/OiMF
Dimensions L x W x H	mm	2400 x 650 x 1600
Weight	kg	950

* option

We keep you turning

mgc

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TORNOS LTD

Rue Industrielle 111
P.O. Box 960
2740 Moutier / Switzerland
T +41 (0)32 494 44 44
contact@tornos.com

tornos.com

Tornos
throughout
the world

