



Customer:



Mega Alu Power Test



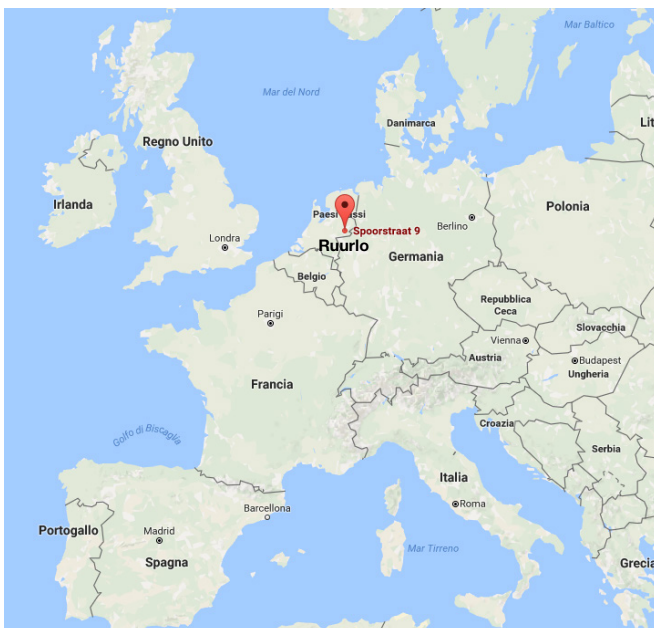
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MEVO Precision Technology

Mevo Precision Technology specializes in producing fine mechanical components and assembling complete products for the high-tech industry. The high quality products which Mevo manufactures are used for measurement and control instruments, optical instruments, special machine construction, in the automobile industry and the medical industry. The majority of Mevo's products are made of stainless steel. In addition, aluminum, bronze, brass, titanium, hastelloy and monel are also processed.



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TEST SUPERVISOR



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(Iscar/UOP)
Product Manager Solidtools



**STEPHAN
SLINGERLAND**

(Iscar)
Technical Sales



**JOERI
VERHAEGH**

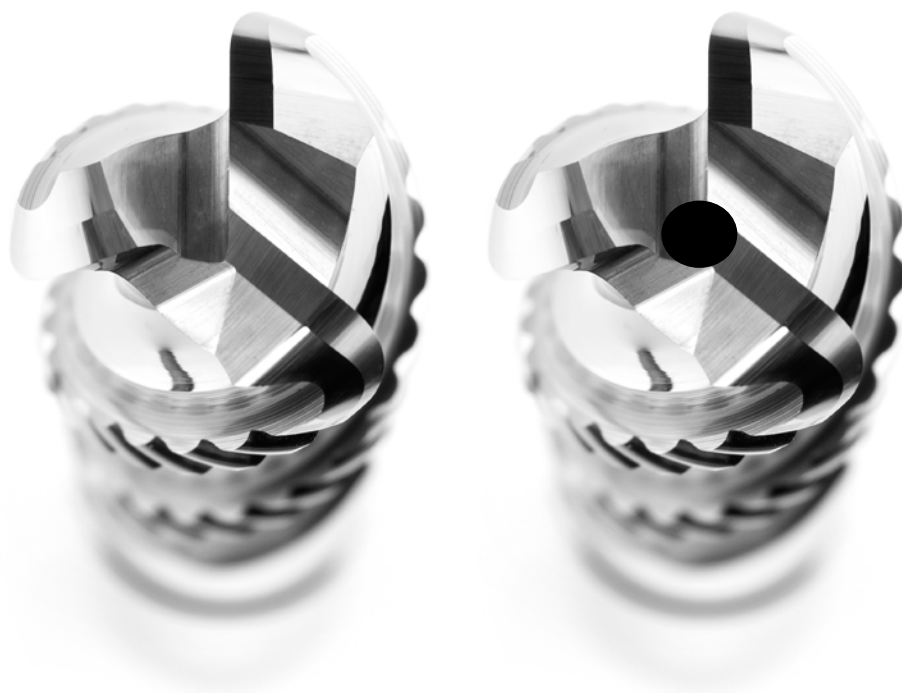
(Mevo)
CAD/CAM programming

HORIZONTAL CENTER NEXUS 5000-II



CAPACITY	Maximum workpiece diameter	800 mm
	Maximum workpiece height	1,000 mm
	X-axis travel (column right and left)	730 mm
	Y-axis travel (spindle up and down)	730 mm
	Z-axis travel (table back and forth)	800 mm
SPINDLE (standard)	Spindle taper hole	7/14 cono No. 40
	Spindle speed maximum	18,000 min ⁻¹
	Main motor (40% ED rating)	35.0 kW
	Main motor (continuous rating)	26.0 kW
FEED RATES	Rapid traverse (X/Y/Z)	60,000 mm/min
TABLE & PALLET	Pallet width	500 mm
	Pallet length	500 mm
ATC TOOL MAGAZINE	No. of tool pockets (standard)	40
	Tool shank	DIN69871 - ISO40
MACHINE SIZE	Width	2,444 mm
	Length	4,943 mm

OUR SOLUTION



Mega | Alu
Power

part of **MegaTool**



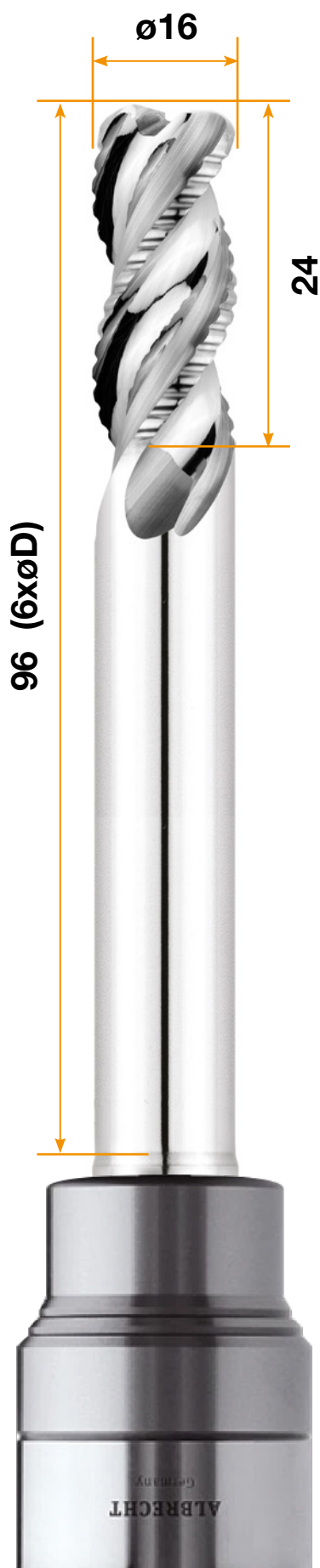
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BEST SOLUTIONS FOR ALUMINIUM AND METAL CUTTING

www.megatool.it

6 X Ø SEMI-STANDARD



mega | Alu Power



MEGA ALU POWER (Internal Coolant)

6 x Ø IC (Semi Standard)
797ALUCBICR081602 KM

5 x Ø IC
797ALUCBICR081601 KM

4 x Ø IC
797ALUCBICR081600 KM

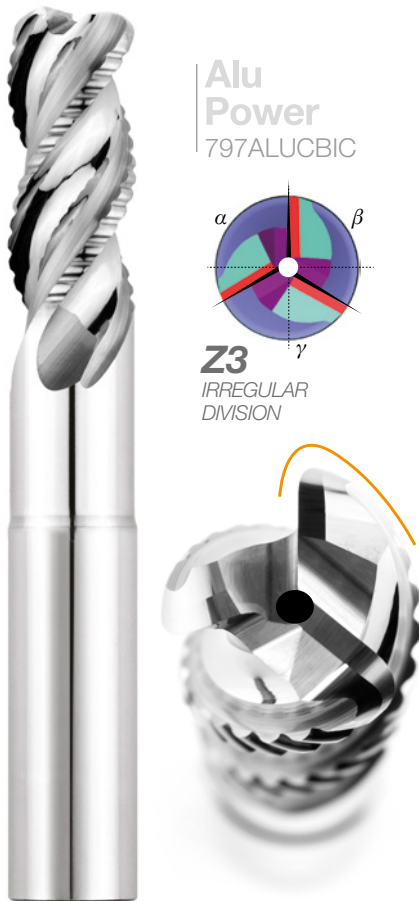
4 x Ø IC (Semi Standard Ap:55)
797ALUCBICR081600XXX KM

STEP #1 (4 X Ø)



MEGA ALU POWER Ø16 4xØ IC (Internal Coolant)

Clamping Din 69871 ISO40 Albrecht power chuck
Dø16 64 / 35 R:0,8
797ALUCBICR081600 KM



TECHNICAL DATA

PARAMETERS	FULL SLOT	60% x Ø shoulder
Ø (diameter)	16	16
Z (teeth)	3	3
A _p (mm)	24 mm	24 mm
A _e (mm)	16 mm	10 mm
N (omw/min)	17.500	17.500
f _z (mm/tooth)	0,12	0,12
V _f (mm/min)	6.000	6.000
Q (cm ³ /min)	2.304	1.440

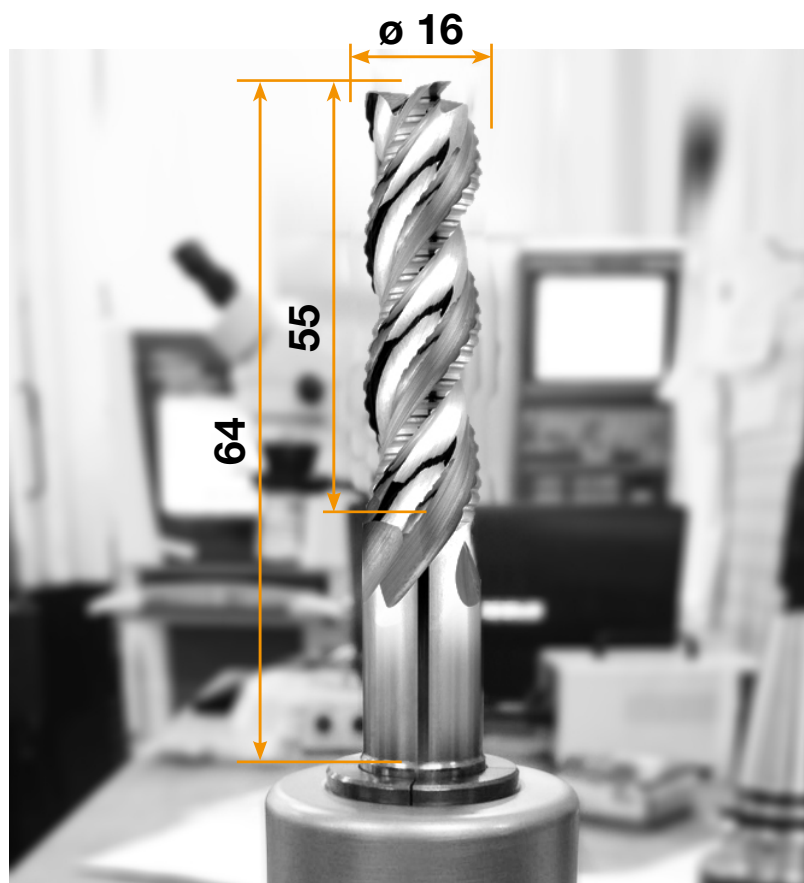
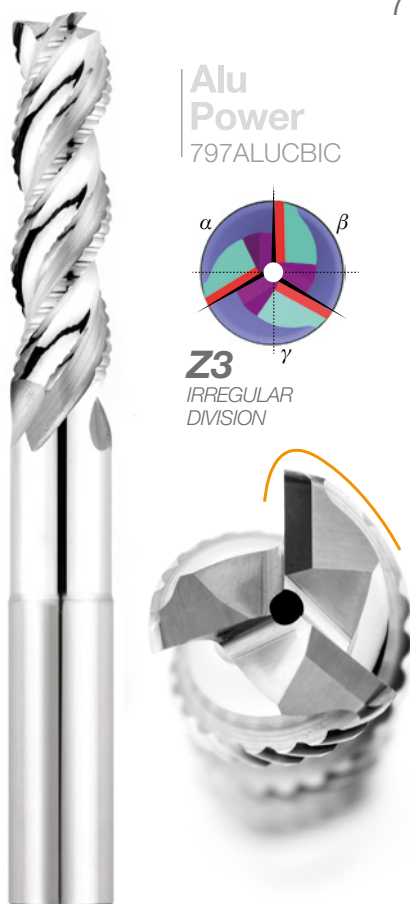
98% max power machine

STEP #2 (4 X Ø)



MEGA ALU POWER Ø16 4xØ IC SEMI-STANDARD (Internal Coolant)

Clamping Din 69871 ISO40 Albrecht power chuck
Dø16 64 / **55** R:0,8
797ALUCBICR081600**XXX** KM



TECHNICAL DATA

PARAMETERS	FULL SLOT	60% x Ø shoulder
Ø (diameter)	16	16
Z (teeth)	3	3
A _p (mm)	48 mm	48 mm
A _e (mm)	16 mm	10 mm
N (omw/min)	17.500	17.500
f _z (mm/tooth)	0,058	0,058
V _f (mm/min)	3.000	3.000
Q (cm ³ /min)	2.304	1.440

120% max power machine

STEP #3 (5 X Ø)

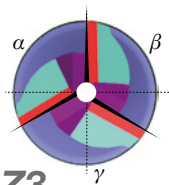


MEGA ALU POWER Ø16 5xØ IC (Internal Coolant)

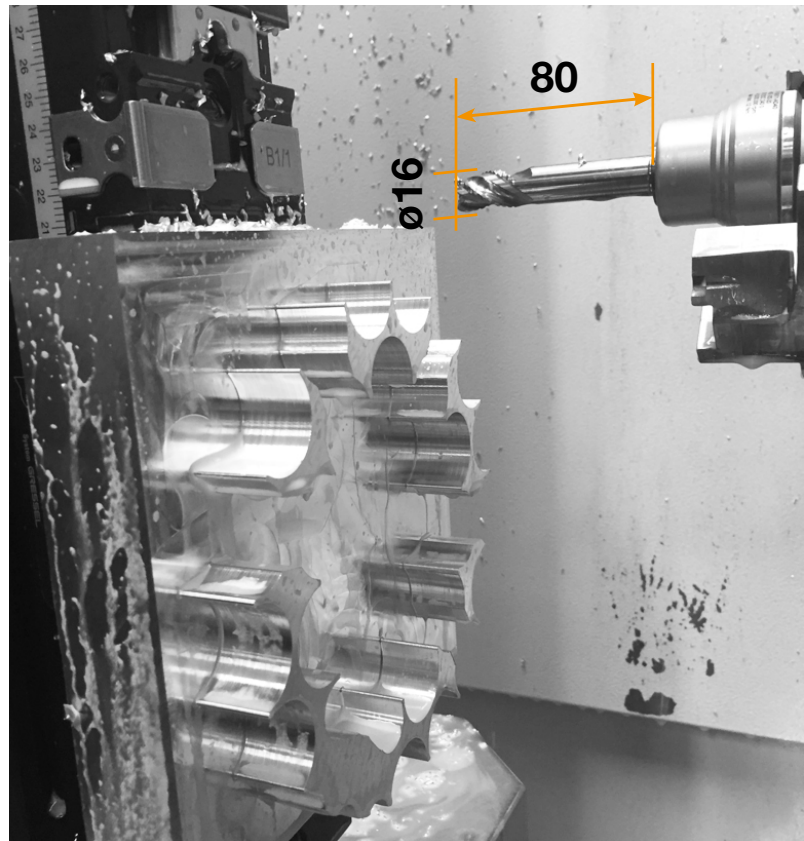
Clamping Din 69871 ISO40 Albrecht power chuck
DØ16 80 / 24 R:0,8
797ALUCBICR081601 KM



Alu
Power
797ALUCBIC



Z3
IRREGULAR
DIVISION



TECHNICAL DATA

PARAMETERS	FULL SLOT	60% x Ø shoulder
Ø (diameter)	16	16
Z (teeth)	3	3
A _p (mm)	24 mm	24 mm
A _e (mm)	16 mm	10 mm
N (omw/min)	17.500	17.500
f _z (mm/tooth)	0,067	0,067
V _f (mm/min)	3.500	3.500
Q (cm ³ /min)	1.344	840

74% max power machine

STEP #4 (6 X Ø)

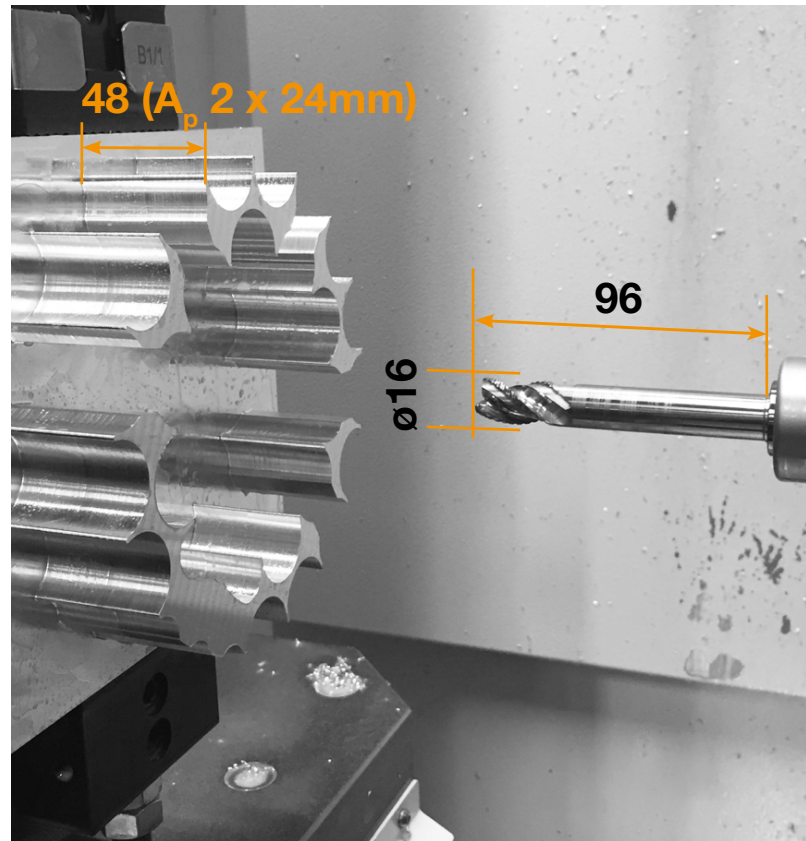
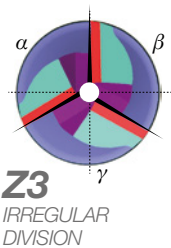


MEGA ALU POWER Ø16 6xØ IC SEMI-STANDARD (Internal Coolant)

Clamping Din 69871 ISO40 Albrecht power chuck
Dø16 96 / 24 R:0,8
797ALUCBICR081602XXX KM



Alu
Power
797ALUCBIC



TECHNICAL DATA

PARAMETERS	FULL SLOT	60% x Ø shoulder
Ø (diameter)	16	16
Z (teeth)	3	3
A _p (mm)	24 mm	24 mm
A _e (mm)	16 mm	10 mm
N (omw/min)	17.500	17.500
f _z (mm/tooth)	0,067	0,067
V _f (mm/min)	3.500	3.500
Q (cm ³ /min)	1.344	840

74% max power machine

MEGA ALU POWER END MILLS CHARACTERISTICS AND BENEFITS



Mega | Alu Power



- *Noise reduction*
- *Resonance reduction*
- *Vibrationless* (due to a unique geometry)
- *High chip removal rate* (overhang up to 6xD)
- *Perfect control of chip evacuation*
(thanks to the combination of mirror ground flutes and internal coolant feeding)
- *Less power required*

ASYMMETRIC CHIPBREAKER

The bigger the chips, the more difficult it is to evacuate them. Thinner and shorter chips weigh less than standard chips, which helps the coolant system to remove chips from the pocket, even in low coolant pressure conditions. A clean pocket is an advantage for tools in order to avoid chip jamming.



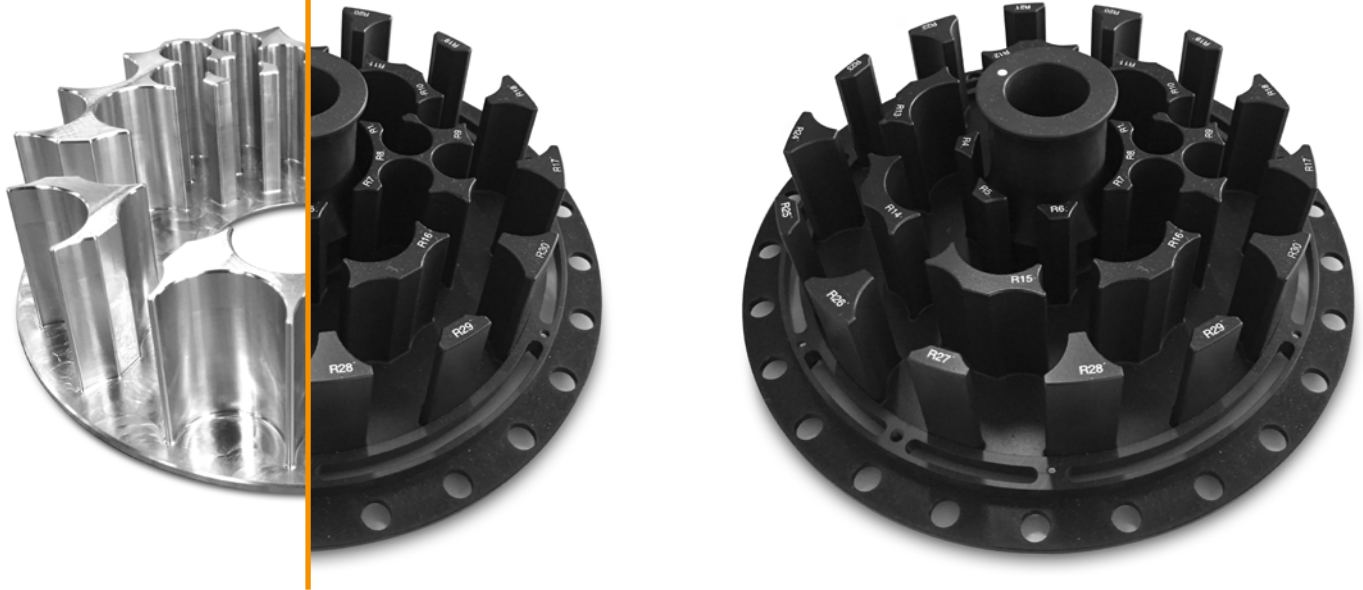
MEGA ALU POWER CHIP SIZE

STANDARD CHIP SIZE

Mega | Alu Power

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Member IMC Group

FINAL RESULTS



DESCRIPTION OF THE WORKED PIECE

This product is used for blood analysis equipment.

In the pockets which are shown, several tubes are inserted which contain blood. On the other side, tubes with reagents are inserted.

A fully automated machine uses a needle to suck the reagents from one tube and add it to the blood filled tubes. Using this method, 360 blood tests per hour can be performed.

Since a lot of material has to be removed during the manufacturing of this product, there is a chance that the product will bend.

To avoid this from happening, the product is being made from ACP5080.



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Company subject to the management and coordination of IMC Iscar Metalworking Companies B.V.

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