

MultiAlpha 8x20: Universal customization – now a reality!

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In order to suggest solutions that can be adapted to all requirements, Tornos is working on the concept of customization using elements that are, in the main, standard! The MultiAlpha 8x20, for example, can be supplied with a “pick and place” system incorporated into the machine and which can be deployed in modern, coherent, industrial processes.

Palletization & units

The company offers various pallet sizes and systems that can be adapted to suit all requirements, i.e. swarf evacuation, processing, cooling, pre-setting system and so on. It is important to mention that the combination potential to achieve the optimum is vast and that Tornos is closely involved with other specialist system companies in order to achieve this level of adaptation.

Finishing parts with only one clamping operation

These days, the small parts turning sector is confronted by challenging developments. The parts being produced are becoming more and more complex and there is pressure to make prices more competitive. However, there is now a machine capable of finishing parts at high output without having to rework them on other production machines. This is an undeniable benefit to the operators. The potential of the MultiAlpha 8x20, especially in counter-operation mode, is perfectly in tune with this logic.

Technique

The main technical strengths that should be highlighted include the possibility of machining highly complex parts using powerful motorized spindles, the counter-spindle and its 5 tools and the complete parts handling system, which is incorporated in customized versions. The latest generation of motorized spindles has a very high torque thereby enhancing the machine capacity in terms of machining power. The fact of then being able to fine-tune all the cutting parameters without any compromise whatsoever means that the operators can make full use of the new tools, leaving them to maintain a permanent check on their useful life. All this with a reduced surface area!



While waiting for an opportunity to demonstrate the capabilities of the MultiAlpha 8x20 at the forthcoming Prodex trade fair in Basel from 14th to 18th November 2006, interested parties are welcome at any time to download documentation from the Swiss manufacturer's website www.tornos.com or to contact Tornos specialists directly!

Summary of main benefits:

- Completion of complex parts
- Ideal cutting speed for each position
- Controlled part unloading
- Reduced surface area

Technical characteristics

Principal areas of application	Automotive, electronics, general equipment
Bar passage	22 (25) mm
Max. length of workpiece	100 mm
Max. speed of motorspindle	8000 rpm.
Power of motorspindle	11.2 Kw
Torque rating of motorspindles	17 (25) Nm
Max. speed of counter-spindle	10 000 rpm.
Power of motor / counter spindle	1.8 KW
Motor torque of counter-spindle	7 (20) Nm
Number of linear axes	26
Number of rotational axes:	10 (12)
Number of tools in counter-operation	2 X 5 tools
Spindle cooling	Yes
Numerical controller	Fanuc 30i
Programming system	TB-DECO

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