

MULTIDECO 20/8d: Uncompromising productivity thanks to the twin back operations and motorised spindles

Moutier, 14th September 2005

Traditionally, the production of complex parts passes through several separate industrial stages. This type of production is made much easier with the MULTIDECO 20/8d. In fact, the MULTIDECO 20/8d is an efficient means of production and executes a maximum number of complex parts without having to rework these on other production facilities.

The main new features of the MULTIDECO 20/8d, which TORNOS will present at the EMO in Hanover, on the 14th to 21st September 2005 include:

Motorized spindles to produce the ideal cutting speed and the facility of having positioned stops at each working station. In fact, this is the first machine at TORNOS to be fitted with this technology. The Swiss manufacturer succeeded in finding a solution to overcome the problem of limited power for this type of technology. Thanks to the continuous development of motorised spindles, this machine has the most powerful motors of its category. Because these motorized spindles are independent of one another, this provides exceptional flexibility and the maximum use of tools available on the market.

MULTIDECO 20/8d also has two counter-spindles, each of which is capable of working with 5 tools. This means that the machine can produce highly complicated parts, whilst at the same time contributing to a significant drop in cycle time.

Apart from this, the machine also has 2 manipulators fitted to a numeric axis, which guarantees handling precision, thereby preventing potential damage to the parts caused by impact.

Finally, the optional palletization system can easily be incorporated in the machine, thereby saving space. This means that parts can be packed onto pallets as part of an optimised industrial process in a cost-effective manner, whilst maintaining quality.

In addition to the features of high precision and high output of the MULTIDECO machines, the MULTIDECO 20/8d can meet the growing quality and performance requirements of certain industrial sectors, i.e. the automotive sector.

Owing to the excellent flexibility of the MULTIDECO 20/8d, TORNOS wants to provide the most effective solution in terms of cost, productivity and potential, for each complex part being executed.

MULTIDECO 20/8d – Technical characteristics

Main areas of application	Automotive, electronics, equipment
Bar passage	22 (25) mm
Max. length of part	100 mm
Max. speed of motorised spindles	8,000 rpm.
Power of motorised spindle	11.2 kW
Motorised spindle torque	17 (25) Nm
Max. speed of counter-spindle	10,000 rpm
Counter-spindle motor power	1.8 kW
Counter-spindle motor torque	7 (20) Nm
Number of linear axes	26
Number of rotary axes	10 (12)
Number of tools used for back-operation	2 X 5 tools
Spindle cooling	Yes
Numeric control	Fanuc 30i
Programming system	TB-Deco
Strong points	- 8 motorised spindles running at independent speeds - Twin back operations - 2 numeric manipulators - Integral palletization (optional)