

New 4 axis turning center

## Hydrostatics and 2 turrets turn small parts more efficiently

**Mönchengladbach, September 2013 – Monforts extends its product range of 4-axis lathe. The new RNC 504 offers turning with 2 turrets with a workpiece diameter up to 290 mm. Once again, the outstanding feature of this Monforts machine is its damping hydrostatic guide - the ideal prerequisite for heavy but accurate machining tasks.**

The hydrostatic turning centres from Mönchengladbach are actually better known for machining large and medium sized parts. Monforts has extended its product range with a small version in order to enable the advantages of the hydrostatic guide in combination with efficient 4 axis machining to customers with smaller parts.

Intended applications for this universal lathe are i.e. in the field of drive shafts. If there are difficult cutting conditions by material, hardness, stock or accuracy and a very rigid machine is required – the advantages of the hydrostatic guide will take effect. Shafts often can be machined with 2 turrets in parallel. With this the RNC 504 enables high productive machining.

The machines with the hydrostatic guide have three outstanding features: high rigidity for safe machining of difficult materials, good damping of vibrations and long service life of tools as well as long-term accuracy for long-term, constant product quality. All this is ensured by the hydrostatic circular guide on the Z-axis. The slide with the tool carrier moves on a solid column coated with a thin pressure oil film which prevents metal contact. This avoids the stick-slip effect because friction is minimal with this guide system. Very small travel distances in the  $\mu\text{m}$  range are also possible and the movement is very smooth.

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(Captions:)

Monforts expands its product range: The RNC 504 is a 4 axis lathe for smaller parts

Machining with hydrostatic and 2 turrets: robust, accurate and highly efficient

The secret of long-term accurate machining: the hydrostatic column guide of the Z axis. It ensures a high level of damping, non-wear and prevents stick-slip effects over short travel distances

Photos: Monforts

Monforts Werkzeugmaschinen GmbH manufactures a comprehensive range of high performance CNC turning centres with various configuration options for machining with sub spindles or 4 axes and flexible turning and milling centres with 5 axis machining. A special feature of all machines is the hydrostatic guide with a 10 year warranty on wear. Almost all modern machining processes can be performed on Monforts turning centres.

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