

DIVIDING UNITS AND SPECIAL SOLUTIONS

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SPECIAL SOLUTIONS

The Hofmann product segment, when it comes to **automation**, **cost savings** and **large quantities** in your production.

HOFMANN Mess- und Teiltechnik has developed and established the product segment special solutions as a further mainstay. With the extension of a Hofmann additional axis from the product segment special solutions, productivity of machining centers from different manufacturers can be increased efficiently.

A recent project in which Hofmann Mess- und Teiltechnik demonstrates their competence is shown here with this RWNC-300 LD additional axis, with double spindle and both sided 2-way rotary distributor, for hydraulic workpiece clamping in a clamping device.

Special features of our customized solutions:

- Design of a Hofmann special solution will be done in close dialogue with the customer
- Almost no limitation in design and construction
- Solid and rigid construction to achieve high cutting data
- Use of proven and reliable components from the standard Hofmann dividing units

Purpose/Applications:

- Production of large quantities
- Saving of set up- and tool change times
- Use on special machines
- Processing outside of defined standard solutions
- Retrofitting, flexibility and improved performance of existing machine concepts.



HOFMANN RWNC-300LD additional axis, with double spindle and both sided 2-way rotary distributor, for hydraulic workpiece clamping in a clamping device.



HOFMANN RWNC-160/6 on a Heller MC5000 machining spindle with six workpiece spindles



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INTEGRATED E-CLAMP-SYSTEM FOR RWNC-160 INDEXING DEVICES

At AMB 2014 trade fair held in the German town of Stuttgart, Hofmann Mess- und Teiltechnik will present a worldwide new kind of electro-hydraulic clamping system for indexing spindle clamping of NC rotary tables and NC indexing devices.

Usually, NC indexing devices use worm gears in order to pass on the rotary movement of the servo drive with corresponding gear reduction to the indexing spindle. Without the indexing spindle clamp, the machining force developing during metal cutting would act entirely on the worm gear, which would lead to an early wear of the worm gear.

For this reason, NC indexing devices use hydraulic clamping systems which after positioning clamp the indexing spindle. Thus, no machining forces can act mechanically on the worm gear.

So far, the hydraulic pressure for the clamping system has been provided as follows:

- by the hydraulic unit of the machining centre
- by additional external hydraulic units
- by pneumatic / hydraulic pressure intensifier

With the new patented e-clamp system of Hofmann Mess- und Teiltechnik, no additional and expensive pressure medium has to be added from the outside. The production of the hydraulic pressure required for the clamping process is effected independently and completely within the dividing unit. On the machine side, only a 24 V connection is required as well as the necessary signals for clamping and releasing with corresponding monitoring. The signals are processed entirely in the dividing unit.

Special characteristic features of the new e-clamp system:

- No expensive pressure media are required outside the machine.
- No additional expenses for piping or tubing.
- Little expenditure for connection and initial operation.
- Generation and production of the hydraulic pressure entirely in the dividing unit.
- Signal processing and control by internally installed LogicBox.
- Cost saving by elimination of expensive installation for hydraulic or pneumatic cables.
- Cost saving by elimination of additional hydraulic or pneumatic valves and pressure switches.
- Lower investment costs compared to external additional hydraulic units.

Fields of application:

- As an add-on axle for manufacturers of machining centres without own hydraulic unit.
- For machining centres in lower price segments.
- As a retro-fit solution for machining centres already in operation.

