

Two clamping principles in one rotary table



WERKZEUGSYSTEME
MÜLLER GMBH
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MESS- UND TEILTECHNIK

HOFMANN Mess- und Teiltechnik is a sought-after partner of well-known manufacturers of machine tools and machining centers for metalworking.

The company has more than 60 years of experience in measuring and dividing technology. All important components of the HOFMANN products around indexing and rotation are manufactured in the modern production at the company headquarter in Pliezhausen, Baden-Wuerttemberg.

HOFMANN Mess- und Teiltechnik offers its customers solutions that are precisely tailored to their requirements and cannot be realized with standard solutions from other manufacturers.

The portfolio includes special features such as special mounting parts of the servo motor, connections to energy supply systems on the machine side or the number and design of the workpiece fixtures. The focus in the product segment „Special Solutions“ is always on close dialog with the customer in order to provide them with an optimal solution for the respective application.



NC rotary table RWNC-300 with HSK-adapter and demounted face plate



NC rotary table RWNC-300 with face plate and integrated HSK-fixture

For a customer in the field of plant engineering, Hofmann Mess- und Teiltechnik developed a special designed NC rotary table RWNC-300.

The special feature of this rotary table is the clamping of the workpiece either via an exchangeable HSK-100 C adapter, with automatic hydraulic clamping, or on a face plate, with manual clamping. Both clamping principles are integrated in this dividing head and can be used with minimum changeover effort.

HOFMANN offers its customers a comprehensive service in the implementation of customer-oriented solutions. Due to the many years of good cooperation, the customer also sought dialog with HOFMANN for this task. They were looking for to be flexible when clamping the workpiece and to cover the widest possible range of workpiece holders.

In close cooperation with the customer and the machine tool manufacturer, a solution was developed that was precisely tailored to the customer's requirements, which is characterized by the following features:

- Workpiece clamping either in a HSK-100 C mounting adapter or on a face plate.
- Automatic workpiece clamping in the HSK adapter. The clamping force or release force is provided by a hydraulic cylinder flanged to the rotary table.
- HSK-100 C fixture is designed as an exchangeable adapter. Due to this

principle, the NC rotary table can be used very flexibly. For example, the HSK100 C mounting adapter can be exchanged for an adapter, with other hollow shank tapers, steep tapers or morse tapers. Compared to a fixed mounting in the dividing spindle, this rotary table can be used very flexibly with a wide range of workpiece holders.

- The rotary table can also be used with a face plate without dismantling the HSK adapter. For this purpose, the face plate is simply mounted on the common intermediate flange of the HSK mounting adapter and the face plate.
- Attachment of the servomotor via an angular gear, taking into account the working area of the machine.

This NC rotary table is a special design according to customer requirements on the basis of a HOFMANN NC dividing unit RWNC-300. This has already proven itself on machining centers of many well-known machine tool manufacturers as well as with various end customers. It is characterized above all by its stable robustness, reliability and accuracy.

Advantages at a glance

- Different workpiece clampings combined in one dividing head
- Greatest possible flexibility
- Minimal changeover effort
- Wide range of workpiece fixtures can be used
- Time and cost savings