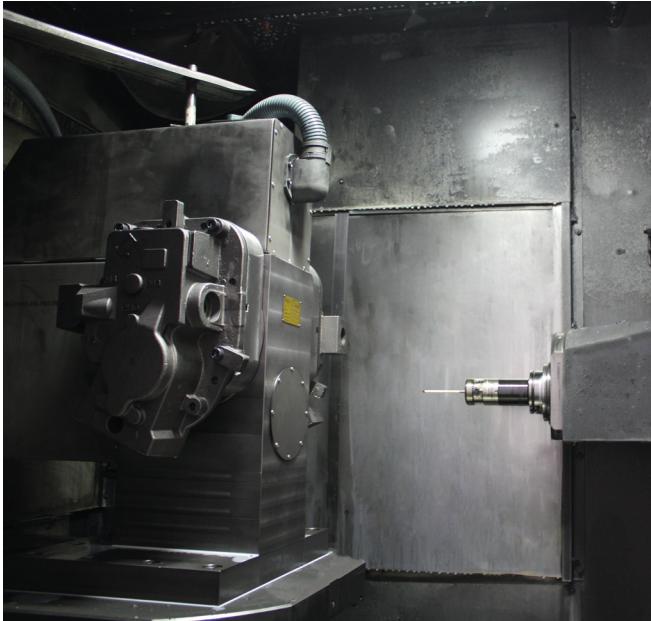


HOFMANN RWNC-220

Additional Axle

Innovative solution for small working area



The AlphaFluid hydraulic adjustment unit is part of a stepless hydrostatic travel drive for self-propelled agricultural and construction machinery, such as wheel loaders, telescopic handlers and forestry machines. With this drive, the entire speed range can be travelled continuously without interruption of tractive force.

It offers a high stepless conversion range from „0“ to the maximum transport speed, automatic adjustment of the power requirement, and simple direction and torque reversal. This enables vehicles to cover even longer distances at the highest possible speed. This travel drive is currently available in five power classes and is in series use by many equipment manufacturers.

Initially, the hydraulic adjustment unit was manufactured on a conventional NC dividing head/rotary axis. This only had a clamping option for workpieces on one side, which meant that only one workpiece could be machined. About four years ago, the existing capacity of the conventional machining center was no longer able to cope with the increasing number of parts. Since investing in an additional machining center was not an option at the time, it quickly became clear that only a new, optimized rotary axis could increase the machine's productivity.

With HOFMANN Mess- und Teiltechnik, the partner for the implementation was quickly found. The requirements were clearly defined: The machine's 5th axis should be able to perform multi-sided

At AlphaFluid in Germany, hydraulic adjustment units are manufactured as ready-to-install assemblies for a continuously variable hydrostatic travel drive.

To increase productivity, two machining centers were each equipped with two additional axes from HOFMANN were added.

machining of the workpiece; it should be possible to drill holes with different angles. In addition, the existing working space of the Heller machining center was to be optimally utilized. The only problem was that the cubic working area in the machine was too small for four or more spindles. Even two spindles mounted side by side were not feasible.

In close dialog, thanks to HOFMANN's experience with customer-specific special solutions, a solution was presented that was precisely tailored to the customer's requirements and was characterized in particular by the following features:

- Dividing spindle in double-sided design to accommodate two hydraulic clamping devices: one at the front and one at the rear of the dividing unit
- Adaptation of the housing dimensions to the confined space conditions
- Efficiency increase of the productivity of a machine system already in use
- Simultaneous machining of two workpieces in one set-up
- Real 5-sided machining possible

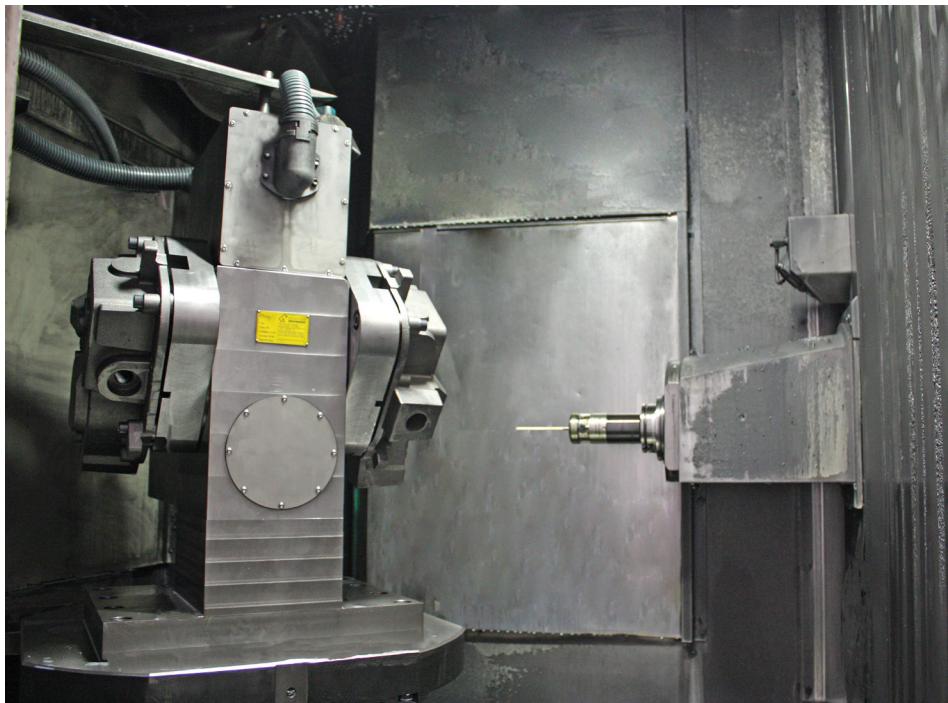
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The special feature of this double spindle machine is that the workpieces are not clamped next to each other, as is normally the case, but opposite each other due to the lack of space in the machining center. In addition, true 5-sided machining is possible and the entire workpiece is finished with only two setups. The attachment axis represents a special design according to customer requirements based on a HOFMANN RWNC-220 dividing head using proven and reliable components such as worm drive and bearings from HOFMANN standard units. In the meantime, due to further increasing quantities, investments were

made in another machining center. A machining center with the same technology that has proven itself. Only the rotary axis was modified. In order to achieve higher accuracies, the rotary axis was equipped with a direct measuring system.

The cost advantages should also not go unmentioned: Thanks to multi-sided machining, the workpiece can be machined in only two setups, which means a reduction in non-productive time with corresponding cost savings.

HOFMANN Mess- und Teiltechnik offers its customers solutions precisely tailored to their requirements, which cannot be realized with standard solutions from other manufacturers. The portfolio includes special features such as: special attachments of the servo motor, connections to energy supply systems on the machine side or the number and design of the workpiece fixtures. The focus is always on close dialog with customers in order to provide them with an optimal solution for the respective application.



hydraulic adjustment unit:
Blank Housing Cover



hydraulic adjustment unit:
completely mounted

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