

Our modular principle: High adaptability for your daily applications.

NC TG SERIES



Actuation:

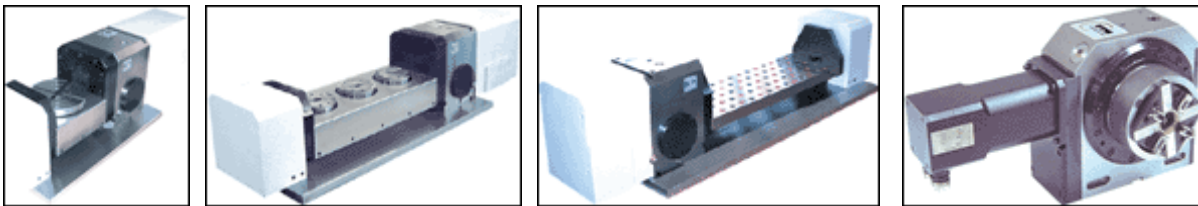
Actuation of the dividing arbor is made by means of a servo drive with adjustable worm gear (Duplex worm). The worm gears consist of high-quality wear resisting bronze. The worm shaft is made of hardened special steel, anti-friction-bearing and pre-stressed. The worm gears operate in oil-bath.

Advantage: Through the structure of the drive until attitude control for NC operations are given.

Control:

The CNC machine tool controls the indexing device. If there is no free NC axis available a single axis CNC ready for connection with servo amplifier, servo power pack and installed software can be delivered.

Advantage: The control can be connected by M-commands to the control of the machine tool.



Sealing:

Sealing between dividing arbor and housing are made by labyrinth seals which can additionally be provided with check air connections.

Advantage: Penetration of sward and coolants into the housing is avoided.

Bearing:

Bearing of the dividing arbor is made by highly-precise, large designed axial radial / roller bearings. By means of a defined pretension of the bearing and use of axial needle rings with long roller bodies an increased tilting and lowering rigidity is obtain.

Advantage: Guarantee of stable nature of the indexing devices with dynamic load and assurance of a good standard behavior.

Mounting of the motor:

The motor is directly mounted by means of a coupling onto the shaft. If this is not possible the motor positions can be modified by different stages of toothed belts on request.

Advantage: Different variants are available for nearly all applications.

Housing and dividing arbor:

The housings are made of high-quality spherical casting. The dividing arbor is made of steel and hardened.

Advantage: The design guarantees a perfect flux of machining and weight forces of the dividing arbor via the bearing into the table of the machine tool.

Measuring system:

The demand for different indexing precision is taken into account by manifold possibilities for mounting of the measuring system. Indirect mounting of the measuring system offers standard precision (motor integrated measuring system).

Advantage: A high indexing precision is obtained by mounting onto the tables' centre axis.

Locking:

After positioning of the dividing arbor hydraulic locking is made. The system pressure is 200 bar.

Advantage: Locking is radial and with annular effect and maintains the table plate in position without any deformation.

P r o d u c t s | f o r | p r o d u c t i v i t y

