



# Details



# Tool Magazine

When mounted on the right of the Y-table of a machine A4 five positions for tools are available.

In this construction the magazine is inside X/Y/Z-travel of the machine, in order to get the machine change the tool.

Other arrangements are possible.

Picture: Cover of the magazine is open. Position 1 in front, on the back beside position 5 the tool length measurer (WZL).



# Cover of the Magazine

Out of transparent polycarbonate (breakproof). It is moved by a waterproof and dustproof servomotor. Gearbox and sensors are safely cased against dirt. A dragchain leads the cables to the control unit on the back.

Picture: Cover is closed, the blue module is the servo.



# Tool receiving socket

Its exact denomination is: ISO10 - ER16M. It is out of 3 parts: Holder, chuck and clamping nut.

Picture: Tool receiving socket disassembled.

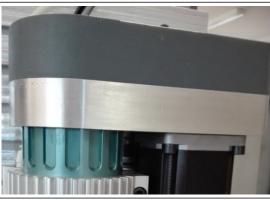


# Tool receiving socket with tool

Advantage of this method: Tools with different shafts can be clamped in, you just need a suitable chuck.

For screw taps you need a chuck with length adjustment.

Picture: Left with NC-drill 3,3mm; right with screw tap M4.



## Gearing

The connection between motor and attachment changer is realized by a toothbelt gear with limited selectable transmission ratio.

An ecoder is fixed to the changer controlling the rotational movement and sensoring the 0°-position.

Picture: Closed gear cover. Here: with stepper motor.

#### Some important data

Type / Data	Power	Transmision ratio	Speed	Application
Step. motor	approx. 200 W	1:1 or 1:2 - 0.1125 o. 0.225 °/Step	approx. 11.500 or 23.000 rpm	Very fine positioning, low power
Servo motor	400 W or 750 W	1:2 or 1:4 – 0.225 o. 0.45 °/Step	approx. 1009.000 or 10018.000 rpm	Universal, Top product

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