



V300: Car transmission shafts

Automated turning

- › Complete turning of gear shafts
- › Cycle 1.1 min
- › Concentricity from left to right side of $\leq 10\mu\text{m}$
- › Short loading/unloading times due to gantry loader of ≤ 12 sec.
- › Simultaneous deep hole drilling left/right $25\times D$





Complete turning of passenger car transmission shafts in an automated system

This system consists of 3 machines that are identical in terms of layout. The workpieces are loaded from an accumulating conveyor into the machine via a gantry loader.

In the first machine, the workpiece is clamped in vices and with a cycle time of 1:10 min, the ends are milled over, drilled and centred.

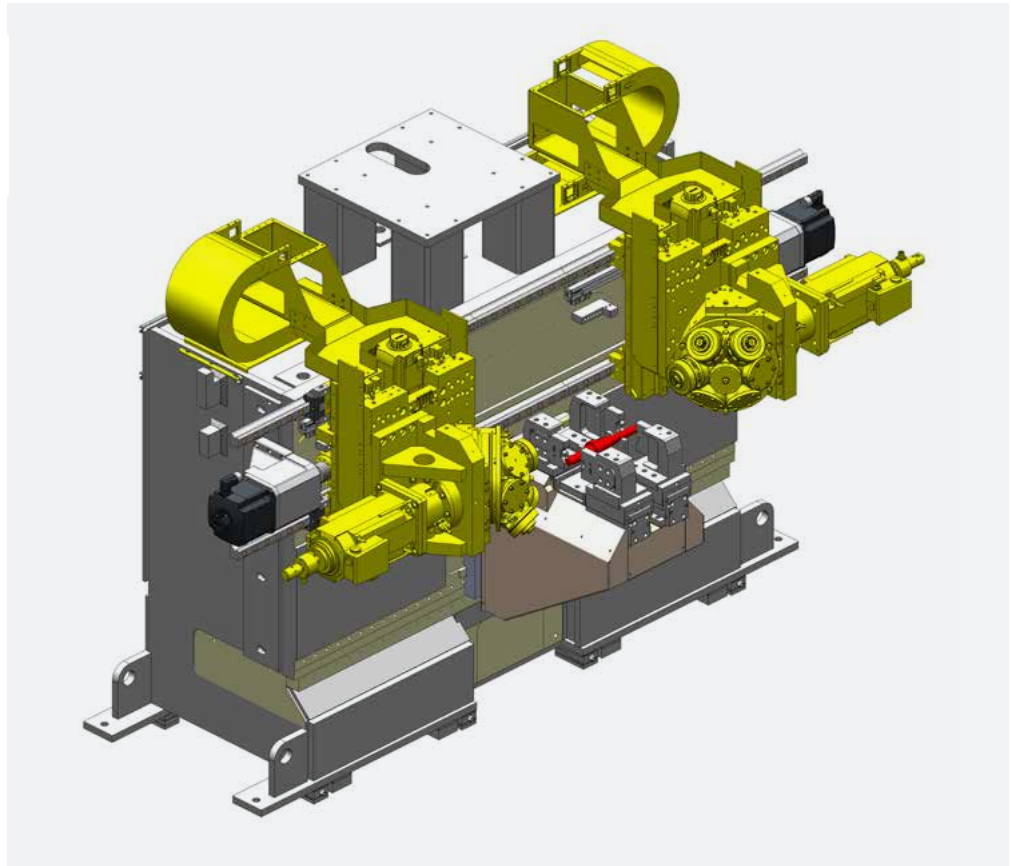
In machines 2 and 3, 2 turrets are used for external machining between the spindle and the tailstock.

Workpieces

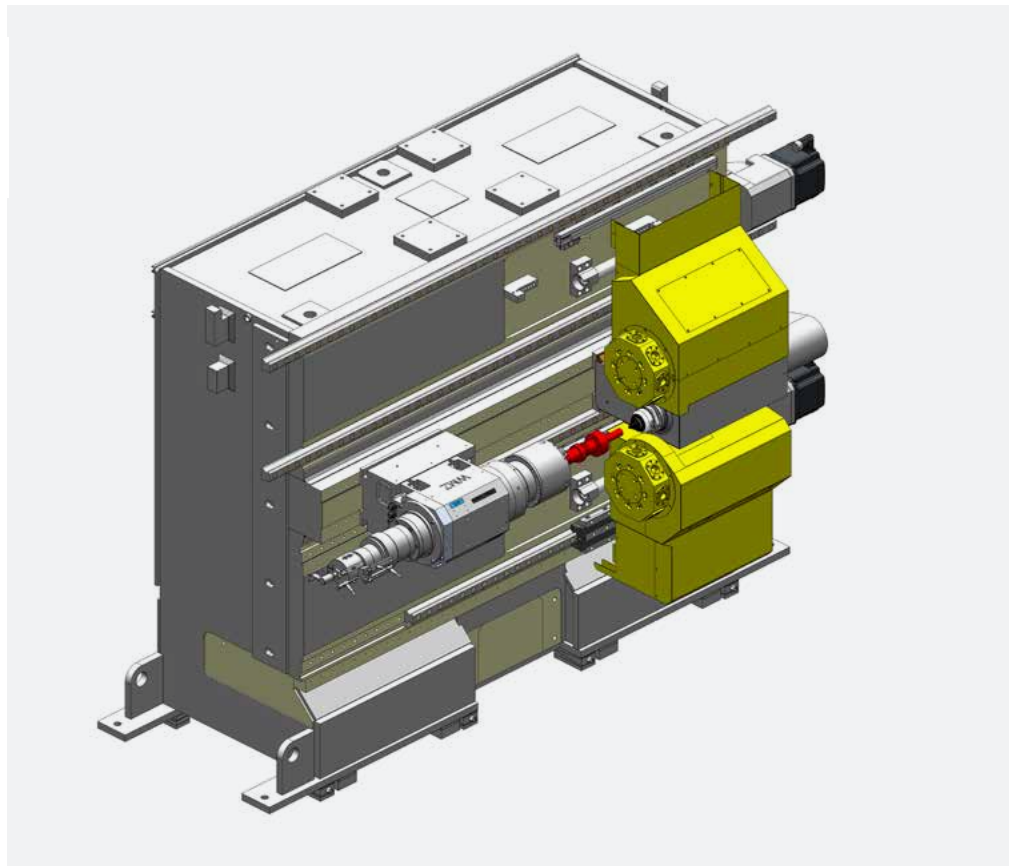
Length [mm]	500 mm
Diameter [mm]	100 mm
Weight [kg]	8 kg
Cycle [min]	1:00 bis 1:20

Features

OP 10



OP 20





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3. digital twin
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