



MAESTRO 42DT

MAESTRO 52DT



Double Spindle
Double Turret
Multi-Tasking Turning Center

Front Machining

- BMT45 12-Stations
- Up to 24 tools
- 7.5 / 11 kW Spindle Power
- 65 mm Through Hole

Back Machining

- VDI 25 8-Stations Sub-Turret
- 3.7 / 5.5 kW Spindle Power
- 32 mm Through Hole

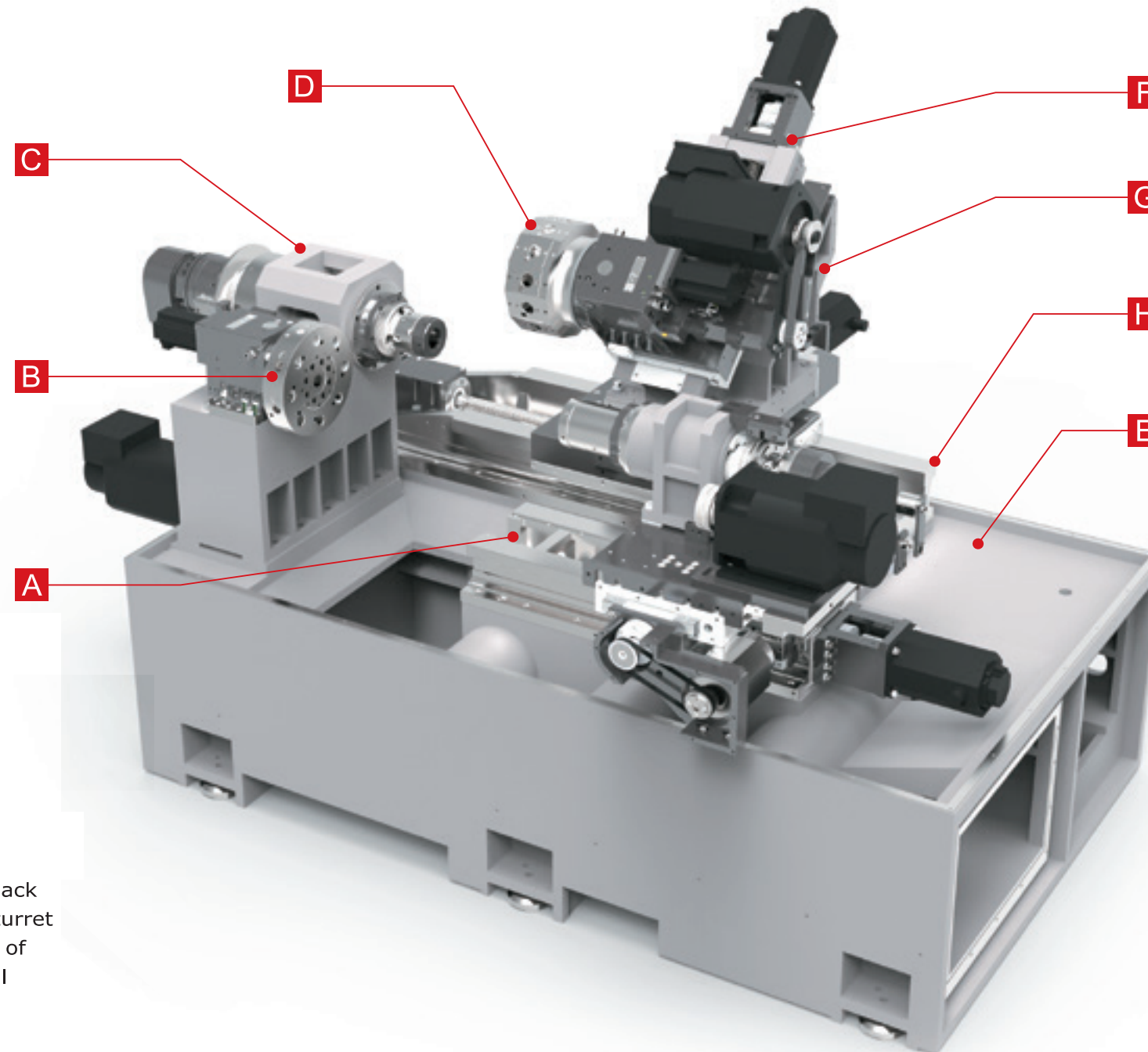
Capabilities

This multi-tasking turning center is an advanced machine designed for precision complex parts processed in one setup.

Power & Versatility

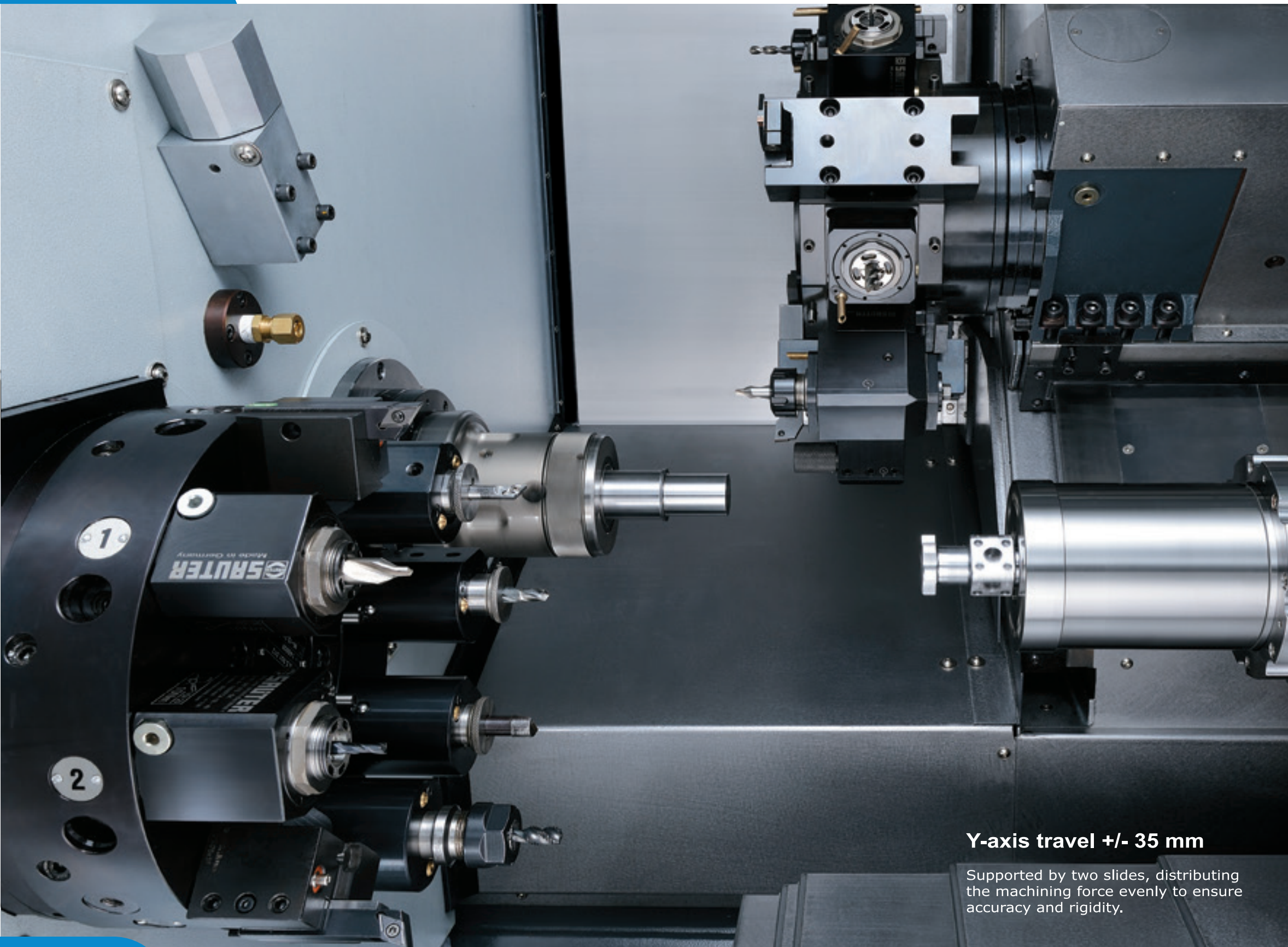
It has Double Spindles and Turrets with back machining provided by an 8-station sub-turret and sub-spindle with a total tool capacity of up to 32 tools. This solution is a powerful combination of power, precision and versatility.

FANUC Controller

**Key Features**

- A** Boxways on all axes are oversized and precision ground to a near mirror finish for smooth, fast precision movements providing dynamic rigidity and heavy-duty cutting ability
- B** The sub-turret for back machining can reduce cycle times significantly with superimposed cutting to complete parts in one setup. Driven tools at all 8 stations are possible
- C** Heavy-duty precision spindle design for enhanced thermal stability & power
- D** The main turret has 12 stations and with multi-tool holders up to 24 tools can be equipped. Driven tools at all 12 stations are possible
- E** Meehanite cast material is used and stress relieved to provide the best possible rigidity and Vibration dampening base for machining parts with excellent surface finishes
- F** Y-axis travel +/- 35mm is supported by two slides, distributing the machining force evenly to ensure accuracy and rigidity
- G** 45 degree wedge design for fast chip flow and removal from the machining area for a thermally stable work platform
- H** Z-axis is equipped with precision high-rigidity 32mm ball screws and all other axes use 28mm ball screws to ensure fast feed rates and extended long-term durability for trouble free machining





Sauter VDI 30 I BMT 45-12 Stations Main Turret

The main turret has 12 stations but with multi-tool holders up to 24 tools are possible. FANUC Alpha 2 motors provide driven tools up to 6000 rpm with high power and speed. Bidirectional turret indexing allows the shortest path to the next tool for faster cycle times. A 20 bar high pressure coolant system provides fast chip removal and longer tool life.

VDI 30 I BMT 45

- FANUC Alpha 2 Motor-High torque, resolution & precision
- Driven tools: 2.2/3.75kW & 23.5 Nm
- Optional 50/100 bar High Pressure Coolant Systems

Sauter VDI 25-8 Stations Sub-turret

The sub-turret for back machining can help reduce idle time. Cycle times can also be significantly reduced with superimposed cutting utilizing the sub-spindle and sub-turret. Optional Sub Turret types: Power Turret, Servo Turret and Hydraulic Turret

VDI 25

- FANUC Alpha 8 Motor-High torque, resolution & precision
- Driven tool power: 2.2 kW & 22 N.m | Turrets designed for faster indexing time and outstanding thermal stability

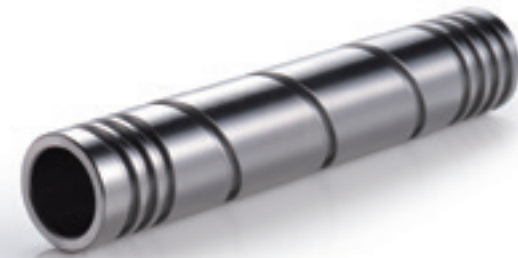
Y-axis travel +/- 35 mm

Supported by two slides, distributing the machining force evenly to ensure accuracy and rigidity.

Workpiece Applications



Industry Aerospace
 Material Aluminum 7005
 Size 66 x 16 mm
 Cycle time 240 sec
 Operations Turning, Milling, Engraving, Back machining



Industry Machinery
 Material SUS 340
 Size 33 x 185 mm
 Cycle time 720 sec
 Operations Turning and Wrap Contour Milling



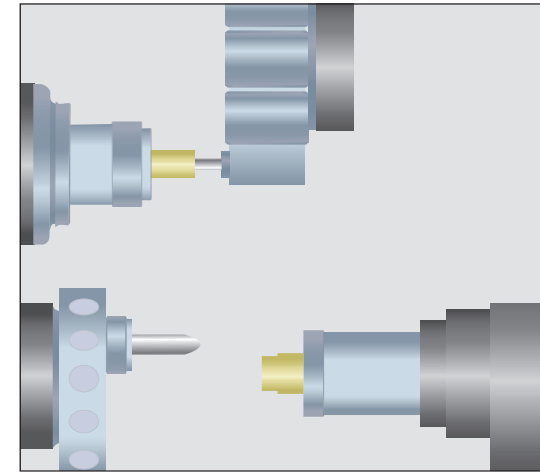
Industry Mechanical Parts
 Material S45C
 Size 11 x 31 mm
 Cycle time 300 sec
 Operations Turning, Milling, Back machining



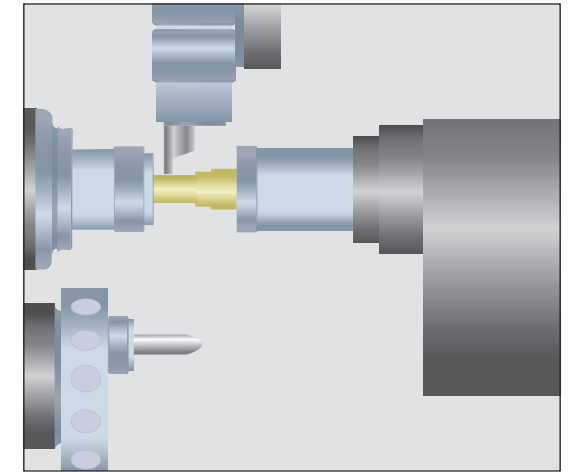
Industry Automotive
 Material Aluminum 7005
 Size 45 x 16 mm
 Cycle time 540 sec
 Operations Turning, Milling, Back machining

Machining Applications

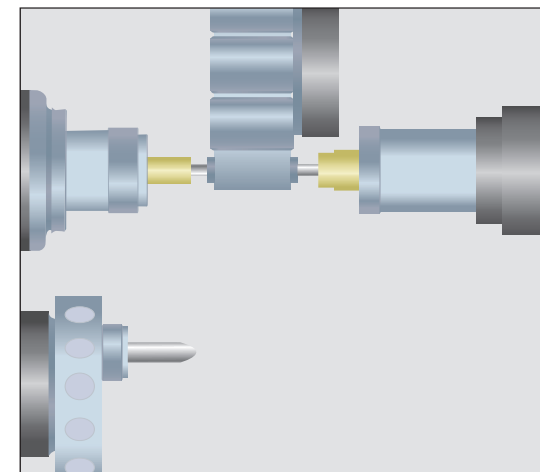
Spindle 1, Turret 1 ID Turning



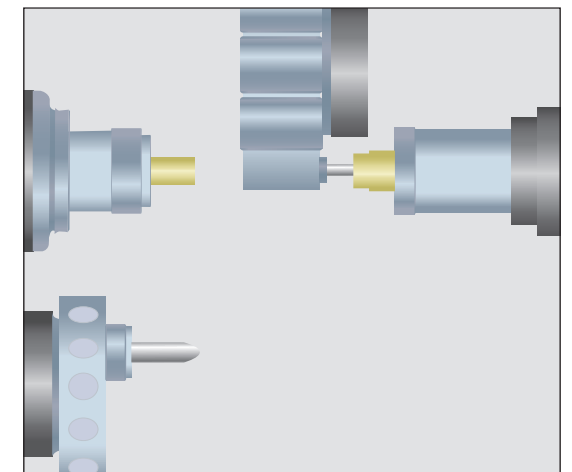
Cutoff & Transfer to Spindle 2



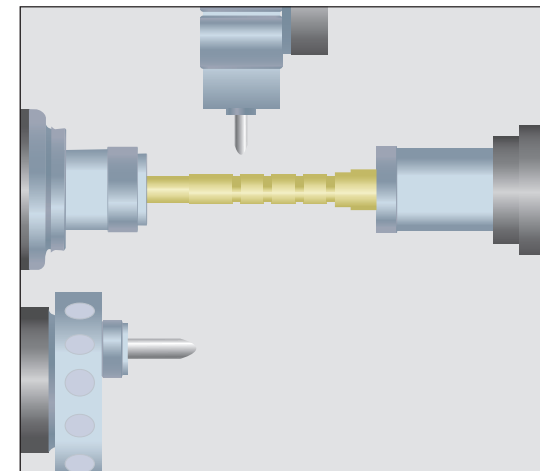
Superimposed Machining



Turret 1 Back Machining



Spindle 1 & 2 Milling



Turret 1 OD Turning & Sub-turret Back Machining

