BENZINGER

PRÄZISIONSMASCHINEN

Turning-milling machines for over 100 years

GOFuture

One series for many different applications

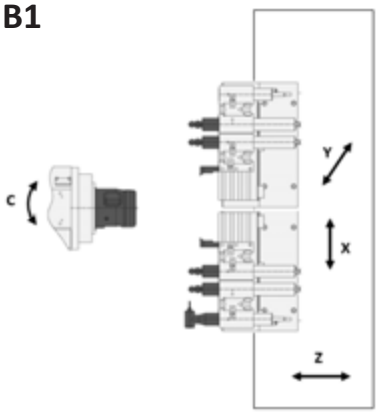
**Optional with counter spindle,
as tailstock machine,
with two tool turrets
for simultaneous machining,
or as 5-axis turning milling centre
GOFuture BX**

Technical data:

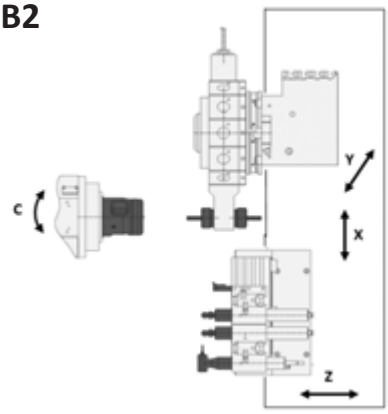
Tool holder system	Linear (set-up times optimised)
Tool turret	VDI 25 – 12 positions
	Optional 16 or 48 positions, optional with individual drive 6.000 rpm
Bar capacity	Main spindle 16/26/32/42 mm
Spindle speed	Main spindle and counter spindle up to 15.000 rpm
Control system	SIEMENS / Fanuc
Dimensions L x W x H	Approx. 2,3 x 1,7 x 2,0 m

Machine variants:

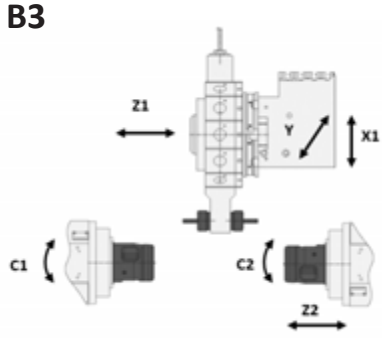
B1



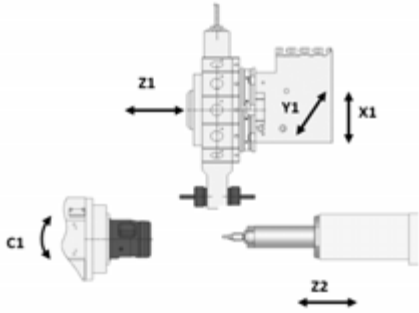
B2



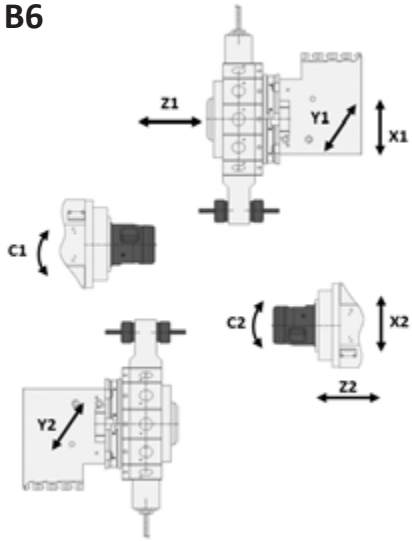
B3



B4

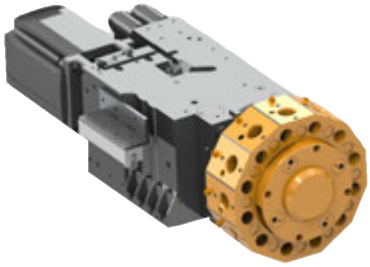


B6



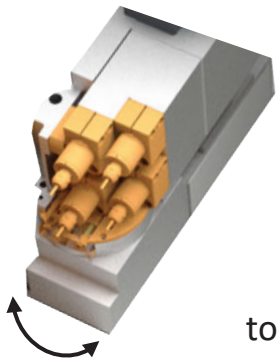
Modular System

Tool turret
(12/16)



Optical
tool measurement

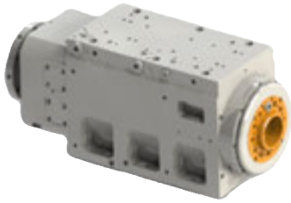
Additional equipment



Linear
tool systems

Clamping devices

Spindle
(Ø16 / Ø26 / Ø32/ Ø42)



Internal
handling

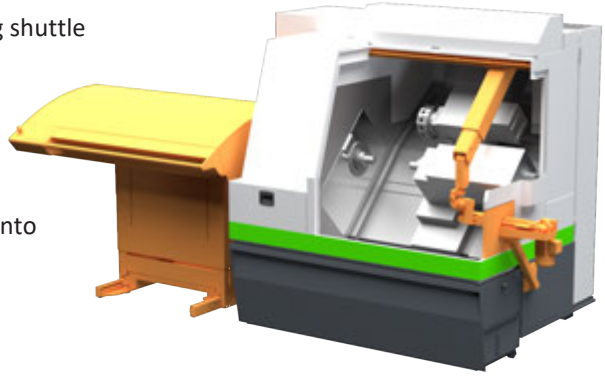
Clamping cylinder
(pneumatic / hydraulic)

Measurement
technology

Automation

...Automatic parts handling systems with the shortest cycle times are available for all Benzinger machines.

- Feeding via a loading shuttle
- Discharging via the unloading arm from the counter spindle
- Depositing directly onto a conveyor belt



- Feeding via a bar feeder
- Discharging via the unloading arm from the counter spindle
- Depositing directly onto a conveyor belt

GOFuture BX / B6X

5-axis turning milling centre

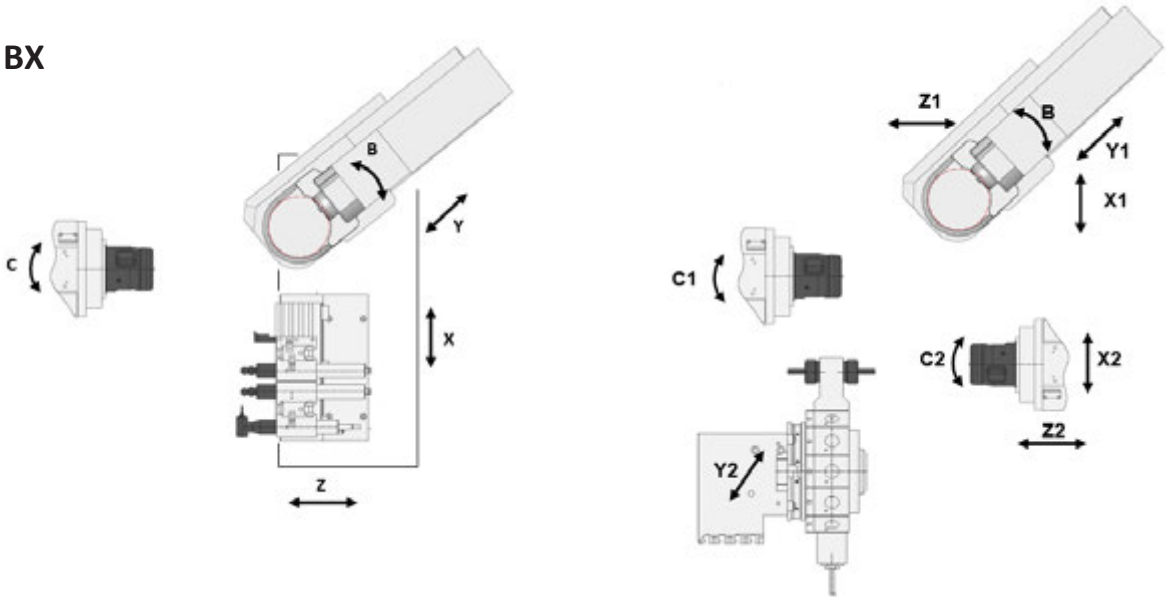
Ideal for post-processing of complex workpieces or also for production from a bar

Flexible automation enables economical production even for small and medium sized batches

Technical data:

Tool holder system	Linear (set-up times optimised)
Milling spindle	HSK-T32 - 36.000 rpm / HSK-T40 – 30.000 rpm
Bar capacity	Main spindle 16/26/32/42 mm
Spindle speed	Main spindle up to 15.000 rpm
Tool changer	12 positions / 100 positions
Control system	SIEMENS / Fanuc
Dimensions L x W x H	Approx. 2,3 x 1,7 x 2,0 m (12-fold tool changer) Approx. 2,8 x 1,8 x 2,3 m (100-fold tool changer)

BX



Due to the well thought out modular system, these automations can be customised very well to the requirements of...

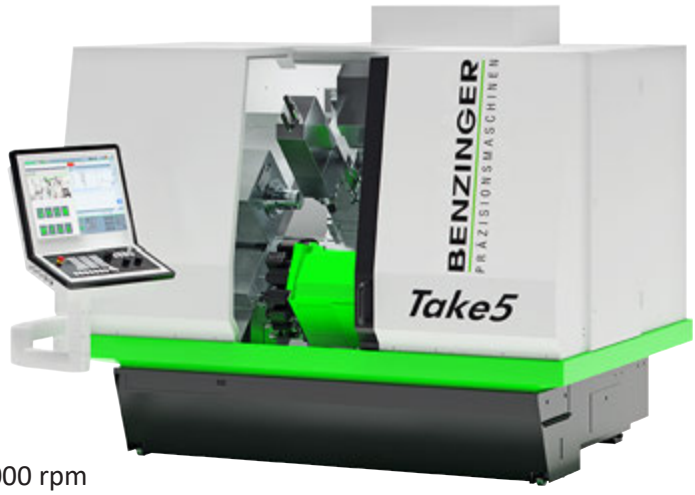
- Feeding from a feed conveyor via a feed rail
- Discharging via the unloading arm from the counter spindle
- Deposit directly into a box

- Feeding from a vibrating bowl via a feed rail
- Loading and unloading via the integrated feeder
- Depositing directly into a box

Take5

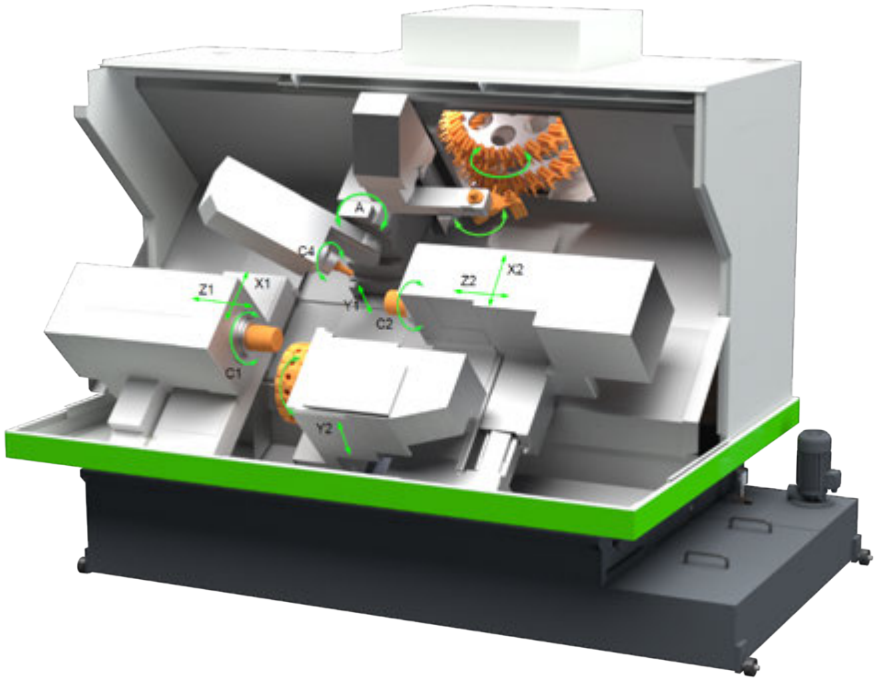
5-axis turning milling centre

Machining on main spindle and counter spindle, simultaneous complete machining of high-precision and complex workpieces



Technical data:

Tool turret	VDI 25 – 16 positions with individual drive 6.000 rpm
Milling spindle	HSK-T40 DIN69893 / up to 30.000 rpm
Bar capacity	Main spindle 32/42 mm
Spindle speed	Up to 8.000 rpm
Tool changer	From 52 positions
Control system	SIEMENS
Dimensions L x W x H	Approx. 3,0 x 2,3 x 2,7 m



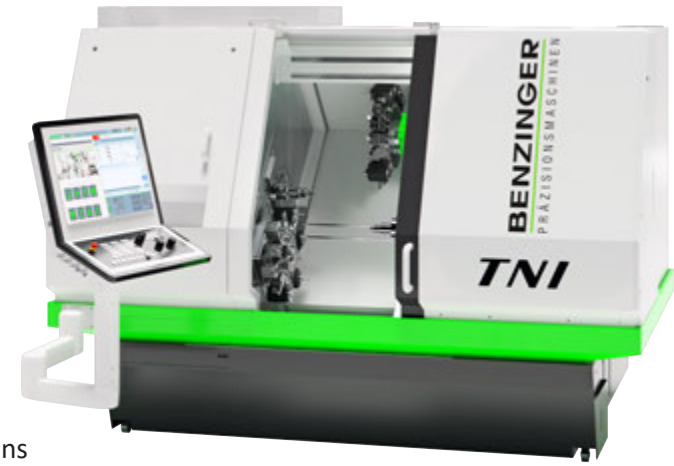
…a wide variety of workpieces and customer requirements.

- Parts feed from a vibrating bowl
- Parts loading via the integrated feeder
- Parts unloading via the integrated feeder
- Parts discharge via the portal directly into the pallet

- Parts loading via a robot directly into the spindle
- Parts unlaoding via the robot

TNI

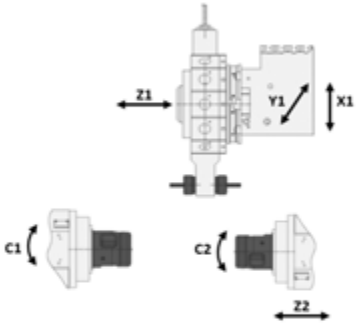
CNC precision turning machine for simultaneous machining on main and counter spindle

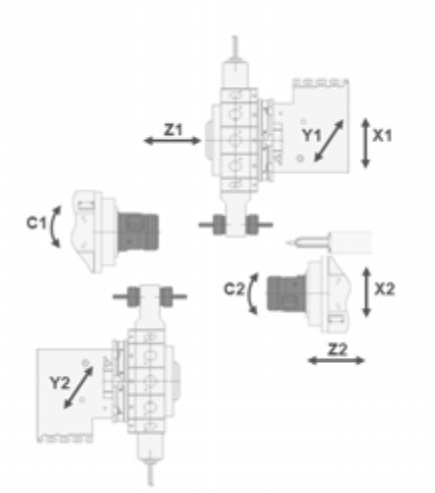


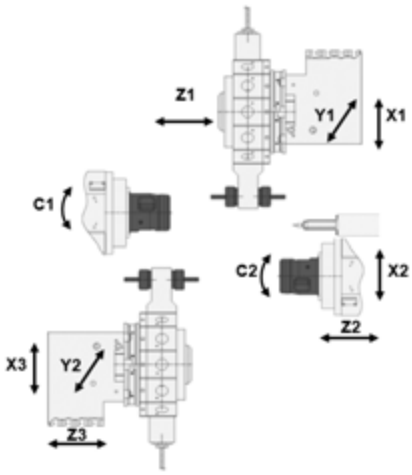
Technical data:

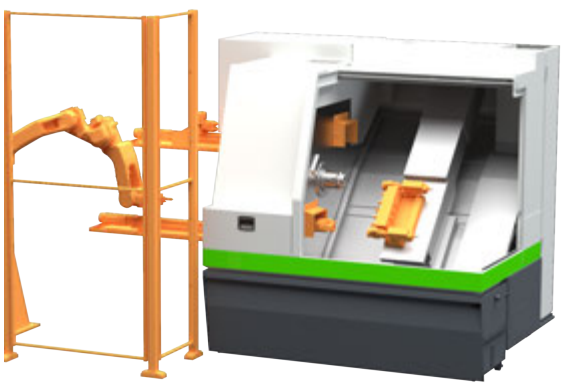
Tool turret	VDI 25 – 12 positions optional 16 or 48 positions with individual drive 6.000 rpm
Bar capacity	Main spindle 16/26/32/42 mm
Spindle speed	Main and counter spindle up to 15.000 rpm
Control system	SIEMENS / Fanuc
Dimensions L x W x H	Approx. 3,0 x 2,1 x 1,95 m

Machine variants:

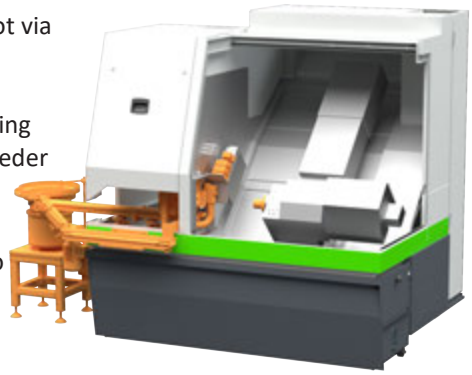








- Feeding from a robot via a loading shuttle
- Loading and unloading vis the intefrated feeder
- Discharge via an unloading shuttle to the robot



- Parts feed from a vibrating bowl
- Parts loading via the integrated feeder
- Parts unlaoding directly onto a conveyor belt

DOLittle

The answer to increasing accuracy requirements and miniaturisation of workpieces

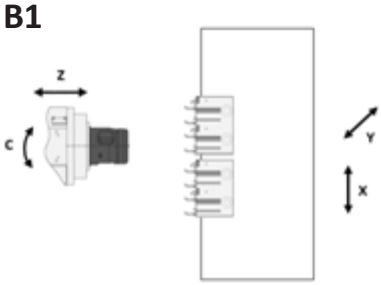
Optional also with
counter spindle or
as a double spindle machine

Technical data:

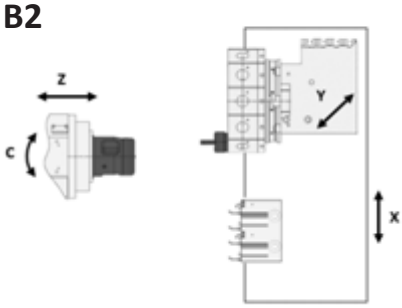
Tool holder system	Linear (set-up times optimised)
Disc type tool turret	VDI 20/25 – 12 positions
	Optional 6 positions with individual drive 6.000 rpm
6-fold milling unit, 90° swivelling	18.000 rpm
Bar capacity	Main spindle 16/26 mm
Spindle speed	Main spindle and counter spindle up to 15.000 U/min
Control system	SIEMENS / Fanuc
Dimensions L x W x H	Approx. 2,1 x 1,1 x 1,9 m (B1-B5)
	Approx. 2,1 x 1,4 x 2,0 m (B6)

Machine variants:

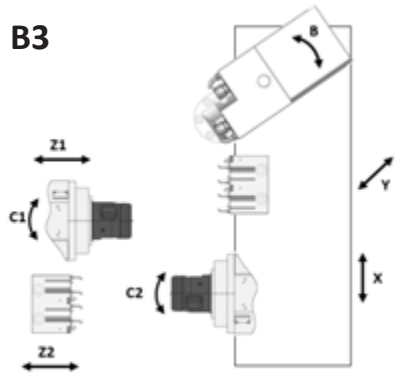
B1



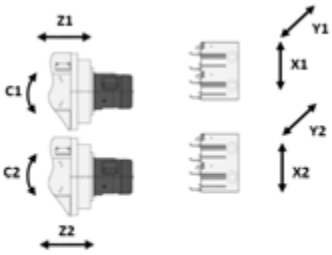
B2



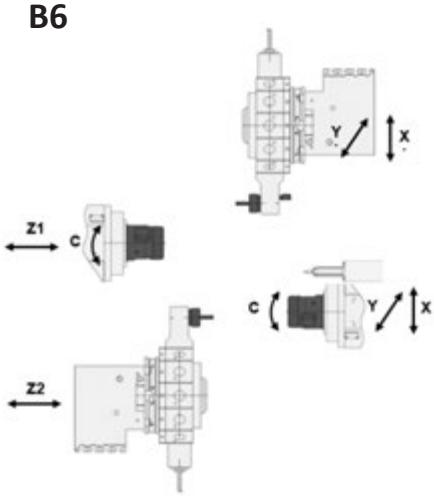
B3



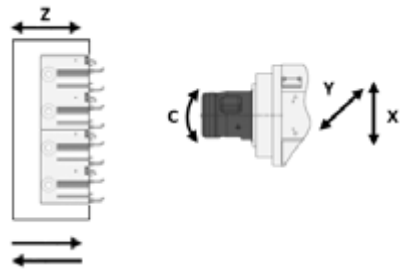
B5



B6



BFast



Integrated automation

Benzinger brand machines have been built in the Pforzheim area since 1916, from 1941 under the management of the Jehle family. As a medium-sized company, Benzinger is able to react flexibly and quickly to the increasing demands of the markets and presents itself as a globally operating company.

We offer a product range of various machines, including machines for optics, precision mechanics, medical, dental , electrical and control technology, fluid and bearing technology, the automotive supply industry, aerospace as well as for the watch and jewellery industry.

We combine know-how and personal inspiration with all the possibilities of complex technologies. We take precision personally. Everything from a single source with quality made in Germany!

The particular strength of Benzinger machines is based on the company structure as well as the product structure. We offer everything from a single source - from engineering, which is a key element at Benzinger, to building and setting up the machine for customer-specific workpieces and after-sales service.

Benzinger consciously favours Germany as a production location; all quality-defining components have been developed and manufactured by us for over 100 years.

We develop the best production solution for our customers. Benzinger has a modular system based on a building block concept that makes it possible to configure the ideal machine from many variants. Depending on the machining task, the respective machine series can be completed with production and/ or automation technology or customised production strategy can be developed.

Further information on the Internet or contact us personally.

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