

Precision has been our passion for more than 100 years

BENZINGER
PRÄZISIONSMASCHINEN

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The answer to increasing accuracy requirements and miniaturisation of the workpieces

Optional also with counter-spindle or as double spindle machine

Technical data:

Tool holder system
Disc type tool turret

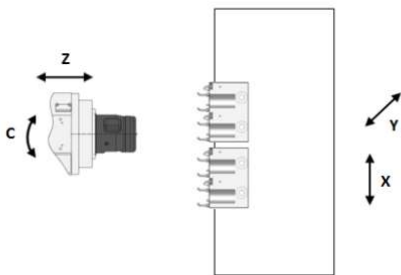
6-fold milling unit, 90° swivelling
Bar capacity
Spindle speed
Control system
Dimensions L x W x H

Linear (set-up times optimised)
VDI 20/25 – 12 positions
optional 6 positions with individual drive 6.000 rpm
18.000 rpm
Main spindle 16/26 mm
Main spindle and counter spindle up to 15.000 rpm
SIEMENS / Fanuc
Approx. 2,1 x 1,1 x 1,9 m (B1-B5)
Approx. 2,1 x 1,3 x 2,0 m (B6)

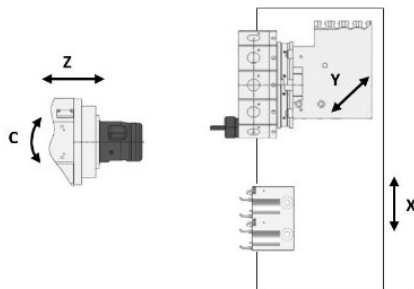


Machine variants:

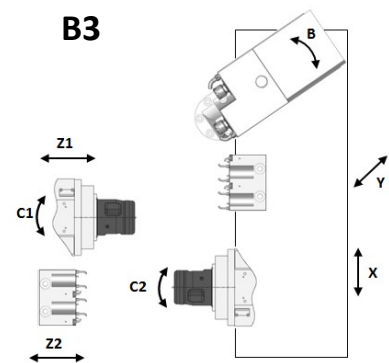
B1



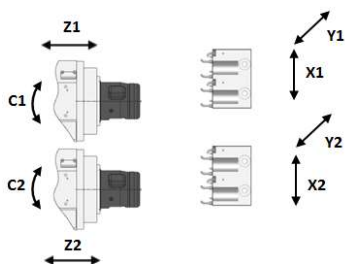
B2



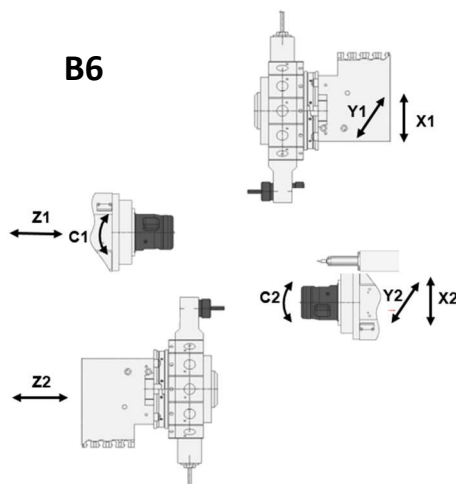
B3



B5



B6



A 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:

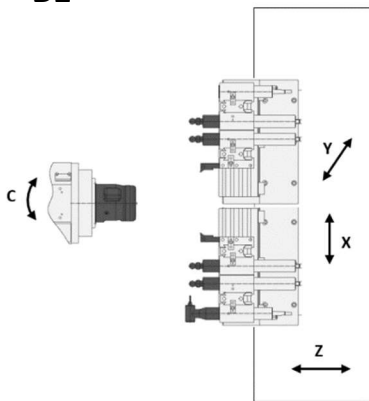
Tool holder system
Tool turret

Bar capacity
Spindle speed
Control system
Dimensions L x W x H

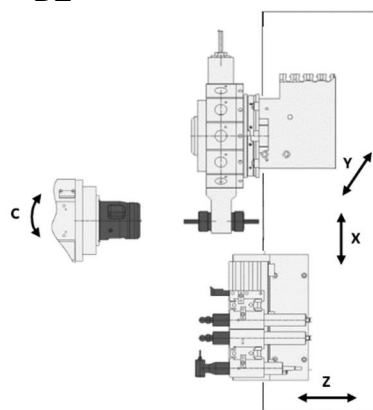
Linear (set-up times optimised)
VDI 25 – 12 positions
optional 16 or 48 positions, optional with individual drive 6.000 rpm
Main spindle 16/26/32/42 mm
Main spindle and counter spindle up to 15.000 rpm
SIEMENS / Fanuc
Approx. 2,3 x 1,7 x 2,0 m

Machine variants:

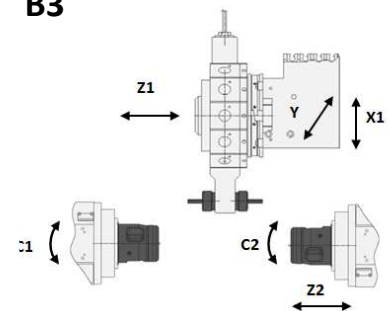
B1



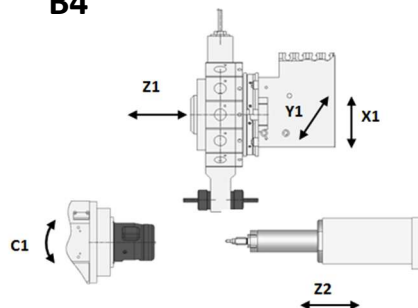
B2



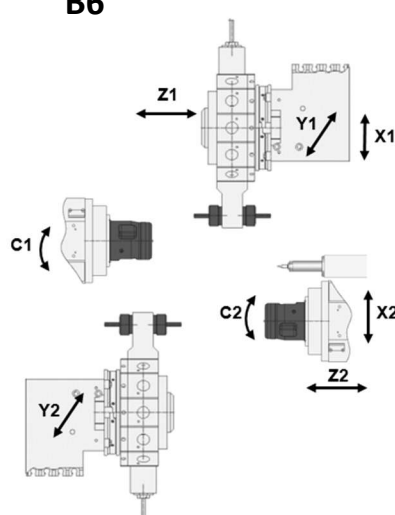
B3



B4



B6



Highest precision in turning and hard turning through separate X- and Z-axes, combined with Benzinger automation for shortest cycle times

Technical data:

Tool holder system
Disc type tool turret

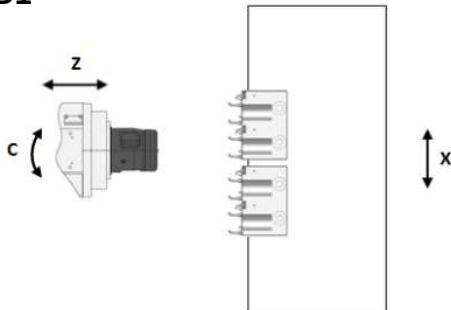
Bar capacity
Spindle speed
Control system
Dimensions L x W x H

Linear (set-up times optimised)
VDI 20 – 12 positions
optional 6 positions with individual drive 6.000 rpm
Main spindle 16/26/32/42 mm
Main spindle up to 15.000 rpm
SIEMENS
Approx. 2,5 x 1,9 x 2,0 m (2,7 m)

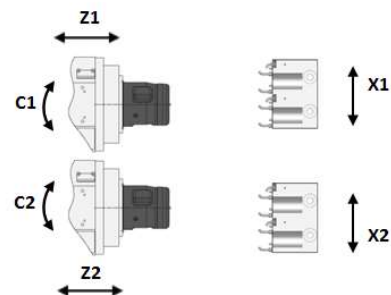


Machine variants:

B1



B5



Automation

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



- Discharging from the counter spindle via the unloading arm
- Depositing directly into a box



- Discharging from the main spindle via the unloading arm
- Depositing directly onto the unloading belt

GOFuture BX

5-axis turning milling centre

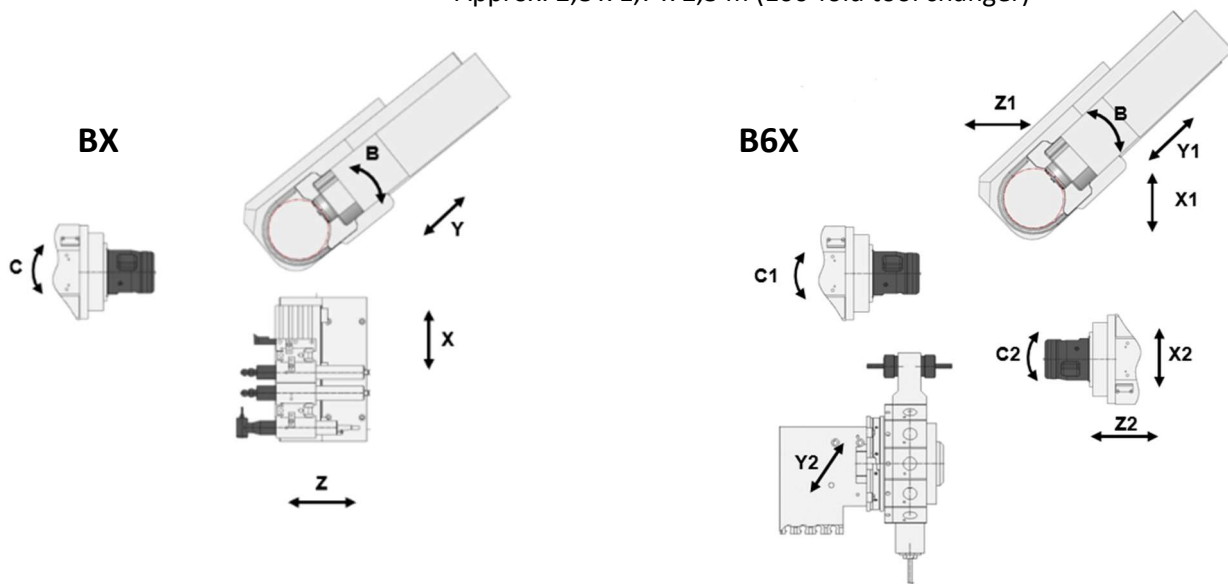
Ideal for subsequent machining of complex workpieces or for machining from bar

The flexible automation allows economical production even with small and medium sized batches

Technical data:

Tool holder system
Milling spindle
Bar capacity
Spindle speed
Tool changer
Control system
Dimensions L x W x H

Linear (set-up times optimised)
HSK-T32 DIN69893 / 36.000 rpm
Main spindle 16/26/32/42 mm
Main spindle up to 15.000 rpm
12 positions / 100 positions
SIEMENS / Fanuc
Approx. 2,3 x 1,7 x 2,0 m (12-fold tool changer)
Approx. 2,8 x 1,7 x 2,3 m (100-fold tool changer)



Due to the well thought-out modular system, these automation systems can be very well adapted to the requirements of...



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



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

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

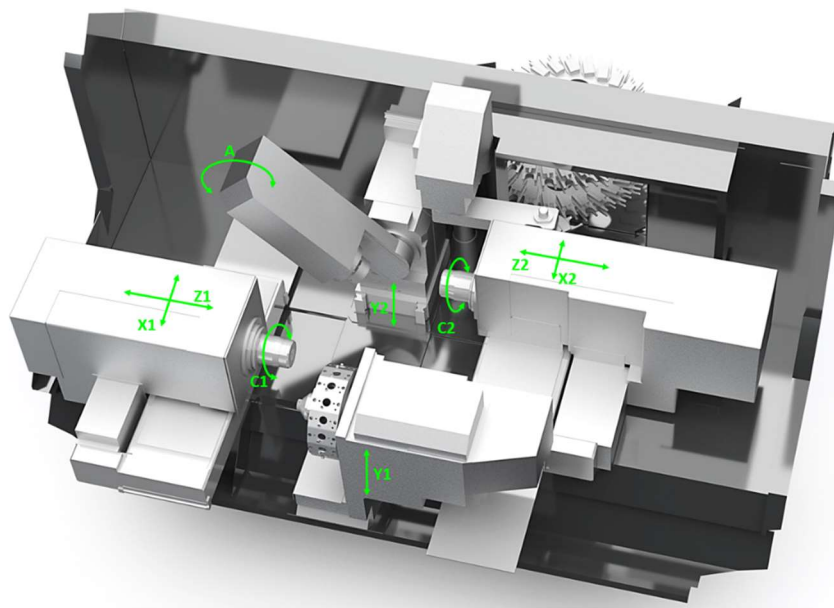
From 52 positions

Control system

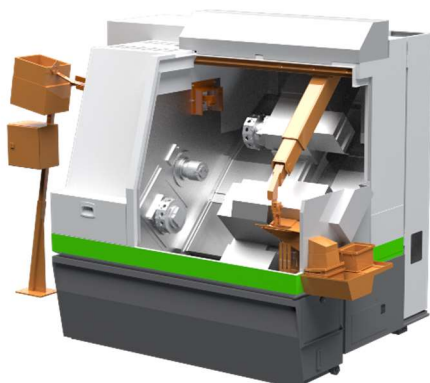
SIEMENS

Dimensions L x W x H

Approx. 2,95 x 2,0 x 2,2 m



...the different workpieces and customer needs.



- Feeding by a conveyor bunker via a feeding rail
- Discharging from the counter spindle via the unloading arm
- Depositing directly into a box



- Feeding by a vibrating bowl via a feeding rail
- Loading and unloading via the integrated feeding system
- Depositing directly into a box

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

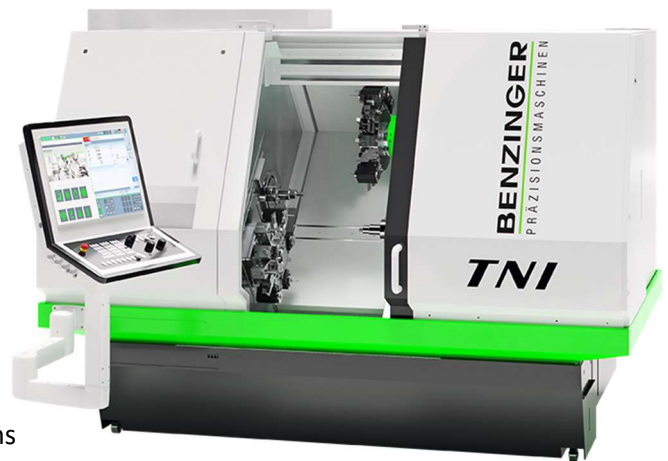
Main spindle and counter spindle up to 15.000 rpm

Control system

SIEMENS / Fanuc

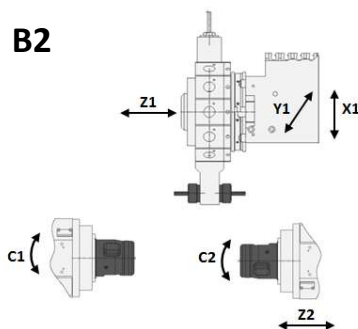
Dimensions L x W x H

Approx. 2,95 x 1,95 x 1,95 m

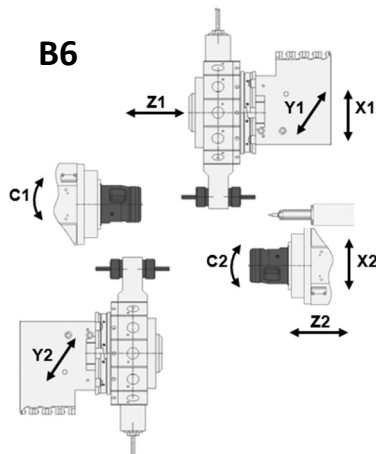


Machine variants:

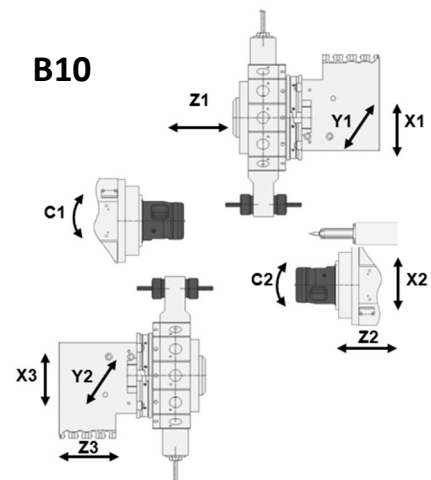
B2



B6



B10



- Feeding by a robot via a loading shuttle
- Loading and unloading via the integrated feeding system
- Discharging via an unloading shuttle to the robot

Since 1916, machines of Benzinger have been built in Pforzheim, from 1941 under the direction of the family Jehle. As an owner-run business, Benzinger is able to react quickly and flexibly to the increasing demands of the market and presents itself as a globally operating business.

We offer a product programme of various machines, inter alia for optics, precision engineering, medical and dental industries, electronic control systems, fluid power and bearing technology, automobile supply industry, space technology and aeronautics as well as for the watch manufacturing and jewellery industries.

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

The particular strength of Benzinger machines is based on the corporate philosophy as well as on the product structure. We offer everything from a single source - from the engineering, which is a key position at Benzinger, the construction and setup of the machine on customer-specific parts, to after-sales service.

Benzinger consciously focuses on Germany as location for our production. For more than 100 years now, we design and produce all quality-related components ourselves.

For our customers we design the best manufacturing solutions. Benzinger uses a flexible concept, which is based on a modular system. With this concept, we are able to configure the optimal machine from many different variants. Depending on the machining task, the respective machine can be completed with manufacturing engineering and/or automation technology or we can develop an individual manufacturing strategy.

Further information can be found on the Internet or contact us personally.



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