

CONNECTING PROFILE SLOT MACHINING

No more time-consuming and complicated gluing or screws! The way of the future is „insert and it's ready“. Now that you are using profile slot connecting systems to mount workpieces, you couldn't do without it. The advantages are clear: a high-quality, elegant solution you can use flexibly for many different applications, all with enormous savings in time compared to conventional methods.

Fortunately, connector profile slots can also be milled quickly, precisely and economically. Your connector between the CNC machining centre and the connecting system: BENZ units for milling slots – for all machine types and at any angle.

Advantages

- Machine profile slot milling, short cutting times
- Milling slots at all angles - on the edge and in the centre of the workpiece
- The same profile slot on both workpieces (high level of accuracy in creating the slots)
- The machining process can be implemented directly in the CAD planning

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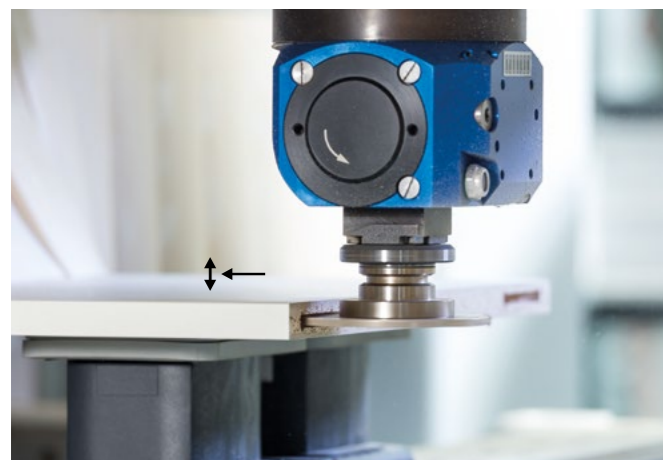
UNITS FOR PROFILE SLOT MILLING

Tooling technology

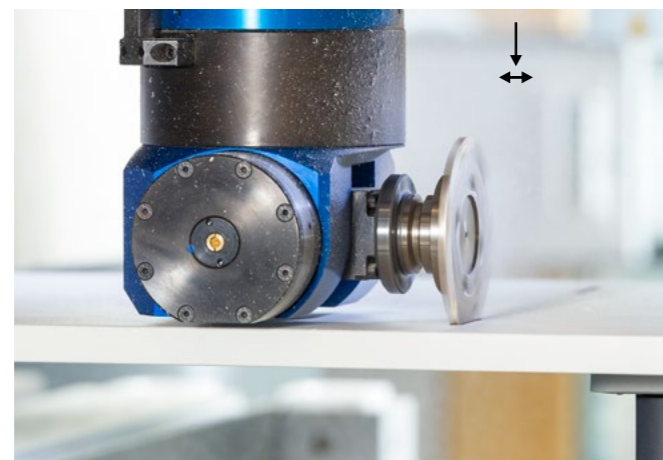
Wood / Composites/
Aluminium machining



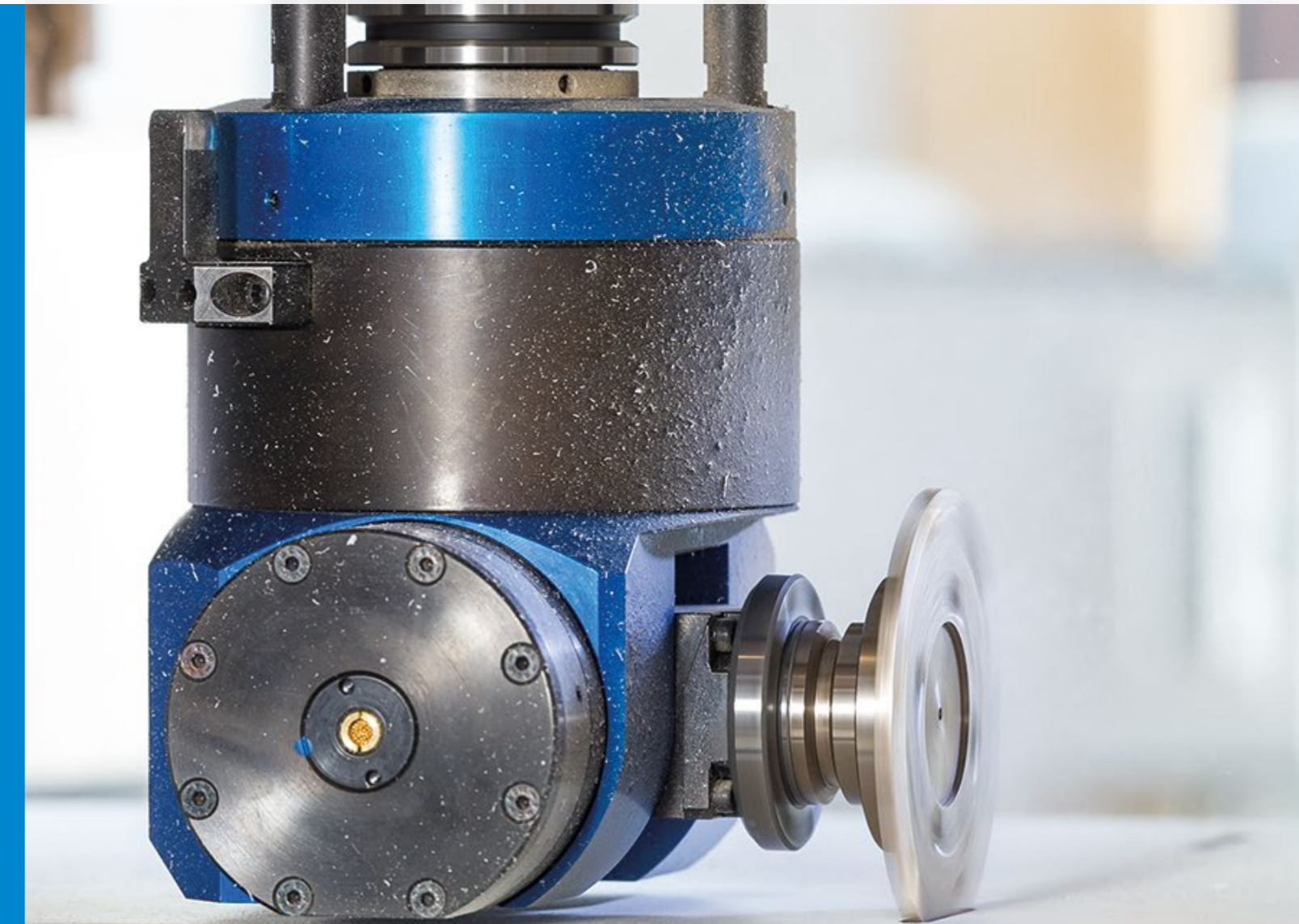
P-System
READY



Milling the profile slot for inserting the connector (horizontal machining).



Milling the profile slot for inserting the connector on the mating piece (vertical machining).



PRODUCT COMPASS

UNITS FOR PROFILE SLOT MILLING



CLASSIC LINE with grease lubrication

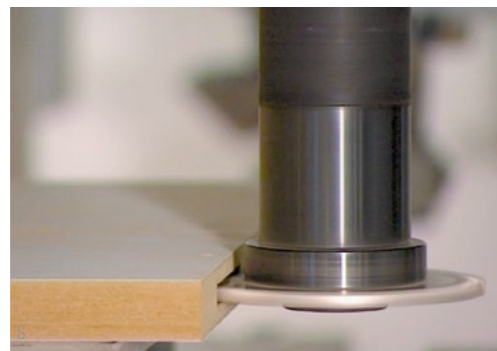
PREMIUM LINE with oil bath lubrication

Profile slot position / angle	Depth [mm]	Tool holder	MONO Single sided angle head	MONO R Single sided angle head at reduced speed	DUO Double sided angle head	QUATTRO Four sided angle head	ANGULO Corner notching unit	FORTE Lock recess trimming unit	FLEX D Adjustable angle head	FLOATING H Tenso Floating trimming unit	MONO R Single sided angle head at reduced speed	FLEX D Adjustable angle head	FLEX5C / 5-MOTION Adjustable angle head	FLEX5+C / 5-MOTION PLUS Adjustable angle head
Horizontal	≤ 15	•							•			•	•	•
Vertical on the edge of the workpiece	≤ 15		•	•	•	•	•	•	•		•	•	•	•
	= 14									•				
Vertical in the centre of the workpiece	≤ 15		•	•	•	•	•	•	•		•			
	= 14									•				
	≤ 10		•	•	•	•	•	•	•		•		•	•
At any angle	≤ 15								•			•	•	•

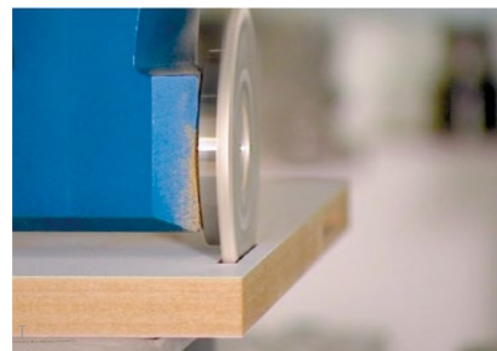
CREATING A 90° CORNER CONNECTION WITH PROFILE SLOT CONNECTORS



DRILLING
Drill the opening to work through.
The connecting system will later be
fixed permanently in place through
the opening.



HORIZONTAL MILLING
Mill the profile slot for inserting the
connector (horizontal machining).



VERTICAL MILLING
Mill the profile slot for inserting the
connector on the mating piece (vertical
machining).



INSERT THE CONNECTOR
The connector can be pushed into the
profile slot manually in just seconds,
without any tools at all.



ASSEMBLY
Join the two workpieces together and
tighten the two connectors through the
opening with a hex wrench.



FINISHED CORNER CONNECTION
After the connectors have been
tightened, the workpiece is mounted
and ready.

VIDEO



Milling profile slots with a CNC machine
Scan QR-Code or go to:
www.youtube.com/BENZwerkzeugsysteme