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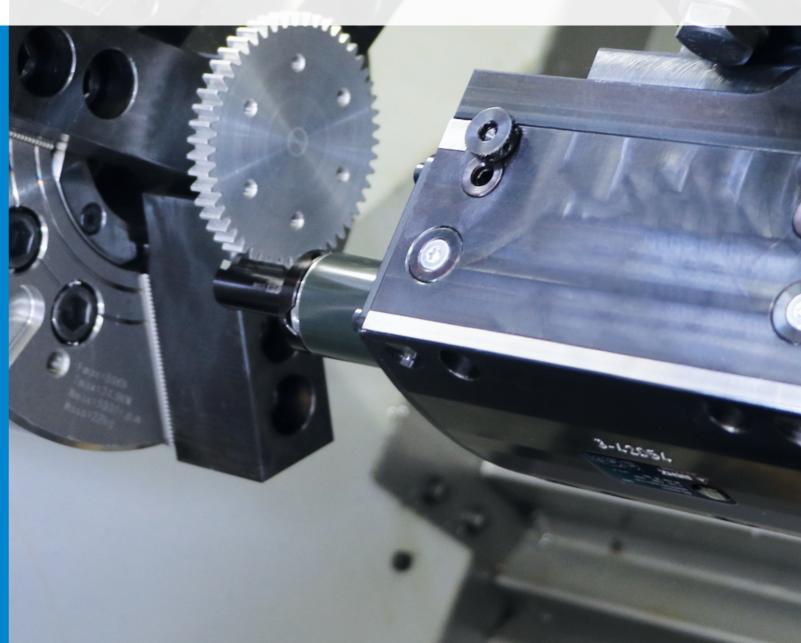


BENZ LINTEC BROACHING UNITS

Tooling technology for CNC turning centers and machining centers

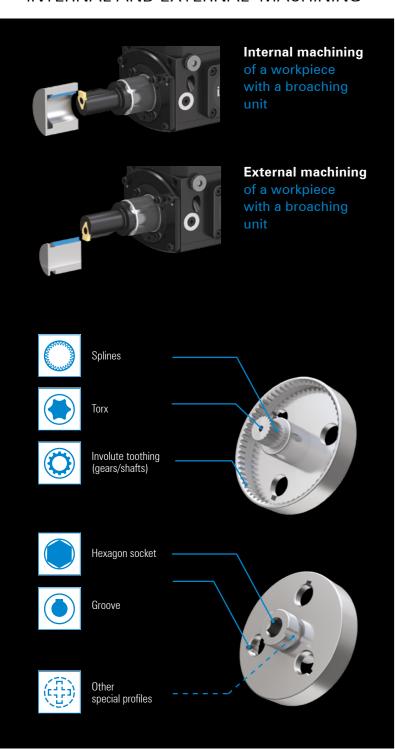
Metal machining





PROCESSING CYCLE

INTERNAL AND EXTERNAL MACHINING



CLAMPING HOLDER



OVERVIEW OF TYPES

BENZ LINA 4.0

Design competitive processes to be more cost-effective Specialized production workflows can be optimized by integrating driven units into machines. The integration of broaching units into a production process is an ideal example of how you can avoid complicated and expensive changeover and retooling processes all the way to complete machining.

As the leading company in broaching technology, BENZ provides units for all common CNC lathes and machining centers. Receive the benefits of our years of experience for your specific application.

The new generation of BENZ units is equipped with internal cooling as standard, which has a positive effect on the tool life of the cutting inserts and thus on the efficiency of the overall process!

CNC-TURNING CENTERS

BENZ LinA 4.0 - DRIVEN



- standard stroke
- long stroke



radial

- standard stroke
- long stroke



radial ≠90°

- standard stroke
- long stroke

TURRET INTERFACES







DRIVE CONE

request

MACHINING CENTERS

BENZ LinA 4.0 - DRIVEN*



axial

- standard stroke

Internal coolant

- long stroke (on request)

radial

- standard stroke
- long stroke
- * machining requires a three-point support

BENZ LinS - STATIC



axial

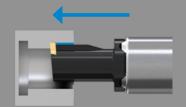
Capto® more on request

TECHNICAL DATA

Variant	S	SL
Usable working stroke	32 mm	51 mm
Total stroke	34 mm	53 mm
No. of double strokes	1.500 min ⁻¹	1.000 min ⁻¹
Material strength _{max}	1000 N/mm²	
Material hardness	31,5 HRC	
Groove width _{max}	12 mm	
Gear ratio variants	2:1 / 1:1	
Feed per stroke _{max}	0,02 mm - 0,1 mm	

desired starting dimension.

Moving to the start position



Cutting movement

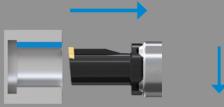
The cutter pushes forward into the workpiece and begins cutting.

Move with the cutter in the x-axis and z-axis at the



Integrated lift-off function

The broaching unit lifts up after the shaping process. It features an integrated lift-off mechanism.



Return stroke as idle stroke

The non-contact return motion during the idle stroke prevents wear and prevents the cutter from breaking during the return motion.

With the x-axis providing continuous feed, the cycle repeats until the desired groove depth has been







Whistle-Notch tool holder

You can find the right solution at your preferred cutting tool manufacturers. We would be happy to pass on corresponding contact information.