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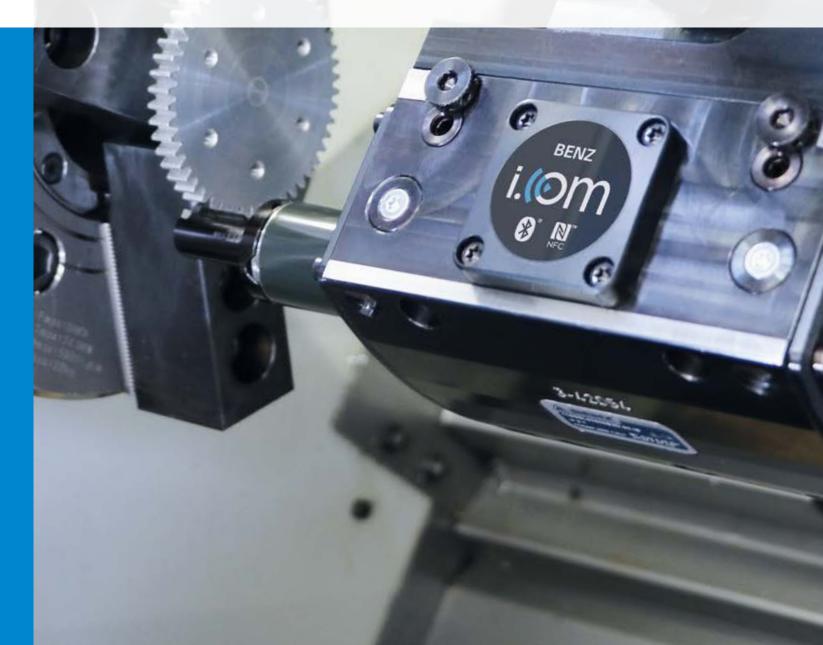


F-341796-EN

BENZ LINTEC BROACHING UNITS

Tooling technology for CNC turning centers and machining centers

Metal machining





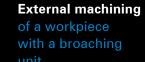


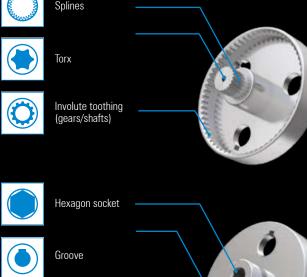
INTERNAL AND EXTERNAL MACHINING



Internal machining with a broaching









CLAMPING HOLDER

For internal and external machining



1**80**°

Prism tool holder

Whistle-Notch tool holder

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

BENZ LINA 4.0

OVERVIEW OF TYPES

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 shaping technology, BENZ provides units for all common CNC lathes and machining

CNC-TURNING CENTERS

BENZ LinA 4.0 - DRIVEN



axial - standard

MACHINING CENTERS

BENZ LinA 4.0 - DRIVEN



axial - standard

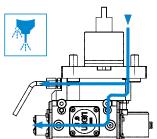
NEW STANDARD EQUIPMENT

Operating hours counter BENZ i.com processes your tool data and gives you important information about the condition of your aggregate.



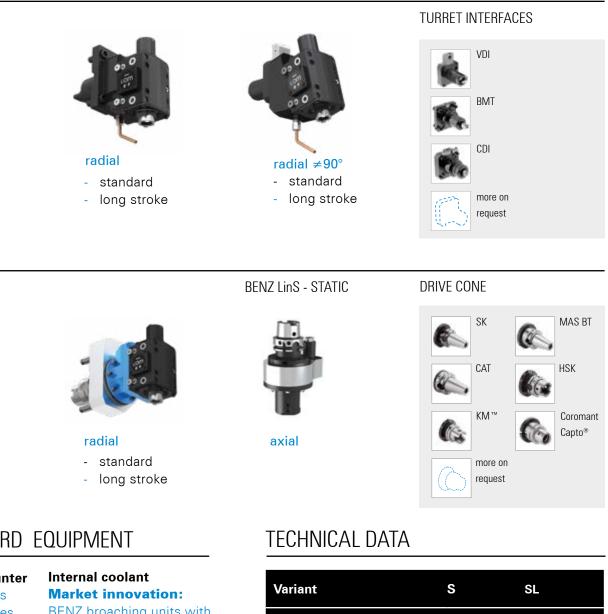
Market innovation: BENZ broaching units with

internal coolant



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!



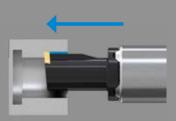
Usable working stroke	32 mm	51 mm
Total stroke	34 mm	53 mm
No. of double strokes	1.500 min ⁻¹	1.000 min ⁻¹
Material strength _{max}	1000 N/mm ²	
Material hardness	31,5 HRC	
Groove width _{max}	12 mm	
Gear ratio variants	2:1 / 1:1	
Feed per stroke _{max}	0,02 mm - 0,1 mm	

FUNCTION PRINCIPLE

PROCESSING CYCLE

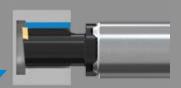


Moving to the start position Move with the cutter in the x-axis and z-axis at the desired starting dimension.



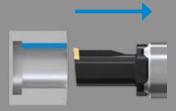
Cutting movement

The cutter pushes forward into the workpiece and begins cutting.



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

