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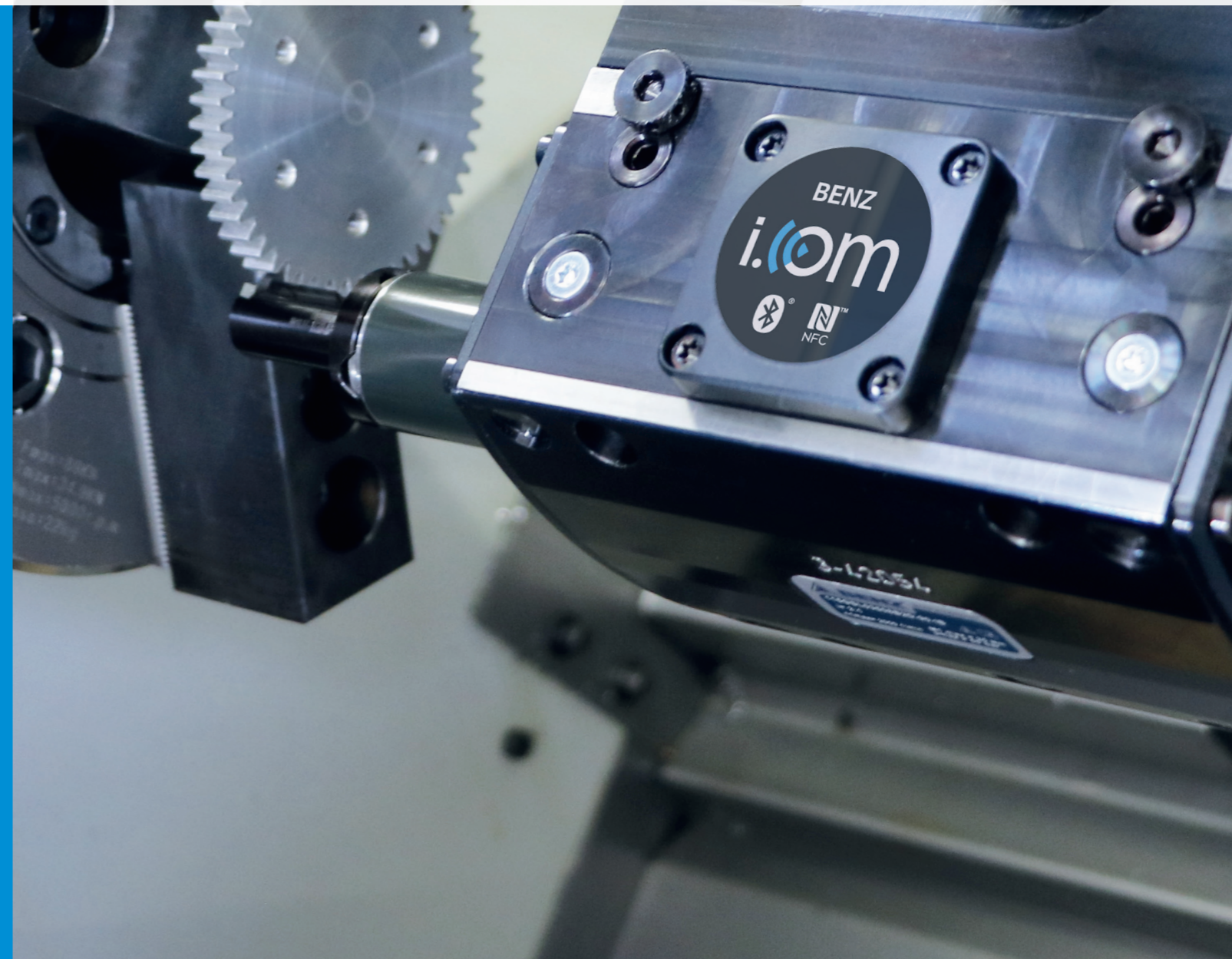
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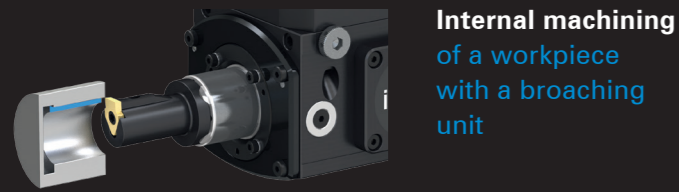
BENZ LINTEC BROACHING UNITS

Tooling technology
for CNC turning centers and machining centers

Metal machining



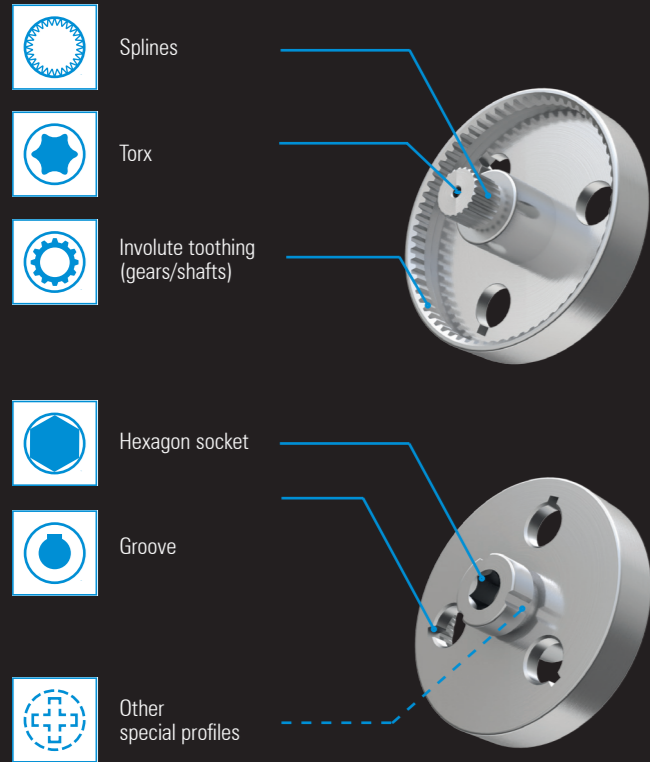
INTERNAL AND EXTERNAL MACHINING



Internal machining of a workpiece with a broaching unit



External machining of a workpiece with a broaching unit



CLAMPING HOLDER

For internal and external machining



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

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 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



axial
- standard stroke



radial
- standard stroke
- long stroke



radial ≠90°
- standard stroke
- long stroke

TURRET INTERFACES

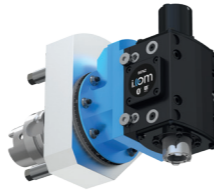


MACHINING CENTERS

BENZ LinA 4.0 - DRIVEN



axial
- standard stroke



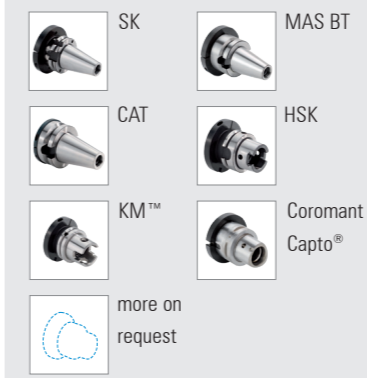
radial
- standard stroke
- long stroke

BENZ LinS - STATIC



axial

DRIVE CONE

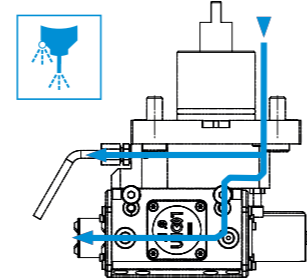


STANDARD EQUIPMENT

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



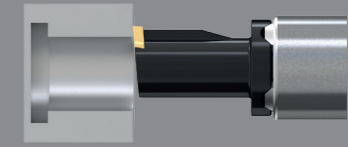
Internal coolant
Market innovation: BENZ broaching units with internal coolant



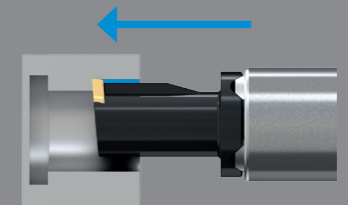
TECHNICAL DATA

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/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

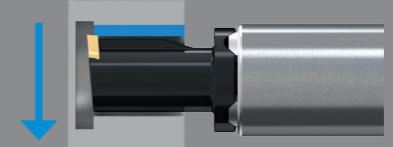
PROCESSING CYCLE



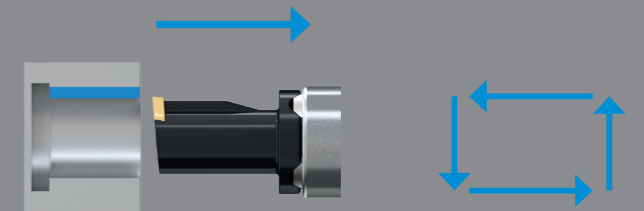
Moving to the start position
Move with the cutter in the x-axis and z-axis at the desired starting dimension.



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 reached.