



PRECISION SPINDLE HEAD KOMflex

The clever combined system
with BLUM measuring stylus

TEAM CUTTING TOOLS



klenk

CERATIZIT is a high-technology engineering group specialised in cutting tools and hard material solutions.

Tooling the Future

www.ceratzit.com



KOMflex

Combined system with precision adjustment head and BLUM measuring probe technology

Unique, automated compensation system

In conjunction with the BLUM measuring probe, the KOMflex enables automated diameter correction for precision holes in unmanned closed-loop operation. The KOMflex precision adjustment head communicates with the BLUM wireless machine equipment.

Compensation of cutting edge wear, e.g. in the case of steel

System usage

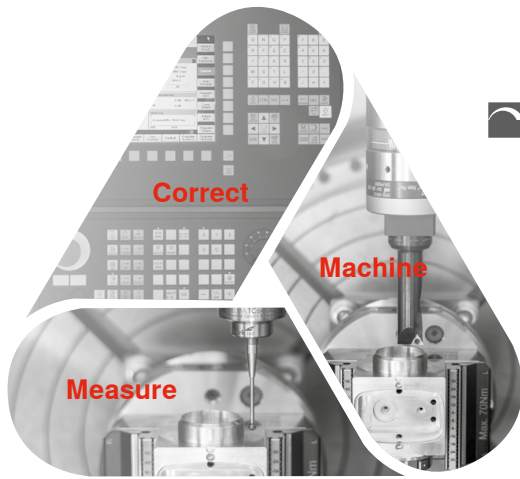
Temperature compensation, e.g. in the case of aluminium

Advantages Benefits

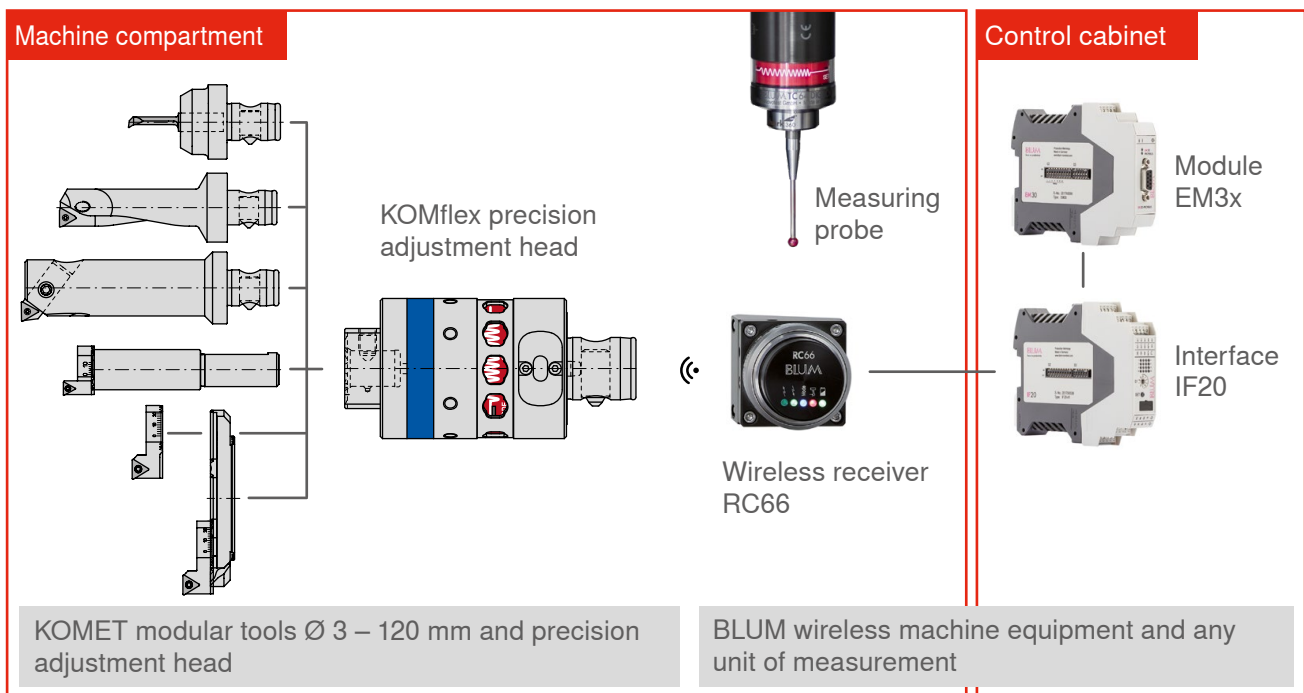
- ▲ **Automated production of precision holes**
Thanks to closed-loop operation, the KOMflex guarantees process-secure machining, even in the case of unmanned operations.
- ▲ **Significant time savings**
Thanks to automated measurement with the BLUM measuring probe and correction with the precision adjustment head.
- ▲ **Ensures the defined quality requirements for the workpiece are met**
Thanks to accurate movement of the precision adjustment head for μm -precise machining with closed-loop operation.

Technical data

Adjustment accuracy	1 μm in radius
Adjustment range	$\pm 0.25 \text{ mm}$
Boring range	$\varnothing 1 - 120 \text{ mm}$
Outer diameter	63 mm
Height	100 mm
Max. RPM	8,000 rpm in centre position
Combined tool interface	ABS 32 / dia. 16 mm / teeth
Interface	ABS 50



**Combines the production steps
from machining to quality
assurance in a closed-loop
system**



The ongoing automation of our production processes will enable us to continue to manufacture our products cost-effectively in future. The KOMflex is the ideal solution for closed-loop operation. This is where we need innovative, forward-thinking partners like CERATIZIT.

Michael Renz, Head of the Actuating Tools product line at KOMET Deutschland GmbH (left),
Alexander Schweiher, Senior Manager at Schweiher Werkzeugbau GmbH & Co. KG (right)

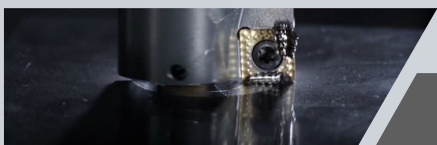


UNITED. EXPERIENCED. METAL CUTTING.



**SPECIALIST FOR INDEXABLE INSERT TOOLS
FOR TURNING, MILLING AND GROOVING**

The product brand CERATIZIT stands for high-quality indexable insert tools. The products are characterized by their high quality and contain the DNA of many years of experience in the development and production of carbide tools.



**THE QUALITY LABEL FOR
EFFICIENT BORE PRODUCTION**

High-precision drilling, reaming, countersinking and boring is a matter of expertise: efficient tooling solutions for drilling and mechatronic tools are therefore part of the KOMET brand name.



**EXPERTS FOR ROTATING TOOLS,
TOOL HOLDERS AND CLAMPING SOLUTIONS**

WNT is synonymous with product diversity: solid carbide and HSS rotating tools, tool holders and efficient workholding solutions are all part of this brand.



**CUTTING TOOLS
FOR THE AEROSPACE INDUSTRY**

Solid carbide drills specially developed for the aerospace industry bear the product name KLENK. The highly specialised products are specifically designed for machining lightweight materials.

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