

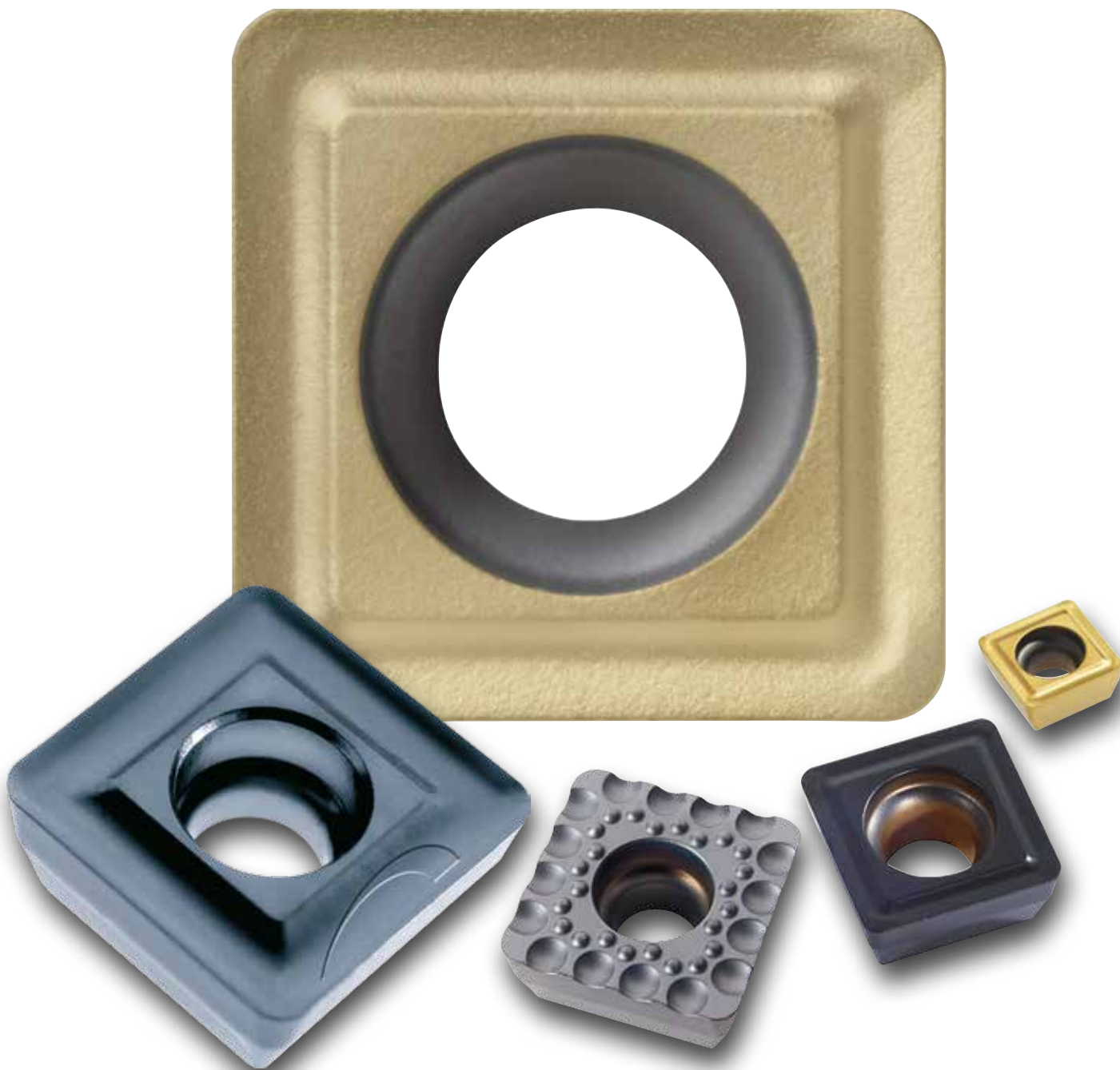
W83 indexable insert
TOTAL Quatron



W83 indexable insert

- Significantly more stable than conventional ISO indexable inserts, providing improved process reliability
- Using just one indexable insert with tried and tested quality for a wide range of applications reduces storage requirements and logistics costs (e.g. clamping screws, etc.)
- Developed, optimised, pressed, sintered, coated, tested, packaged and stored – Made by KOMET ... for maximum performance
- High cost-effectiveness thanks to four cutting edges
- Five topographies and a wide range of tough, high-strength basic substrates in conjunction with cutting-edge coatings ensure maximum productivity and functionality

Versatile range of indexable inserts with four cutting edges





KOMET KUB Quatron®
High-performance drill up to dia. 65 mm

▶ 4



KOMET® Quatron *hi.feed*
High-feed milling cutter

▶ 8



KOMET KUB Centron® Powerline
Drilling depths of up to 9xD

▶ 5



KOMET® Quatron 90
Shoulder milling cutter

▶ 9



KOMET TwinKom® G01 double-cutter
Axially and radially adjustable drilling tool

▶ 6



KOMET® Quatron *Chamfer*
Chamfer milling cutter

▶ 10



KOMET Kometric® installation sets
Flexibility for bore machining

▶ 7



KOMET® Easy Special
Simple special tools

▶ 11

KOMET KUB Quatron®

W83..01 | W83..21
for workpiece materials
P M K N S H

2xD
3xD

Ø 14
- 65



High-performance drill up to dia. 65 mm

Thanks to its square indexable inserts with four cutting edges on the inside and outside of the insert, the KOMET KUB Quatron® guarantees maximum tool life, a high degree of stability and cost-effectiveness.

Applications

- Drilling depths of 2xD and 3xD
- Diameter range from 14.0 mm to 65.0 mm
- Suitable for technologically complex machining operations such as uninterrupted cuts, mould drafts, packages and mill scale
- Significantly higher cutting parameters, resulting in improved productivity
- Large chip channels
- Optimum coolant supply

Benefits for you:

- High level of stability and cost-effectiveness thanks to the fitting of square indexable inserts
- High level of process reliability
- Optimum chip removal
- Exceptional drilling quality
- Maximum tool life
- As Easy Special stepped tools with different indexable inserts
- Reduced storage costs and ease of handling thanks to identical internal and external indexable inserts
- Intermediate dimensions can be supplied within 4 weeks



KOMET KUB Centron® Powerline

W83..01 | W83..21
for workpiece materials
P M K N S H

4xD
6xD
9xD

Ø 20
– 65



Maximum drilling performance and dimensional accuracy at drilling depths of up to 9xD

In conjunction with the double-edge insert design, this tool ensures extremely high performance in all standard materials.

The centring point of the KOMET KUB Centron® Powerline guides the tool precisely in the drilling axis and thereby ensures dimensional accuracy, straightness and maximum process reliability at drilling depths of up to 9xD. The extremely stable Quatron indexable insert ensures maximum stability and optimum chip removal, even at maximum drilling depths.

The new KOMET KUB Centron® Powerline can be used in all existing KOMET KUB Centron® basic elements. Enables drilling up to 9xD on flat, even surfaces without a pilot hole.

Applications

- Turbine housings
- Pole pieces
- Rotor blades
- Bushings
- Bearings (large bearings for wind turbines)

Benefits for you:

- Maximum dimensional accuracy at deep drilling depths
- Transmission of extremely high torques
- Guaranteed central positioning of the core bit
- Doubling of the feed values
- Reduction in production times
- Stable drilling process thanks to tried and tested cutting edge geometry
- Maximum tool life through the use of the most modern cutting materials and coatings
- Compatibility with the tried and tested KOMET KUB Centron® range



KOMET TwinKom® G01 double-cutter

W83..01
for workpiece materials
P M K N

Ø 24
- 125



Axially and radially adjustable drilling tool

KOMET TwinKom® G01 is the right tool for counterboring in the 24 mm to 215 mm diameter range. The axially adjustable tool cutting edge holder and radially adjustable clamping holders ensure even cutting across the two cutting edges, as well as an absolute double edge.

When carrying out combi-roughing and semi-finishing, division of the total cutting width is achieved by means of axial and radial offsetting of the cutting edge. This ensures a better distribution of cutting forces, meaning that intermediate machining is often unnecessary.

Benefits for you:

- Best dimensional accuracy of the cutting edges
- Ensures good cylindricity, even for drill holes which are long and/or have a large diameter
- Radially adjustable clamping holders for an absolute double edge
- At greater cutting depths, radially adjustable clamping holders enable even cutting distribution
- Compact tool design
- In the case of deep drilling operations, the spiral grooves have a chip-conveying effect



W83..01 | W83..21
for workpiece materials
P M K N S H

Ø min
25

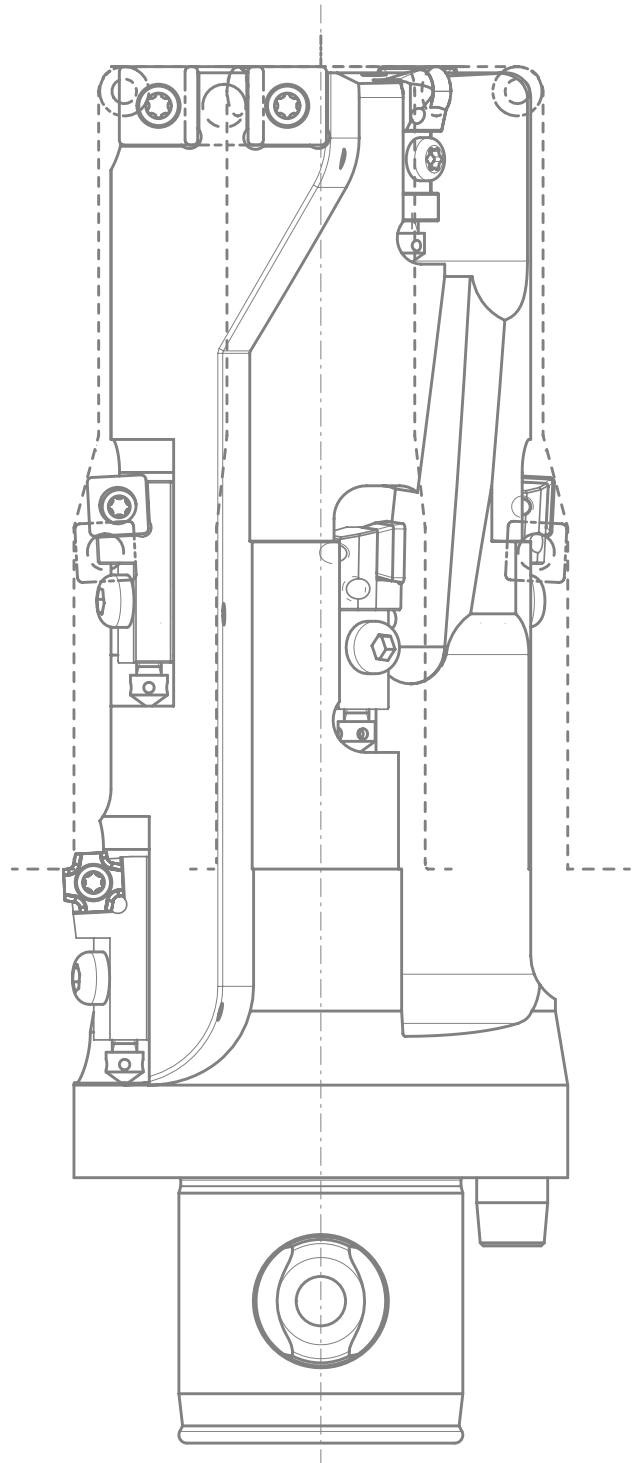
$\kappa=87^\circ$
 $\kappa=75^\circ$
 $\kappa=45^\circ$

Flexibility for bore machining

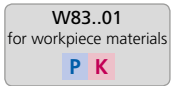
With the Kometric® installation sets, KOMET offers a simple and cost-effective method of installation for indexable inserts and precision turning inserts in tools, ensuring the greatest possible versatility in the smallest possible space. Using special tools enables multiple machining tasks to be combined in a single step, reducing manufacturing costs without sacrificing quality.

Benefits for you:

- Easy to assemble
- Minimal space requirements
- Flexible use
- Reduces manufacturing costs



KOMET® Quatron *hi.feed*



High-feed milling cutter

The success enjoyed by our tried and tested KUB Quatron® solid drill range continues in our new milling cutter range. With the unique Quatron indexable insert developed from solid drilling technology, we are applying our experience to the new KOMET® Quatron *hi.feed* milling cutter. Plunge milling (also known more simply as plunging) is a type of machining particularly suitable for cutting deep grooves and large cavities. Plunge milling can be the ideal solution for large projection lengths and unstable conditions.

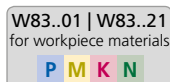
Applications

The KOMET® Quatron *hi.feed* is a high-performance roughing tool (plunge milling cutter) for the rapid removal of large quantities of cut metal.

Benefits for you:

- Holes can be milled with just one tool rather than enlarging them with several drilling tools
- Your production costs per cutting edge are lower as a result of using four cutting edges per insert
- Increase in productivity thanks to high-volume chip removal
- Deflection of passive forces in an axial direction. Plunge milling puts less stress on the spindle thanks to the reduced load
- Various substrates enable universal use for steel, cast materials and stainless materials
- High feed rates can be achieved – up to 2 mm per cutting edge
- Ideal for producing large holes using small and low-powered machines





Shoulder milling cutter

Thanks to its versatile Quatron indexable insert, the KOMET® Quatron 90 shoulder milling cutter with the universal-01 geometry produces precise 90° shoulders with no offsets.

The stability and versatility of the KOMET® Quatron 90's cutting edges put it head and shoulders above the rest.

Benefits for you:

- The milling cutter runs exceptionally smoothly and quietly
- High material removal rate when plunge milling
- The W83 indexable insert enables universal use, reducing storage and logistic costs
- Highly stable indexable insert for greater process reliability



KOMET® Quatron Chamfer

W83..01 | W83..21
for workpiece materials
P M K N

Ø 12
- 44



Thread

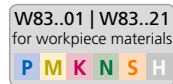
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Chamfer milling cutter

The chamfer milling cutter is optimally tailored to your requirements and is suitable not only for chamfering workpiece edges and large holes, but also for both forward and reverse machining. The Quatron indexable insert used here has already distinguished itself in a number of applications.





Simple special tools

Is there no solution in the standard range?

Are the dimensions not what you require?

Design your own tool!

Easy Special makes it possible for you create your own combination of standard modules in the widest variety of dimensions. Select the basic type, define the useful length and choose the desired adapter for the tool. We check your specifications to ensure that they are technically feasible and you receive a prompt reply.



KOMET® TOTAL Quatron

W83..01

Universal topography
with stable cutting edge

- KUB Quatron® solid drill
- KUB Centron® Powerline solid drill
- TwinKom® double-cutter drilling tool
- Kometric® installation elements
- KOMET® Quatron *hi.feed* high-feed milling cutter
- KOMET® Quatron *90* shoulder milling cutter
- KOMET® Quatron *Chamfer* chamfer milling cutter

Ideal for all roughing operations. Suitable for medium and strong steel materials and grey cast iron, depending on the quality.

All-round geometry: Wear-resistant indexable insert for universal use.



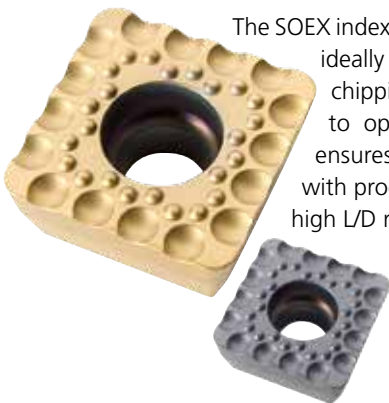
W83..03

Extreme chip breaking properties
for long-chipping and stainless
steel materials

- KUB Quatron® solid drill
- KUB Centron® Powerline solid drill
- TwinKom® double-cutter drilling tool
- Kometric® installation elements

Generally suitable for all steels, in particular for long-chipping steel materials and stainless steels.

The SOEX indexable insert topography is ideally suitable for use in long-chipping materials and, thanks to optimum chip formation, ensures the removal of chips with process reliability, even with high L/D ratios.



W83..21

Sharp, highly positive topography for
non-ferrous metals

- KUB Quatron® solid drill
- KUB Centron® Powerline solid drill
- TwinKom® double-cutter drilling tool
- Kometric® installation elements
- KOMET® Quatron *90* shoulder milling cutter
- KOMET® Quatron *Chamfer* chamfer milling cutter

For machining stainless
and general steels and for
aluminium materials.



W83..13

Highly positive topography
with strong chip breaking properties

- KUB Quatron® solid drill
- KUB Centron® Powerline solid drill
- TwinKom® double-cutter drilling tool
- Kometric® installation elements

Ideal geometry for steel with low
carbon content and stainless steels.
Medium to high cutting speeds for
internal and external cutting edges.



W83..32/33

For reduced burr formation
at the exit of drilled holes

- KUB Quatron® solid drill
- KUB Centron® Powerline solid drill

For machining steel and cast
materials. Minimised burr formation
at the entrance and exit of drilled
holes.

