

WTO
Higher Productivity



Higher Productivity Pays

Static and Driven Precision Toolholders
for Turning Centers



Manufacturing high precision parts highly productive.

Precision machine tools manufacture precision holders. The constant invest in new machines and technology is our strategy for efficient manufacturing.

In use the world over.

Our products are in use at many different places where high precision parts are manufactured with efficiency.

In partnership with our customers.

WTO being a manufacturer itself knows how important reliable partners are with long lasting experience and a constant high standard of quality.



“For more than 28 years WTO has always set the benchmarks for driven tool technology with its inventions.”

*Dipl. Ing. Sascha Tschiggfrei,
CEO WTO GmbH.*

Our exclusive aim is “Higher Productivity”.

Manufacturing high precision parts highly productive.

With this demand WTO designs and produces technological and qualitative top-quality precision toolholders and tooling systems for turning centers, Swiss Type turning centers and cycle controlled lathes.

From the technology and market leader for your enduring success.



Quality without compromise.

All manufacturing steps are performed to highest perfection.

From the technical design until the production of the final products we do not make any compromise in quality.

At WTO not only the final products but also all manufacturing steps are inspected and documented. All our products are measured on high precision 3D coordinate measuring machines.

Excellence in Technology.

Higher productivity and long tool life are based on a simple premise:
Our products are technologically and qualitatively superior.

Consequence in new developments always a step ahead.

In different teams, our engineers constantly develop new and innovative products. The results are numerous developments and patented solutions which have pioneered driven tool technology.

There is no substitute for experience.

An additional key to success is our focus on state of the art engineering and manufacturing of precision toolholders for more than three decades. That's what made WTO the leader in driven tool technology.

*“Quality and precision are our
reputation.”*

*Karlheinz Jansen,
Technical Director and member of management
WTO GmbH.*





WTO

WTO

Static Toolholders

Precision static toolholders from WTO for the full capacity of your machine.

| Precision static toolholders

All WTO static toolholders are manufactured according to the new ISO 10889 with the highest care and accuracy. Each toolholder is made from high tensile strength steel, hardened, blacked and precision ground.



Your benefit with WTO's static toolholders

Our static toolholders are individually designed for each turning center and manufactured with the highest precision so that you are able to use the full capacity of your machine.





Performance Series®

Precision driven toolholders from WTO for high cutting performance and long tool life.

| Performance Series®

Optimized for each turning center the Performance Series® is developed for high cutting performance and long life time.

The Performance Series® is the standard program from WTO and combines innovative technology with top quality.



Your benefit with WTO's Performance Series®

The higher cutting performance of the Performance Series® provides an enormous cost saving potential by reducing cycle time for drilling and milling. Through this, your machine will achieve higher productivity.



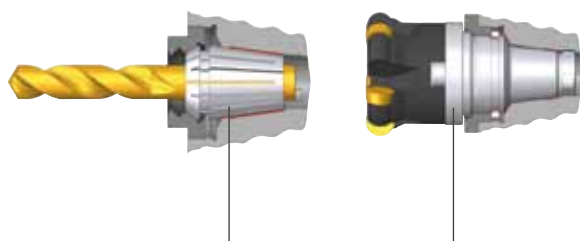
- 1** – Toolholder
- 2** – QuickFlex® chuck
- 3** – Collet
- 4** – Collet nut
- 5** – QuickFlex® adapter
- 6** – One-hand wrench (patent pending)
- 7** – Thread for QuickFlex® adapter and collet nut
- 8** – Short taper for radial centering and axial support of the QuickFlex® adapter
- 9** – Taper of the ER collet chuck
- 10** – Polygonal torque transmission for QuickFlex® adapter
- 11** – Radial bending support of the QuickFlex® adapter for high stiffness under load



QuickFlex®

The perfect combination:
ER collet chuck and quick
change system in one driven
toolholder made by WTO.

Permanent accuracy of the run-out is guaranteed by two independent taper connections.



With ER collet

With QuickFlex® mill arbor adapter

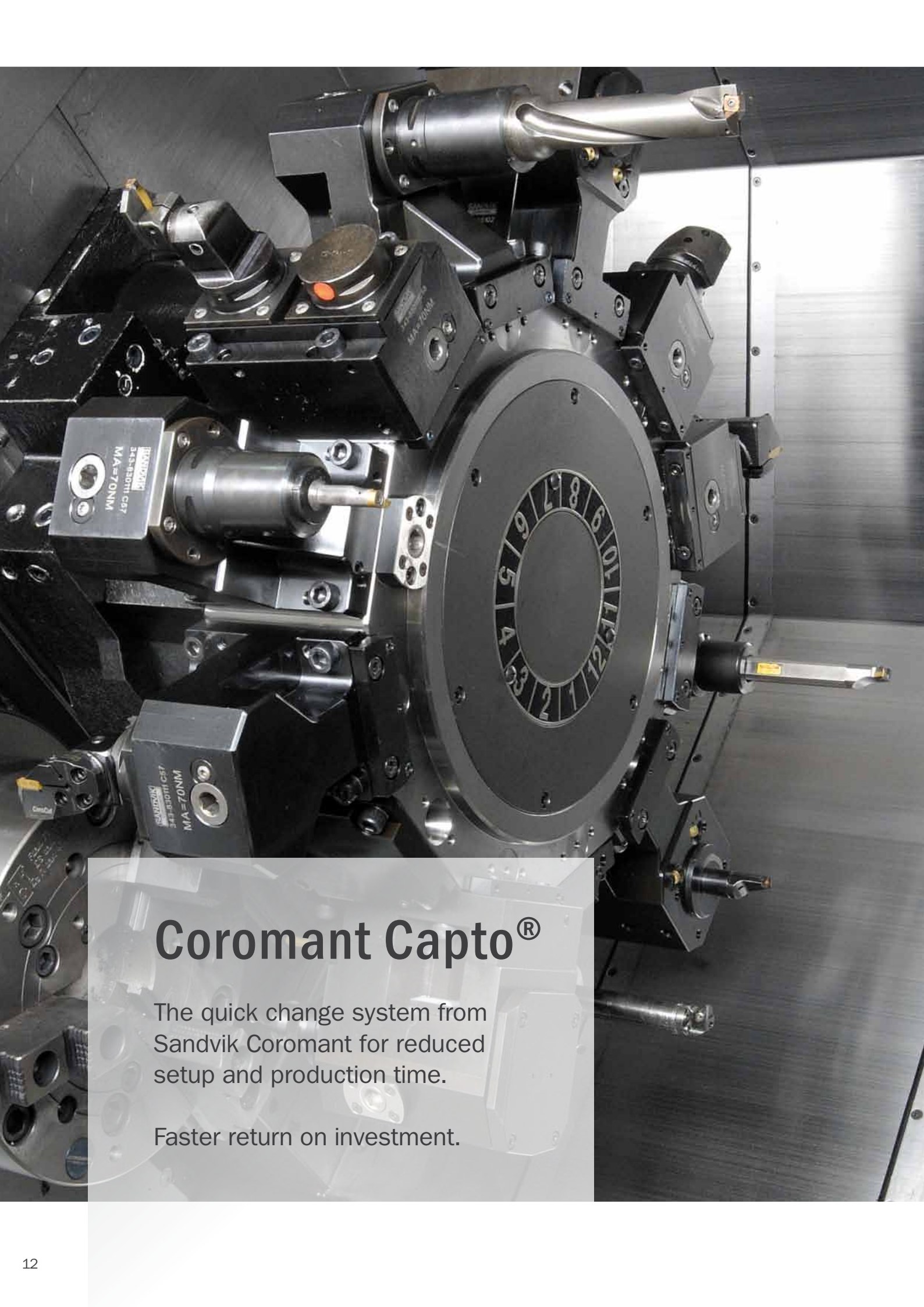


QuickFlex®—Your benefit

Minimum investment, maximum expandability.
Use it as a quick change system at any time.

Quick and safe tool change with the new one-hand
wrench (patent pending).





Coromant Capto®

The quick change system from Sandvik Coromant for reduced setup and production time.

Faster return on investment.

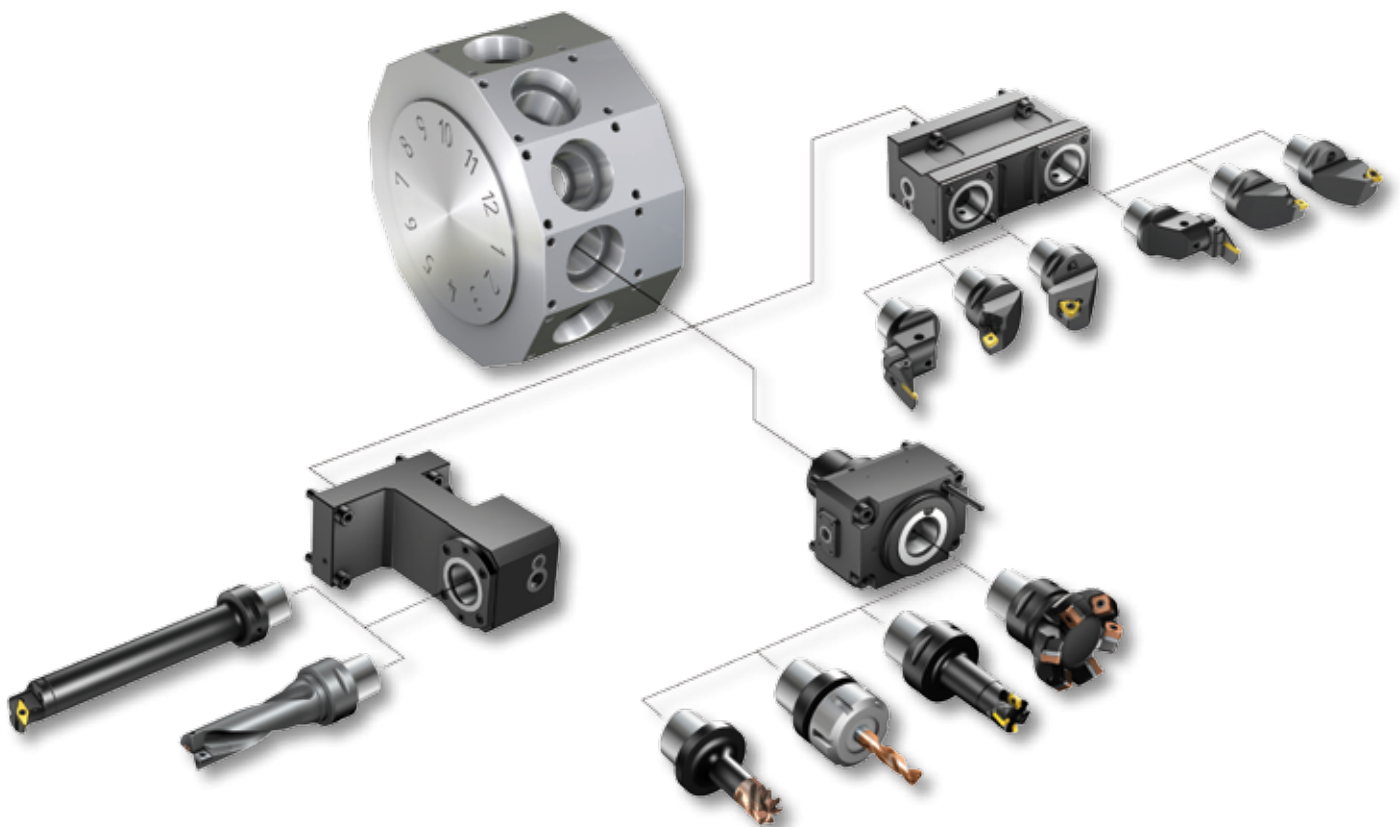
| **Interface ISO 26623**

Coromant Capto® is a modular quick change system certified according to ISO 26623 for turning centers. It combines highest stability and rigidity while at the same time offering the highest flexibility in one system.

The worldwide available and most comprehensive quick change system for turning centers is offered for turning, drilling and milling operations.

| **Your benefit with Coromant Capto®**

- Reduced setup and production time based on faster tool change
- High performance
- High flexibility
- High security of investment due to ISO standard
- Sales worldwide via Sandvik Coromant



More additional benefits with WTO's short adapters

For precision driven toolholders with Coromant Capto® the use of short adapters with no gripper groove lead to significant advantages:

- | More available cutting tool length
- | Higher accuracy
- | Higher stability
- | Sales worldwide via Sandvik Coromant



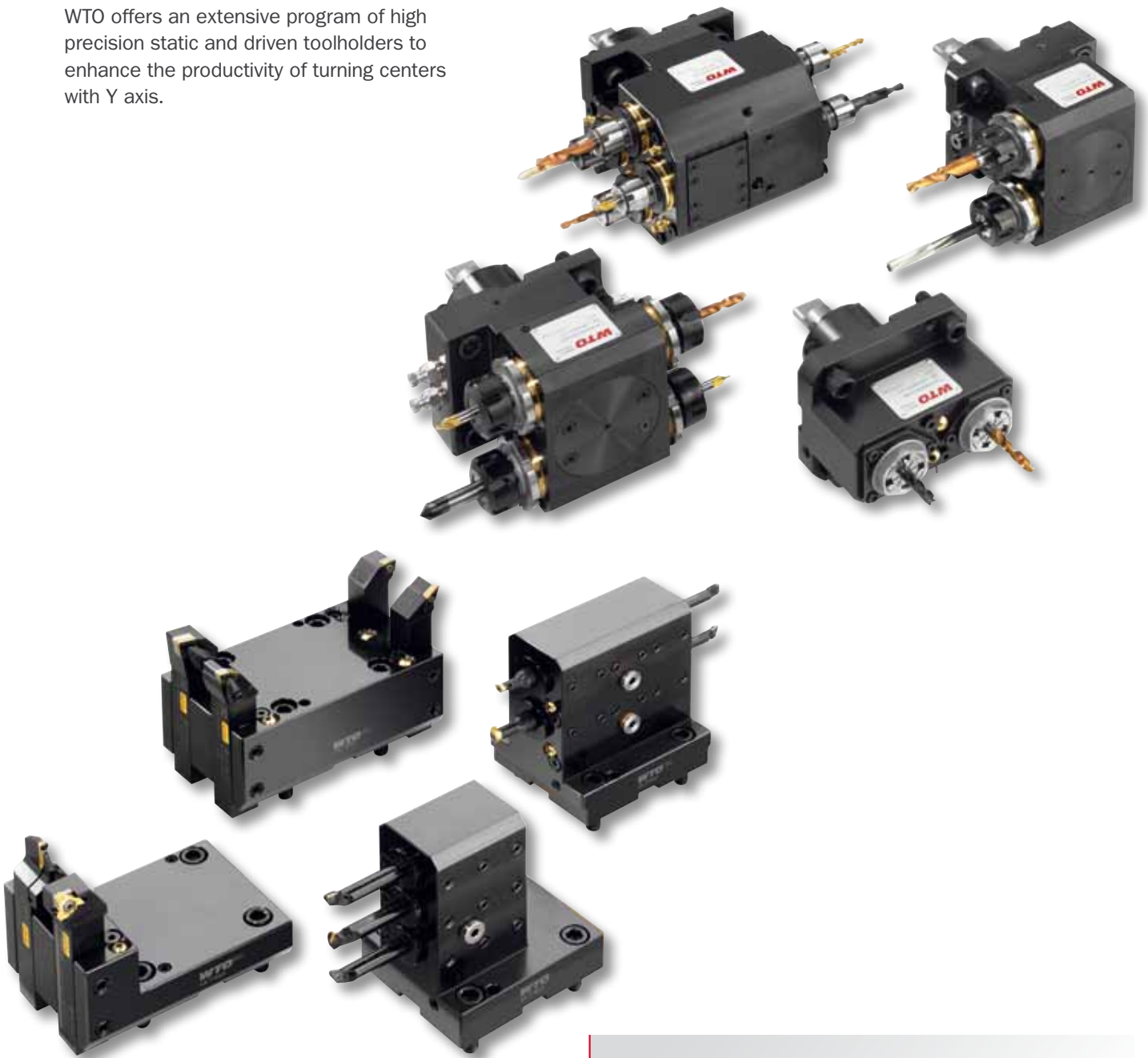


Multiple Toolholders

from WTO to multiply the available tools on turning centers with Y axis.

| Extensive program available

WTO offers an extensive program of high precision static and driven toolholders to enhance the productivity of turning centers with Y axis.



Your benefit with WTO's multiple toolholders

The enhancement of available cutting tools allows the production of more complex and a more comprehensive range of work pieces on a turning center without changing the machine set-up.

- | More complex and more comprehensive range of work pieces
- | Reduced setup and production time
- | Multiplication of productivity



Gear Hobbing Units

from WTO to manufacture gears with different geometries and requirements.

| Best results; easy and fast handling

Due to the rugged and compact design, as well as the amply dimensioned gearing, good serration qualities can be achieved.

The WTO typical easy handling already becomes noticeable when changing the cutting tool. The counter support is removable and therefore the cutting area is easy to reach.

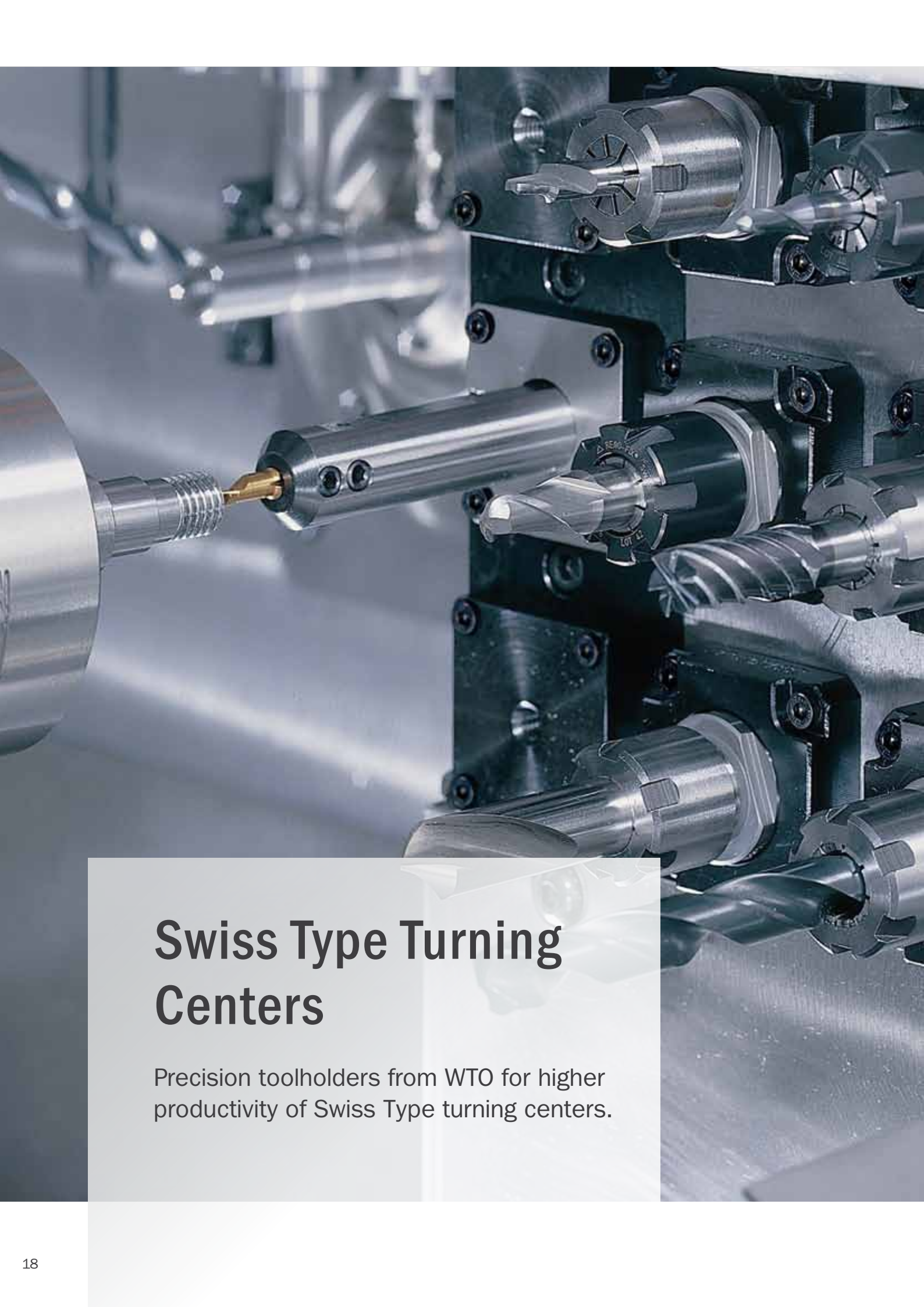


Your benefit with WTO's gear hobbing units

Our gear hobbing units are individually designed for each turning center.

- | Maximum scale swing of $\pm 30^\circ$
- | Easy cutting tool change through removable counter support and withdrawal of the complete milling arbor
- | Interchangeable milling arbor available in different sizes
- | Usable for machining gear quality according to standard AGMA 8





Swiss Type Turning Centers

Precision toolholders from WTO for higher productivity of Swiss Type turning centers.

| Large product range to increase higher productivity

Besides the standard versions for axial and radial operations we are offering application specific driven toolholders to increase the productivity of your Swiss Type turning center:

- Thread whirling units
- Gear hobbing units
- Adjustable angle drill/milling units
- Deep hole drilling units up to 200 bar coolant pressure
- Slitting saw units

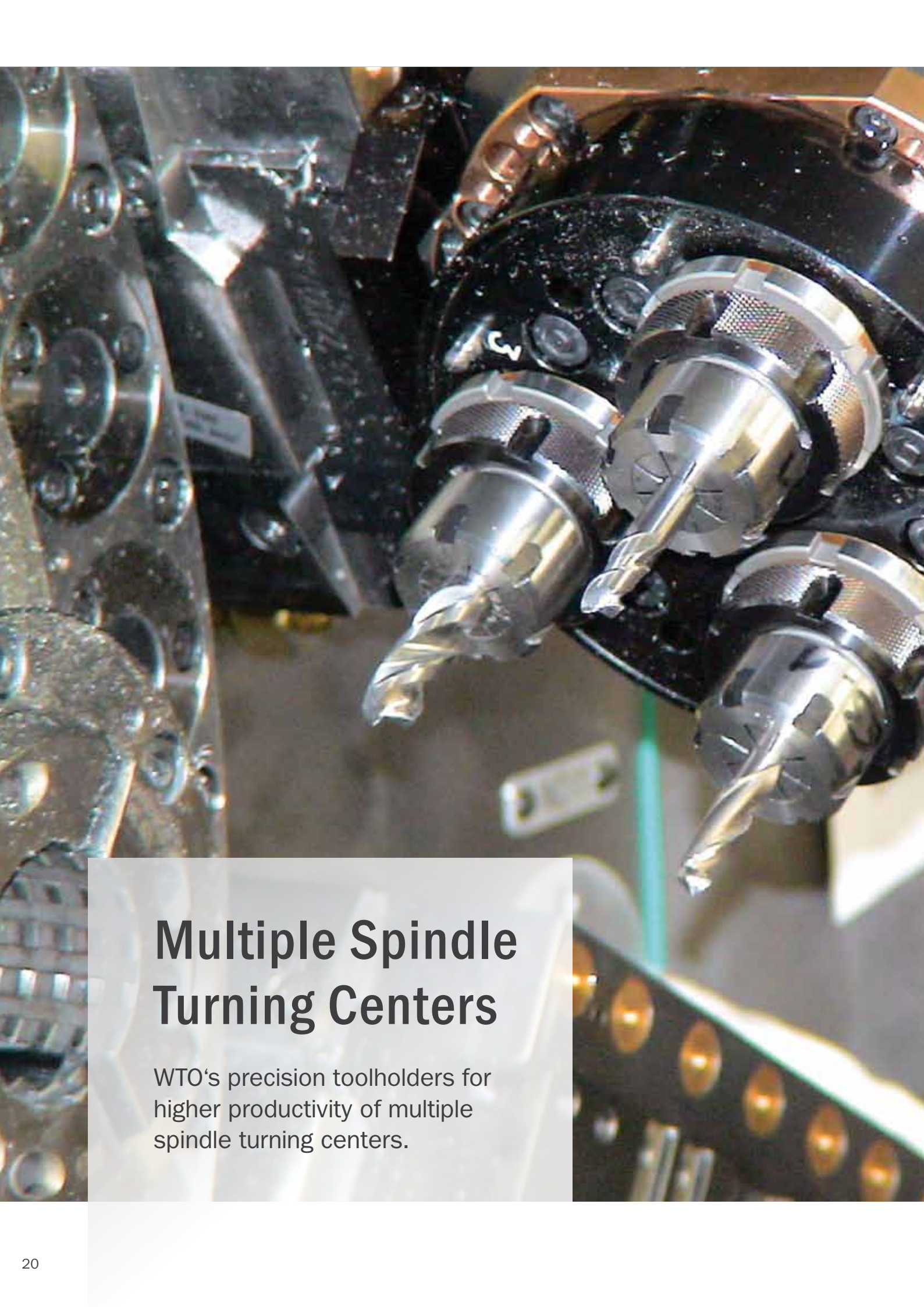


Your benefit with WTO's thread whirling units

New designed quick change system with bayonet nut (patent pending)

- | Significantly reduced tool change time
- | Low run out tolerance and high repeatability of the inserts (± 0.005 mm)
- | Suitable inserts and holders available from leading cutting tool manufacturers





Multiple Spindle Turning Centers

WTO's precision toolholders for higher productivity of multiple spindle turning centers.

| Precision toolholders for turning

Modular and monoblock toolholders for OD and ID turning operations.

| Driven toolholders

- Drill/milling units for axial and radial operations
- Adjustable angle drill/milling units
- Drill/milling units with speed increase or torque increase
- Deep hole drilling units up to 200 bar coolant pressure
- Gear hobbing units

| Aggregates

- Stroke increaser
- Linear slide turret
- Cross slide turret



Your benefit with WTO's aggregates for multiple spindle turning centers

- | Individually designed for each multiple spindle turning center
- | Larger spectrum of work pieces are producible
- | Comprehensive program of specific units for each machine are available



Excellence in Technology – Made in Germany

In accordance with our philosophy “Quality without compromise” we are manufacturing our products exclusively in Ohlsbach, Germany. Here 150 workers produce precision toolholders for today and tomorrow.



Online Catalog

Searching online for a precision toolholder which exactly fits to your machine? And you want to make your request online? Then our online catalog is unbeatable.

Easy selection and fast access guaranteed.



Family owned and traditional medium size enterprise.

Our customers and our employees benefit from the family owned and medium size enterprise: short lines of communication and decision, a working atmosphere based on confidence and respect, ability to work independently, continuous training and close contact between the different teams and to our customers.

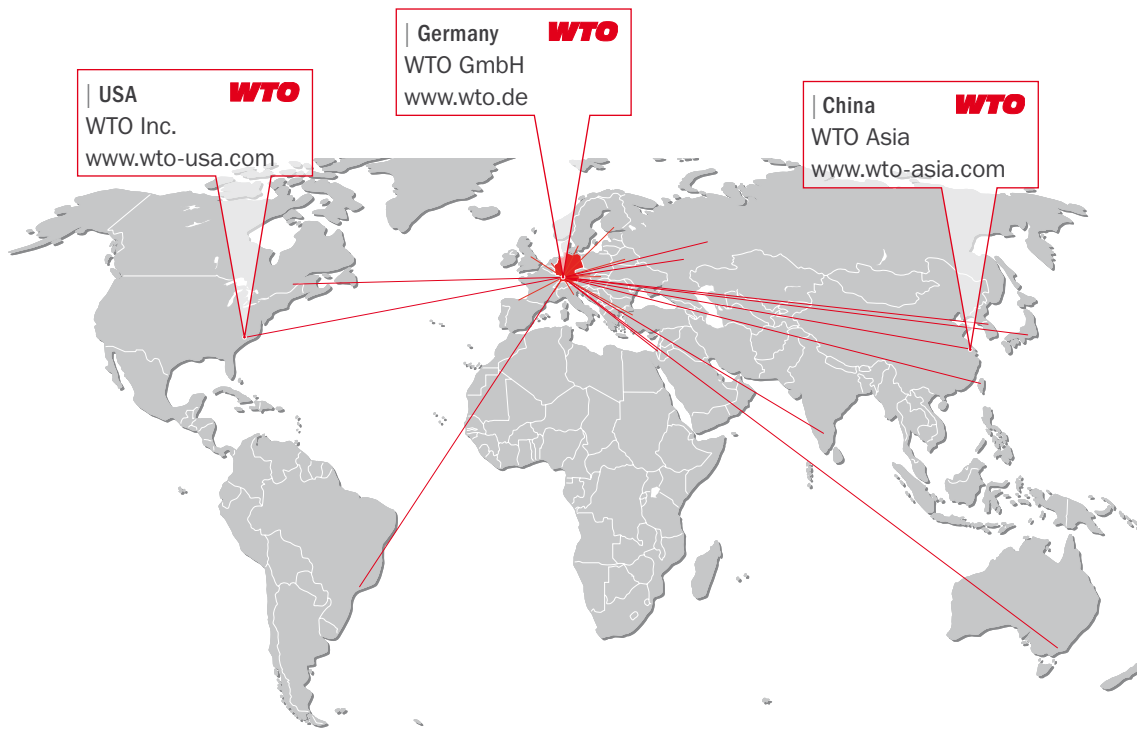
*“Our key factor:
100% customer oriented”.*

Daniel Sierra, Sales Director WTO GmbH.



WTO worldwide

WTO
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