



# WIBROGUARD®

FEINAUSWUCHTSYSTEM • PRECISION BALANCING SYSTEM

PATENT PENDING



**Radiale und axiale Auswuchtringe und Spanscheiben**  
*Radial and axial balancing rings and clamping discs*



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 MADE IN GERMANY

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WIBRO**GUARD**: **Feinwuchten neu definiert**  
Maximale Laufruhe bei minimalem Aufwand.

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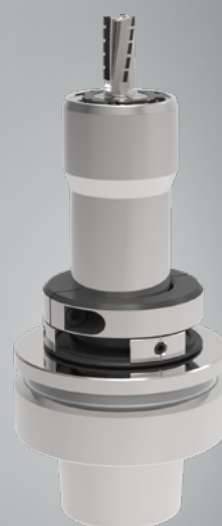
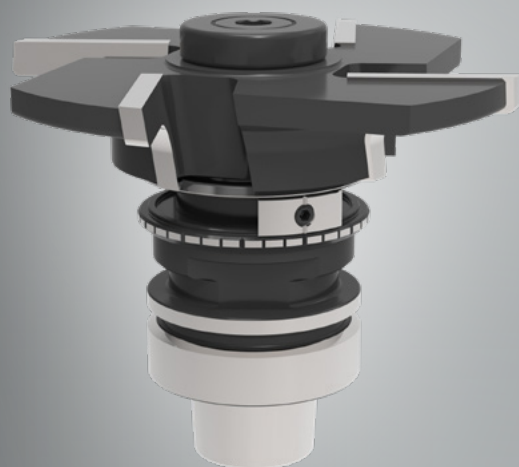
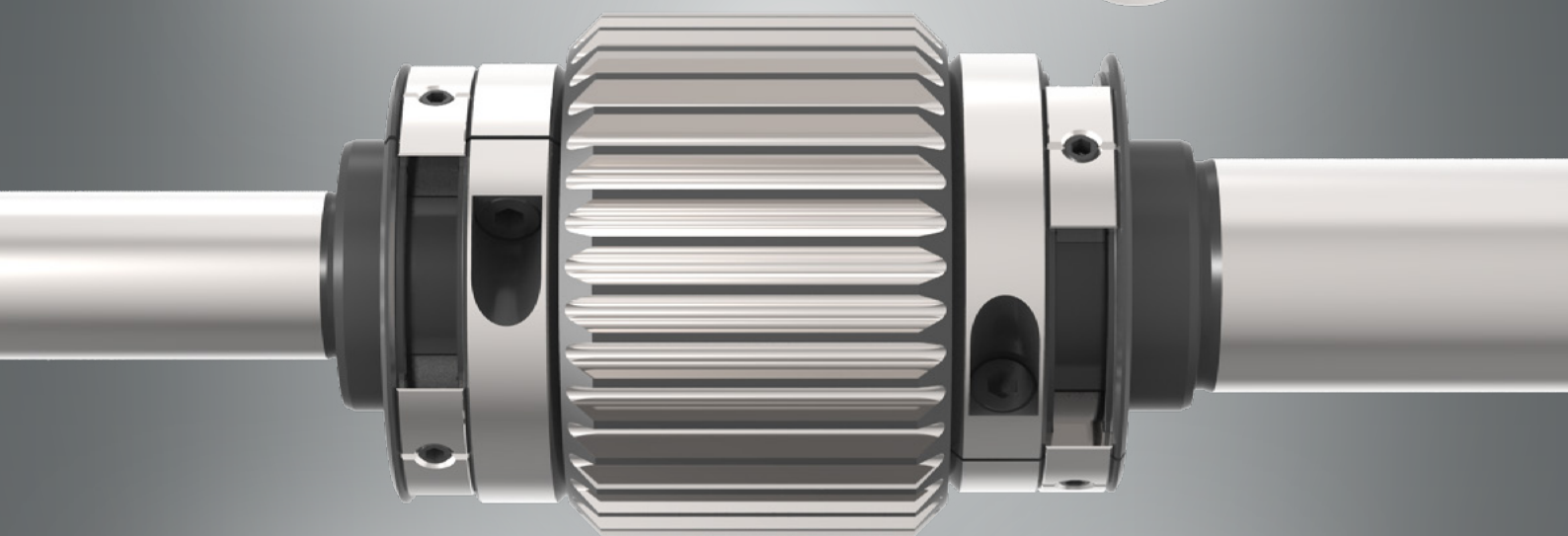
WIBRO**GUARD**: **Precision balancing redefined**  
Maximum smoothness with minimal effort



# ANWENDUNGSBEISPIELE

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## APPLICATION EXAMPLES



# WIBROGUARD®

T-Tool balancing system (dynamic and static)

## **Precision redefined: The universal balancing system from T-Tool Precision GmbH**

In modern high-speed machining, nuances determine quality and cost-effectiveness. Even the smallest imbalances generate enormous centrifugal forces at high speeds, which wear down tools and damage expensive machine spindles. The new balancing system from T-Tool Precision GmbH solves this challenge more easily and reliably than ever before.

### **Your advantages at a glance:**

- Maximum tool life: Reduced vibrations protect the cutting edges from premature wear.
- Superior surface finish: Highest precision directly on the workpiece.
- Spindle protection: Prevention of bearing damage through minimized vibration.
- Enormous time savings: No material removal, no tedious screwing in and out of set screws.

### **Innovative. Fast. Reliable.**

The system enables both dynamic balancing (2 planes) and static balancing (1 plane) for grinding and milling mandrels as well as other rotating tools and shafts.

The major advantage: Everything happens directly on the balancing machine.

Without having to remove the tool holder, the integrated balancing blocks (balancing elements) are moved with millimeter precision according to the software specifications. Everything takes place on the balancing machine without material removal or the tedious insertion and removal of small threaded studs.

**The result is a perfectly balanced tool in record time.**

# THE WIBROGUARD® OPERATING PRINCIPLE

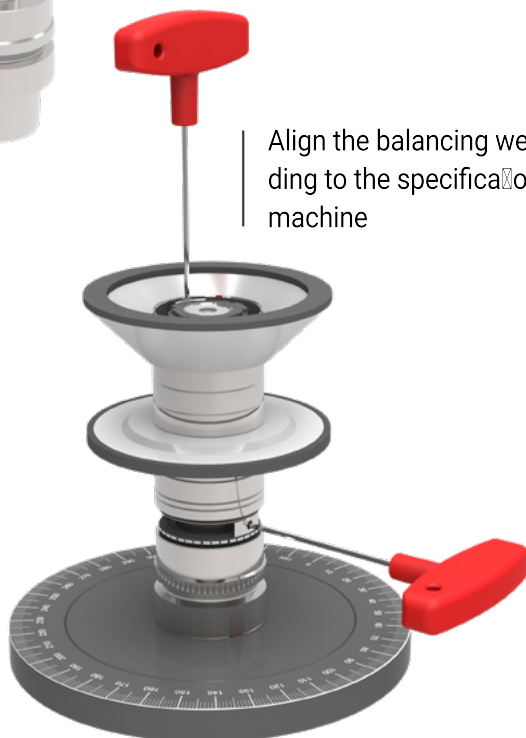
**Maximum smoothness with minimal effort: Discover the next generation of dynamic and static balancing.**



Assemble the mandrel and clamp it using the proven Zeta safety clamping system



Dynamic balancing on two planes to determine the unbalance

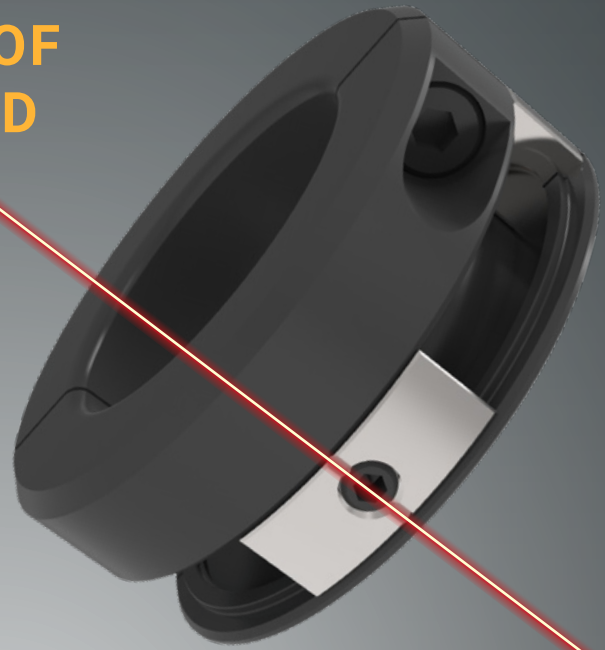


Align the balancing weights exactly according to the specifications of the balancing machine



Result: A perfectly balanced grinding mandrel without removing material or the need to subsequently screw in and unscrew small threaded pins

## THE SYSTEM CONSISTS OF DIFFERENT COORDINATED BALANCING ELEMENTS

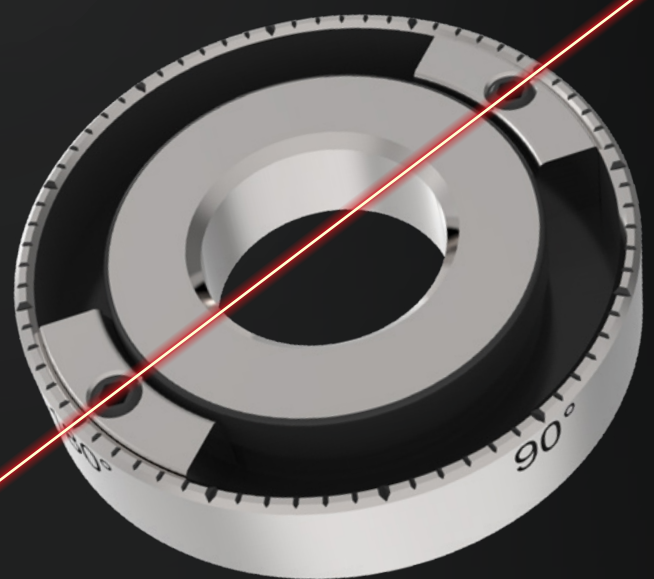


### **The balancing ring (spacer / clamping ring)**

Features two permanently integrated balancing weights (balancing elements) that can be adjusted from the outside. These are precisely matched in weight to the respective bore diameter. Available in various sizes to fit all standard shaft diameters. This design is also available as a clamping ring to accommodate tapered profiles.

### **The clamping nut with ZETA profile**

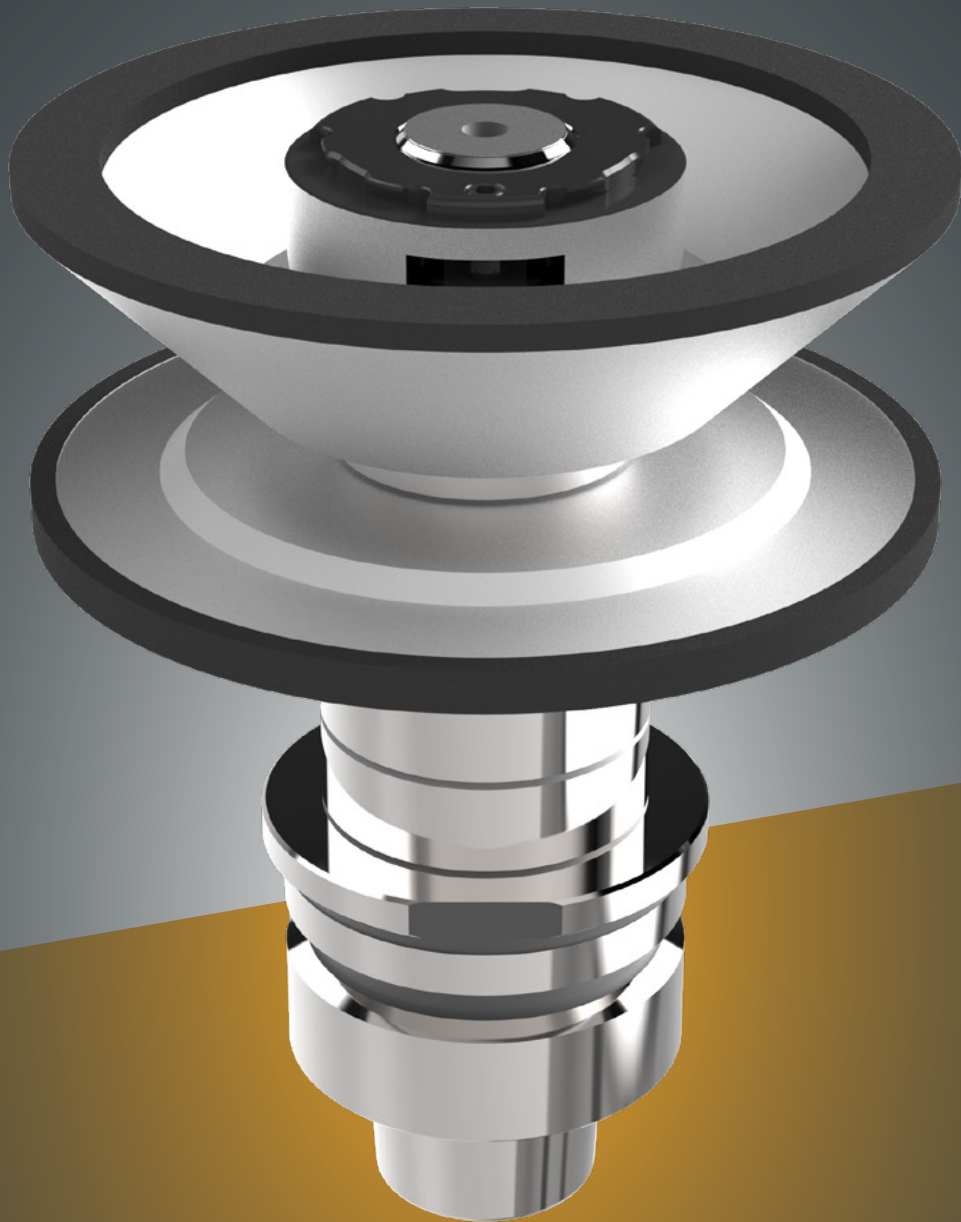
This secures the entire grinding wheel or milling cutter assembly, including spacer rings, at the threaded end of the tool holder. Equipped with the proven, slip-resistant Zeta safety profile, it guarantees an absolutely secure clamping and release process when used in combination with a Zeta socket, torque wrench, and mounting block – ideal even for installing hard-to-reach cup wheels. This version is also available without a thread and Zeta profile, allowing the T-Tool WibroGuard System to be used in virtually all applications.



Safety for the user, protection for the machine:  
Thanks to the clearly structured work process,  
uncertain balancing results are a thing of  
the past.

**A true win-win situation for your entire production.**

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Entwickelt von | Designed by our  
praktischen Ingenieuren | engineers for  
für geniale Praktiker. | practical machinists.

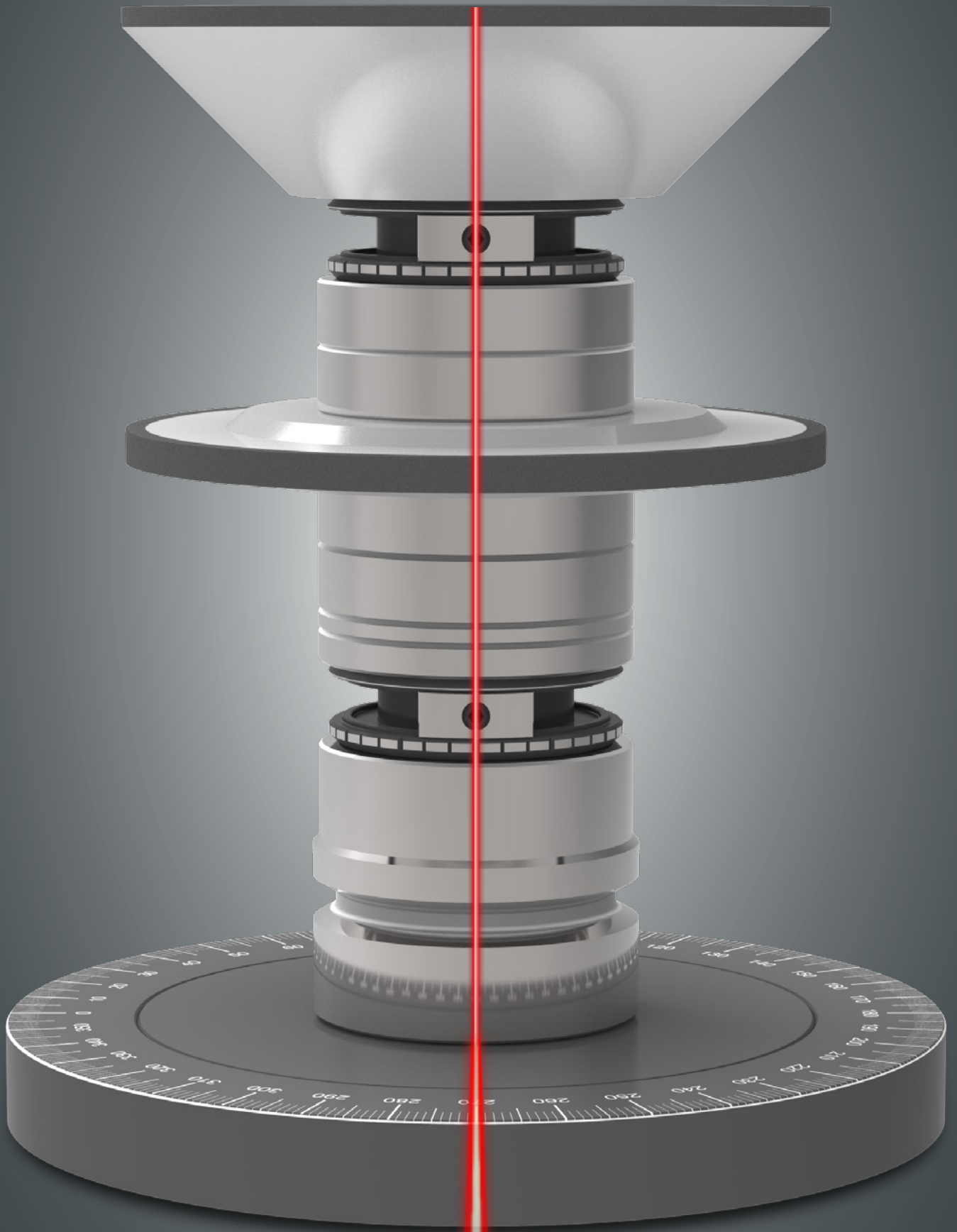


**T-Tool**<sup>®</sup>

**Schleifdorne- und Zubehör-Kataloge**

Schleifdorne und mehr • *Grinding wheel holders and more*





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