

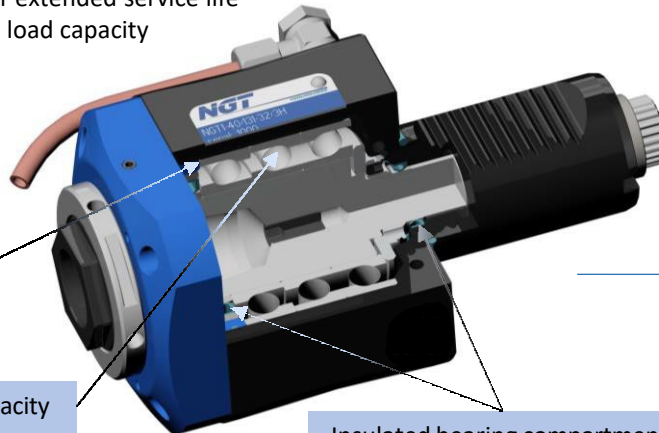


BGT's New Product Line

Our next-generation of Live toolholders feature a single, optimized design that pushes every performance characteristic to its limits.

Built on a refined external design, this new series delivers maximum precision and introduces advanced features:

- **Patented high-pressure sealing** – up to 80 bar (true on-tool pressure)
- **Dual Two-Channel external cooling** for superior thermal control
- **Insulated bearing compartment** for extended service life
- **Upgraded bearing sizes** for greater load capacity
- **Full bearing capacity** (ED series)



Bearings size upgrade

Full bearings capacity

Insulated bearing compartment

Fully Insulated Bearing Compartment

The bearings are housed in a completely insulated chamber, with dual-direction sealing—both on the tool side and the turret side - for maximum protection and durability.

Coolant Management Made Simple

Our intuitive system allows the user to easily select from three cooling modes:

- **External cooling (Two Channel)**
- **Internal cooling**
- **Combined external + internal cooling (Three Channel)**

Two way external cooling

High pressure internal cooling (80 bar)



High-Pressure Sealing for Extended Tool Life

The robust construction of our high-pressure sealing ensures long-lasting protection for internal components and delivers a true **80 bar on-tool pressure**.

Heavy Duty & Extreme Duty Series

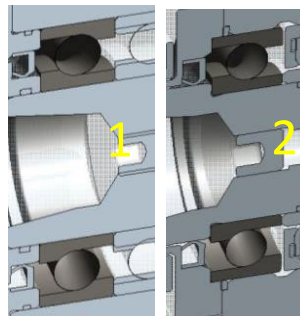
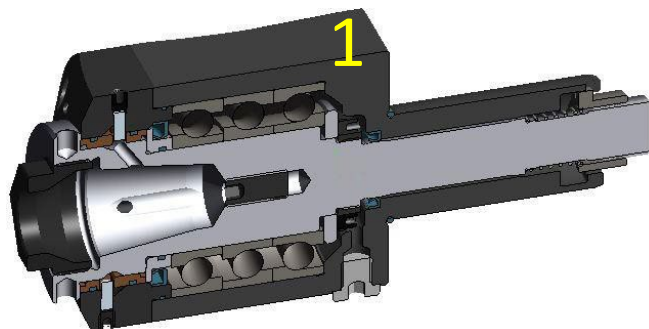
To extend toolholder life, we maximized bearing sizes and continue to use high-precision spindle bearings. This led to the development of the **HD (Heavy Duty) series**.

For the most demanding applications, we introduced the **ED (Extreme Duty) series**, featuring full bearing capacity for unmatched durability.

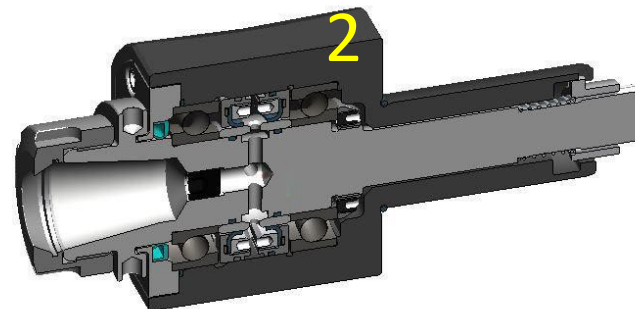
NEW 80 bar coolant pressure

NEW STANDARD

STANDARD 20 bar coolant pressure



Bearings size upgrade

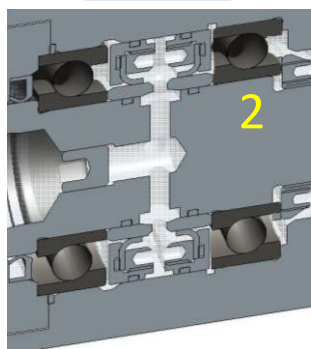
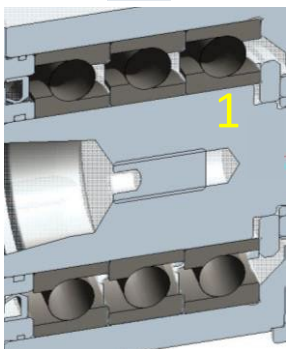


Larger Bearings for Higher Performance

In the new generation of toolholders (1), bearing sizes are significantly increased compared to the standard design (2), enabling higher cutting speeds and improved stability.

NEW

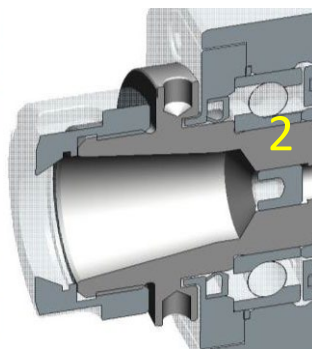
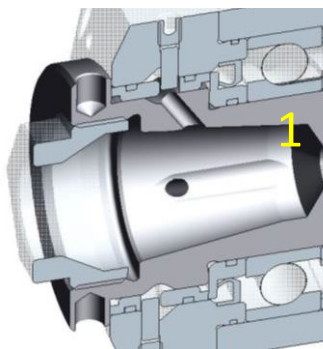
STANDARD



Full bearings capacity

NEW

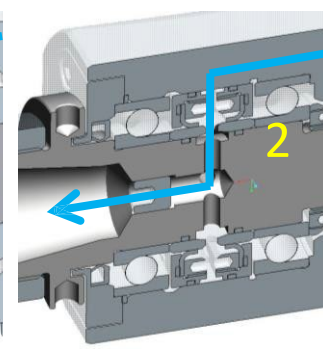
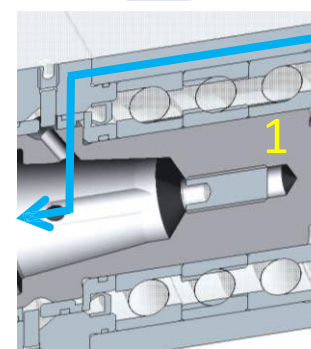
STANDARD



Rigidity

NEW

STANDARD



Insulated bearing compartment

Optimized Bearing Arrangement

In standard toolholders (2), the sealing kit sits between the bearings. In the new generation (1), the sealing kit is relocated, allowing the addition of a **third bearing**—delivering maximum stability for extreme cutting conditions.

Enhanced Output Cone Design

In standard toolholders (2), the output cone is positioned in front of the first bearing. In the new generation (1), the output cone extends beneath the first bearing—delivering **greater rigidity and reduced vibration**.

In standard toolholders (2), the coolant path runs between the bearings—meaning any leakage flows directly into them. In the new generation (1), the coolant bypasses the bearing area, **greatly extending toolholder life**.

Value Proposition: Redefining Toolholder Performance

Why Choose NGT New Generation Toolholders?

- **Unmatched Precision** – Optimized design ensures stability and accuracy in every operation.
- **Extended Tool Life** – Larger, insulated bearings and robust sealing protect internal components.
- **Higher Productivity** – Withstand extreme cutting regimes and 80 bar true on-tool pressure.
- **Reduced Downtime** – Coolant system avoids bearing exposure, preventing premature failures.
- **Future-Proof Design** – Heavy Duty (HD) and Extreme Duty (ED) series tailored for standard and high-demand applications.

The Result:

Lower total cost of ownership, higher reliability, and superior machining performance — setting a new standard in live toolholder technology.

Achieve Technologies

Precision at Every Turn

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Available Data Upon Request:

- PDF Drawings
- 3-D CAD Files
- Operation and Maintenance Manuals
- Full interface and OEM Model for each tool
- BMT/VDI/Japanese OEMs/Swiss Type