Performance intermediate sleeve

Maximum performance for your toolholder

Hand in hand for tomorrow

Performance intermediate sleeve

The demands in metal cutting on dimensional and positional tolerances, process reliability, and efficiency are continuously increasing. The toolholder is key to achieving successful metal cutting. Clamping force, rigidity and long service life are therefore decisive factors.

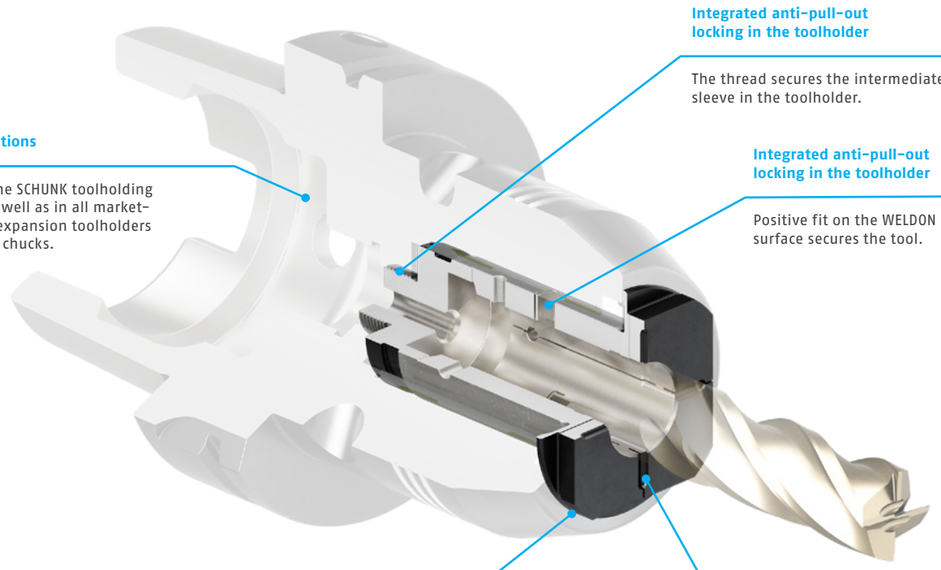
In heavy-duty metal cutting, advanced tools handle challenging materials at extremely high cutting speeds and feeds. Unlock the full potential of your modern machine tools and tools with the new Performance intermediate sleeve. This is made possible thanks to the integrated anti-pull-out locking and its innovative design for higher radial loads.

Your benefits

- **100% secure clamping** thanks to the positive-lock pull-out protection
- **Maximum rigidity** through extended clamping length by supporting on the flat surface (active clamping system)
- **Reduced tooling costs** thanks to up to 40% increase in tool life
- **Extended tool life** thanks to targeted coolant supply
- **Reduced tool deflection and greater machining stability,** even with dynamic milling strategies
- **Existing toolholders** can be flexibly upgraded
- **Increased dimensional accuracy and precision –** ideal for demanding workpieces

Powerful. Safe. Flexible.

Maximum performance for your toolholder



Integrated anti-pull-out locking in the toolholder

The thread secures the intermediate sleeve in the toolholder.

Versatile applications

Can be used in the SCHUNK toolholding system TENDO as well as in all market-ready hydraulic expansion toolholders and power lathe chucks.

Integrated anti-pull-out locking in the toolholder

Positive fit on the WELDON surface secures the tool.

Active clamping system

The flat surface of the intermediate sleeve features a more robust design. By tightening the intermediate sleeve, the active clamping system can optimally absorb radial cutting forces into the toolholder, resulting in higher rigidity.

CoolFlow technology

Direct coolant supply for optimal tool cooling at the tool shank all the way to the cutting edge.

Fast assembly, maximum stability – for all market-ready clamping systems

The Performance intermediate sleeve impresses with its easy handling and high modularity. Compatible with SCHUNK TENDO as well as all market-ready hydraulic expansion toolholders and power lathe chucks. Simply insert the Performance intermediate sleeve, screw it in, and actuate the hydraulic expansion toolholder.

Easy handling using a actuating key

TENDO Platinum

TENDO E Compact

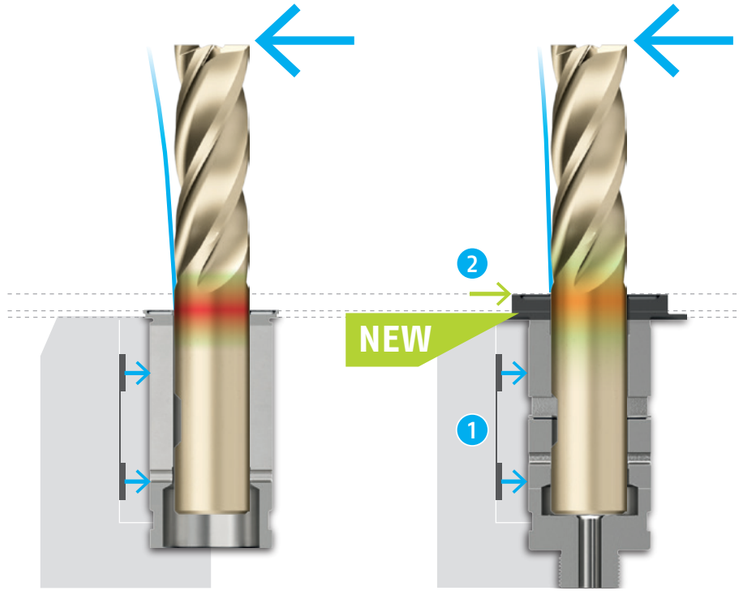
Active clamping system for maximum stability and precision

The Performance intermediate sleeve was developed for heavy-duty machining. In combination with the hydraulic expansion chuck, it offers many advantages, including significantly increased radial stiffness. This is achieved primarily through two clamping mechanisms:

1. The well-known hydraulic expansion clamping
2. and the additional clamping up to the front end of the tool shank, which better supports the cutting forces in this area.

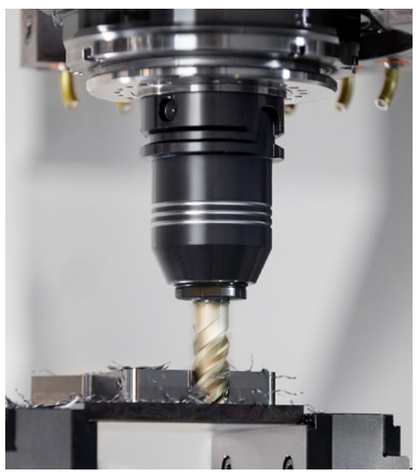
Advantages – your benefits

- Increased radial stiffness for heavy metal-cutting applications
- Increased tool life
- Reduced tool breakage



Standard intermediate sleeve

Performance intermediate sleeve



Our customer's feedback:

During the machining of 80 mm deep keyways and trochoidal slot milling on a Hermle 5-axis machine, with long tools, caused instability. This resulted in increased wear, reduced dimensional accuracy, and poorer surface quality.

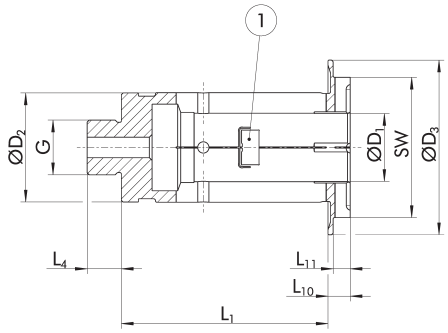
These challenges were solved with the new intermediate sleeve: bending forces were reduced, stability increased, and the tool life extended by 20% – all without incurring additional costs.

"Everyone will prefer this sleeve from now on."

S. Eggebrecht
E.H.E. Metallbearbeitung GmbH

Performance intermediate sleeve ø20 PK

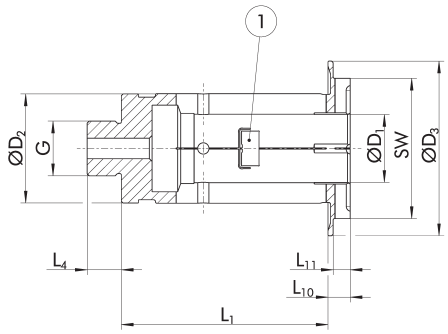
Technical data



ID	D_1 [mm]	D_2 [mm]	D_3 [mm]	L_1 [mm]	L_4 [mm]	L_{10} [mm]	L_{11} [mm]	G	Wrench size (SW)	Weight [kg]
1622937	10	20	32	50.5	10	6	5	M8x1	27	0.11
1622935	10	20	32	50.5	10	6	5	M16x1	27	0.11
1622934	12	20	32	50.5	10	6	5	M8x1	27	0.101
1622932	12	20	32	50.5	10	6	5	M16x1	27	0.101
1622923	16	20	32	50.5	10	6	5	M8x1	27	0.073
1622921	16	20	32	50.5	10	6	5	M16x1	27	0.073

Performance intermediate sleeve ø32 PK

Technical data



ID	D_1 [mm]	D_2 [mm]	D_3 [mm]	L_1 [mm]	L_4 [mm]	L_{10} [mm]	L_{11} [mm]	G	Wrench size (SW)	Weight [kg]
1622918	10	32	51	60.5	10	6.5	5	M8x1	41	0.444
1622916	10	32	51	60.5	10	6.5	5	M16x1	41	0.444
1622914	12	32	51	60.5	10	6.5	5	M8x1	41	0.33
1622912	12	32	51	60.5	10	6.5	5	M16x1	41	0.33
1622910	16	32	51	60.5	10	6.5	5	M8x1	41	0.307
1622898	16	32	51	60.5	10	6.5	5	M16x1	41	0.307
1622897	20	32	51	60.5	10	6.5	5	M8x1	41	0.269
1622895	20	32	51	60.5	10	6.5	5	M16x1	41	0.269
1622885	25	32	51	60.5	10	6.5	5	M8x1	41	0.202
1622883	25	32	51	60.5	10	6.5	5	M16x1	41	0.202

Learn more!

For further information or any questions, we are happy to assist you.

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