



Presetting, Measuring and Shrinking  
Machine with TRIBOS clamping system

»tribos«

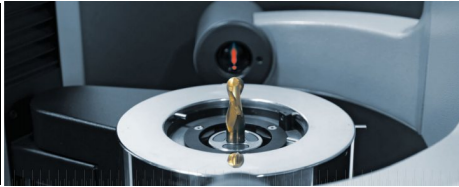
ZOLLER »tribos« is a presetting, measuring and shrink-clamping system equipped with the Schunk TRIBOS clamping system. Especially designed for shrinking of tools to nominal length in polygonal TRIBOS power shrink chucks as well as for presetting and measuring tools of all types. The TRIBOS clamping unit is automatically guided to the tool holding fixture and moved back into its original position after the clamping/unclamping procedure. It doesn't get any faster, more accurate and convenient than with ZOLLER »tribos«!



- ✔ Schunk TRIBOS clamping system
- ✔ Tailstock mechanism with Schunk TRIBOS clamping unit, automatic extension/retraction
- ✔ High-precision spindle »ace«
- ✔ Automatic slide unit for the TRIBOS clamping system
- ✔ Side unit for TRIBOS hydraulics and shelves
- ✔ Automatic zero point monitoring
- ✔ Automatic alignment of the TRIBOS tool holding fixture\*
- ✔ Automatic pressure transfer ZOLLER/Schunk\*
- ✔ Autonomous application of the Schunk TRIBOS clamping system
- ✔ ZOLLER image processing software »pilot 3.0«  
\*optional

- ✔ Heidenhain glass scales for high measuring accuracy
- ✔ CCD camera with telecentric lens
- ✔ Dynamic cross hairs over entire measuring window
- ✔ Analog focusing display for focusing the tool cutting edge
- ✔ Automatic cutting edge recognition, also greater than 90°
- ✔ Membrane keyboard for power-operated spindle brake and spindle lock
- ✔ Electronic fine adjustment of the X and Z axis
- ✔ Autofocus and rotary encoder / Tool inspection
- ✔ Control unit »cockpit« / Manual projector function / Adapter and tool management
- ✔ Zero point monitoring for process reliability
- ✔ Numerous measuring programs, for example, concentricity and run-out
- ✔ Machine table

We reserve the right to make technical changes.



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Technical Data	Measuring range Z	Measuring range X	Diameter	Snap gauge $\varnothing$
»tribos 600«	600 mm / 23.6"	220 mm / 8.6"	440 mm / 17.3"	200 mm / 7.8"
»tribos 600/8«	800 mm / 31.4"			

**Note:** The quoted measuring range may be reduced under circumstances when using adapters and tool posts.



»pilot 3.0« 24"

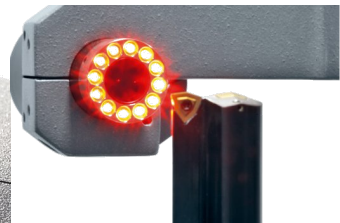
State-of-the-art image processing technology



TRIBOS clamping unit



Autofocus and ROD encoder



Cutting edge inspection



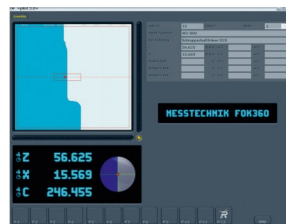
Side Unit for Schunk TRIBOS hydraulics



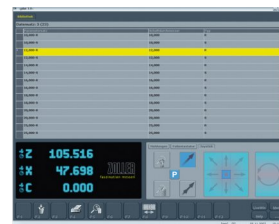
Tool identification



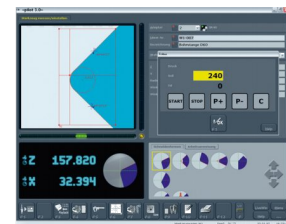
Control unit »cockpit«



Automatic alignment of the Schunk tool holding fixtures



Automatic pressure transfer ZOLLER/Schunk



Autonomous application of the TRIBOS system



Storage trays for adapters

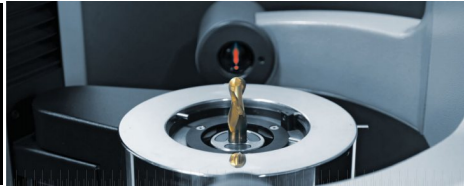


Color laser printer



Label printer

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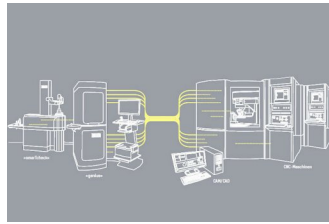


Presetting, Measuring and Shrinking Machine with TRIBOS clamping system

»tribos«



Maintenance unit



Data transmission



SK 50 high-precision spindle



»ace« high-precision spindle



Membrane keyboard



SK 25 - 60 attachment holder



HSK 25 - 160 hollow shank attachment holder



Capto C 3 - 10 attachment holder



VDI 16 - 60 attachment holder

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