

Touch Probes for Machine Tools

High accuracy and performance

www.heidenhain.com

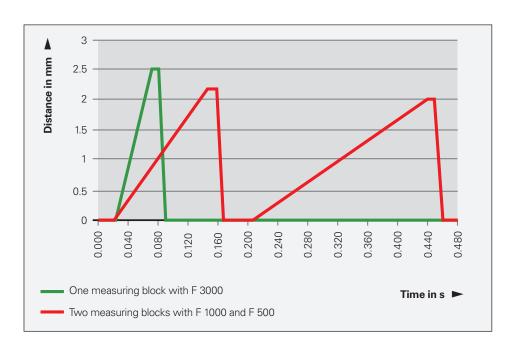


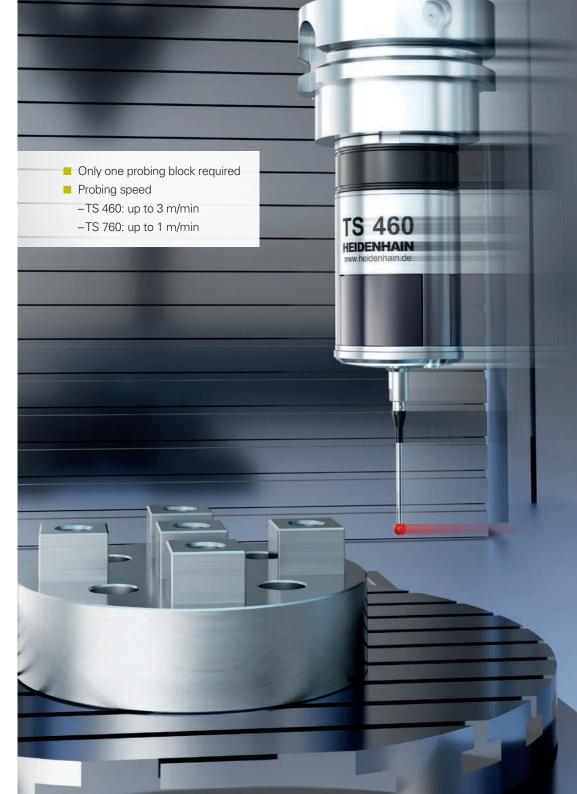
Accelerate production processes

Thanks to their higher probing speed, touch probes from HEIDENHAIN can reduce your cycle time by up to 30% without a loss in accuracy. The time saved is usually a full second. And due to the probe's high repeatability, a single probing block is all you need in the part program. This improves overall machine performance during setup, part inspection and machine calibration (in conjunction with a calibration sphere).

Reduce your non-productive time

- Setup and calibration in one probing block, at up to 3 m/min
- Approx. 30% faster probing cycle
- High vertical integration for our touch probes, with sensors developed in-house





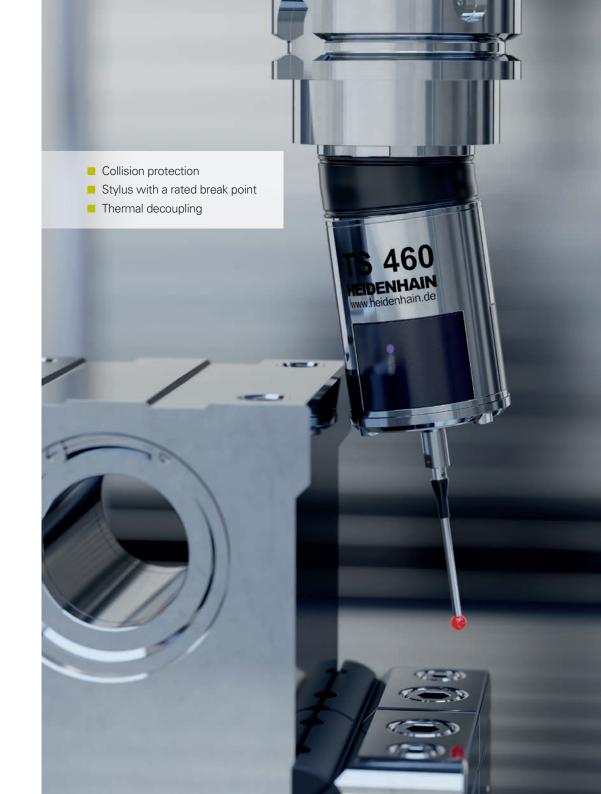
High service life: protect your capital assets

Touch probes from HEIDENHAIN feature a long deflection distance and offer additional protection through a rated break point either in the stylus or in the connecting pin to the probe contact. For enhanced collision protection of the touch probing housing, the TS 460 is available with an optional mechanical adapter between the touch probe and the taper shank. This protects the spindle during a collision in the Z direction, when the touch probe is subjected to strong forces. In this scenario, spindle protection is usually preferred, even at the expense of damaging the touch probe. The collision protection adapter also functions as a thermal decoupler, protecting the touch probe from absorbing spindle heat.

Your benefits

- Spindle protection during collision, and thermal decoupling of the spindle
- 50 million probing cycles with no loss in accuracy
- Rapid repair and exchange device availability thanks to extensive distributor network
- Worldwide consulting and customer service





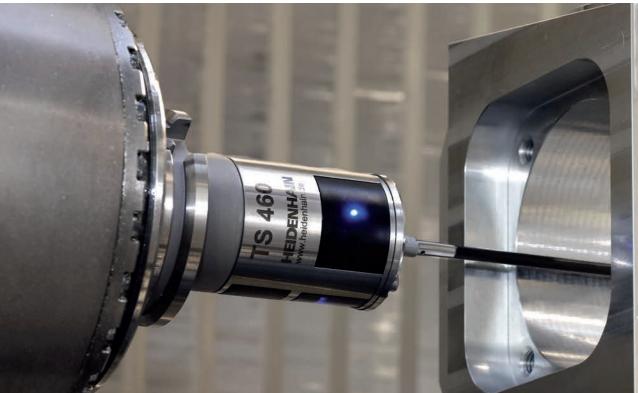
Ensured workpiece quality

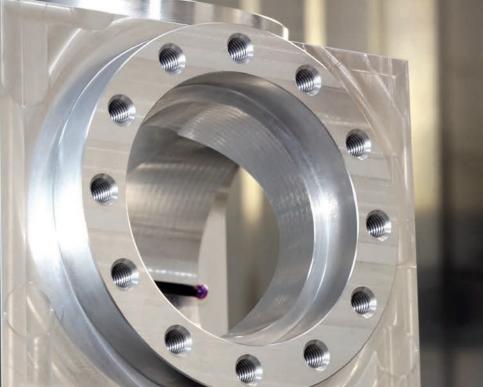
TS 460: universal touch probe

- Probe repeatability 2σ < 0.5 μm
- Probing speed: up to 3 m/min
- Integrated workpiece cleaning function
- Enhanced optional collision protection









The right accessories for every scenario

Styli

- Carbon-fiber styli for deep holes and difficult-to-reach measuring points
- Star insert for large holes or undercuts
- Steel or titanium extension
- Adapter for M4 styli



Calibration spheres

- Separately orderable: KKH 80, KKH 250 and KKH 70 holder
- Set in a case: KKH 100, KKH 250, KKH 70 holder and mounting accessories

Accessories available directly from the HEIDENHAIN SHOP











HEIDENHAIN

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