

DH-8 — EXPANDABLE FOR CONTOUR AND OPTIC

SURFACE ROUGHNESS MEASUREMENT

- High precision surface roughness meter for universal use in workshop and inspection room
- > Automatic calibration
- > Memory for 50 measurements
- 5 measuring length, all selectable between 0.5 and 15.0 mm
- Measuring speed selectable
- > Calibration for max. 8 tracers
- > 8 measuring programs
- Choice of many types of tracers to solve nearly all measuring tasks, also customer specific ones
- User friendly comprehensive multilingual menu guidance
- Tolerance indication for measuring values exceeding permissible allowance set
- Xey lock for lt, lc and R to prevent any settings being changed by mistake during measuring procedure
- USB output for data transfer (option: Bluetooth)

SCOPE OF SUPPLY

- > Instrument DH-8
- > Motor unit VH or VHF
- > Standard tracer SH
- > Specimen metal Ra = 3.00
- > Charger
- > Connecting cable
- > USB-connecting cable
- > Screw driver
- > Instruction manual + short manual
- > Certificate of quality
- > Carrying case
- > Software DIASOFT Basic



- Choice of capable software programmes DIASOFT (optional)
- Numerous accessories for many applications, needed for working with skid less tracers

OPTIONS FOR DH-8

MEASUREMENT OF CONTOURS

The **DH-8** now offers, as an option, to precisely measure contours. For this purpose, a special contour measuring tracer is needed, in combination with a special software.

CHARACTERISTICS

- > Measuring range X: from 0.5 to 15.0 mm
- > Measuring range Z: max. 4 mm
- Tracing angle: falling flanks up to 88° rising flanks up to 77°

OPTICAL MEASURMENT

Measurement of more surfaces: vertical steps, high aspect ratios, bumps and holes, fragile, soft, flexible, sharp, hard or abrasive surfaces, transparent, reflective, opaque, multi-material surfaces

CHARACTERISTICS

- > Measuring head: CLA-400
- > Measuring range Z: 400 µm
- > Working distance: 5 mm
- > Repeatability: 2 nm
- > Vertical resolution: 0.025 nm
- > Spot size: 7 µm
- Maximum slope: ±30°

Software, tracers and accessories for the **DIAVITE DH-8** see page 6 and more. Please ask for Contour and Optic.

DIASOFT – VISUALISE YOUR MEASURES

PC-SOFTWARE PROGRAM «DIASOFT»

The software as a supplement and extension of **DIAVITE** includes further roughness parameters and can present and memorize profiles. These can be analysed and compared with each other. This software is available in 4 different versions:

Basic (incl. in the scope of supply)
Basic programmes with Ra, Rq, Rv, Rp, Rt,
Sm, Rsk, Rku, Rz, RTp, RHTp, RDq, RPc,
roughness curve, Abbott curve

Standard

Same as "Basic", additionally with waviness and roughness profile on the same curve, zoom functions, symmetry, comparison of profiles and more.

Automotive

Same as «Standard», additionally with ISO 12085 (CNOMO), ISO 13565, (parameter Rk)

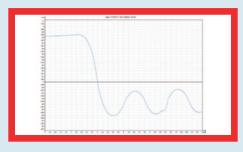
Expert

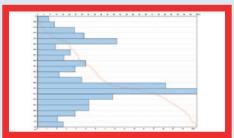
Same as "Automotive", additionally analysis of series of profiles and a lot more features to analyse the measurements. The most complete offer for the specialist, now and in future.

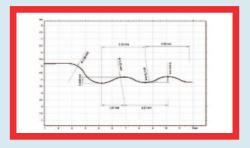
OPTIONS FOR STANDARD, AUTOMOTIVE AND EXPERT

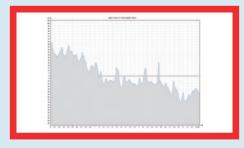
- > Module advanced contour
- > Module simple contour
- Module statistics





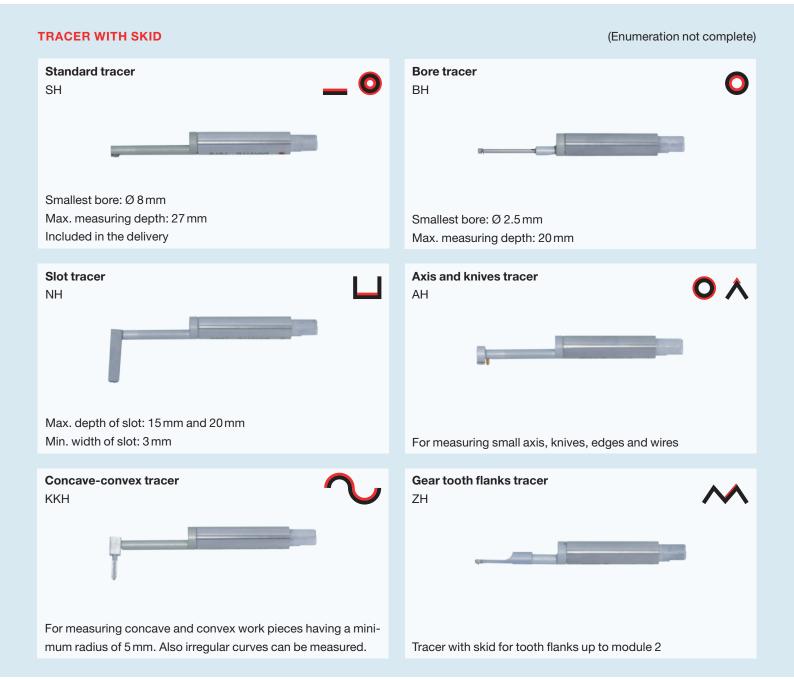




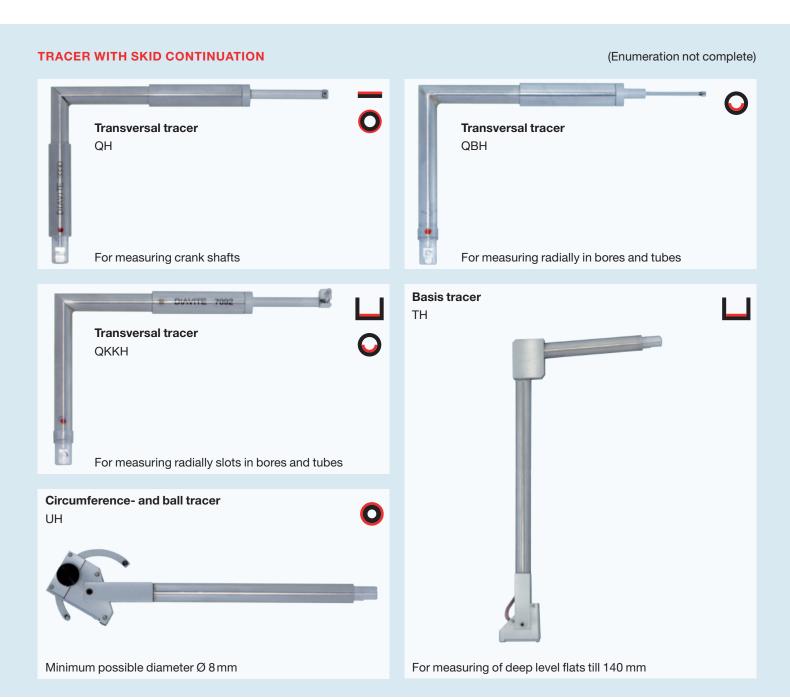




TRACERS — FOR USE WITH ALL DIAVITE INSTRUMENTS

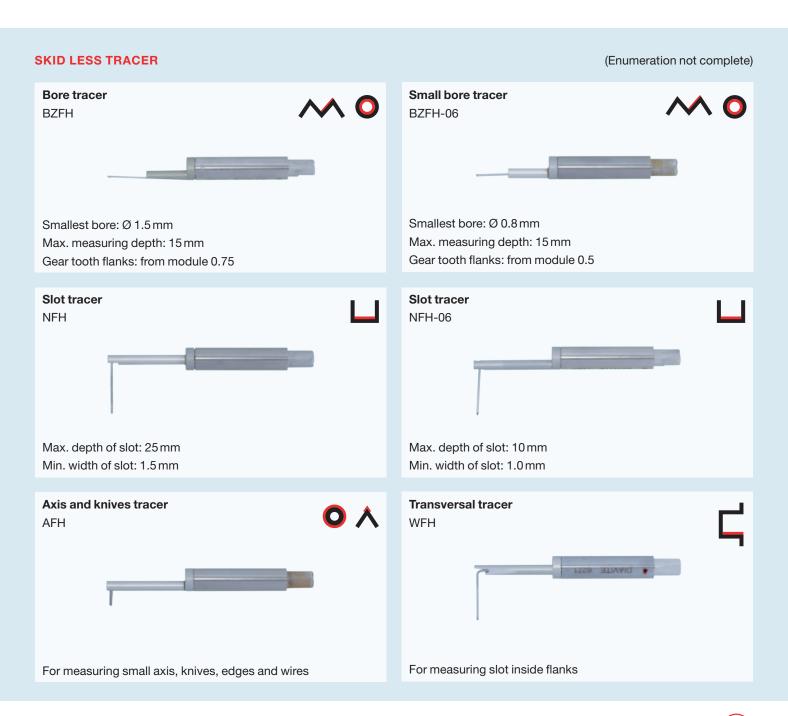


TRACER CONTINUATION









ACCESSORIES — SIMPLY FITTED TO ALL INSTRUMENTS

ACCESSORIES DIAVITE DH-8 AND COMPACT II



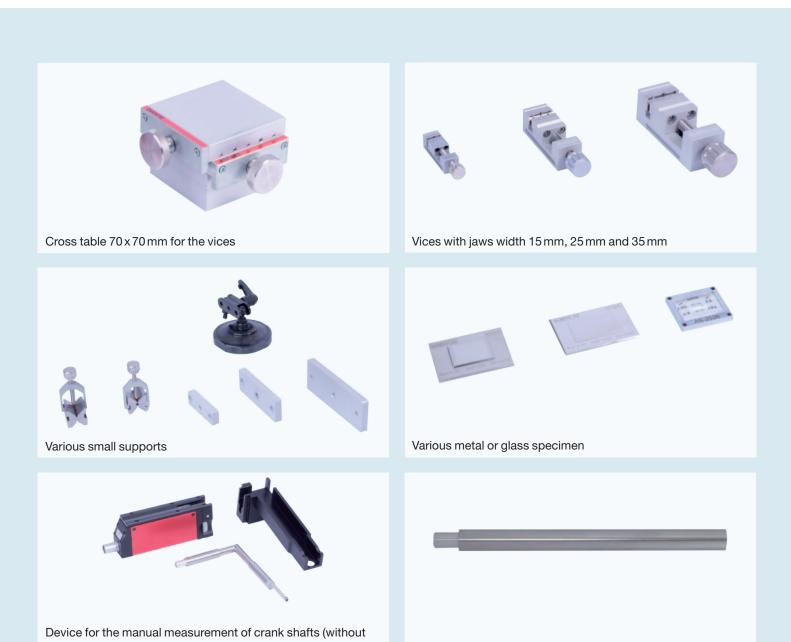
Measuring support with alu- or granite base plate and column 250 mm or 500 mm high



«Tubemaster» for measuring the roughness radially at the inner and outer circumference of tubes and cylindrical parts



Adapter for measurements with skid less tracers on big work pieces



tracer and motor unit)

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To extend the tracers for deep bores (up to 700 mm)

 Parameters ISO/DIN: Ra, Rz (DIN), Rmax, R3z, Rt, Rq (RMS), Rk, Rp, Rv, Rpk, Rvk, MR1, M Rpc, C1, C2, percentage contact area, C0, Cz JIS: Ra (JIS), Rz (JIS) ISO 12085: R, AR, Rx additional parameters possible with optional PC software Measuring range Ra, Rq: 0-20.00 μm 0-800 μin All other measuring values: 0-350.0 μm 0-1400 μin
Resolution > Ra, Rq: 0.001 μm > All other measuring values: 0.01 μm
Output USB interface DH-8: option Bluetooth
Humidity max. 80 %, not condensing
Languages German, English, French, Italian, Spanish, Polish
Tracing system Analog hall effect technology with high linearity output signal
Diamond tip Radius: 5 μm, 90° (standard) or 2 μm, 60° (option)
Tracing skid 25 mm (standard tracer)
Static measuring force Stylus < 0.5 mN
Static tracking force Skid < 0.15 N
Tracing speed COMPACT II: 0.5 mm/s DH-8: 0.25, 0.5 und 1.0 mm/s
Reverse speed 1.0 mm/s
Motor unit VH (tracer with skid) or VHF (all tracers with and without skid)
Dimensions instrument COMPACT II: 140 x 75 x 60 mm DH-8: 245 x 130 x 78 mm
Dimensions motor unit ca. 20 x 33 x 136 mm (with supporting shoe)

Made in Switzerland

Specifications subject to change without prior notice!



