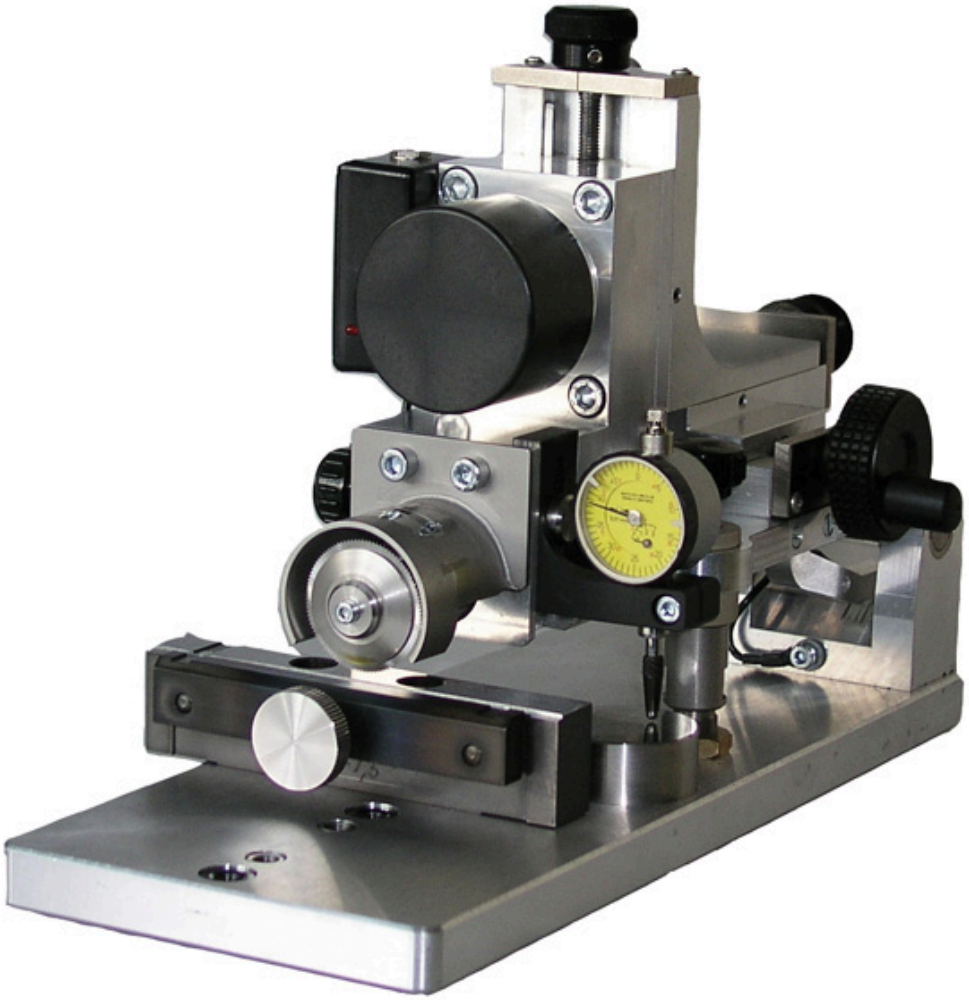
FOERSTER

# TEST DEFECT SAW

## Precise Reference Notches for Reliable Calibration



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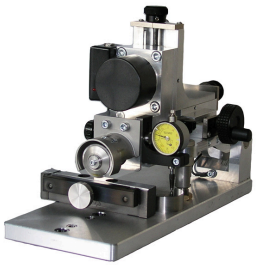

**Create defined longitudinal and transverse notches easily and reproducibly.** Defined reference notches are essential for the reliable calibration and verification of non-destructive testing systems. International testing standards such as the EN ISO 10893 series specify requirements for reference samples and reference notches. The specified notch geometries must be produced with high precision and reproducibility.

The FOERSTER TEST DEFECT SAW S20 enables defined longitudinal and transverse notches to be introduced into metallic wires, tubes, and bars with diameters from 1 to 20 mm. Saw blade thicknesses from 0.08 to 0.3 mm and a maximum notch length of 25 mm allow different reference notch geometries to be produced with precision. The notch depth accuracy is 10 µm.

The innovative Twist clamping system allows the test piece to be positioned for longitudinal and transverse notches in a single setup. Diameter-specific clamping sets ensure secure fixation of the test piece. Two LED indicators support precise zero-point determination by indicating contact between the saw blade and the material. Combined with precise positioning along the x, y, and z axes, this enables reproducible notch geometries for reliable calibration.

Saw blades made of HSS (High-Speed Steel) and carbide are available to meet different application requirements. HSS blades are used as standard, while carbide blades provide increased wear resistance. Weighing just 3.7 kg and supplied with a robust transport case, the Test Defect Saw S20 is easy to transport and use wherever needed.

### YOUR ADVANTAGES AT A GLANCE

**Precise reference notches:** Longitudinal and transverse notches with a notch depth accuracy of 10 µm

**Flexible notch geometries:** Saw blade thicknesses from 0.08 to 0.3 mm and notch lengths up to 25 mm

**Single setup:** Positioning for longitudinal and transverse notches without reclamping the test piece

**Secure fixation:** Diameter-specific Twist clamping sets for wires, tubes, and bars from 1 to 20 mm

**Controlled zero-point determination:** LED indicators signal contact between the saw blade and test piece

**Flexible blade selection:** HSS and carbide saw blades for different cutting and wear-resistance requirements

# TECHNICAL INFORMATION

| | |
|---|---|
| **TEST MATERIAL:** | Metallic wires, tubes, and bars |
| **DIAMETER RANGE:** | 1–20 mm |
| **POWER SUPPLY:** | 100–240 V / 47–63 Hz |
| **EXTERNAL POWER SUPPLY:** | 12 V DC |
| **POWER CONSUMPTION:** | Max. 24 W |
| **MOTOR SPEED:** | — 200 rpm (HSS mode)<br>— 600 rpm (Carbide mode) |
| **OPERATING TEMPERATURE:** | +5 °C to +45 °C |
| **STORAGE TEMPERATURE:** | –20 °C to +70 °C |
| **MAXIMUM RELATIVE HUMIDITY:** | 85% (non-condensing) |
| **WEIGHT:** | 3.7 kg |
| **SAW BLADE OUTER DIAMETER:** | 32 mm |
| **SAW BLADE INNER DIAMETER:** | 8 mm |
| **SAW BLADE THICKNESSES (NOTCH WIDTH):** | 0.08 / 0.1 / 0.2 / 0.3 mm |
| **MAXIMUM NOTCH LENGTH:** | 25 mm |
| **NOTCH LENGTH ACCURACY:** | 100 µm |
| **NOTCH DEPTH ACCURACY:** | 10 µm |
| **SAW BLADE MATERIAL:** | HSS / Carbide |
| **TRANSPORT CASE DIMENSIONS (W × H × D):** | 580 × 400 × 165 mm |
| **WEIGHT INCL. TRANSPORT CASE AND CLAMPING SETS:** | 11 kg |

## NORMS

**DIN EN ISO 10893:** Defines requirements and test methods for the automated non-destructive testing of steel tubes.

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