

Portable test defect saw

Precision sawing of standard defects in wire, tubes, rods and billets

Before it is used to inspect material, eddy current test equipment must be precisely calibrated to find defects specifically required by international standards (API, ASTM, etc.). To do this, test defects of a standard depth, width and length are sawed into a test piece. Now PRÜFTECHNIK offers a portable saw that you can take to the test piece while it is still in the conveyor. Thanks to its narrow dimensions, it fits easily between production line rollers. It quickly and accurately produces standard slots in tubes, rods and billets of different sizes.

Accurate

- Slot depth accuracy: 0.02 mm
- Fixed vertical adjustment for precise slot depth

Practical

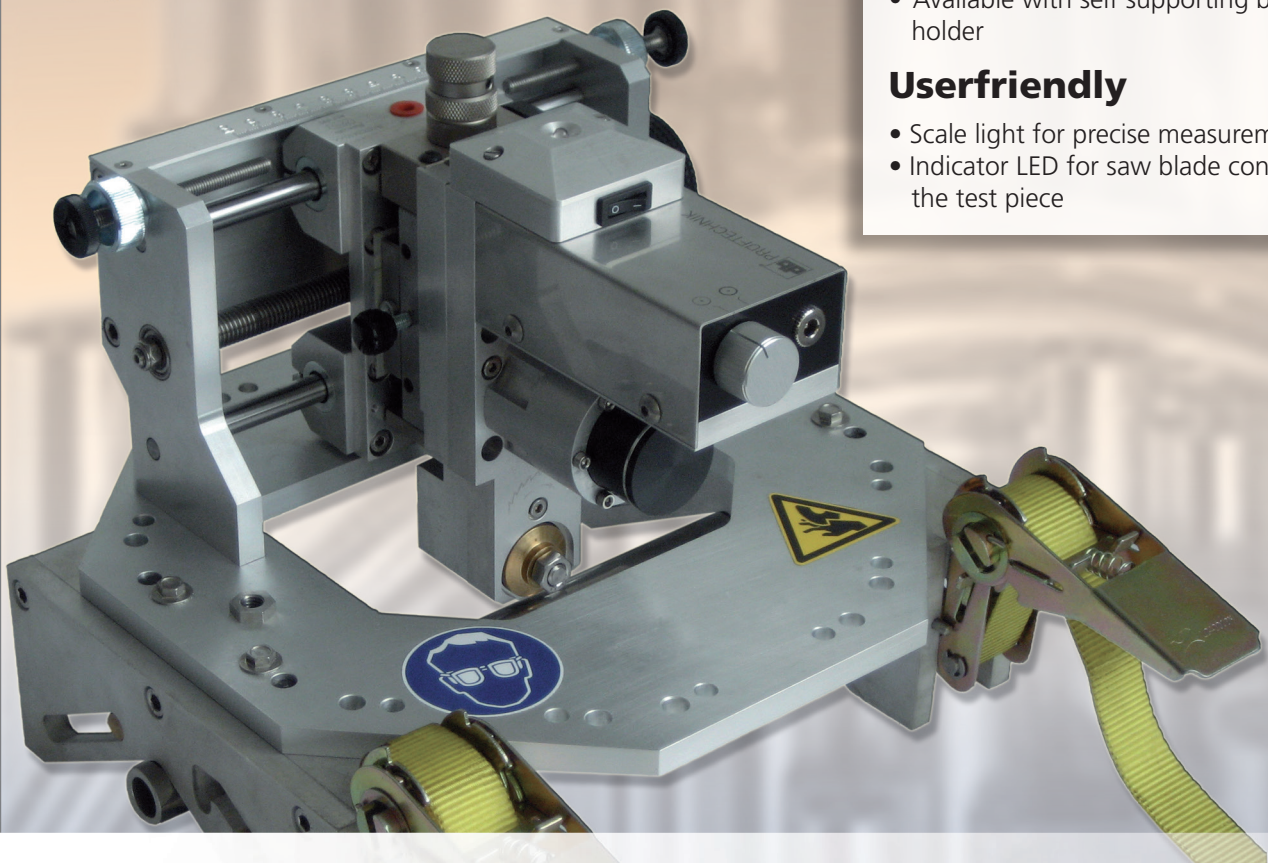
- For sawing test defects in the production line
- Portable and light to carry
- Narrow design fits between rollers

Versatile

- Can be used for grinding and sawing hard or soft materials
- Available with self supporting bar or wire holder

Userfriendly

- Scale light for precise measurement
- Indicator LED for saw blade contact with the test piece



Convenient, light, accurate

1 Convenient belt system
The saw is securely mounted on the test piece with an easy-to-use belt and buckle system.

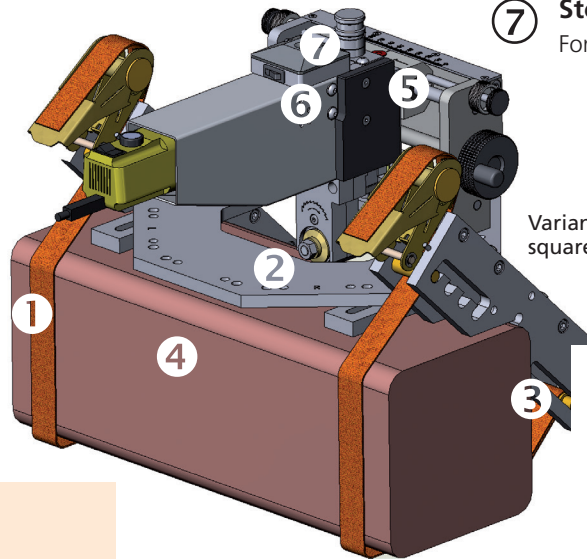
2 Saw blades/cutting disks
Various thicknesses are available for different slot widths.

3 For bars, wire, rod, billets and tubes
Different supports are available for round or square test pieces. The saw rides on the supports and can be tilted by 45° for sawing on the face or edge of a billet.

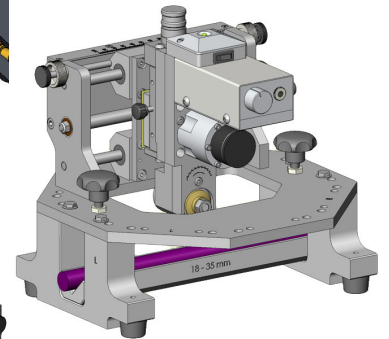
5 Accurate adjustment
0.02 and 1 mm vertical and horizontal adjustment for accurate slot depth and length.

6 LED contact indication
Indicates if the saw blades touches the test piece.

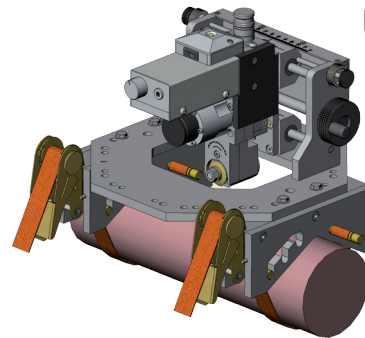
7 Stoppers
For defined cutting lengths.



Variant with support for square test pieces



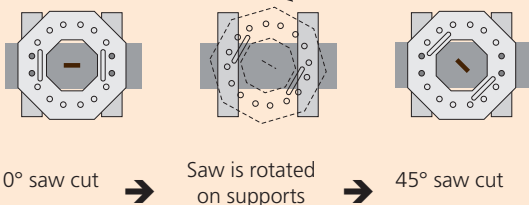
Variant with support to saw test defects into wire or bars from 2-35 mm in diameter



Variant with support for round test pieces

4 Different slot angles
Standard slots oriented at 0°, 45° and 90° can be produced by simply rotating the saw on its supports (not applicable to wire support).

Example



Technical data

Saw motor and drive

Power supply 100-240 V
Power consump. 120 W
Motor RPM 2 000 / 11 000 rpm

Saw attributes

Temperature -10 – 45°C (-14–113°F)
Weight of saw ~6 kg (13.2 lb)
Weight with case ~15 kg (33.1 lb)
Dimensions
Length: 275 mm (10.8")
Width: 275 mm (10.8")
Height: 175 mm (6.9")
without holder

Saw blades

RPM 2 000 / 11 000 rpm
Diameter 30 mm
Thickness HM (tungsten carbide) blades: 0.1, 0.2, 0.3, 0.5 mm
CBN cutting disks: 0.2, 0.3 mm

Max. test defect dimensions

Defect depth 1 mm
Defect length 100 mm (4")
Width range 0.1–0.3 mm

Scale accuracy Length: 1 mm
Depth: 0.02 mm

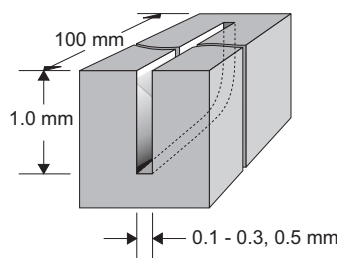
Material

Any metal
Types Bar, wire, tubes, rod, billets
Tube/rod Ø 10–150 mm (0.4–6")
Wire/bar Ø 2-35 mm (0.08–1.4")
Large tubes Ø 500 mm
Billet dim. 50–150 mm (2–6")
(Versions for larger or smaller diameters are available on request.)

Carry-all case

The saw comes in a convenient case that also contains accessories and spare parts.
Dimensions 620 x 545 x 290 mm
(LxWxH) (24.4 x 21.5 x 11.4")

Maximum slot dimensions



PRUFTECHNIK NDT GmbH
Am Lenzenfleck 21
85737 Ismaning, Germany
www.ndt.pruftechnik.com
Tel.: +49 89 99616-0
Fax: +49 89 967990
E-Mail: ndt-sales@pruftechnik.com

A member of the PRUFTECHNIK group