

RIBBON STEEL CUTTING DIE

Ribbon Steel Cutting Die for DIN 50125

Flat tensile specimen with shoulder heads (Form H 12.5 × 50) · Tensile specimen — built to DIN 50125: Testing of metallic materials - Tensile test pieces



OVERVIEW

Steel-rule style cutting die for cutting Flat tensile with shoulder heads (Form H 12.5 × 50) specimens to DIN 50125. A precision-bent, hardened ribbon-steel rule is set into a laser-cut plywood base with a foam ejection pad, giving clean, repeatable cuts in rubber, elastomers and soft plastics from 0 to 3 mm thick.

KEY FEATURES

- Hardened ribbon-steel rule precision-bent to the DIN 50125 profile
- Laser-cut multi-ply plywood base holds the rule rigidly in position
- Foam ejection pad pushes the specimen free after every stroke
- Ideal for rubber, elastomers, TPE, foam and soft plastics 0–3 mm thick
- Economical, fast-turnaround option for routine QC and lab testing

SPECIMEN PROFILE

Overall length	165 mm
Width of parallel section	12.5 mm
Parallel length	75 mm
Original gauge length	50 mm
Width of heads	20 mm
Transition radius	20 mm (nominal)
Sheet thickness	0.1 – 3 mm

Nominal values per DIN 50125; die is cut to the standard's profile.

APPLICATIONS

- Steel sheet and strip
- Aluminium and copper sheet
- Incoming material certification
- Yield, tensile strength and elongation (ISO 6892-1)

Ordering & customization: Specify the standard and specimen type, die style (ribbon steel or hardened steel), the material and thickness you cut, and your press make/model so we can match the mounting. Custom profiles, multi-cavity dies and nick/notch features are available on request.

Metallic-specimen geometry: confirm sheet material, hardness and thickness at quote. Specifications are typical and may vary by configuration; confirm at time of quote. Refer to the current edition of the standard for specimen tolerances and test procedures. Part ref. UGC-CDR-DIN50125-FormH

DIE SPECIFICATIONS

Die construction	Ribbon-steel rule (steel-rule die) in plywood base
Cutting edge	Hardened steel rule, precision bent
Material thickness	0 – 3 mm
Recommended materials	Rubber, elastomers, TPE, foams, soft plastics & films
Specimen ejection	Closed-cell foam ejection pad
Press compatibility	Manual, pneumatic & hydraulic sample-cutting presses
Cut profile	Flat tensile specimen with shoulder heads (Form H 12.5 × 50) per DIN 50125

ABOUT THE STANDARD

DIN 50125 defines the geometry of tensile test pieces for metallic materials used with ISO 6892-1 testing. Form H is the flat sheet specimen with widened heads and no pin holes, sized here as H 12.5 × 50 for thin sheet and strip.

Also available: Hardened Steel version

Machined from one piece of hardened steel for harder plastics up to 5 mm thick — same DIN 50125 profile.