

HARDENED STEEL CUTTING DIE

Hardened 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

Solid cutting die for cutting Flat tensile with shoulder heads (Form H 12.5 × 50) specimens to DIN 50125. The die is machined from a single piece of steel, hardened and finished with a sharp, precision cutting edge, so it holds its profile when cutting harder plastics from 0 to 5 mm thick.

KEY FEATURES

- Machined from a single piece of steel — no joints or seams in the cutting edge
- Hardened, precision-finished edge for clean, square specimen sides
- Cuts harder plastics, filled compounds and sheet from 0–5 mm thick
- Integral ejector plate releases the specimen after cutting
- Long service life; cutting edge can be re-sharpened

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.

DIE SPECIFICATIONS

Die construction	One-piece machined steel body
Cutting edge	Hardened, precision-finished
Material thickness	0 – 5 mm
Recommended materials	Rigid & semi-rigid plastics, filled compounds, rubber, sheet & film
Specimen ejection	Integral ejector plate
Press compatibility	Manual, pneumatic & hydraulic sample-cutting presses
Cut profile	Flat tensile specimen with shoulder heads (Form H 12.5 × 50) per DIN 50125

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.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same DIN 50125 profile.

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-CDH-DIN50125-FormH