

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ASTM E8 Type 3

Subsize Tensile Specimen · Tensile specimen — built to ASTM E8/E8M: Standard Test Methods for Tension Testing of Metallic Materials



OVERVIEW

Solid cutting die for cutting Subsize Tensile specimens to ASTM E8/E8M. 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 (min)	100 mm
Width of reduced section	6.0 ± 0.1 mm
Length of reduced section (min)	32 mm
Gauge length	25.0 ± 0.1 mm
Width of grip section	10 mm
Fillet radius (min)	6 mm
Thickness	≤6 mm

Nominal values per ASTM E8/E8M; die is cut to the standard's profile.

APPLICATIONS

- Thin sheet & foil stock
- Small-part sampling
- Weld & coupon testing
- Medical & electronic metal strip

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.

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	Subsize Tensile Specimen per ASTM E8/E8M

ABOUT THE STANDARD

ASTM E8/E8M covers room-temperature tension testing of metals to determine strength and ductility. The subsize flat specimen with a 25 mm gauge is used when material is too small or thin for the standard sheet-type specimen.

Also available: Ribbon Steel version
Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same ASTM E8 Type 3 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-E8E8M-Subsize