

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ISO 3376

Leather Dumbbell · Tensile specimen — built to ISO 3376: Leather — Physical and mechanical tests — Determination of tensile strength and percentage elongation


OVERVIEW

Solid cutting die for cutting Leather Dumbbell specimens to ISO 3376. 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	110 mm
Width of ends	25 mm
Length of narrow section	50 mm
Width of narrow section	10 mm
Thickness	As received (measured)

Nominal values per ISO 3376; die is cut to the standard's profile.

APPLICATIONS

- Footwear upper leather
- Automotive upholstery
- Garment & glove leather
- Leather goods

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	Leather Dumbbell per ISO 3376

ABOUT THE STANDARD

ISO 3376 (IULTCS/IUP 6) determines tensile strength, elongation at a given load and elongation at break of leather. The standard dumbbell is cut parallel and perpendicular to the backbone; a larger 190 × 40 mm version with a 20 mm narrow section is also defined.

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 ISO 3376 profile.

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-ISO3376-Standardspecimen