INTERNATIONAL STANDARD

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Woodworking tools — Metal-bodied bench planes, plane cutters and cap irons

Outils pour le travail du bois — Rabots métalliques, fers de rabots et contrefers

Reference number
ISO 2726:1995(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 2726 was prepared by Technical Committee ISO/TC 29, *Small tools*.

This second edition cancels and replaces the first edition (ISO 2726:1973) as well as ISO 2728:1982, which have been technically revised.

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Woodworking tools — Metal-bodied bench planes, plane cutters and cap irons

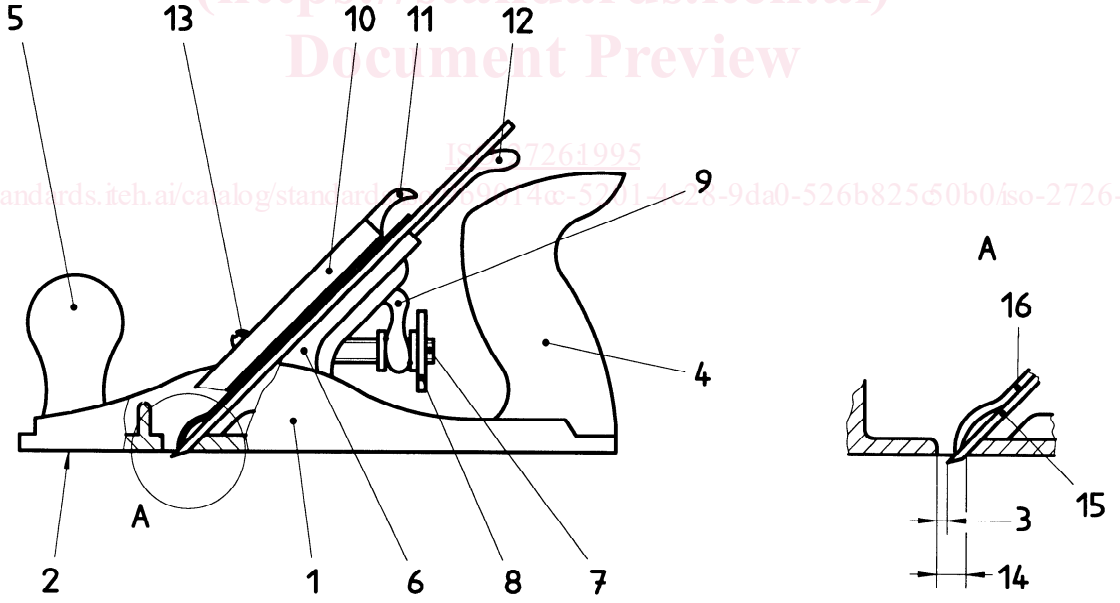
1 Scope

This International Standard specifies the characteristics of metal-bodied bench planes, plane cutters and cap irons.

2 Metal-bodied bench planes

2.1 Nomenclature

See figure 1.



Key

1	Plane body	7	Adjusting screw	13	Lever cap screw
2	Sole	8	Adjusting nut	14	Mouth
3	Clearance	9	Depth adjusting lever	15	Plane cutter
4	Handle	10	Lever cap assembly	16	Cap iron
5	Knob	11	Lever cap lock		
6	Frog	12	Lateral adjusting lever		

Figure 1 — Nomenclature

2.2 Dimensions

See figure 2 and table 1.

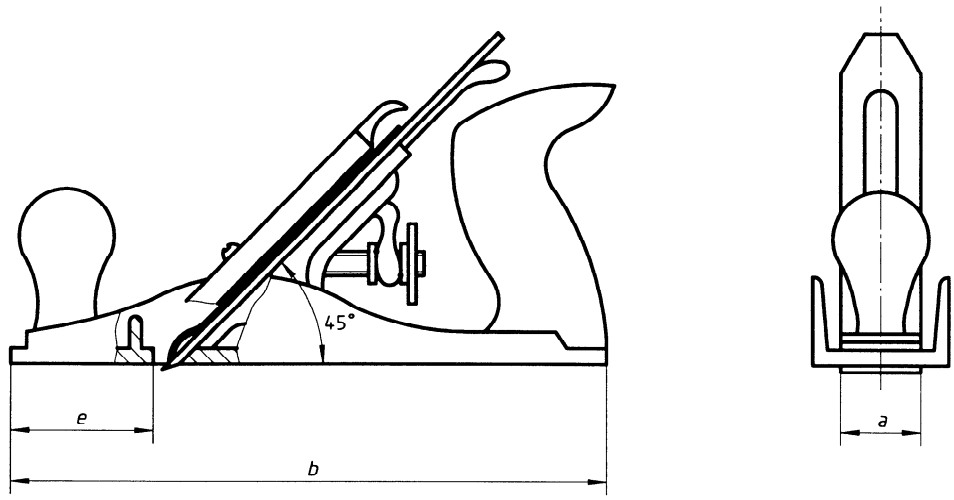


Figure 2 — Metal-bodied bench planes

Table 1

Dimensions in millimetres, between parentheses in inches

a nom.	*b* ± 10	*e* ± 10
45 (1 3/8)	236	63
51 (2)	250	63
	355	100
60 (2 3/8)	450	125
	560	180

2.3 Technical specifications

2.3.1 Shape

Metal-bodied bench planes shall have dimensions which conform to those shown in figure 2 and table 1, and be of a shape adapted to facilitate a firm grip during operation.

2.3.2 Material

Materials to be used for this purpose shall have at least the qualities of the materials which have been most commonly used up to now.

2.3.2.1 Cast iron or steel for body, frog and lever cap.

2.3.2.2 Steel for lever cap screw and for adjusting screw for plane cutter. Steel, brass or suitable plastic material for adjusting nut.

2.3.2.3 Hardwood timber, straight-grained, free from defects and with a moisture content between 10 % and 15 % for knob and handle. Suitable plastic material may also be used for the knob and handle. Where plastics are used, they shall have similar mechanical properties and be smoothly finished.

2.3.3 Sole

The working face shall be finished smooth and be flat within the specified tolerance including planes with corrugated faces.

The flatness tolerance shall be 0,08 mm.

The side faces shall be finished smooth. They shall be parallel and have an angle of 90° ± 0° 30′ to the face of the sole.

The mouth shall have parallel edges, at 90° ± 1° to the sides of the sole, and have sufficient side clearance to allow maximum lateral adjustment as given in 2.3.5.

2.3.4 Frog

The frog shall be firmly fixed on the sole (suitable means shall be provided) to enable correct adjustment of the mouth aperture.

2.3.5 Lateral adjusting lever

The lateral adjusting lever shall be capable of positioning the cutting edge at an angle of ± 1° 30′ relative to the face of the sole.

2.3.6 Adjusting nut

The adjusting nut shall be capable of being easily operated (knurled or special shape), and of imparting a minimum of 3 mm longitudinal movement to the cutter.

2.3.7 Knob and handle

The knob and handle shall be smoothly finished.

They shall be firmly fixed to the body of the plane.

2.4 Protection

Any exposed bright metal parts shall be given suitable anti-corrosion treatment.

2.5 Finish

All components of each plane shall be smoothly finished and be free from burrs, scale, flaws and other defects. With the exclusion of the plane cutter and cap iron, the unmachined surfaces of metal parts shall be painted, lacquered, black-japaned, powder epoxy coated, nickel or nickel chrome plated.

3 Plane cutter and cap irons

3.1 Dimensions

See figures 3 and 4 and tables 2 and 3.

Dimensions in millimetres

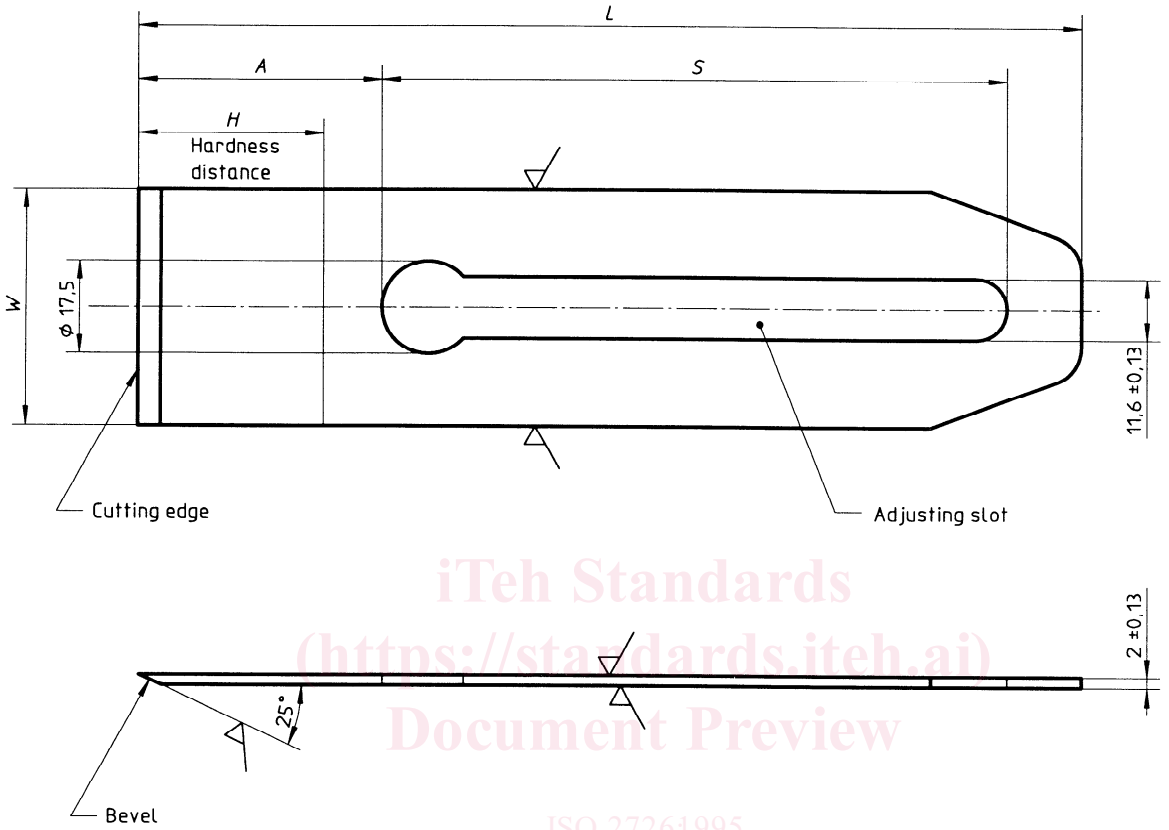


Figure 3 — Plane cutters for metal-bodied bench planes

Table 2

Dimensions in millimetres

W ± 1,3	*L* min.	*A* ± 1,5	*H* ± 3	*S* ± 1,5
44,5	178	46	35	118
50,8	187	54	46	118
60,3	197	56	48	118