
INTERNATIONAL STANDARD



3589

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Modular units for machine tool construction — Integral way columns

Éléments standard pour la construction des machines-outils — Montants à glissière incorporée

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[ISO 3589:1975](https://standards.iteh.ai/catalog/standards/sist/ca1e3803-a6d7-478c-91a2-0fe770e1e29d/iso-3589-1975)

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UDC 621.9-112

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Descriptors : machine tools, modular units, modular structures, pillars, dimensions.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3589 was drawn up by Technical Committee ISO/TC 39, *Machine tools*, and circulated to the Member Bodies in October 1974.

It has been approved by the Member Bodies of the following countries :

Austria	India	Sweden
Belgium	Italy	Switzerland
Bulgaria	Japan	Turkey
Chile	Mexico	United Kingdom
Czechoslovakia	Poland	U.S.A.
France	Romania	U.S.S.R.
Germany	South Africa, Rep. of	Yugoslavia
Hungary	Spain	

No Member Body expressed disapproval of the document.

Modular units for machine tool construction — Integral way columns

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1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain dimensions relating to the interchangeability of integral way columns used in special purpose machines constructed from modular units.

2 DIMENSIONS

Dimensions for columns shall be in accordance with the table.

2.1 The dimensions given for the length of saddle h_1 may be increased using values chosen from the R 10 series of preferred numbers.

2.2 The dimensions given for the stroke S may be increased using values chosen from the R 5 series of preferred numbers.

If required, other values may be chosen from the R 10 series of preferred numbers.

Dimensions in millimetres

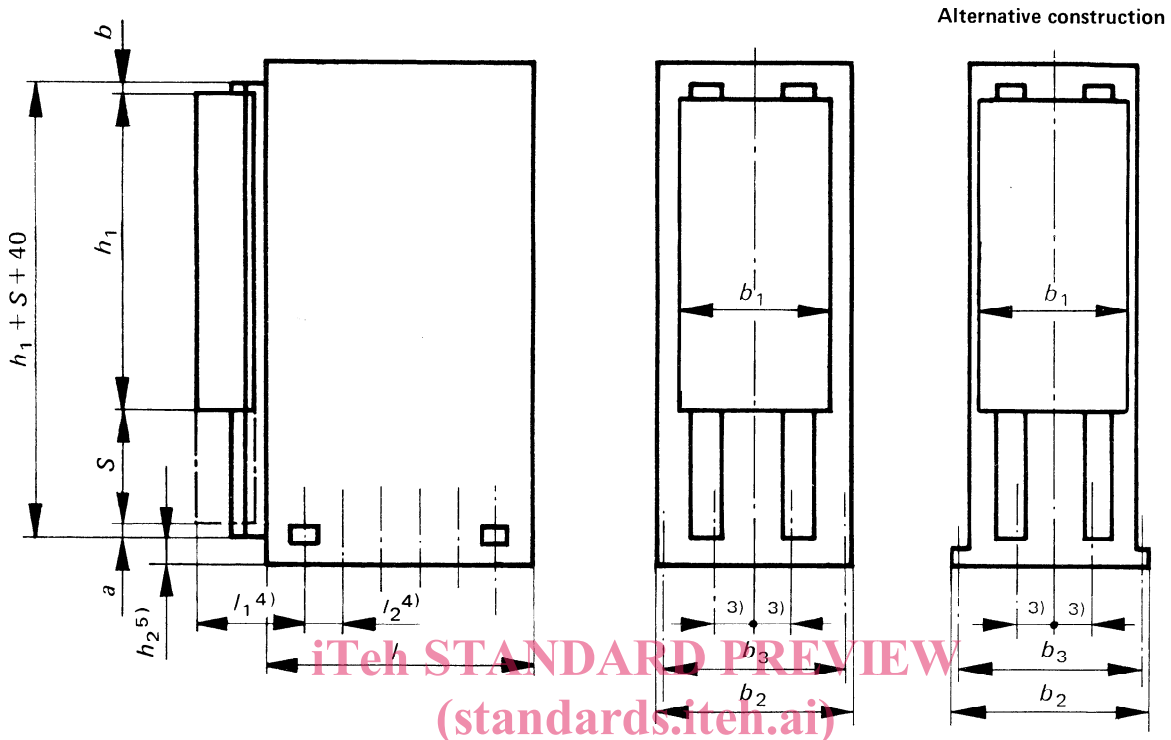


FIGURE – Integral way columns

ISO 3589:1975

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TABLE – Dimensions of integral way columns

Dimensions in millimetres

Nominal size	Width of saddle b_1	Length of saddle $h_1^{1)}$	Stroke $S^{2)}$	Column base width b_2	Lateral fixing hole centres $b_3 \pm 0,2$	Column base length l	Fixing bolt size
400	400	800	400	500	450	800	M 20
500	500	1 000	400	630	580	900	M 20
630	630	1 250	400	800	740	1 000	M 20
$a + b = 40 \text{ mm min.}$							

NOTES

- 1) See 2.1.
- 2) See 2.2.
- 3) Front fixing holes shall be spaced from the centre line in increments of 25 mm or a whole multiple thereof (at the manufacturer's discretion).
- 4) l_1 shall be a whole multiple of 25 mm (at the manufacturer's discretion).
 l_2 , spacing of lateral fixing holes, shall be 25 mm or a whole multiple thereof (at the manufacturer's discretion).

Tolerances between extreme holes : $\pm 0,2 \text{ mm.}$

- 5) h_2 – at the manufacturer's discretion.