# INTERNATIONAL STANDARD (3970

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXA OPTAHUAALUA OPTAHUAALUA TO CTAHAAPTUAALUA ORGANISATION INTERNATIONALE DE NORMALISATION

## Modular units for machine tool construction – Integral way columns – Floor-mounted type

Éléments standard pour la construction des machines-outils – Montants à glissière incorporée – Montage au sol

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#### (standards.iteh.ai) <u>ISO 3970:1977</u> https://standards.iteh.ai/catalog/standards/sist/7ac168da-213d-461b-b5fe-

ps://standards.iteh.ai/catalog/standards/sist/7ac168da-213d-461b-b 3742bcbf27a9/iso-3970-1977

#### 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 3970 was developed by Technical Committee ISO/TC 39, Machine tools, and was circulated to the member bodies in November VIEW 1975.

(standards.iteh.ai) It has been approved by the member bodies of the following countries :

Australia	India	ISpain70:1977
Austria	httaly/standards.iteh.ai/catak	og <b>Sweden</b> ls/sist/7ac168da-213d-461b-b5fe-
Belgium	Japan 3742b	cb Eurose 80-3970-1977
Bulgaria	Korea, Dem. P. Rep. of	United Kingdom
Czechoslovakia	Mexico	U.S.A.
France	Romania	U.S.S.R.
Hungary	South Africa, Rep. of	Yugoslavia

The member body of the following country expressed disapproval of the document on technical grounds :

Germany

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### Modular units for machine tool construction — Integral way columns - Floor-mounted type

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## 1 SCOPE AND FIELD OF APPLICATION 3 DIMENSIONS

This International Standard specifies certain dimensions 70:19 Dimensions for columns shall be in accordance with the relating to the interchangeability of integral way columns ards/sitable 168da-213d-461b-b5feof the floor-mounted type used in special purpose machines/iso-3970-1977 constructed from modular units.

The method of construction is alternative to that given in ISO 3589.

#### 2 REFERENCES

ISO 2934, Modular units for machine tool construction -Wing bases for columns.

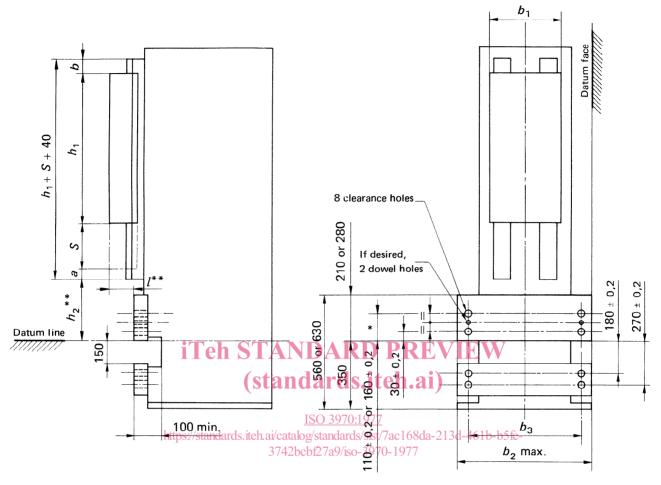
ISO 3589, Modular units for machine tool construction -Integral way columns.

**3.1** The dimensions laid down for the length  $h_1$  of the saddle may be decreased by one step using values from the R10 series of preferred numbers.

3.2 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



\* The alternative distance to the bolt holes can be used with either height of integral way column

\*\* At the manufacturer's discretion

FIGURE - Integral way column - Floor-mounted type

 $\mathsf{TABLE}-\mathbf{Dimensions} \text{ of integral way columns}-\mathbf{Floor}\text{-mounted type}$ 

Dimensions in millimetres

Nominal size	Width of saddle b <sub>1</sub>	Length of saddle h <sub>1</sub> <sup>1)</sup>	Stroke S <sup>2)</sup>	Column base width and flange width b <sub>2</sub> max.	Fixing hole centres b <sub>3</sub> ± 0,2	Fixing bolt size
400	400	800	400	600	545	M 20
500	500	1 000	400	700	645	M 20 or M 24
630	630	1 250	400	830	775	M 20 or M 24
800	800	1 600	400	1 000	945	M 20 or M 24
			a + b = 40 min.			

1) See 3.1.

2) See 3.2.