

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MET MET APODHAR OPTAHUBALUR TO CTAHDAPTUBALUR ORGANISATION INTERNATIONALE DE NORMALISATION

# Modular units for machine tool construction - Spindle units

Éléments standard pour la construction des machines-outils - Unités de broche d'usinage

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## FOREWORD

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International Standard ISO 3590 was drawn up by Technical Committee ISO/TC 39, *Machine tools*, and circulated to the Member Bodies in November 1974.

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

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The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Japan U.S.A.

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## **1 SCOPE AND FIELD OF APPLICATION**

This International Standard specifies dimensions relating to the interchangeability of the following types of spindle unit used in special purpose machines constructed from modular units :

- Quill feed (self-feeding) single spindle drilling units (clause 4);

- Quill feed (self-feeding) single spindle drilling units with adjusting slide for tool changing (clause 5);

- Single spindle drilling units (clause 6);
- Single spindle milling units (clause 7);
- Single spindle facing and boring units (clause 8).

## 2 REFERENCES

ISO/R 297, 7/24 tapers for tool shanks.

ISO 702, Machine tools – Spindle noses and face plates – Sizes for interchangeability. (Parts I, II and III.)

ISO 2905, Modular units for machine tool construction – Spindle noses and adjustable adaptors – 16 to 48 mm.

ISO 3476, Modular units for machine tool construction – Flanges for mounting multi-spindle heads.

#### **3 DIMENSIONS**

Dimensions for spindle units shall be in accordance with tables 1 to 5 as appropriate.

Spindle heights are not standardized.