
International Standard 3937

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

Cutter arbors with tenon drive — Dimensions

Mandrins porte-fraise à entraînement par tenons — Dimensions

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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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 3937 was prepared by Technical Committee ISO/TC 29, *Small tools*.

ISO 3937 was first published in 1976. This third edition cancels and replaces the second edition, of which the tolerances for l_1 and d_2 in tables 1 and 2 have been technically revised.

Cutter arbors with tenon drive — Dimensions

1 Scope and field of application

This International Standard specifies the dimensions of cutter arbors with tenon drive and with Morse or 7/24 tapers.

The interchangeability dimensions of the milling cutter bearing on the cutter arbor are in conformity with ISO 2780. The retaining bolt used shall have the dimensions specified in ISO 2780.

Morse tapers shall conform to ISO 296 and ISO 5413; 7/24 tapers shall conform to ISO 297 and ISO 2583.

ISO 296, *Machine tools — Self-holding tapers for tool shanks.*

ISO 297, *7/24 tapers for tool shanks for manual changing.*

ISO 2583, *Tool shanks and equipment with 7/24 tapers — Col-
lar dimensions.*

ISO 2780, *Milling cutters with tenon drive — Interchangeability
dimensions with cutter arbors — Metric series.*¹⁾

ISO 5413, *Machine tools — Positive drive of Morse tapers.*

2 References

ISO 240, *Milling cutters — Interchangeability dimensions for
cutter arbors or cutter mandrels — Metric series and inch
series.*

¹⁾ At present at the stage of draft. (Revision of ISO 2780-1973.)