

INTERNATIONAL
STANDARD

ISO
2490

Second edition
1996-11-15

**Single-start solid (monobloc) gear hobs
with tenon drive or axial keyway,
1 to 40 module — Nominal dimensions**

*Fraises-mères monoblocs à un filet, à entraînement par tenon
ou par clavette, de modules 1 à 40 — Dimensions nominales*



Reference number
ISO 2490:1996(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 2490 was prepared by Technical Committee ISO/TC 60, *Gears*.

This second edition cancels and replaces the first edition (ISO 2490:1975), which has been technically revised.

Annex A of this International Standard is for information only.

© ISO 1996

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Single-start solid (monobloc) gear hobs with tenon drive or axial keyway, 1 to 40 module — Nominal dimensions

1 Scope

This International Standard specifies the nominal dimensions of general-purpose single-start solid (monobloc) gear hobs with axial keyway or tenon drive of 1 to 40 module.

These hobs are intended for the production of gears which conform to ISO 54 and present a 20° pressure angle in conformity with ISO 53.

NOTE — Solid hobs are those made from one solid piece of material as opposed to hobs which have inserted blades.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 53:—¹⁾, *Cylindrical gears for general and heavy engineering — Standard basic rack tooth profile.*

ISO 54:—²⁾, *Cylindrical gears for general engineering and for heavy engineering — Modules.*

ISO 240:1994, *Milling cutters — Interchangeability dimensions for cutter arbors or cutter mandrels.*

ISO 2780:1986, *Milling cutters with tenon drive — Interchangeability dimensions with cutter arbors — Metric series.*

3 Nominal dimensions

The nominal dimensions shall be as shown in figure 1 and given in table 1.

1) To be published. (Revision of ISO 53:1974)

2) To be published. (Revision of ISO 54:1977)