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AMENDMENT 1
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Rolling bearings — Dynamic load ratings and rating life

AMENDMENT 1

Roulements — Charges dynamiques de base et durée nominale
AMENDEMENT 1

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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this Amendment may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to International Standard ISO 281:1990 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 8, *Load ratings and life*.

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Rolling bearings — Dynamic load ratings and rating life

AMENDMENT 1

Page 1, Scope

To comply with the changed wording for the designation of factor b_m , the first and the second paragraph of clause 1 (Scope) on page 1 of ISO 281 are slightly changed. The new wording is:

This International Standard specifies methods of calculating the basic dynamic load rating of rolling bearings within the size ranges shown in the relevant ISO publications, manufactured from contemporary, commonly used, high quality, hardened bearing steel in accordance with good manufacturing practice and basically of conventional design as regards the shape of rolling contact surfaces.

This International Standard also specifies methods of calculating the basic rating life, which is the life associated with 90 % reliability, with commonly used high quality material, good manufacturing quality, and with conventional operating conditions. In addition, it specifies methods of calculating adjusted rating life, in which various reliabilities, special bearing properties and specific operating conditions are taken into account by means of life adjustment factors.

Page 2, Symbols

Change the wording of the definition of the factor b_m to read:

b_m = rating factor for contemporary, commonly used, high quality, hardened bearing steel in accordance with good manufacturing practices, the value of which varies with bearing type and design.

Page 3, Table 1

Change the value of the factor b_m from 1 to 1,3 for insert bearings.