

INTERNATIONAL STANDARD



3964

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

Dental handpieces — Coupling dimensions

Pièces à main dentaires — Dimensions d'accouplement

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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 3964 was developed by Technical Committee ISO/TC 106, *Dentistry*, and was circulated to the member bodies in November 1975.

It has been approved by the member bodies of the following countries :

Australia	Italy	South Africa, Rep. of
Brazil	Mexico	Sweden
Canada	Netherlands	Turkey
France	New Zealand	United Kingdom
Germany	Norway	U.S.A.
Ireland	Romania	U.S.S.R.

No member body expressed disapproval of the document.

Dental handpieces – Coupling dimensions

0 INTRODUCTION

This International Standard is one of a series of standards relating to the dental handpiece.

The dental handpiece is an instrument used daily, throughout the world, by the dental practitioner. To permit the interchange of instruments from various manufacturing sources in different countries, agreement on the dimensions for the coupling units is necessary, otherwise major practical problems could arise in the use of these precision instruments.

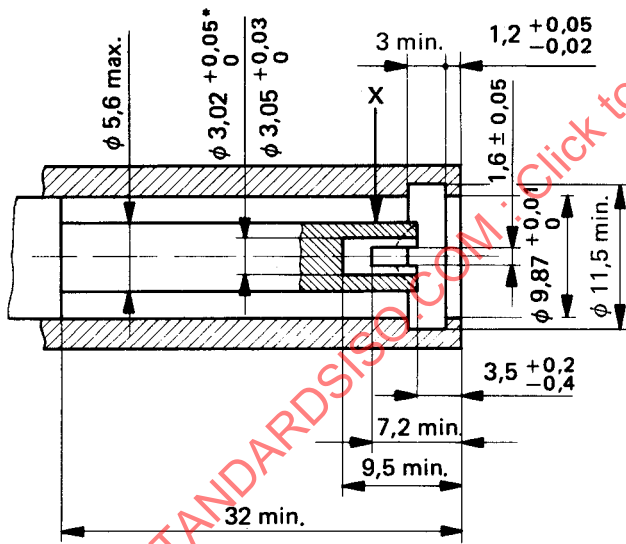
1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the nominal dimensions and tolerances of the swivel-type coupling used between the dental handpieces and their motivating units. It is not applicable to the older "slip-joint" coupling.

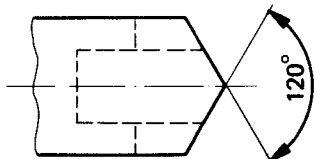
2 NOMINAL DIMENSIONS AND TOLERANCES

See figures 1 and 2.

Dimensions in millimetres

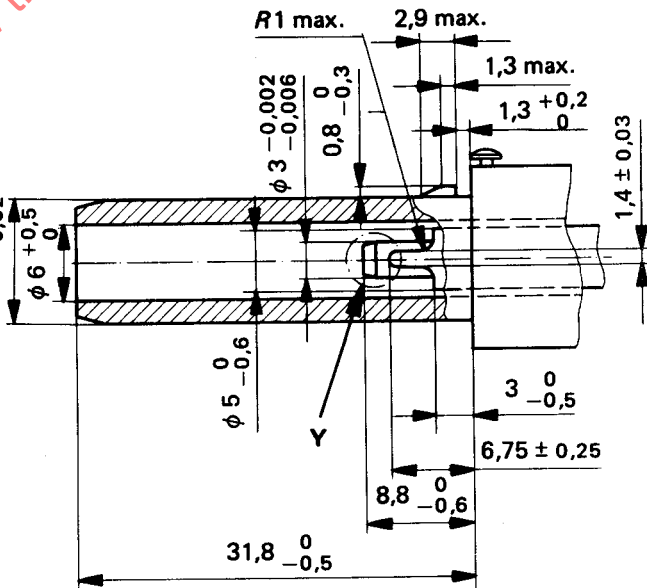


Detail X

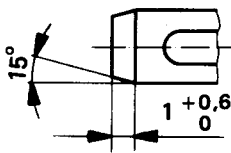


* For rigid mounted coupling $3.05 + \frac{0.03}{0}$; for non-rigid mounted coupling $3.02 + \frac{0.05}{0}$.

FIGURE 1 – Instrument



Detail Y



** The tolerance shall be $\frac{0}{-0.01}$ for speeds greater than 25 000 rev/min and $\frac{0}{-0.02}$ for speeds of 25 000 rev/min and less.

FIGURE 2 – Motor