BS ISO 26622-1:2017

BSI Standards Publication

Modular taper interface with ball track system

Part 1: Dimensions and designation of shanks

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Full document details: BS ISO 26622-1:2017

National foreword

This British Standard is the UK implementation of ISO 26622-1:2017. It supersedes BS ISO 26622-1:2008 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MTE/18, Tools tips and inserts for cutting applications.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Published by BSI Standards Limited 2017

ISBN 978 0 580 90260 4

ICS 25.060.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 June 2017.

Amendments/corrigenda issued since publication

Date	Text affected

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INTERNATIONAL STANDARD

ISO 26622-1

Second edition
2017-04

Modular taper interface with ball track system —

Part 1: Dimensions and designation of shanks

Interfaces à cône modulaire avec système de serrage à billes —

Partie 1: Dimensions et désignation des queues

Reference number
ISO 26622-1:2017(E)

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Full document details: BS ISO 26622-1:2017

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Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
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Foreword

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This document was prepared by Technical Committee ISO/TC 29, *Small tools*.

This second edition cancels and replaces the first edition (ISO 26622-1:2008), Figure 1 of which has been technically revised to correct the following:

— gauge diameter, d_2;

— tool changer groove diameter, d_3;

— ball track dimensioning, related to b_2, w_2 and d_9;

— flange hole dimensioning, related to l_{24} and d_{13};

— taper undercut depth;

— divers other corrections in the drawings.

A list of all parts in the ISO 26622 series can be found on the ISO website.

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Introduction

The modular taper with ball track system design originated from a joint development effort between two prominent tooling manufacturers in 1985. The benefits to be achieved by the joint development effort were to offer a complete but flexible tooling system-to-machine connection by joining the strengths of two tooling suppliers for the European and North American markets. The modular taper with ball track system product was first introduced at exposition mondiale de la machine-outil (EMO) in Milan in 1987.

Since its introduction, this tooling system has become a globally accepted design for both static and rotating applications. The design characteristics of the modular taper interface with ball track system allow it to be used equally well on both turning and rotating applications. The high mechanical advantage of the modular taper with ball track system design application allows for small springs, small bearings and high spindle speeds. This tool interface uses three areas of contact (one face and two on the taper) that provide a very simple but rigid tool design. These features have made the modular taper with ball track system the quick-change tooling of choice on many tens of thousands of machine tools throughout the world.

The purpose of this document is to ensure compliance of the manufacturing accuracy and quality of the modular taper with the ball track system tool interface.

The International Organization for Standardization (ISO) draws attention to the fact that it is claimed that compliance with this document can involve the use of a patent concerning the modular taper with ball track system.

ISO takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured ISO that he/she is willing to waive the exercise of this patent right throughout the world. In this respect, the statement of the holder of this patent right is registered with ISO. Information can be obtained from:

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