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Replacing GB/T 25361.1-2010

**Internal combustion engines - Piston pins - Part 1: General
specifications**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document is Part 1 of GB/T 25361 "Piston Pins of Internal Combustion Engines". GB/T 25361 has issued the following parts.

--- Part 1. Technical requirements;

--- Part 2. Inspection rules.

This document replaces GB/T 25361.1-2010 "Piston Pins of Internal Combustion Engines Part 1. Technical Requirements", and GB/T 25361.1-

Compared with.2010, except for structural adjustment and editorial changes, the main technical changes are as follows.

--- Changed the scope (see Chapter 1, Chapter 1 of the.2010 edition);

--- Added the terms and definitions of the leading angle of the end face of the outer edge (see 3.2.2.3);

--- Changed the symbols such as end face diameter d_6 , end face groove depth h_1 , end face step height/depth h_2 , taper hole inscribed table k , etc. (see Table 1, Table 1 of the.2010 edition);

--- Increased the partial view W of the end face groove and end face step of the cylindrical piston pin (see Figure 2);

--- Changed the outer edge and inner chamfer structure (see 5.2, 4.2 of the.2010 edition);

--- Changed the code and description (see Table 2, Table 2 of the.2010 edition);

--- Increased the allowable waviness requirements of the outer circular surface (see Table 5);

--- Changed the inner diameter tolerance and the concentricity requirements when the wall

thickness is a (see Table 6, Table 5 of the.2010 edition);

--- Changed the length tolerance and runout requirements (see Table 7, Table 6 of the.2010 edition);

--- Added the end face groove and end face step of the code LB piston pin (see Table 8);

--- Changed the size of the rounded outer edge (see Table 9, Table 7 of the.2010 edition);

--- Changed the view of the tapered hole structure (see Figure 16, Figure 13 of the.2010 edition);

--- Changed the machining surface roughness requirements (see 10.1.1, 9.1.1 of the.2010 edition);

--- Added coating surface roughness requirements (see 10.1.2);

--- Changed the requirements for material defects (see 11.2, 10.2 of the.2010 edition);

--- Changed the requirements for surface defects (see 11.3, 10.3 of the.2010 edition).

This document is equivalent to ISO 18669-1:2021 "Piston pins for internal combustion engines - Part 1. Technical requirements".

The following editorial changes were made to this document.

--- In Chapter 4, the table identification (Table 1), the title and the mention of the table are supplemented, and the order of the serial numbers of the original Table 1 to Table 21 is adjusted to

Table 2~Table 22.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 25361 aims to establish the basic and general technical specifications for piston pins of internal combustion engines and the corresponding inspection rules.

Consists of two parts.

--- Part 1. Technical requirements. The purpose is to establish general techniques such as terms and definitions, classifications, and structural features applicable to piston pins

Require.

--- Part 2. Inspection rules. The purpose is to establish the measurement conditions and characteristic measurement rules applicable to piston pins.

Piston pins for internal combustion engines - Part 1. Technical requirements