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**Plain Bearings - Lubrication Holes, Grooves and
Pockets - Dimensions, Types, Designation
and Their Application to Bearing Bushes**

(ISO 12128:2001, IDT)

滑动轴承 轴套润滑油孔、油槽和油穴 尺寸、型式、标记及其应用

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Plain Bearings - Lubrication Holes, Grooves and Pockets - Dimensions, Types, Designation and Their Application to Bearing Bushes

1 Scope

This Standard specifies the dimensions of the lubrication holes, grooves and pockets of bearing bushes. These dimensions can be marked on the drawing by the marking method specified in the example. The use of lubrication holes, grooves and pockets depends on the special operating conditions.

In addition, this Standard allows the bearing bushes made of copper alloy, thermoset plastic, thermoplastic or carbon materials to adopt different supplying and distributing methods of the lubricants.

NOTE: Since the bearing bushes made of sintered metal itself contain lubricant, this Standard does not specify the supplying and distributing method of lubricant. The bearing bushes made of carbon materials does not require lubrication by the grease or oil.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 18324-2001 Plain Bearings -- Copper Alloy Bushes (ISO 4379:1993, IDT)

ISO 2768-1:1989 General Tolerances Part 1: Tolerances for Linear and Angular Dimensions without Individual Tolerance Indications

3 Dimension, Type and Designation

3.1 General

The dimensions of lubrication holes, grooves and pockets are relevant to the wall thickness, s , of the bearing. The given dimension, d_1 , is only used as a reference

pockets shall not be specified.

4 Lubrication Holes, Grooves and Pockets on the Bearing Bushes (see Table 5)

The dimension and type of lubrication holes, grooves and pockets that meet the requirements of this Standard can refer to 3.2 and 3.4.

The designation example of the bearing bushes without lubrication holes, grooves and pockets shall refer to relevant standards.

In addition to $x=b/2$, the symbol x indicates the distance from the lead-in end of the bearing bush. Symbol h indicates the pitch of the lubrication grooves with the size $0.1b \sim 1b$.

If there are two lubrication holes or pockets in the bearing bushes, their interval shall be 180° ; if there are three of them, their intervals shall be 120° ; if there are four of them, their intervals shall be 90° .

Each bearing bush shall specify one type of lubrication holes, grooves and pockets. The x and h values for each type shall be selected freely.

5 Designation Examples for the Bearing Bushes with Lubrication Holes and/or Grooves

The designation example of Type-C bearing bushes with dimension of $20 \times 24 \times 20Y$, whose materials conforming to CuSn8P stipulated in GB/T 18324-2001, with 2 Type-L lubrication holes (2L) corresponding to Type-A bearing bushes stipulated in this Standard, the distance from the centerline of lubrication hole to the lead-in end of $x=6\text{mm}$ shall be as follows:

Bearing bushes GB/T 18324-C20×24×20Y-A2L6-CuSn8P

The designation example of the same bearing bushes, which is added 2 Type-D longitudinal lubrication grooves (2D) corresponding to Type-C bearing bushes stipulated in this Standard shall be as follows:

Bearing bushes GB/T 18324-C20×24×20Y-A2L62D-CuSn8P

The designation example of Type-C bearing bushes with dimension of $20 \times 24 \times 20Y$, whose materials conform to the CuSn8P stipulated in GB/T 18324-2001, with 3 Type-D longitudinal lubrication grooves (3D) corresponding to Type-C bearing bushes

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