

ICS 21.220.10

CCS J 18



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 32220-2015

Taper bushes - Types, dimensions and basic parameters

锥套 型式、尺寸和基本参数

Issued on: December 10, 2015

Implemented on: July 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard proposed by China Machinery Industry Federation. This standard by the National Standardization Technical Committee of the pulley and the belt (SAC/TC428) centralized. This standard was drafted. Shijiazhuang Kai Pute power transmission Machinery Co., Ltd., Mechanical Science Research Institute, the machine Productivity Center, Fuzhou, Fujian Yue Electrical Co., Ltd., four Chuan Deen transmission Machinery Co., Ltd .. The main drafters of this standard. Liu Limin, Kung built Qin Shuan, Zhou Peng, Lin Yusheng, Lei Yongzhi. Drogue type, size and basic parameters

1 Scope

China's national standard for taper bushes. It specifies the types and structural dimensions, the basic parameters and the designation of taper bushes, and it applies to the general industrial taper bushes used to connect a transmission component - a pulley, a sprocket, a gear, a coupling or a wheel hub - to a shaft. A taper bush is a split conical sleeve that sits between a shaft and the bore of the component mounted on it. Drawing screws pull the bush into the matching taper of the component, the split closes, and the bush grips the shaft by friction over its whole bearing area. It is a mechanically simple device that solves an awkward problem: fitting a pulley to a shaft rigidly, concentrically, and in a way that can be removed again. A parallel bore with a keyway needs a clearance to be assembled, and that clearance becomes runout and eventually fretting; an interference fit is concentric and rigid but has to be heated on and cannot easily be taken off; a taper bush gives the grip of an interference fit and comes apart with the same screws that installed it. The commercial value of the standard is that the taper bush is an interface. A bush is bought from one supplier, the pulley from another and the shaft is made by a third, and they only fit together because the taper, the length, the screw positions and the bore series are all standard. This standard fixes sixteen sizes from 1008 to 5050 and divides them into three series by the thread standard used - metric, British and American - and it directs new designs to the metric series and reserves the other two for maintenance. Issued on 10 December 2015 and in force since 1 July 2016.

This standard specifies the drogue type and size of the structure, the basic parameters and tags. This standard applies to general industrial coupling member and the drive shaft, such as pulleys, sprockets, gears, couplings and wheel hub and the shaft coupling.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document. GB/T in the

70.1 hexagon socket head cap screws ASMEB

18.3 Hexagon and spline inner recess screws, shoulder screws and set screws (SocketCap, Shoulder, andSet Screws, HexandSplineKeys)

3 Models and tags

3.1 Model Drogue divided according to the size of 1008 ~ 3030 and 3535 ~ 5050 two dimensions series, 1008,1108,1210,1215,1310, 1610,1615,2012,2571,2525,3020,3030,3535,4040,4545,5050 sixteen kinds of models; drogue in accordance with standard thread for the public , British and US series is divided into I, II series and series III. The new design should use series I, II series and series III use as a workshop.

3.2 mark Drogue marked by the code name, model number, diameter, serial number and composition Standard. TB Name Code model - - Aperture - - Serial Number Standard
Example. Model 1008 10mm aperture II series drogue should be marked as follows: 4 type, size and structure of the basic parameters

4.1 Model 1008 ~ 3030 drogue

4.1.1 Basic type and structure size Model 1008 ~ 3030 drogue basic types and dimensions of the structure shown in Figure 1 and Table 1. And with the drive member sleeve hole structure and dimensions Inch See Appendix A.