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**PHARMACEUTICAL INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YY/T 0957.1-2014

**Orthopaedic instruments - Drive connections - Part 1: Keys for
use with screws having hexagon socket heads**

矫形工具拧动接头 第1部分：内六角螺钉用扳手

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Foreword

YY/T 0957 "joint orthopedic tool twist" is divided into two parts.

--- Part 1. socket head cap screws with a wrench;

--- Part 2. slotted, Phillips slot and Phillips screws with a screwdriver. This section YY/T Section 10957 of. This section drafted in accordance with GB/T 1.1-2009 given rules. Consistency correspondence between this part of international documents and normative references of our files are as follows:

--- GB/T 230.1 metallic materials - Rockwell hardness test - Part 1. Test methods (A, B, C, D, E, F, G, H, K, N, T Ruler) (GB/T 230.1-2009, ISO 6508-1.2005, MOD)

--- YY/T 0294.1 surgical instrument metallic materials - Part 1. Stainless steel (YY/T 0294.1-2005, ISO 7153-1. 1991, MOD)

--- YY/T 0605.5 surgical implants of metallic materials - Part 5. Wrought cobalt - chromium - tungsten - nickel alloy (YY/T 0605.5- 2007, ISO 5832-5.2005, IDT) This section uses the translation method identical with ISO 8319-1.1996 "orthopedic tools twist fittings - Part 1. socket head cap screws with a wrench hand". This part of ISO 8319-1.1996 technical differences are as follows: Appendix A to add a reference to the ISO 9585. Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents. This part is proposed by the China Food and Drug Administration. This part of the National Surgical implants and orthopedic instruments Standardization Technical Committee materials and orthopedic implants Technical Committee (SAC/TC110/SC1) centralized. This section is drafted. Tianjin Medical Device Quality Supervision and Inspection Center, the State Food and Drug Administration Medical Device Review Evaluation Center, Changzhou City, Kang Hui Medical Devices Co., Ltd. The main drafters of this section. Li Nan, King Ming, Ma bamboo, Liu Bin, Liu Yinghui, Yin Zhuo, Bao Yifu.

Various screw wrench basic requirements are as follows: Working end

--- screw wrench should be able to accurately fit the screw nail head;

--- Material for the manufacture of screw wrench shall meet all clinical requirements;

--- Screw wrench should be of sufficient strength; This part of ISO 8319 is intended to screw wrench design without affecting the properties of the premise to ensure that the above requirements can be achieved. Orthopedic tools twist fittings Part 1. socket head cap screws with a wrench

1 Scope

YY/T 0957.1 standardises the hexagon socket key used to drive orthopaedic screws, the most common drive interface in trauma and spinal implant systems. It is Part 1 of the Chinese series on orthopaedic instrument drive connections, with Part 2 covering slotted and cross recess drivers. The dimensions and tolerances it fixes are what determine whether the key engages fully, transmits the torque a locking screw needs, and comes out again without rounding the socket, which in a surgical setting is the difference between a routine step and an unplanned revision of technique. For a manufacturer of orthopaedic instrumentation or implant screws for the Chinese market, this is the governing dimensional standard for the interface.

YY/T 0957 provisions of this part of the working end wrench for screwed into or out of the surgical implant metal bone screws with a hex of Dimensions, tolerances, mechanical properties and performance requirements. Has a working end of this Part apply to screw wrench in line with ISO 5835 With screws.

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 230.1 metallic materials - Rockwell hardness test - Part 1. Test methods (A, B, C, D, E, F, G, H, K, N, T standard Feet) (GB/T 230.1-2009, ISO 6508-1.2005, MOD)

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ISO 5835 Hexagon drive surgical implants under the spherical surface of asymmetrical thread connecting metal bone screw size (Implantsfor surgery-Metalbonescrews with hexagonal drive connection, spherical under-surface of head, asymmetrical thread-Dimensions)

3 Dimensions and tolerances

Dimensions and tolerances shall comply with Figure 1 and Table 1 provisions. Explanation.

e

--- diagonal diameter; s

--- on the edge width; l

--- Hexagon length portion.

1 screw wrench size label

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