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

GB/T 32557.1-2016

**Polygonal taper interface with flange contact surface -- Part 1:
Dimensions and designation of shanks**

带有法兰接触面的多棱锥接口 第1部分：柄部尺寸和标记

(English Translation)

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Foreword

GB/T 32557 "Polygonal interface with flange contact surface" is divided into two parts.

- Part 1. Shank size and marking;
- Part 2. Mounting hole size and marking.

This part is part 1 of GB/T 32577.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to ISO 26623-1.:2008 "Polygonal interface with flange contact surface Part 1. Shank Inch and mark "(English version).

In this part of the normative reference to the international documents have a consistent correspondence between the following documents.

--- GB/T 9145-2003 Ultimate dimensions of normal thread, preferred series (ISO 965-2.:1998, MOD)

--- GB/T 1804-2000 General tolerances Tolerances of linear and angular dimensions without tolerances (ISO 2768-1. 1989, eqv) this part is made by the China Machinery Industry Federation.

This part is headed by the National Tool Standardization Technical Committee (SAC/TC91).

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Polygonal interface with flange contact surface Part 1. Shank size and marking

1 Scope

This part of GB/T 32577 specifies the use of automatic tool changers and manual tool changers (eg lathes, drills, milling machines, milling centers and grinding Bed), with a flange contact surface of the multi-pyramid interface taper shank series size.

Flange parts with trenches can be used for automatic tool change. The handle is passed through (expandable) fan-shaped blocks, tighten the hole in the circular groove or use Center Bolt Tightening Internal Thread.

Torque transmission is achieved by a latch (polygonal pyramid).

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

ISO 965-2 International standard - Standard metric thread tolerances - Part 2. General internal and external thread dimensions - Medium quality (ISO generalpurposemetricscrewthreads-Tolerances-Part 2.

Limits of sizes for general purpose external and internal screw threads - medium quality) ISO 2768-1 General tolerances - Part 1. Linear and angular tolerances without tolerances (General tolerances-Part 1.

Tolerances for linear and angular dimensions without individual tolerance indications

3.1 General provisions

Uncalibrated linear and angular tolerances are according to ISO 2768-1 "m" level. The thread tolerances are not specified in accordance with ISO 965-2.

3.2 Polygonal taper shank

The pattern and dimensions of the polygonal taper are shown in Figures 1, 2 and 1.