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

**GB/T 7781-2018**

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**Separators - Model designation**

分离机 型号编制方法

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### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 7781-2005 "Separator Modeling Method". Compared with GB/T 7781-2005, except for editorial repair The main technical changes changed are as follows:

--- Added "Chapter

3 Terms and Definitions" (see Chapter 3);

--- Change the slagging mode in the feature code to the feature code, and change from six to four, delete the water slag discharge, and slag the outer nozzle The inner nozzle slag is combined into the nozzle slag discharge (see Table 1, Table 1 of the.2005 edition);

--- Increased the characteristics and representation of the slagging method of the tubular separator (see Table 1, Table 1 of the.2005 edition);

--- Added material name and code number for contact with materials (see Table 4). This standard was proposed by the China Machinery Industry Federation. This standard is under the jurisdiction of the National Separation Machinery Standardization Technical Committee (SAC/TC92). This standard is drafted by: Hefei General Machinery Research Institute, Sichuan Weizhen High-tech Materials Co., Ltd. The main drafters of this standard. Zhou Jin, Qu Zhi, Xiao Yong. The previous versions of the standards replaced by this standard are.

---GB/T 7781-1987, GB/T 7781-2005. Separator model preparation method

### 1 Scope

China's national model designation system for separators. The machines covered here are the high-speed centrifugal separators - disc stack, tubular bowl and chamber types - which separate liquids from each other and remove fine solids at accelerations of thousands of times gravity. They are the equipment of dairy processing, edible oil refining, brewing, blood fractionation and marine fuel treatment, and they are precision machines: a disc stack holds a hundred conical plates a fraction of a millimetre apart, turning at many thousand revolutions a minute, and the bowl is a pressure containment running at its material limit.

The designation encodes the type, the bowl diameter and the significant features, which for machines that are rebuilt and re-bowled over decades is what keeps parts and service traceable to the right machine. The standard specifies the model preparation method for disc separators, tubular separators and chamber separators.

This standard specifies the model preparation method of the disc separator, the tube separator and the chamber separator (hereinafter referred to as the separator). This standard applies to the preparation of disc separators, tube separators and chamber separators.

## 2 Normative references

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

GB/T 4774 Filtering and Separating Terminology

## 3 Terms and definitions

The terms and definitions defined in GB/T 4774 apply to this document.

## 4 Preparation method

4.1 Separator product name consists of model code and Chinese name.

4.2 The Chinese name in the name of the separator should conform to the provisions of GB/T 4774, and the model code should be representative of the Chinese character in the Chinese name. Pinyin letters are indicated.

4.3 The separator model consists of the basic model and the auxiliary model. The specific representation is as follows:

4.4 The basic model of the separator consists of two parts. the basic code and the main parameter. The basic model uses the representative uppercase Chinese spelling in the name. The letter indicates that the main parameters are expressed in Arabic numerals and should be in accordance with Table 1.