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

GB/T 30784-2024

Replacing GB/T 30784-2014

**Food processing equipment-Motor-operated
equipment-Planetary mixers**

饮食加工设备 电动设备 行星式搅拌机

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 30784-2014 "Planetary Mixers for Food Processing Machinery". Compared with GB/T 30784-2014, In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Changed the scope of application (see Chapter 1, Chapter 1 of the 2014 edition);
- Added terms and definitions (see Chapter 3);
- Changed the description of product structure and added protective cover (see 4.1, Chapter 3 of the 2014 edition);
- Changed the classification of planetary mixers from Category 3 to Category 2 (see 4.2, Chapter 4 of the 2014 edition);
- Changed the expression of the relevant hazard description, added the hazard description of the motor housing in Table 1, deleted the description of type 3 Requirements (see Chapter 5, 5.5 and 5.6 of the 2014 edition);

- Changed the description of relevant hazards (see Table 1, Chapter 5 of the 2014 edition);
- Added general requirements for product design (see 6.1);
- Deleted the requirements for type 3 (see 6.1.2.3, 6.1.2.5, 6.1.4.4, 6.5 of the 2014 edition);
- Added requirements for motor housing protection level (see 6.4);
- Increased the safety dimensions of protective devices (see 6.2.2.1);
- Increased the opening size of the protective cover (see Table 2);
- Changed the measure verification (see Table 3, Table 1 of the 2014 edition);
- Changed the type inspection items (see Table 4, Table 2 of the 2014 edition);
- Changed the provisions on product marking (see 9.2, 9.2 of the 2014 edition);
- Added "Noise Test Specification" (see Appendix A).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by China Light Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Food Processing Equipment (SAC/TC383).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2014 as GB/T 30784-2014;
- This is the first revision.

Food processing equipment electric equipment Planetary mixer

1 Scope

This document specifies the technical requirements and inspection rules for planetary mixers equipped with bowl-shaped barrels (hereinafter referred to as barrels), defines the

relevant The document provides terms and definitions, describes the structural classification, verification of measures and the associated hazards in different areas, and gives information on use.

This document is applicable to planetary mixers with a barrel capacity of $\geq 5\text{L}$ and $\leq 200\text{L}$ used in food stores to process various food materials.

Including cocoa powder, flour, sugar, oil and fat, meat filling, eggs and other materials. Food industry, pharmaceutical industry, chemical industry, printing industry and other industries This document is for reference only for mixers used in industrial premises.

This document does not apply to.

- Auxiliary accessories for planetary mixers;
- Continuous feeder;
- Vertical dough mixer (GB/T 22748);
- Whipping mixers without parallel shafts;
- Equipment that is in the experimental stage and is being developed by the manufacturer;
- Household appliances.

2 Normative references

GB/T 1031-2009

GB/T 3767-2016

GB/T 4208

GB 4706.1-2005

GB 4706.38

GB/T 6881.2

GB/T 14574

GB/T 15706-2012

GB/T 16855.1-2018

GB/T 17248.2-2018

GB/T 18153

GB/T 18831-2017

GB/T 22747-2022