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

GB/T 25936.3-2024

Replacing GB 25936.3-2012

**Rubber and plastics size reduction machines - Part 3: Safety
requirements for shredders**

橡胶塑料粉碎机械 第3 部分：切碎机安全要求

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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 is required. This document is part 3 of GB/T 25936 Rubber and Plastics Crushing Machinery. GB/T 25936 has been published in the following parts. Part

1 Scope

GB/T 25936.3-2024 is the Chinese national standard on rubber and plastics size reduction machines - part 3: safety requirements for shredders, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 23 August 2024 by

the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2025. Classification: ICS 71.120, CCS G 95. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the safety requirements applicable to the design and manufacture of shredders and gives instructions for the safe use of the machine. This document applies to the entire life cycle of the shredder (see

5.4 of GB/T 15706-2012), the intended use process All significant hazards, dangerous conditions, and situations associated with the shredder that may arise from misuse that is reasonably foreseeable by the manufacturer. states and dangerous events (see Appendix A). This document applies to shredders for processing rubber and plastics starting at the outer edge of the feed hopper and ending in the discharge area. This document does not apply to. There is no feeding or discharging equipment integrated with the machine; - Safety measures related to reducing the risk of ignition of combustible residues from shredded material; - Local exhaust ventilation system. -

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 3767 Acoustics - Determination of sound power level and sound energy level of noise source by sound pressure method - Engineering method for approximate free field above reflecting surface

GB/T 3836.1 Explosive atmospheres Part

3 Safety requirements for shredders; Part

4.Safety requirements for pelletizers. - This document replaces GB 25936.3-2012 "Rubber and plastics crushing machinery Part

3.Safety requirements for shredders" and is in accordance with Compared with GB 25936.3-2012, in addition to structural adjustments and editorial changes, the main technical changes are as follows: The scope of the document has been changed (see Chapter 1, Chapter 1 of the.2012 edition);

a) Changed the following four terms and definitions. "chopper", "rotor", "fixed chopping tool",

"feeding device" (see 3.1, 3.33.5, 3.1, 3.3

3.5 of the.2012 edition);

b) Added the term and definition of "push feeder" (see 3.9);

c) The general requirements for safety requirements and/or protection/risk reduction measures have been changed (see 4.1, Chapter 5 of the.2012 edition);

d) Added the requirements for the performance level PLr of the safety-related parts of the control system (see 4.1, 4.2);

e) The safety requirements for the shredding room have been changed (see 4.2.1, 5.1.1 of the.2012 edition);

f) Added general requirements for feeding areas (see 4.2.2.1);

g) Added safety requirements and/or protective measures for electric feeding devices to handle material entanglement (see 4.2.2.2);

h) The main noise sources and noise reduction measures have been changed (see 4.3.2, 5.2.2 of the.2012 edition);

i) Changed the safety requirements for electrical hazards (see 4.6, 5.4)j of the.2012 edition) Increased safety requirements and/or protective measures for hazards arising from disregard of ergonomic principles (see 4.7);

4 Equipment protected by intrinsic safety type "i"

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5 Equipment protected by positive pressure enclosures "p"

GB/T 3836.6 Explosive atmospheres Part

6 Equipment protected by liquid immersion type "o"

GB/T 3836.7 Explosive atmospheres Part

7 Equipment protected by sand-filled "q"

GB/T 5226.1-2019 Electrical safety of machinery Electrical equipment of machinery Part