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

YC/T 10.14-2018

Replacing YC/T 10.14-2006

**Tobacco Machinery General Technical Conditions Part 14:
Electrical Control Systems
(English Translation)**

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Foreword

YC/T 10 "General Technical Conditions for Tobacco Machinery" is divided into 16 parts.

- Part 1. Cutting parts;
- Part 2. Cold work;
- Part 3. Welded parts;
- Part 4. Gray cast iron parts;
- Part 5. Ductile iron castings;
- Part 6. Cast carbon steel parts;
- Part 7. Copper alloy castings;
- Part 8. Aluminum alloy castings;
- Part 9. Forgings;
- Part 10. Metal plating and chemical treatment;
- Part 11. Painting;
- Part 12. Assembly;
- Part 13. Packaging;
- Part 14. Electrical control systems;
- Part 15. Electrical control system assembly;
- Part 16. Polished and brushed stainless steel parts.

This part is the 14th part of YC/T 10.

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

This part replaces YC/T 10.14-2006 "Electrical Control System for General Technical Conditions of Tobacco Machinery", and YC/T 10.14-Compared with 2006, the main technical changes except editorial changes are as follows.

- Removed the contents of "Electrical Installation" (see 3.5 of 2006 edition);
- Change the "speed change rate, speed ratio and steady speed accuracy" to "electrical performance index", and its contents have been modified accordingly (see 3.6.3, 3.6.3 of the 2006 edition);
- Change "anti-shock protection" to "electric shock protection", and its contents have been modified accordingly (see 3.7.2, 2006 version 3.7.2);
- Modified the contents of "interval and creepage distance" (see 3.7.3, 3.7.3 of 2006 edition);
- Change the "continuity test of protective grounding circuit" to "continuity test of protective coupling circuit", and its contents have been repaired accordingly.

Change (see 4.5, 4.5 of the 2006 edition);

- Change the "motor speed control test" to "electrical performance test", and its contents have been modified accordingly (see 4.10, 2006 edition) 4.10).

This part is proposed by the National Tobacco Monopoly Bureau.

This part is under the jurisdiction of the National Tobacco Standardization Technical Committee Smoke Machine Subcommittee (SAC/TC144/SC3).

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1 Scope

This part of YC/T 10 specifies the general technical requirements and test methods of the electrical control system (hereinafter referred to as the electronic control system) in tobacco machinery.

Law, inspection rules and signs, packaging, transportation, storage.

This section applies to the design, manufacture, testing and acceptance of tobacco machinery electronic control systems.

Note: The term "electrical" in this section includes both electrical and electronic aspects (eg, electrical equipment refers to electrical equipment and electronic equipment).

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 3797-2016 Electrical Control Equipment GB/T 4208-2008 classification of enclosure protection grade GB/T 4588.1 Non-metallized hole single and double-sided printed boards GB/T 4588.2 Metallized hole single and double-sided printed boards GB/T 4588.3 Printed circuit board design and use GB/T 4588.4 Multi-layer printed board specification GB/T 5048-1999 moisture-proof packaging GB 5226.1-2008 Mechanical electrical safety machinery and electrical equipment - Part 1. General technical conditions GB/T 5465.2-2008 Graphical symbols for electrical equipment - Part 2. Graphical symbols GB/T 5489 printed board drawing GB 7251.1-2013 Low-voltage switchgear and control equipment - Part 1. General GB 14048.1-2006 Low-voltage switchgear and control equipment - Part 1. General YC/T 10.10 General technical requirements for tobacco machinery - Part 10. Metal plating and chemical treatment YC/T 10.11 General technical requirements for tobacco machinery - Part 11. Painting YC/T 10.13 General technical requirements for tobacco machinery - Part 13. Packaging

3.1 Product model

The product model of the electronic control system is formulated by the company.

3.2 Working conditions

The electronic control system should work normally under the following conditions.

- a) Ambient temperature. 0 ° C ~ 40 ° C;
- b) relative humidity. no more than 80%;