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

YC/T 10.1-2018

Replacing YC/T 10.1-2006

**Tobacco machinery General technical conditions Part 1:
Machined parts
(English Translation)**

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Table of Contents

Foreword
1 Scope
2 Normative references
3 General requirements

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 first 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 10.1-2006 "General technical conditions for tobacco machinery Part 1. Machined parts", and Compared with YC/T 10.1-2006, the main technical changes

except editorial changes are as follows.

- Modified "quenched workpiece" as "heat treated workpiece" (see 3.9, 3.9 of 2006 edition);
- Increased other requirements for workpiece processing (see 3.13~3.15);
- Increased tolerance requirements for common thread accuracy not specified (see 4.2.4);
- Increased surface requirements for threaded workpieces after rolling (see 4.2.5);
- Added "undercut" requirements (see 4.5);
- Added "synchronous pulley" requirements (see 4.6);
- Added "handling and storage" requirements (see Chapter 5).

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 requirements for the machined parts of tobacco machinery, the requirements for cutting elements, handling and storage.

This section applies to the machined parts of tobacco machinery.

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 145 center hole GB/T 1184-1996 Shape and position tolerances without tolerance values GB/T 1243 short pitch precision roller chain, sleeve chain, accessories and sprockets for transmission GB/T 1804-2000 General tolerances and tolerances for linear and angular dimensions without tolerances GB/T 2516 ordinary thread limit deviation GB/T 3480.5 Calculation of load capacity of spur and helical gears - Part 5. Strength and quality of materials GB/T 4459.5 mechanical drawing center hole representation GB/T 10095.1 Precision of cylindrical gears - Part 1. Definitions and permissible values GB/T 10095.2

Precision of cylindrical gears - Part 2. Definitions and permissible values of radial integrated deviation and radial runout YC/T 226 Ordinary thread finishing, shoulder distance, undercut and chamfer YC/T 227 smooth workpiece undercut YC/T 319 Timing Pulley and Retaining Ring

3 General requirements

3.1

The machined surface of the machined part (hereinafter referred to as the workpiece) shall be free of defects such as scratches, bumps, burning, and rust.

3.2

The finished and semi-finished products of the workpiece shall have no sharp corners, burrs and sharp edges. Workpieces that require sharp edges should be noted on the drawing.

3.3

When the chamfer height is not indicated on the workpiece pattern, it shall be chamfered as specified in Table 1.

Table 1 Chamfer height in millimeters

Workpiece diameter D(d)	≤5	>5~30	>30~100	>100~250	>250~500	>500~1000	>1000	45°
chamfer height C	0.2	0.5	1	2	3	4	5	

3.4

If the radius of the rounding is not indicated in the workpiece drawing and there is no requirement for clearing the root, it shall be rounded as specified in Table 2.

Table 2 Rounding units are in millimeters

Workpiece diameter D(d)	≤4	>4~12	>12~30	>30~80	>80~140	>140~200	>200	Rounding
radius r	0.4	1	2	4	8	12	20	Note. Refer to this table for rounding of non-cylindrical faces.