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

GB/T 14896.3-2025

Replacing GB/T 14896.3-2009

**Non-traditional machines - Terminology - Part 3:
Electrochemical machines**

特种加工机床 术语 第3部分：电解加工机床

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Table of Contents

1.Scope	1
2 Normative References	1
3.Processing Method	1
4.Machine tool name	2
5 Machine Tool Parameters.....	4
4 Index	6

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 3 of GB/T 14896 "Terminology for Special Processing Machine Tools". GB/T 14896 has already published the following parts.

- 1.Basic Terminology;
- 2.Electrical Discharge Machining Machines;
- 3.Electrolytic Processing Machine Tools;
- 4.Ultrasonic Machining Machine Tools;
- 5.Multi-functional Machine Tools;
- 6.Other Special Processing Machine Tools;
- 7.Additive Manufacturing Machine Tools;
- 8.Arc Processing Machines;

9.Laser Processing Machine Tools This document replaces GB/T 14896.3-2009 "Terminology for Special Processing Machine Tools Part

3.Electrolytic Processing Machine Tools", and is consistent with GB/T Compared to.2009, excluding structural adjustments and editorial changes, the main technical changes are as follows:

- a) Added "Electrolytic rotary printing machine tool", "Electrolytic integral bladed disk machining machine tool", "Electrolytic milling machine tool", and "Electrolytic rotary printing machine tool". Terms and definitions for "electrolyte temperature control system" (see 3.13, 4.2.6, 4.10, 4.11, 6.8);

b) The following terms have been removed. "DC current electrolytic polishing", "pulse current electrolytic polishing", "photolithography electrolytic machining", "electrolytic rubbing machining", and "micro-electrolysis". Terms and definitions for "processing" (see 6.8.1, 6.8.2, 6.13, 6.14, and

1 Scope

GB/T 14896.3-2025 is the Chinese national standard on non-traditional machines - terminology - part 3: electrochemical machines, in the field of manufacturing engineering. 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 31 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2026. Classification: ICS 25.080.99, CCS J59. 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 defines the processing methods, names, parameters, and terminology of key components of electrochemical machining tools. This document applies to all types of electrolytic machining tools (including equipment).

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 14896.1-2025 Terminology for Special Processing Machine Tools Part

3 Processing Method

3.1 A processing method that utilizes the principle of electrochemical anodic dissolution to remove workpiece material. [Source: GB/T 14896.1-2025, 3.3]

3.2 Electrolytic machining is a method that improves machining stability and accuracy by mixing a certain amount of gas into the electrolyte and utilizing the resulting gas-liquid two-phase flow.

3.3 An electrolytic machining method that uses a jet of electrolyte ejected from a nozzle containing a cathode to machine holes and grooves.

3.4 Electrolytic machining method for machining cavities, surfaces, and holes using a forming tool cathode.

3.5 Electrolytic machining methods that use linear, strip, or disc-shaped tool cathodes to cut or groove workpieces.

3.6 Electrolytic machining method for machining rotating workpieces using a tool cathode.

3.7 Electrolytic machining method for deburring or chamfering workpieces.