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

GB/T 14896.2-2025

Replacing GB/T 14896.2-2009

**Non-traditional machines - Terminology - Part 2: Electrical
discharge machines**

特种加工机床 术语 第2部分：电火花加工机床

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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 2 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 14896.2-2009 "Terminology for Special Machine Tools Part

2.Electrical Discharge Machining Machine Tools", and is consistent with... Compared with GB/T 14896.2-2009, apart from structural adjustments and editorial changes, the main technical changes are as follows:

a) Change the processing methods from "high-speed machining of small holes by electrical discharge machining" and "texturing of rolls by electrical discharge machining" to "machining of small holes by electrical discharge machining" and "electrical discharge machining of rolls by electrical discharge machining". "Floral tawning" (see 3.5, 3.11, 6.5,

6.10 in the 2009 edition);

1 Scope

GB/T 14896.2-2025 is the Chinese national standard covering the vocabulary of EDM - the sinker and the wire machine, the dielectric and the flushing, the discharge parameters and the servo gap, the recast layer and the electrode wear, defined once for the whole family of standards. Part 2 of the series. It replaces GB/T 14896.2-2009, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 14896.2-2009.

This document defines the machining methods, names, parameters and processes of electrical discharge machining (EDM) machines, as well as the terminology for their main components. This document applies to all types of electrical discharge machining (EDM) machine 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 In a specific medium, the workpiece material is melted and vaporized by pulsed spark discharge between the workpiece and the tool electrode, thus removing the material. method. [Source: GB/T 14896.1-2025, 3.2]

3.2 Electrical discharge machining using shaped conductive materials as tool electrodes.

3.3 Electrical discharge machining (EDM) achieves workpiece forming by utilizing the corresponding generating motion between the tool electrode and the workpiece.

3.4 Electrical discharge machining (EDM) generates the machined surface by the envelope of the tool electrode moving along the CNC trajectory.

3.5 Hollow tubular conductive material is used as the tool electrode, and small-hole electrical discharge machining is performed by rotating the tool electrode and flushing with high-pressure internal fluid.

3.6 Electrical discharge machining (EDM) is used to create micropores using micro-electrodes and low discharge energy.

3.7 Electrical discharge machining is performed by moving the workpiece and tool electrode in a manner similar to the relative motion between the grinding wheel and the workpiece in mechanical grinding.

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