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

GB/T 14896.10-2025

**Non-traditional machines - Terminology - Part 10:
Electroforming machines**

特种加工机床 术语 第10部分：电铸机床

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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 10 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 Machining Machine Tools;
- 9. Laser Processing Machine Tools;

10. Electroforming Machine Tools Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Technical Committee on Standardization of Special Processing Machine Tools (SAC/TC161). This document was drafted by: Henan Polytechnic University, Nanjing University of Aeronautics and Astronautics, Xiamen Standardization and Quality Brand Association, and Nantong Meijing Microelectronics. Subsidiary Company, Suzhou Electrical Discharge Machining Research

Institute Co., Ltd., Hefei University of Technology, Xi'an University of Technology, Chinese Mechanical Engineering Society, China Banknote Printing and Minting Corporation Design and plate making company, Xi'an Jiaotong University, China University of Petroleum (East China), and Sino-German Standardization Cooperation Suzhou Innovation Center. The main drafters of this document are. Ming Pingmei, Zhu Zengwei, Wang Shaowu, Li Xinchao, Zhou Tao, Wu Yue, Ji Qianyu, Chen Yuanlong, Tang Lin, and Yuan Junrui. Liu Xuejing, Ji Renjie, and Feng Limin.

GB/T 14896, "Terminology for Special Processing Machine Tools," is my country's terminology standard for the field of special processing machine tools, regulating the terminology of special processing machine tools. Standardize the use of vocabulary and terminology in the standards to ensure that people have a common understanding of the main concepts in the standards for special processing machine tools. GB/T 14896, "Terminology for Special Processing Machine Tools," is the general outline for terminology related to special processing machine tools, based on the sub-specialties within the field. It is proposed to consist of 13 parts.

1. Basic Terminology. The purpose is to define the processing methods, names, parameters, and basic components of special-purpose machine tools. This terminology.

1 Scope

GB/T 14896.10-2025 is the Chinese national standard on non-traditional machines - terminology - part 10: electroforming 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 2 December 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 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 processes of electroforming machine tools, as well as the terminology for major components. This document applies to all types of electroforming 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 Electroforming; EF A processing method that uses the principle of cathodic electrochemical deposition to manufacture structures or parts. [Source: GB/T 14896.1-2025, 3.4]

Note. "Electrochemical deposition" is hereinafter referred to as "electrodeposition".

3.2 Electroforming is an electroforming method in which both the anode and cathode remain stationary during the electrodeposition process.

3.3 Electroforming is a method that utilizes the scanning motion of the anode.

3.4 Electroforming is an electroforming method in which parallel-placed cathodes and/or anodes are in a reciprocating linear motion during the electrodeposition process.

3.5 Electroforming is an electroforming method in which the cathode is in a rotating state during the electrodeposition process.

3.6 Roll-to-roll electroforming An electroforming method for forming foils, structures, or parts by means of winding.

3.7 jet electroforming A method of electroforming using an electrolyte jet ejected from the anode.