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

GB/T 14896.9-2018

**Non-traditional machines - Terminology - Part 9: Laser
processing machines**

特种加工机床 术语 第9部分：激光加工机床

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1 Scope

GB/T 14896.9-2018 is the Chinese national standard on non-traditional machines - terminology - part 9: laser processing machines, in the field of generalities, terminology and documentation. 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 13 July 2018 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 February 2019. Classification: ICS 01.040.25, 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 part of GB/T 14896 defines the names, parameters, main components, terms and definitions of laser processing machines and their definitions. This section applies to all types of laser processing machines and their auxiliary equipment and accessories.

2 Machine name

2.1 Laser processing machine laserprocessingmachines A machine tool that uses a laser as an energy source for material processing.

2.2 Laser cutting machine lasercuttingmachines A laser processing machine that uses a laser as an energy source for material cutting.

2.2.1 Fiber laser cutting machine fiberlasercuttingmachines A laser cutting machine that uses a fiber laser as an energy source.

2.2.2 Disc laser cutting machine disclaser cuttingmachines A laser cutting machine that uses a disc laser as an energy source.

2.2.3 Ultrafast laser cutting machine ultrafastlasercuttingmachines A laser cutting machine

that uses ultrafast lasers as an energy source.

Note. Ultrafast laser refers to a laser with a pulse width of less than 10 ps, which has a very short pulse width and an ultra-high light intensity.

2.2.4 CO₂ laser cutting machine CO₂lasercuttingmachines A laser cutting machine that uses a CO₂ laser as an energy source.

2.2.5 Nd:YAG solid-state laser cutting machine Nd:YAGsolidstatelasercuttingmachines A laser cutting machine using an Nd:YAG solid-state laser as an energy source.

2.2.6 Non-metal laser cutting machine lasernonmetalcuttingmachines A laser cutting machine that cuts non-metallic materials.

2.2.7 Tube laser cutting machine lasertubecuttingmachines Laser cutting machine for cutting pipes.

2.3 Laser welding machine laserweldingmachines A laser processing machine that uses a laser as an energy source for material welding.

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GB/T 14896 "Special Processing Machine Tool Terms" is divided into 14 parts.

- Part 1. Basic terms;
- Part 2. EDM machine tools;
- Part 3. Electrolytic machining machine tools;
- Part 4. Ultrasonic machining machines;
- Part 5. Composite processing machine tools;
- Part 6. Other special processing machines;
- Part 7. Additive manufacturing machine tools;
- Part 8. Electrofusion blasting machine tools;
- Part 9. Laser processing machine tools;
- Part 10. Electron beam processing machine tools;
- Part 11. Ion beam processing machine tools;
- Part 12. Plasma arc machining machine;
- Part 13. Jet processing machine tools;