

ICS 31.260
CCS L51

JB

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

JB/T 15433-2026

High power RF-excited slab waveguide carbon dioxide laser

大功率射频板条波导二氧化碳激光器

(English Translation)

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Foreword

JB/T 15433-2026 is a recommended industry standard of the People's Republic of China in the Machinery sector, approved and issued by the Ministry of Industry and Information Technology on 28 April 2026, with effect from 2 November 2026.

It is administered by the National Technical Committee for Optical Radiation Safety and Laser Equipment Standardization.

Classification: ICS 31.260; CCS L51.

1 Scope

JB/T 15433-2026 covers high power RF-excited slab waveguide carbon dioxide lasers. These are CO₂ laser sources in which the gas discharge is excited by radio frequency power and the beam is guided between slab electrodes. The document sets out the technical requirements for this type of laser, so that products from different makers can be described and compared on the same basis.

The standard is meant for laser manufacturers, designers of laser cutting, welding and marking systems, test laboratories and buyers who specify or accept such equipment. It is a voluntary industry standard (JB/T), issued by the Ministry of Industry and Information Technology on 28 April 2026 and taking effect on 2 November 2026. It is a new standard.