

Global Thermal Deburring Machines Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC7B980D410DEN.html>

Date: July 2026

Pages: 112

Price: US\$ 4,480.00 (Single User License)

ID: GC7B980D410DEN

Abstracts

The global Thermal Deburring Machines market size is expected to reach \$ 423 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Thermal Deburring Machines are industrial finishing equipment used to remove burrs from metal or plastic parts through the thermal energy method. Parts are placed inside a sealed combustion chamber, where a controlled mixture of oxygen and combustible gas is ignited to create a short, high-temperature thermal pulse. The burrs, due to their small mass and large surface area, are rapidly oxidized or burned away, while the main workpiece remains dimensionally stable. These machines are mainly used for internal burr removal in intersecting holes, blind holes, threads, valve bodies, hydraulic components, pneumatic parts, automotive components, precision machined parts, and complex cavities. The industrial chain of Thermal Deburring Machines includes upstream components such as combustion chambers, gas control units, oxygen systems, ignition systems, sealing devices, hydraulic systems, cooling systems, PLC controllers, safety interlocks, sensors, fixtures, filters, and industrial software. The midstream covers machine design, pressure vessel manufacturing, gas mixing control, safety system integration, chamber testing, process parameter development, equipment assembly, and commissioning. Downstream users mainly include automotive component manufacturers, hydraulic and pneumatic part producers, precision machining companies, aerospace suppliers, valve manufacturers, medical device companies, and general industrial manufacturers. Supporting services include process validation, fixture design, maintenance, safety inspection, calibration, operator training, spare parts supply, and consumable gas support. In 2025, global Thermal Deburring Machine production reached approximately 1,140 units, with an average global market price of around US\$250,000 per unit. The gross profit margin of major companies in the industry

is between 30%-50%. In 2025, the global production capacity of Thermal Deburring Machine was approximately 1,520 units.

The Thermal Deburring Machine market is growing steadily as manufacturers demand reliable burr removal for precision parts with internal holes, intersecting channels, and complex cavities. Thermal deburring is particularly valuable for hydraulic components, pneumatic parts, valve bodies, automotive components, aerospace parts, and precision machined metal parts where manual or mechanical deburring is difficult. The process can remove internal and external burrs simultaneously, improve consistency, reduce labor dependence, and support high-volume production. Market demand is supported by tighter quality requirements in automotive, aerospace, fluid power, medical devices, and precision manufacturing industries. Compared with mechanical deburring, thermal deburring offers better access to hidden burrs, but it requires strict gas control, safety systems, chamber maintenance, and process validation. Suppliers with strong combustion control, safety design, fixture engineering, and application support capabilities are more competitive.

This report studies the global Thermal Deburring Machines production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermal Deburring Machines and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thermal Deburring Machines that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermal Deburring Machines total production and demand, 2021-2032, (Units)

Global Thermal Deburring Machines total production value, 2021-2032, (USD Million)

Global Thermal Deburring Machines production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Thermal Deburring Machines consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Thermal Deburring Machines domestic production, consumption, key domestic manufacturers and share

Global Thermal Deburring Machines production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Thermal Deburring Machines production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Thermal Deburring Machines production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Thermal Deburring Machines market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Extrude Hone LLC, ATL Anlagentechnik Luhden GmbH, SGM New-TEM S.r.l., Xi'an Dongbo Electromechanical Equipment Co., Ltd., HAPRO Thermodynamic Engineering, Rapidflame Ltd, FTS Technologies LLC, Shanghai DYDTEC Combustion Equipment, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thermal Deburring Machines market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Thermal Deburring Machines Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Deburring Machines Market, Segmentation by Type:

Semi-automatic Thermal Deburring Machine

Fully Automatic Thermal Deburring Machine

Global Thermal Deburring Machines Market, Segmentation by Chamber Structure:

Single-chamber Thermal Deburring Machine

Double-chamber Thermal Deburring Machine

Multi-chamber Thermal Deburring Machine

Global Thermal Deburring Machines Market, Segmentation by Chamber Volume:

Below 20 L

20 L to 80 L

80 L to 200 L

Above 200 L

Global Thermal Deburring Machines Market, Segmentation by Application:

Automotive Powertrain and E-Drive Components

Hydraulic and Pneumatic Components

Aerospace and Energy Components

General Precision Metal Components

Companies Profiled:

Extrude Hone LLC

ATL Anlagentechnik Luhden GmbH

SGM New-TEM S.r.l.

Xi'an Dongbo Electromechanical Equipment Co., Ltd.

HAPRO Thermodynamic Engineering

Rapidflame Ltd

FTS Technologies LLC

Shanghai DYDTEC Combustion Equipment

Key Questions Answered:

1. How big is the global Thermal Deburring Machines market?
2. What is the demand of the global Thermal Deburring Machines market?
3. What is the year over year growth of the global Thermal Deburring Machines market?
4. What is the production and production value of the global Thermal Deburring Machines market?
5. Who are the key producers in the global Thermal Deburring Machines market?
6. What are the growth factors driving the market demand?

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