

# Global Heavy-Duty Engine Radiators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Heavy-Duty Engine Radiators market size was valued at US\$ 3293 million in 2025 and is forecast to a readjusted size of US\$ 4520 million by 2032 with a CAGR of 4.9% during review period.

Heavy-Duty Engine Radiators are core heat-exchange components in engine cooling systems for heavy trucks, construction equipment, mining vehicles, agricultural machinery, special-purpose vehicles, and port bridge machinery. They dissipate the heat carried by engine coolant to ambient air under high thermal loads, stabilizing engine temperature limits and preventing derating, overheating events, and long-term durability degradation. Typical designs include a heat-exchanger core, tanks and inlet-outlet interfaces, sealing and joining structures, and mounting hardware, with engineering priorities centered on robustness against low-speed high-load duty, continuous operation, vibration and shock, dust and debris exposure, thermal cycling, and corrosive environments, while maintaining serviceability and lifecycle cost efficiency.

From a system perspective, the value of a heavy-duty engine radiator extends beyond heat rejection capacity to airflow management, fan drive coordination, coolant flow control, and pressure-drop optimization, as well as modular integration with adjacent cooling components. As power density increases and emissions control becomes more stringent, radiators must deliver higher performance within constrained packaging space without compromising clogging resistance, leak prevention, fatigue life, and consistent manufacturability. In off-highway applications, structural reinforcement, surface protection, and rapid cleaning and maintenance solutions often define product differentiation.

In 2025, global Heavy-Duty Engine Radiators shipments, including OEM fitment and replacement demand, are estimated at roughly 12–18 million units, with typical ex-factory prices in the range of USD 160–280 per unit.

Driven by global fleet renewal cycles and ongoing infrastructure development, heavy-duty engine radiators are evolving from standalone components into system-level thermal management solutions. Rising engine power density, more frequent continuous heavy-duty operation, and expanded deployment in high-ambient-temperature regions are pushing OEMs to demand higher thermal margins, rigorous durability validation, and consistent quality delivery. Meanwhile, modular supply and platform-based designs help shorten vehicle development timelines, reduce integration effort, and enhance parts commonality, creating attractive opportunities for suppliers with integrated engineering and manufacturing capabilities.

Key challenges stem from duty-cycle diversification and compounded reliability risks. Dust clogging can accelerate performance decay, vibration and shock may trigger fatigue-related leakage, and corrosive operating environments introduce uncertainty in service life—each elevating OEM requirements for traceability, validation, and quality consistency. In parallel, cost volatility in materials and manufacturing, lead-time and inventory pressures, and regional differences in durability and service preferences raise the bar for supply-chain responsiveness and platform engineering.

On the demand side, heavy trucks increasingly prioritize system-level balance between fuel efficiency and reliability, accelerating front-end module integration and standardization. Construction and mining vehicles emphasize extreme-duty durability margins, anti-clogging performance, and fast serviceability, while agricultural and port machinery place greater weight on seasonal high-load operation and corrosion exposure, driving continual improvement in protective design and maintenance efficiency. Overall, suppliers that can deliver high heat rejection, high durability, strong serviceability, and modular supply readiness are best positioned to capture incremental growth and long-term OEM relationships in the global heavy-duty equipment value chain.

This report is a detailed and comprehensive analysis for global Heavy-Duty Engine Radiators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets.

Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Heavy-Duty Engine Radiators market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Heavy-Duty Engine Radiators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Heavy-Duty Engine Radiators market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Heavy-Duty Engine Radiators market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Heavy-Duty Engine Radiators

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Heavy-Duty Engine Radiators market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Modine Manufacturing Company, MAHLE GmbH (BEHR by MAHLE), Valeo, T.RAD Co., Ltd., AKG Group, Tata AutoComp Systems Ltd. (TitanX Engine Cooling), Standard Motor Products, Inc. (Nissens), NRF, DENSO Corporation, Zhejiang Yinlun Machinery Co., Ltd., etc.

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

### **Market Segmentation**

Heavy-Duty Engine Radiators market is split by Type and by Application. For the period

2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Tube and Fin

Bar and Plate

Others

#### Market segment by Material System

Aluminum Brazed

Copper and Brass

Others

#### Market segment by Engine Power

Up To 250 kW

250 kW To 400 kW

Above 400 kW

#### Market segment by Mounting Layout

Front Mounted

Side Mounted

Rear Mounted

## Market segment by Application

Heavy Truck

Construction Equipment Vehicle

Mining Vehicle

Others

## Major players covered

Modine Manufacturing Company

MAHLE GmbH (BEHR by MAHLE)

Valeo

T.RAD Co., Ltd.

AKG Group

Tata AutoComp Systems Ltd. (TitanX Engine Cooling)

Standard Motor Products, Inc. (Nissens)

NRF

DENSO Corporation

Zhejiang Yinlun Machinery Co., Ltd.

Wuxi Hongsheng Heat Exchanger Manufacturing Co., Ltd.

Weihai Bond Cooling System Co., Ltd.

Guangdong Tongshi Group Co., Ltd.

Shandong Jiaxiang Automotive Radiator Co., Ltd.

Jiangsu Weichuang Radiator Manufacturing Co., Ltd.

Shenyang Huatie Cooling System Co., Ltd.

Liaocheng Detong Transportation Equipment Manufacturing Co., Ltd.

Yangzhou Zhuoer Radiator Co., Ltd.

Shandong Xinyixiang Auto Parts Co., Ltd.

Wuhu Kean Automotive Parts Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Heavy-Duty Engine Radiators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Heavy-Duty Engine Radiators, with price, sales quantity, revenue, and global market share of Heavy-Duty Engine Radiators from 2021 to 2026.

Chapter 3, the Heavy-Duty Engine Radiators competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Heavy-Duty Engine Radiators breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Heavy-Duty Engine Radiators market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Heavy-Duty Engine Radiators.

Chapter 14 and 15, to describe Heavy-Duty Engine Radiators sales channel, distributors, customers, research findings and conclusion.

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