

# Global FM Approved Fire Duty Diesel Engine Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global FM Approved Fire Duty Diesel Engine market size is expected to reach \$ 234 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, global FM Approved Fire Duty Diesel Engines production capacity is 25,000 units, with production reached approximately 15,000 units, with an average global market price of around US\$ 11,000 per unit. The market gross margin is mainly 30%-40%.

FM Approved Fire Duty Diesel Engines are diesel engines specifically designed and certified to drive fire protection equipment, most commonly fire pumps. "FM Approved" indicates certification by FM Global, confirming that the engine meets stringent requirements for reliability, durability, performance stability, and safety under emergency fire conditions. These engines are engineered for rapid start-up, continuous operation under full load, and dependable performance during power outages. They are widely used in industrial facilities, data centers, power plants, oil & gas sites, and large commercial buildings where fire pump systems must remain operational regardless of grid availability.

The industrial chain of FM Approved fire duty diesel engines begins upstream with engine core components and systems. Key inputs include engine blocks, crankshafts, pistons, fuel injection systems, turbochargers, cooling systems, electronic control units, and exhaust components. These parts are supplied by specialized engine component manufacturers and precision machining companies, with strict quality and traceability requirements.

The midstream segment consists of diesel engine OEMs and specialized fire-pump engine manufacturers. At this stage, engines are designed, assembled, tested, and configured specifically for fire protection applications. Compliance with FM Global standards is critical, requiring extensive performance testing, endurance testing, and documentation. Engines are often paired with dedicated controllers, cooling packages, and accessories to form certified fire pump driver systems.

The downstream segment includes fire pump manufacturers, fire protection system integrators, EPC contractors, and end users. Demand is driven by regulatory fire safety codes, insurance requirements, and risk-management standards. Distribution is largely project-based, with long qualification cycles, strong brand preference, and high switching costs once a system is specified.

The market for FM Approved fire duty diesel engines is expected to grow steadily, supported by tightening fire safety regulations and increasing investment in critical infrastructure. Industries such as data centers, semiconductor fabs, logistics hubs, oil & gas facilities, and large manufacturing plants continue to expand, all of which require highly reliable fire protection systems.

Growth is particularly strong in regions with rapid industrialization and urbanization, including Asia-Pacific and the Middle East, where new industrial parks and commercial complexes are being built at scale. In North America and Europe, demand is more replacement-driven but remains resilient due to strict insurance and fire code compliance requirements.

A key trend is the increasing emphasis on system reliability and certification. End users and insurers prefer fully certified fire pump packages, favoring established engine suppliers with proven FM Approved platforms. This creates high entry barriers and limits competition. At the same time, engine manufacturers are investing in improved fuel efficiency, lower emissions during testing and standby operation, and enhanced monitoring capabilities.

Challenges include rising component costs, supply-chain complexity, and evolving emissions regulations, which can increase development and certification costs. However, because fire duty engines are mission-critical and represent a small portion of total project cost, price sensitivity remains relatively low.

Overall, the market outlook is stable and defensive, characterized by long product lifecycles, strong regulatory support, and sustained demand from safety-critical

applications.

This report studies the global FM Approved Fire Duty Diesel Engine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for FM Approved Fire Duty Diesel Engine 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 FM Approved Fire Duty Diesel Engine that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global FM Approved Fire Duty Diesel Engine total production and demand, 2021-2032, (Units)

Global FM Approved Fire Duty Diesel Engine total production value, 2021-2032, (USD Million)

Global FM Approved Fire Duty Diesel Engine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global FM Approved Fire Duty Diesel Engine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: FM Approved Fire Duty Diesel Engine domestic production, consumption, key domestic manufacturers and share

Global FM Approved Fire Duty Diesel Engine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global FM Approved Fire Duty Diesel Engine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global FM Approved Fire Duty Diesel Engine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global FM Approved Fire Duty Diesel Engine 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 Clarke, Caterpillar, Cummins, Power Industries, Shanghai Dongfeng, Guangxi Yuchai, NAFFCO, Kohler, Shibaura, Kirloskar, 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 FM Approved Fire Duty Diesel Engine market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 FM Approved Fire Duty Diesel Engine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global FM Approved Fire Duty Diesel Engine Market, Segmentation by Type:

Less than 150KW

150-300KW

More than 300KW

## Global FM Approved Fire Duty Diesel Engine Market, Segmentation by Cooling Type:

Radiator Cooled

Heat Exchanger Cooled

## Global FM Approved Fire Duty Diesel Engine Market, Segmentation by Application:

Industry Application

Commercial Building

Field Emergency

Others

## Companies Profiled:

Clarke

Caterpillar

Cummins

Power Industries

Shanghai Dongfeng

Guangxi Yuchai

NAFFCO

Kohler

Shibaura

Kirloskar

WUXI POWER ENGINEERING CO.,LTD

Weichai

**Key Questions Answered:**

1. How big is the global FM Approved Fire Duty Diesel Engine market?
2. What is the demand of the global FM Approved Fire Duty Diesel Engine market?
3. What is the year over year growth of the global FM Approved Fire Duty Diesel Engine market?
4. What is the production and production value of the global FM Approved Fire Duty Diesel Engine market?
5. Who are the key producers in the global FM Approved Fire Duty Diesel Engine market?
6. What are the growth factors driving the market demand?

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