

# Global Automatic Swarf De-Oiling Machine Market Growth 2026-2032

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## Abstracts

The global Automatic Swarf De-Oiling Machine market size is predicted to grow from US\$ 315 million in 2025 to US\$ 485 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

Global shipments of Automatic Swarf De-Oiling Machines are projected to reach approximately 11,500 units annually by 2025. The average transaction price for mainstream industrial centrifugal and pressing equipment is estimated at US\$28,000 per unit. This primarily corresponds to automated continuous centrifugal de-oiling systems with processing capacities ranging from 300 kg/h to 3,000 kg/h, excluding large-scale centralized metal scrap processing lines. A single unit accounts for approximately 20%-35% of the investment in metal scrap processing and wastewater recovery systems. Major demand sources include automotive engine and transmission machining lines, aerospace structural component workshops, bearing and precision component manufacturers, aluminum alloy die-casting post-processing workshops, and large machine tool manufacturing bases. Europe and North America together account for approximately 55% of the market, with Germany and Japan exhibiting high technological concentration in high-precision centrifugal structures and automatic control systems. The Asia-Pacific region (China, South Korea, and India) is experiencing significant growth due to the expansion of machining capacity and increasingly stringent environmental regulations. Automatic Swarf De-Oiling Machines are industrial environmental protection and resource recycling equipment used to separate metal chips from cutting fluid generated during machining processes. Their core function is to use centrifugal force or mechanical pressing to recover coolant and lubricating oil adhering to the surface of steel, aluminum, or cast iron chips into a circulating system, while simultaneously reducing the oil content of the chips for subsequent briquetting, smelting, or external sale. Compared to traditional natural

draining or manual filtration methods, automatic chip de-oiling machines offer advantages such as continuous operation, controllable oil content within 1%?3%, and direct return of the recovered liquid to a centralized cooling system. Their engineering positioning is not simply 'waste treatment equipment,' but a key node in metal processing plants to achieve 'coolant recycling + solid waste reduction + environmental compliance.' With the digitalization of workshops and strengthened environmental supervision, this product is evolving from 'auxiliary environmental protection equipment' to a 'core unit for processing system cost optimization and carbon emission management.'

### Supply Situation

Upstream components mainly include high-strength stainless steel drum and wear-resistant lining materials, high-speed bearings and spindle assemblies, variable frequency motors and drive systems, PLC control units and sensor modules, and industrial seals and vibration damping components. The centrifugal drum assembly and drive system typically account for 35%?45% of the total BOM cost. Typical upstream suppliers include SKF, Siemens, Schneider Electric, Nidec, and thyssenkrupp Materials.

### Manufacturer Features

Goessling: Enhanced high-speed centrifugal drum design to improve the oil removal efficiency and stability of fine steel chips. CEPA: Optimized automatic discharge and vibration control structure to reduce bearing wear under high load conditions. Alfa Laval: Extended separation technology to multi-stage separation of metal chip oil-water mixtures to achieve higher recovery purity. WMV: Upgraded modular automatic control system to achieve centralized chip processing system linkage control. Mayfran: Enhanced overall line integration capabilities, integrating oil removal, briquetting, and conveying systems into a closed-loop processing platform.

### Breakthrough Point

For manufacturers of automatic swarf de-oiling machines, the real breakthrough lies not in simply increasing drum speed or expanding processing capacity, but in integrating centrifugal structure design, variable frequency drive systems, and workshop MES data systems into a dynamic load management system. Taking Alfa Laval as an example, it introduces an intelligent control module based on real-time vibration monitoring and load current analysis into its separation equipment, automatically adjusting the speed and separation cycle when chip size and oil content fluctuate. Compared to traditional

fixed-speed operation, the dynamic control structure reduces bearing wear and improves the purity of the recovered fluid, upgrading the equipment from a 'single mechanical separation unit' to a 'predictable maintenance and energy-optimized node,' which has become a key to future competitiveness.

## Applications

Automatic swarf de-oiling machines are mainly used in automotive powertrain processing plants, aerospace structural and engine component manufacturing workshops, bearing and gear processing companies, aluminum alloy die-casting finishing bases, and machining centers within large machine tool manufacturing groups. Typical downstream customers include: Toyota, Volkswagen, Bosch, SKF, and GE Aerospace.

## Technological Trends

In terms of technological trends, this product is transforming from a 'mechanical separation device' to an 'intelligent and environmentally friendly processing node.' Taking the Alfa Laval as an example, it records vibration frequency, oil water content, and separation efficiency data through a digital monitoring module, and optimizes the speed curve using algorithms. Future trends include upgrading to high-wear-resistant drum materials, optimizing low-energy-consumption variable frequency control systems, and using AI-based operational status recognition models. By collecting speed, current waveform, and vibration data, a predictive maintenance database is established to proactively identify bearing failures and load anomalies, thereby reducing downtime losses and maintenance costs.

## Example

In an environmental upgrade project at a large automotive transmission manufacturing base in Germany, Goessling provided multiple sets of continuous automatic swarf de-oiling machines to replace the original manual oil draining and semi-automatic filter press devices. The project required the equipment to achieve an oil content of less than 2%, with the recovered liquid directly returned to the centralized coolant system, and to operate in conjunction with the workshop's automated conveyor line. This project demonstrates the 'core node for resource recovery and environmental compliance' attribute of the automatic chip degreasing machine in modern machining systems.

## Market Influencing Factors

The core influencing factors of the automatic swarf de-oiling machine market do not depend on the replacement cycle of a single piece of equipment, but are closely related to the global machining capacity layout, the strengthening of environmental emission regulations, and the fluctuation of metal raw material prices. On the one hand, stricter environmental regulations and rising hazardous waste treatment costs in Europe and the United States make companies more inclined to reduce external disposal costs through degreasing equipment; on the other hand, fluctuations in steel and aluminum prices prompt processing plants to improve the purity of metal chip recycling to obtain higher reuse value. It is worth noting that this market shows a pattern in which European companies have a high concentration in high-end centrifugal separation technology and integrated production lines, while Chinese companies have economies of scale in mid-range equipment manufacturing and cost control. Future competition will revolve around separation efficiency, automated production line integration capabilities, and intelligent operation and maintenance systems, rather than simply competing on equipment prices. Overall, the industry has the characteristics of steady growth and environmental policy-driven attributes, and its competitive essence is shifting from 'mechanical manufacturing capabilities' to system-level capabilities of 'resource recycling efficiency and digital system integration capabilities.'

LP Information, Inc. (LPI) ' newest research report, the 'Automatic Swarf De-Oiling Machine Industry Forecast' looks at past sales and reviews total world Automatic Swarf De-Oiling Machine sales in 2025, providing a comprehensive analysis by region and market sector of projected Automatic Swarf De-Oiling Machine sales for 2026 through 2032. With Automatic Swarf De-Oiling Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automatic Swarf De-Oiling Machine industry.

This Insight Report provides a comprehensive analysis of the global Automatic Swarf De-Oiling Machine landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automatic Swarf De-Oiling Machine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automatic Swarf De-Oiling Machine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automatic Swarf De-Oiling Machine and breaks down the

forecast by Maximum Throughput, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automatic Swarf De-Oiling Machine.

This report presents a comprehensive overview, market shares, and growth opportunities of Automatic Swarf De-Oiling Machine market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Maximum Throughput:

?1000 kg/h

?1000 kg/h

#### Segmentation by Residual Oil Content:

?1%

1%?3%

3%?5%

#### Segmentation by Operating Mode:

Batch Type

Continuous Type

#### Segmentation by Application:

Automotive

Aerospace

Metalworking

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Goessling

CEPA

Alfa Laval

WMV

LM Industry

Mayfran

Rousselet Robatel

ECOCUT-TECH

FAMA Srl

Lanner Anlagenbau

Steimel

Walther Trowal

ARP GmbH

Kromas

HEINKEL

Fase Mechanical Engineering

MKR

Hong Tay Yue Enterprise

Dolphin Centrifuge

Ameloid

Enerpat

Chin Minn Industries

SENZ

Gerun

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Automatic Swarf De-Oiling Machine market?

What factors are driving Automatic Swarf De-Oiling Machine market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automatic Swarf De-Oiling Machine market opportunities vary by end market size?

How does Automatic Swarf De-Oiling Machine break out by Maximum Throughput, by Application?

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