

Global Automatic Swarf De-Oiling Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automatic Swarf De-Oiling Machine market size is expected to reach \$ 499 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

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.'

This report studies the global Automatic Swarf De-Oiling Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automatic Swarf De-Oiling Machine 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 Automatic Swarf De-Oiling Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automatic Swarf De-Oiling Machine total production and demand, 2021-2032, (Units)

Global Automatic Swarf De-Oiling Machine total production value, 2021-2032, (USD Million)

Global Automatic Swarf De-Oiling Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Automatic Swarf De-Oiling Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Automatic Swarf De-Oiling Machine domestic production, consumption, key domestic manufacturers and share

Global Automatic Swarf De-Oiling Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Automatic Swarf De-Oiling Machine production by Maximum Throughput, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Automatic Swarf De-Oiling Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Automatic Swarf De-Oiling Machine 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 Goessling, CEPA, Alfa Laval, WMV, LM Industry, Mayfran, Rousselet Robatel, ECOCUT-TECH, FAMA Srl, Lanner Anlagenbau, 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 Automatic Swarf De-Oiling Machine 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 Maximum Throughput, 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 Automatic Swarf De-Oiling Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automatic Swarf De-Oiling Machine Market, Segmentation by Maximum Throughput:

?1000 kg/h

?1000 kg/h

Global Automatic Swarf De-Oiling Machine Market, Segmentation by Residual Oil Content:

?1%

1%?3%

3%?5%

Global Automatic Swarf De-Oiling Machine Market, Segmentation by Operating Mode:

Batch Type

Continuous Type

Global Automatic Swarf De-Oiling Machine Market, Segmentation by Application:

Automotive

Aerospace

Metalworking

Others

Companies Profiled:

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 Answered:

1. How big is the global Automatic Swarf De-Oiling Machine market?
2. What is the demand of the global Automatic Swarf De-Oiling Machine market?
3. What is the year over year growth of the global Automatic Swarf De-Oiling Machine market?
4. What is the production and production value of the global Automatic Swarf De-Oiling Machine market?
5. Who are the key producers in the global Automatic Swarf De-Oiling Machine market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Automatic Swarf De-Oiling Machine Introduction
- 1.2 World Automatic Swarf De-Oiling Machine Supply & Forecast
 - 1.2.1 World Automatic Swarf De-Oiling Machine Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Automatic Swarf De-Oiling Machine Production (2021-2032)
 - 1.2.3 World Automatic Swarf De-Oiling Machine Pricing Trends (2021-2032)
- 1.3 World Automatic Swarf De-Oiling Machine Production by Region (Based on Production Site)
 - 1.3.1 World Automatic Swarf De-Oiling Machine Production Value by Region (2021-2032)
 - 1.3.2 World Automatic Swarf De-Oiling Machine Production by Region (2021-2032)
 - 1.3.3 World Automatic Swarf De-Oiling Machine Average Price by Region (2021-2032)
 - 1.3.4 North America Automatic Swarf De-Oiling Machine Production (2021-2032)
 - 1.3.5 Europe Automatic Swarf De-Oiling Machine Production (2021-2032)
 - 1.3.6 China Automatic Swarf De-Oiling Machine Production (2021-2032)
 - 1.3.7 Japan Automatic Swarf De-Oiling Machine Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Automatic Swarf De-Oiling Machine Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Automatic Swarf De-Oiling Machine Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Automatic Swarf De-Oiling Machine Demand (2021-2032)
- 2.2 World Automatic Swarf De-Oiling Machine Consumption by Region
 - 2.2.1 World Automatic Swarf De-Oiling Machine Consumption by Region (2021-2026)
 - 2.2.2 World Automatic Swarf De-Oiling Machine Consumption Forecast by Region (2027-2032)
- 2.3 United States Automatic Swarf De-Oiling Machine Consumption (2021-2032)
- 2.4 China Automatic Swarf De-Oiling Machine Consumption (2021-2032)
- 2.5 Europe Automatic Swarf De-Oiling Machine Consumption (2021-2032)
- 2.6 Japan Automatic Swarf De-Oiling Machine Consumption (2021-2032)
- 2.7 South Korea Automatic Swarf De-Oiling Machine Consumption (2021-2032)
- 2.8 ASEAN Automatic Swarf De-Oiling Machine Consumption (2021-2032)
- 2.9 India Automatic Swarf De-Oiling Machine Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Automatic Swarf De-Oiling Machine Production Value by Manufacturer (2021-2026)
- 3.2 World Automatic Swarf De-Oiling Machine Production by Manufacturer (2021-2026)
- 3.3 World Automatic Swarf De-Oiling Machine Average Price by Manufacturer (2021-2026)
- 3.4 Automatic Swarf De-Oiling Machine Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Automatic Swarf De-Oiling Machine Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Automatic Swarf De-Oiling Machine in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Automatic Swarf De-Oiling Machine in 2025
- 3.6 Automatic Swarf De-Oiling Machine Market: Overall Company Footprint Analysis
 - 3.6.1 Automatic Swarf De-Oiling Machine Market: Region Footprint
 - 3.6.2 Automatic Swarf De-Oiling Machine Market: Company Product Type Footprint
 - 3.6.3 Automatic Swarf De-Oiling Machine Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Automatic Swarf De-Oiling Machine Production Value Comparison
 - 4.1.1 United States VS China: Automatic Swarf De-Oiling Machine Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Automatic Swarf De-Oiling Machine Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Automatic Swarf De-Oiling Machine Production Comparison
 - 4.2.1 United States VS China: Automatic Swarf De-Oiling Machine Production

Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Automatic Swarf De-Oiling Machine Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Automatic Swarf De-Oiling Machine Consumption Comparison

4.3.1 United States VS China: Automatic Swarf De-Oiling Machine Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automatic Swarf De-Oiling Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automatic Swarf De-Oiling Machine Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automatic Swarf De-Oiling Machine Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automatic Swarf De-Oiling Machine Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automatic Swarf De-Oiling Machine Production (2021-2026)

4.5 China Based Automatic Swarf De-Oiling Machine Manufacturers and Market Share

4.5.1 China Based Automatic Swarf De-Oiling Machine Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automatic Swarf De-Oiling Machine Production Value (2021-2026)

4.5.3 China Based Manufacturers Automatic Swarf De-Oiling Machine Production (2021-2026)

4.6 Rest of World Based Automatic Swarf De-Oiling Machine Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automatic Swarf De-Oiling Machine Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automatic Swarf De-Oiling Machine Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automatic Swarf De-Oiling Machine Production (2021-2026)

5 MARKET ANALYSIS BY MAXIMUM THROUGHPUT

5.1 World Automatic Swarf De-Oiling Machine Market Size Overview by Maximum Throughput: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Maximum Throughput

5.2.1 ?1000 kg/h

5.2.2 ?1000 kg/h

5.3 Market Segment by Maximum Throughput

5.3.1 World Automatic Swarf De-Oiling Machine Production by Maximum Throughput (2021-2032)

5.3.2 World Automatic Swarf De-Oiling Machine Production Value by Maximum Throughput (2021-2032)

5.3.3 World Automatic Swarf De-Oiling Machine Average Price by Maximum Throughput (2021-2032)

6 MARKET ANALYSIS BY RESIDUAL OIL CONTENT

6.1 World Automatic Swarf De-Oiling Machine Market Size Overview by Residual Oil Content: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Residual Oil Content

6.2.1 ?1%

6.2.2 1%?3%

6.2.3 3%?5%

6.3 Market Segment by Residual Oil Content

6.3.1 World Automatic Swarf De-Oiling Machine Production by Residual Oil Content (2021-2032)

6.3.2 World Automatic Swarf De-Oiling Machine Production Value by Residual Oil Content (2021-2032)

6.3.3 World Automatic Swarf De-Oiling Machine Average Price by Residual Oil Content (2021-2032)

7 MARKET ANALYSIS BY OPERATING MODE

7.1 World Automatic Swarf De-Oiling Machine Market Size Overview by Operating Mode: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Operating Mode

7.2.1 Batch Type

7.2.2 Continuous Type

7.3 Market Segment by Operating Mode

7.3.1 World Automatic Swarf De-Oiling Machine Production by Operating Mode (2021-2032)

7.3.2 World Automatic Swarf De-Oiling Machine Production Value by Operating Mode (2021-2032)

7.3.3 World Automatic Swarf De-Oiling Machine Average Price by Operating Mode (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automatic Swarf De-Oiling Machine Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Aerospace

8.2.3 Metalworking

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Automatic Swarf De-Oiling Machine Production by Application
(2021-2032)

8.3.2 World Automatic Swarf De-Oiling Machine Production Value by Application
(2021-2032)

8.3.3 World Automatic Swarf De-Oiling Machine Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Goessling

9.1.1 Goessling Details

9.1.2 Goessling Major Business

9.1.3 Goessling Automatic Swarf De-Oiling Machine Product and Services

9.1.4 Goessling Automatic Swarf De-Oiling Machine Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 Goessling Recent Developments/Updates

9.1.6 Goessling Competitive Strengths & Weaknesses

9.2 CEPA

9.2.1 CEPA Details

9.2.2 CEPA Major Business

9.2.3 CEPA Automatic Swarf De-Oiling Machine Product and Services

9.2.4 CEPA Automatic Swarf De-Oiling Machine Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.2.5 CEPA Recent Developments/Updates

9.2.6 CEPA Competitive Strengths & Weaknesses

9.3 Alfa Laval

9.3.1 Alfa Laval Details

9.3.2 Alfa Laval Major Business

- 9.3.3 Alfa Laval Automatic Swarf De-Oiling Machine Product and Services
- 9.3.4 Alfa Laval Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Alfa Laval Recent Developments/Updates
- 9.3.6 Alfa Laval Competitive Strengths & Weaknesses
- 9.4 WMV
 - 9.4.1 WMV Details
 - 9.4.2 WMV Major Business
 - 9.4.3 WMV Automatic Swarf De-Oiling Machine Product and Services
 - 9.4.4 WMV Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 WMV Recent Developments/Updates
 - 9.4.6 WMV Competitive Strengths & Weaknesses
- 9.5 LM Industry
 - 9.5.1 LM Industry Details
 - 9.5.2 LM Industry Major Business
 - 9.5.3 LM Industry Automatic Swarf De-Oiling Machine Product and Services
 - 9.5.4 LM Industry Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 LM Industry Recent Developments/Updates
 - 9.5.6 LM Industry Competitive Strengths & Weaknesses
- 9.6 Mayfran
 - 9.6.1 Mayfran Details
 - 9.6.2 Mayfran Major Business
 - 9.6.3 Mayfran Automatic Swarf De-Oiling Machine Product and Services
 - 9.6.4 Mayfran Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Mayfran Recent Developments/Updates
 - 9.6.6 Mayfran Competitive Strengths & Weaknesses
- 9.7 Rousselet Robatel
 - 9.7.1 Rousselet Robatel Details
 - 9.7.2 Rousselet Robatel Major Business
 - 9.7.3 Rousselet Robatel Automatic Swarf De-Oiling Machine Product and Services
 - 9.7.4 Rousselet Robatel Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Rousselet Robatel Recent Developments/Updates
 - 9.7.6 Rousselet Robatel Competitive Strengths & Weaknesses
- 9.8 ECOCUT-TECH
 - 9.8.1 ECOCUT-TECH Details

- 9.8.2 ECOCUT-TECH Major Business
- 9.8.3 ECOCUT-TECH Automatic Swarf De-Oiling Machine Product and Services
- 9.8.4 ECOCUT-TECH Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 ECOCUT-TECH Recent Developments/Updates
- 9.8.6 ECOCUT-TECH Competitive Strengths & Weaknesses
- 9.9 FAMA Srl
 - 9.9.1 FAMA Srl Details
 - 9.9.2 FAMA Srl Major Business
 - 9.9.3 FAMA Srl Automatic Swarf De-Oiling Machine Product and Services
 - 9.9.4 FAMA Srl Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 FAMA Srl Recent Developments/Updates
 - 9.9.6 FAMA Srl Competitive Strengths & Weaknesses
- 9.10 Lanner Anlagenbau
 - 9.10.1 Lanner Anlagenbau Details
 - 9.10.2 Lanner Anlagenbau Major Business
 - 9.10.3 Lanner Anlagenbau Automatic Swarf De-Oiling Machine Product and Services
 - 9.10.4 Lanner Anlagenbau Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Lanner Anlagenbau Recent Developments/Updates
 - 9.10.6 Lanner Anlagenbau Competitive Strengths & Weaknesses
- 9.11 Steimel
 - 9.11.1 Steimel Details
 - 9.11.2 Steimel Major Business
 - 9.11.3 Steimel Automatic Swarf De-Oiling Machine Product and Services
 - 9.11.4 Steimel Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Steimel Recent Developments/Updates
 - 9.11.6 Steimel Competitive Strengths & Weaknesses
- 9.12 Walther Trowal
 - 9.12.1 Walther Trowal Details
 - 9.12.2 Walther Trowal Major Business
 - 9.12.3 Walther Trowal Automatic Swarf De-Oiling Machine Product and Services
 - 9.12.4 Walther Trowal Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Walther Trowal Recent Developments/Updates
 - 9.12.6 Walther Trowal Competitive Strengths & Weaknesses
- 9.13 ARP GmbH

- 9.13.1 ARP GmbH Details
- 9.13.2 ARP GmbH Major Business
- 9.13.3 ARP GmbH Automatic Swarf De-Oiling Machine Product and Services
- 9.13.4 ARP GmbH Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 ARP GmbH Recent Developments/Updates
- 9.13.6 ARP GmbH Competitive Strengths & Weaknesses
- 9.14 Kromas
 - 9.14.1 Kromas Details
 - 9.14.2 Kromas Major Business
 - 9.14.3 Kromas Automatic Swarf De-Oiling Machine Product and Services
 - 9.14.4 Kromas Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Kromas Recent Developments/Updates
 - 9.14.6 Kromas Competitive Strengths & Weaknesses
- 9.15 HEINKEL
 - 9.15.1 HEINKEL Details
 - 9.15.2 HEINKEL Major Business
 - 9.15.3 HEINKEL Automatic Swarf De-Oiling Machine Product and Services
 - 9.15.4 HEINKEL Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 HEINKEL Recent Developments/Updates
 - 9.15.6 HEINKEL Competitive Strengths & Weaknesses
- 9.16 Fase Mechanical Engineering
 - 9.16.1 Fase Mechanical Engineering Details
 - 9.16.2 Fase Mechanical Engineering Major Business
 - 9.16.3 Fase Mechanical Engineering Automatic Swarf De-Oiling Machine Product and Services
 - 9.16.4 Fase Mechanical Engineering Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Fase Mechanical Engineering Recent Developments/Updates
 - 9.16.6 Fase Mechanical Engineering Competitive Strengths & Weaknesses
- 9.17 MKR
 - 9.17.1 MKR Details
 - 9.17.2 MKR Major Business
 - 9.17.3 MKR Automatic Swarf De-Oiling Machine Product and Services
 - 9.17.4 MKR Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 MKR Recent Developments/Updates

- 9.17.6 MKR Competitive Strengths & Weaknesses
- 9.18 Hong Tay Yue Enterprise
 - 9.18.1 Hong Tay Yue Enterprise Details
 - 9.18.2 Hong Tay Yue Enterprise Major Business
 - 9.18.3 Hong Tay Yue Enterprise Automatic Swarf De-Oiling Machine Product and Services
 - 9.18.4 Hong Tay Yue Enterprise Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Hong Tay Yue Enterprise Recent Developments/Updates
 - 9.18.6 Hong Tay Yue Enterprise Competitive Strengths & Weaknesses
- 9.19 Dolphin Centrifuge
 - 9.19.1 Dolphin Centrifuge Details
 - 9.19.2 Dolphin Centrifuge Major Business
 - 9.19.3 Dolphin Centrifuge Automatic Swarf De-Oiling Machine Product and Services
 - 9.19.4 Dolphin Centrifuge Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Dolphin Centrifuge Recent Developments/Updates
 - 9.19.6 Dolphin Centrifuge Competitive Strengths & Weaknesses
- 9.20 Ameloid
 - 9.20.1 Ameloid Details
 - 9.20.2 Ameloid Major Business
 - 9.20.3 Ameloid Automatic Swarf De-Oiling Machine Product and Services
 - 9.20.4 Ameloid Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Ameloid Recent Developments/Updates
 - 9.20.6 Ameloid Competitive Strengths & Weaknesses
- 9.21 Enerpat
 - 9.21.1 Enerpat Details
 - 9.21.2 Enerpat Major Business
 - 9.21.3 Enerpat Automatic Swarf De-Oiling Machine Product and Services
 - 9.21.4 Enerpat Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Enerpat Recent Developments/Updates
 - 9.21.6 Enerpat Competitive Strengths & Weaknesses
- 9.22 Chin Minn Industries
 - 9.22.1 Chin Minn Industries Details
 - 9.22.2 Chin Minn Industries Major Business
 - 9.22.3 Chin Minn Industries Automatic Swarf De-Oiling Machine Product and Services
 - 9.22.4 Chin Minn Industries Automatic Swarf De-Oiling Machine Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.22.5 Chin Minn Industries Recent Developments/Updates

9.22.6 Chin Minn Industries Competitive Strengths & Weaknesses

9.23 SENZ

9.23.1 SENZ Details

9.23.2 SENZ Major Business

9.23.3 SENZ Automatic Swarf De-Oiling Machine Product and Services

9.23.4 SENZ Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 SENZ Recent Developments/Updates

9.23.6 SENZ Competitive Strengths & Weaknesses

9.24 Gerun

9.24.1 Gerun Details

9.24.2 Gerun Major Business

9.24.3 Gerun Automatic Swarf De-Oiling Machine Product and Services

9.24.4 Gerun Automatic Swarf De-Oiling Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 Gerun Recent Developments/Updates

9.24.6 Gerun Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Automatic Swarf De-Oiling Machine Industry Chain

10.2 Automatic Swarf De-Oiling Machine Upstream Analysis

10.2.1 Automatic Swarf De-Oiling Machine Core Raw Materials

10.2.2 Main Manufacturers of Automatic Swarf De-Oiling Machine Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Automatic Swarf De-Oiling Machine Production Mode

10.6 Automatic Swarf De-Oiling Machine Procurement Model

10.7 Automatic Swarf De-Oiling Machine Industry Sales Model and Sales Channels

10.7.1 Automatic Swarf De-Oiling Machine Sales Model

10.7.2 Automatic Swarf De-Oiling Machine Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Automatic Swarf De-Oiling Machine Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Automatic Swarf De-Oiling Machine Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Automatic Swarf De-Oiling Machine Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Automatic Swarf De-Oiling Machine Production Value Market Share by Region (2021-2026)
- Table 5. World Automatic Swarf De-Oiling Machine Production Value Market Share by Region (2027-2032)
- Table 6. World Automatic Swarf De-Oiling Machine Production by Region (2021-2026) & (Units)
- Table 7. World Automatic Swarf De-Oiling Machine Production by Region (2027-2032) & (Units)
- Table 8. World Automatic Swarf De-Oiling Machine Production Market Share by Region (2021-2026)
- Table 9. World Automatic Swarf De-Oiling Machine Production Market Share by Region (2027-2032)
- Table 10. World Automatic Swarf De-Oiling Machine Average Price by Region (2021-2026) & (K US\$/Unit)
- Table 11. World Automatic Swarf De-Oiling Machine Average Price by Region (2027-2032) & (K US\$/Unit)
- Table 12. Automatic Swarf De-Oiling Machine Major Market Trends
- Table 13. World Automatic Swarf De-Oiling Machine Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
- Table 14. World Automatic Swarf De-Oiling Machine Consumption by Region (2021-2026) & (Units)
- Table 15. World Automatic Swarf De-Oiling Machine Consumption Forecast by Region (2027-2032) & (Units)
- Table 16. World Automatic Swarf De-Oiling Machine Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Automatic Swarf De-Oiling Machine Producers in 2025
- Table 18. World Automatic Swarf De-Oiling Machine Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Automatic Swarf De-Oiling Machine Producers in 2025

Table 20. World Automatic Swarf De-Oiling Machine Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Automatic Swarf De-Oiling Machine Company Evaluation Quadrant

Table 22. World Automatic Swarf De-Oiling Machine Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automatic Swarf De-Oiling Machine Production Site of Key Manufacturer

Table 24. Automatic Swarf De-Oiling Machine Market: Company Product Type Footprint

Table 25. Automatic Swarf De-Oiling Machine Market: Company Product Application Footprint

Table 26. Automatic Swarf De-Oiling Machine Competitive Factors

Table 27. Automatic Swarf De-Oiling Machine New Entrant and Capacity Expansion Plans

Table 28. Automatic Swarf De-Oiling Machine Mergers & Acquisitions Activity

Table 29. United States VS China Automatic Swarf De-Oiling Machine Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automatic Swarf De-Oiling Machine Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Automatic Swarf De-Oiling Machine Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Automatic Swarf De-Oiling Machine Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automatic Swarf De-Oiling Machine Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automatic Swarf De-Oiling Machine Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automatic Swarf De-Oiling Machine Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Automatic Swarf De-Oiling Machine Production Market Share (2021-2026)

Table 37. China Based Automatic Swarf De-Oiling Machine Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automatic Swarf De-Oiling Machine Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automatic Swarf De-Oiling Machine Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automatic Swarf De-Oiling Machine Production,

(2021-2026) & (Units)

Table 41. China Based Manufacturers Automatic Swarf De-Oiling Machine Production Market Share (2021-2026)

Table 42. Rest of World Based Automatic Swarf De-Oiling Machine Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automatic Swarf De-Oiling Machine Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automatic Swarf De-Oiling Machine Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automatic Swarf De-Oiling Machine Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Automatic Swarf De-Oiling Machine Production Market Share (2021-2026)

Table 47. World Automatic Swarf De-Oiling Machine Production Value by Maximum Throughput, (USD Million), 2021 & 2025 & 2032

Table 48. World Automatic Swarf De-Oiling Machine Production by Maximum Throughput (2021-2026) & (Units)

Table 49. World Automatic Swarf De-Oiling Machine Production by Maximum Throughput (2027-2032) & (Units)

Table 50. World Automatic Swarf De-Oiling Machine Production Value by Maximum Throughput (2021-2026) & (USD Million)

Table 51. World Automatic Swarf De-Oiling Machine Production Value by Maximum Throughput (2027-2032) & (USD Million)

Table 52. World Automatic Swarf De-Oiling Machine Average Price by Maximum Throughput (2021-2026) & (K US\$/Unit)

Table 53. World Automatic Swarf De-Oiling Machine Average Price by Maximum Throughput (2027-2032) & (K US\$/Unit)

Table 54. World Automatic Swarf De-Oiling Machine Production Value by Residual Oil Content, (USD Million), 2021 & 2025 & 2032

Table 55. World Automatic Swarf De-Oiling Machine Production by Residual Oil Content (2021-2026) & (Units)

Table 56. World Automatic Swarf De-Oiling Machine Production by Residual Oil Content (2027-2032) & (Units)

Table 57. World Automatic Swarf De-Oiling Machine Production Value by Residual Oil Content (2021-2026) & (USD Million)

Table 58. World Automatic Swarf De-Oiling Machine Production Value by Residual Oil Content (2027-2032) & (USD Million)

Table 59. World Automatic Swarf De-Oiling Machine Average Price by Residual Oil Content (2021-2026) & (K US\$/Unit)

Table 60. World Automatic Swarf De-Oiling Machine Average Price by Residual Oil Content (2027-2032) & (K US\$/Unit)

Table 61. World Automatic Swarf De-Oiling Machine Production Value by Operating Mode, (USD Million), 2021 & 2025 & 2032

Table 62. World Automatic Swarf De-Oiling Machine Production by Operating Mode (2021-2026) & (Units)

Table 63. World Automatic Swarf De-Oiling Machine Production by Operating Mode (2027-2032) & (Units)

Table 64. World Automatic Swarf De-Oiling Machine Production Value by Operating Mode (2021-2026) & (USD Million)

Table 65. World Automatic Swarf De-Oiling Machine Production Value by Operating Mode (2027-2032) & (USD Million)

Table 66. World Automatic Swarf De-Oiling Machine Average Price by Operating Mode (2021-2026) & (K US\$/Unit)

Table 67. World Automatic Swarf De-Oiling Machine Average Price by Operating Mode (2027-2032) & (K US\$/Unit)

Table 68. World Automatic Swarf De-Oiling Machine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automatic Swarf De-Oiling Machine Production by Application (2021-2026) & (Units)

Table 70. World Automatic Swarf De-Oiling Machine Production by Application (2027-2032) & (Units)

Table 71. World Automatic Swarf De-Oiling Machine Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automatic Swarf De-Oiling Machine Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automatic Swarf De-Oiling Machine Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Automatic Swarf De-Oiling Machine Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Goessling Basic Information, Manufacturing Base and Competitors

Table 76. Goessling Major Business

Table 77. Goessling Automatic Swarf De-Oiling Machine Product and Services

Table 78. Goessling Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Goessling Recent Developments/Updates

Table 80. Goessling Competitive Strengths & Weaknesses

Table 81. CEPA Basic Information, Manufacturing Base and Competitors

Table 82. CEPA Major Business

Table 83. CEPA Automatic Swarf De-Oiling Machine Product and Services

Table 84. CEPA Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. CEPA Recent Developments/Updates

Table 86. CEPA Competitive Strengths & Weaknesses

Table 87. Alfa Laval Basic Information, Manufacturing Base and Competitors

Table 88. Alfa Laval Major Business

Table 89. Alfa Laval Automatic Swarf De-Oiling Machine Product and Services

Table 90. Alfa Laval Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Alfa Laval Recent Developments/Updates

Table 92. Alfa Laval Competitive Strengths & Weaknesses

Table 93. WMV Basic Information, Manufacturing Base and Competitors

Table 94. WMV Major Business

Table 95. WMV Automatic Swarf De-Oiling Machine Product and Services

Table 96. WMV Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. WMV Recent Developments/Updates

Table 98. WMV Competitive Strengths & Weaknesses

Table 99. LM Industry Basic Information, Manufacturing Base and Competitors

Table 100. LM Industry Major Business

Table 101. LM Industry Automatic Swarf De-Oiling Machine Product and Services

Table 102. LM Industry Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. LM Industry Recent Developments/Updates

Table 104. LM Industry Competitive Strengths & Weaknesses

Table 105. Mayfran Basic Information, Manufacturing Base and Competitors

Table 106. Mayfran Major Business

Table 107. Mayfran Automatic Swarf De-Oiling Machine Product and Services

Table 108. Mayfran Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Mayfran Recent Developments/Updates

Table 110. Mayfran Competitive Strengths & Weaknesses

- Table 111. Rousselet Robatel Basic Information, Manufacturing Base and Competitors
- Table 112. Rousselet Robatel Major Business
- Table 113. Rousselet Robatel Automatic Swarf De-Oiling Machine Product and Services
- Table 114. Rousselet Robatel Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Rousselet Robatel Recent Developments/Updates
- Table 116. Rousselet Robatel Competitive Strengths & Weaknesses
- Table 117. ECOCUT-TECH Basic Information, Manufacturing Base and Competitors
- Table 118. ECOCUT-TECH Major Business
- Table 119. ECOCUT-TECH Automatic Swarf De-Oiling Machine Product and Services
- Table 120. ECOCUT-TECH Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. ECOCUT-TECH Recent Developments/Updates
- Table 122. ECOCUT-TECH Competitive Strengths & Weaknesses
- Table 123. FAMA Srl Basic Information, Manufacturing Base and Competitors
- Table 124. FAMA Srl Major Business
- Table 125. FAMA Srl Automatic Swarf De-Oiling Machine Product and Services
- Table 126. FAMA Srl Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. FAMA Srl Recent Developments/Updates
- Table 128. FAMA Srl Competitive Strengths & Weaknesses
- Table 129. Lanner Anlagenbau Basic Information, Manufacturing Base and Competitors
- Table 130. Lanner Anlagenbau Major Business
- Table 131. Lanner Anlagenbau Automatic Swarf De-Oiling Machine Product and Services
- Table 132. Lanner Anlagenbau Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Lanner Anlagenbau Recent Developments/Updates
- Table 134. Lanner Anlagenbau Competitive Strengths & Weaknesses
- Table 135. Steimel Basic Information, Manufacturing Base and Competitors
- Table 136. Steimel Major Business
- Table 137. Steimel Automatic Swarf De-Oiling Machine Product and Services
- Table 138. Steimel Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 139. Steimel Recent Developments/Updates

Table 140. Steimel Competitive Strengths & Weaknesses

Table 141. Walther Trowal Basic Information, Manufacturing Base and Competitors

Table 142. Walther Trowal Major Business

Table 143. Walther Trowal Automatic Swarf De-Oiling Machine Product and Services

Table 144. Walther Trowal Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 145. Walther Trowal Recent Developments/Updates

Table 146. Walther Trowal Competitive Strengths & Weaknesses

Table 147. ARP GmbH Basic Information, Manufacturing Base and Competitors

Table 148. ARP GmbH Major Business

Table 149. ARP GmbH Automatic Swarf De-Oiling Machine Product and Services

Table 150. ARP GmbH Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 151. ARP GmbH Recent Developments/Updates

Table 152. ARP GmbH Competitive Strengths & Weaknesses

Table 153. Kromas Basic Information, Manufacturing Base and Competitors

Table 154. Kromas Major Business

Table 155. Kromas Automatic Swarf De-Oiling Machine Product and Services

Table 156. Kromas Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 157. Kromas Recent Developments/Updates

Table 158. Kromas Competitive Strengths & Weaknesses

Table 159. HEINKEL Basic Information, Manufacturing Base and Competitors

Table 160. HEINKEL Major Business

Table 161. HEINKEL Automatic Swarf De-Oiling Machine Product and Services

Table 162. HEINKEL Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 163. HEINKEL Recent Developments/Updates

Table 164. HEINKEL Competitive Strengths & Weaknesses

Table 165. Fase Mechanical Engineering Basic Information, Manufacturing Base and Competitors

Table 166. Fase Mechanical Engineering Major Business

Table 167. Fase Mechanical Engineering Automatic Swarf De-Oiling Machine Product

and Services

Table 168. Fase Mechanical Engineering Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Fase Mechanical Engineering Recent Developments/Updates

Table 170. Fase Mechanical Engineering Competitive Strengths & Weaknesses

Table 171. MKR Basic Information, Manufacturing Base and Competitors

Table 172. MKR Major Business

Table 173. MKR Automatic Swarf De-Oiling Machine Product and Services

Table 174. MKR Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. MKR Recent Developments/Updates

Table 176. MKR Competitive Strengths & Weaknesses

Table 177. Hong Tay Yue Enterprise Basic Information, Manufacturing Base and Competitors

Table 178. Hong Tay Yue Enterprise Major Business

Table 179. Hong Tay Yue Enterprise Automatic Swarf De-Oiling Machine Product and Services

Table 180. Hong Tay Yue Enterprise Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Hong Tay Yue Enterprise Recent Developments/Updates

Table 182. Hong Tay Yue Enterprise Competitive Strengths & Weaknesses

Table 183. Dolphin Centrifuge Basic Information, Manufacturing Base and Competitors

Table 184. Dolphin Centrifuge Major Business

Table 185. Dolphin Centrifuge Automatic Swarf De-Oiling Machine Product and Services

Table 186. Dolphin Centrifuge Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Dolphin Centrifuge Recent Developments/Updates

Table 188. Dolphin Centrifuge Competitive Strengths & Weaknesses

Table 189. Ameloid Basic Information, Manufacturing Base and Competitors

Table 190. Ameloid Major Business

Table 191. Ameloid Automatic Swarf De-Oiling Machine Product and Services

Table 192. Ameloid Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 193. Ameloid Recent Developments/Updates
- Table 194. Ameloid Competitive Strengths & Weaknesses
- Table 195. Enerpat Basic Information, Manufacturing Base and Competitors
- Table 196. Enerpat Major Business
- Table 197. Enerpat Automatic Swarf De-Oiling Machine Product and Services
- Table 198. Enerpat Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 199. Enerpat Recent Developments/Updates
- Table 200. Enerpat Competitive Strengths & Weaknesses
- Table 201. Chin Minn Industries Basic Information, Manufacturing Base and Competitors
- Table 202. Chin Minn Industries Major Business
- Table 203. Chin Minn Industries Automatic Swarf De-Oiling Machine Product and Services
- Table 204. Chin Minn Industries Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 205. Chin Minn Industries Recent Developments/Updates
- Table 206. Chin Minn Industries Competitive Strengths & Weaknesses
- Table 207. SENZ Basic Information, Manufacturing Base and Competitors
- Table 208. SENZ Major Business
- Table 209. SENZ Automatic Swarf De-Oiling Machine Product and Services
- Table 210. SENZ Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 211. SENZ Recent Developments/Updates
- Table 212. SENZ Competitive Strengths & Weaknesses
- Table 213. Gerun Basic Information, Manufacturing Base and Competitors
- Table 214. Gerun Major Business
- Table 215. Gerun Automatic Swarf De-Oiling Machine Product and Services
- Table 216. Gerun Automatic Swarf De-Oiling Machine Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 217. Gerun Recent Developments/Updates
- Table 218. Gerun Competitive Strengths & Weaknesses
- Table 219. Global Key Players of Automatic Swarf De-Oiling Machine Upstream (Raw Materials)
- Table 220. Global Automatic Swarf De-Oiling Machine Typical Customers

Table 221. Automatic Swarf De-Oiling Machine Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Automatic Swarf De-Oiling Machine Picture
- Figure 2. World Automatic Swarf De-Oiling Machine Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Automatic Swarf De-Oiling Machine Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Automatic Swarf De-Oiling Machine Production (2021-2032) & (Units)
- Figure 5. World Automatic Swarf De-Oiling Machine Average Price (2021-2032) & (K US\$/Unit)
- Figure 6. World Automatic Swarf De-Oiling Machine Production Value Market Share by Region (2021-2032)
- Figure 7. World Automatic Swarf De-Oiling Machine Production Market Share by Region (2021-2032)
- Figure 8. North America Automatic Swarf De-Oiling Machine Production (2021-2032) & (Units)
- Figure 9. Europe Automatic Swarf De-Oiling Machine Production (2021-2032) & (Units)
- Figure 10. China Automatic Swarf De-Oiling Machine Production (2021-2032) & (Units)
- Figure 11. Japan Automatic Swarf De-Oiling Machine Production (2021-2032) & (Units)
- Figure 12. Automatic Swarf De-Oiling Machine Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Automatic Swarf De-Oiling Machine Consumption (2021-2032) & (Units)
- Figure 15. World Automatic Swarf De-Oiling Machine Consumption Market Share by Region (2021-2032)
- Figure 16. United States Automatic Swarf De-Oiling Machine Consumption (2021-2032) & (Units)
- Figure 17. China Automatic Swarf De-Oiling Machine Consumption (2021-2032) & (Units)
- Figure 18. Europe Automatic Swarf De-Oiling Machine Consumption (2021-2032) & (Units)
- Figure 19. Japan Automatic Swarf De-Oiling Machine Consumption (2021-2032) & (Units)
- Figure 20. South Korea Automatic Swarf De-Oiling Machine Consumption (2021-2032) & (Units)
- Figure 21. ASEAN Automatic Swarf De-Oiling Machine Consumption (2021-2032) & (Units)

Figure 22. India Automatic Swarf De-Oiling Machine Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Automatic Swarf De-Oiling Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Automatic Swarf De-Oiling Machine Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Automatic Swarf De-Oiling Machine Markets in 2025

Figure 26. United States VS China: Automatic Swarf De-Oiling Machine Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Automatic Swarf De-Oiling Machine Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Automatic Swarf De-Oiling Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Automatic Swarf De-Oiling Machine Production Market Share 2025

Figure 30. China Based Manufacturers Automatic Swarf De-Oiling Machine Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Automatic Swarf De-Oiling Machine Production Market Share 2025

Figure 32. World Automatic Swarf De-Oiling Machine Production Value by Maximum Throughput, (USD Million), 2021 & 2025 & 2032

Figure 33. World Automatic Swarf De-Oiling Machine Production Value Market Share by Maximum Throughput in 2025

Figure 34. ?1000 kg/h

Figure 35. ?1000 kg/h

Figure 36. World Automatic Swarf De-Oiling Machine Production Market Share by Maximum Throughput (2021-2032)

Figure 37. World Automatic Swarf De-Oiling Machine Production Value Market Share by Maximum Throughput (2021-2032)

Figure 38. World Automatic Swarf De-Oiling Machine Average Price by Maximum Throughput (2021-2032) & (K US\$/Unit)

Figure 39. World Automatic Swarf De-Oiling Machine Production Value by Residual Oil Content, (USD Million), 2021 & 2025 & 2032

Figure 40. World Automatic Swarf De-Oiling Machine Production Value Market Share by Residual Oil Content in 2025

Figure 41. ?1%

Figure 42. 1%?3%

Figure 43. 3%?5%

Figure 44. World Automatic Swarf De-Oiling Machine Production Market Share by Residual Oil Content (2021-2032)

Figure 45. World Automatic Swarf De-Oiling Machine Production Value Market Share by Residual Oil Content (2021-2032)

Figure 46. World Automatic Swarf De-Oiling Machine Average Price by Residual Oil Content (2021-2032) & (K US\$/Unit)

Figure 47. World Automatic Swarf De-Oiling Machine Production Value by Operating Mode, (USD Million), 2021 & 2025 & 2032

Figure 48. World Automatic Swarf De-Oiling Machine Production Value Market Share by Operating Mode in 2025

Figure 49. Batch Type

Figure 50. Continuous Type

Figure 51. World Automatic Swarf De-Oiling Machine Production Market Share by Operating Mode (2021-2032)

Figure 52. World Automatic Swarf De-Oiling Machine Production Value Market Share by Operating Mode (2021-2032)

Figure 53. World Automatic Swarf De-Oiling Machine Average Price by Operating Mode (2021-2032) & (K US\$/Unit)

Figure 54. World Automatic Swarf De-Oiling Machine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Automatic Swarf De-Oiling Machine Production Value Market Share by Application in 2025

Figure 56. Automotive

Figure 57. Aerospace

Figure 58. Metalworking

Figure 59. Others

Figure 60. World Automatic Swarf De-Oiling Machine Production Market Share by Application (2021-2032)

Figure 61. World Automatic Swarf De-Oiling Machine Production Value Market Share by Application (2021-2032)

Figure 62. World Automatic Swarf De-Oiling Machine Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 63. Automatic Swarf De-Oiling Machine Industry Chain

Figure 64. Automatic Swarf De-Oiling Machine Procurement Model

Figure 65. Automatic Swarf De-Oiling Machine Sales Model

Figure 66. Automatic Swarf De-Oiling Machine Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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