+357 96 030922
info@marketpublishers.com

Global Slurry Recycling System Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GEE43EEC96DAEN.html
Date: June 2026
Pages: 105
Price: US$ 4,480.00 (Single User License)
ID: GEE43EEC96DAEN

Abstracts

The global Slurry Recycling System market size is expected to reach $ 349 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

Slurry Recycling System refers to a process-integrated recycling system used in semiconductor wafer slicing, grinding, polishing and CMP processes to recover and reuse valuable components from spent slurry, including silicon particles, abrasive grains, coolants, ultrapure water and chemical ingredients. Depending on the process, the system may use centrifugation, filtration, ultrafiltration, chemical spiking and automated re-supply to convert waste slurry or silicon-containing wastewater into reusable process media, thereby reducing slurry consumption, water consumption, waste treatment cost and environmental load.

Slurry Recycling System is a process-integrated recycling system embedded in wafer processing, CMP, polishing, grinding, lapping, back grinding, dicing and other manufacturing steps. Systems represented by IHI are more focused on the recovery of silicon particles, abrasive grains, coolants and water generated during wafer slicing, grinding and hard-and-brittle material processing. Systems represented by PUE, F?th/HighQ and MFC Technology are more oriented toward CMP or polishing slurry reclamation, including filtration, composition monitoring, chemical make-up/spiking and re-supply. Nomura Micro Science and Kanadevia, meanwhile, are more focused on silicon-containing wastewater, post-lapping slurry and the recovery of reusable abrasive grains.

From the perspective of market applications, Slurry Recycling Systems currently serve three main customer scenarios. The first is semiconductor wafer and hard-and-brittle material processing plants, covering wafer slicing, edge grinding, grinding, polishing,

+357 96 030922
info@marketpublishers.com

thinning, lapping and other processes. In these applications, customers are mainly concerned with reducing the loss of silicon kerf, abrasive grains, coolants and water, while also reducing the treatment burden of silicon-containing wastewater and abrasive-containing waste liquids. The second is CMP processes in wafer fabs, including logic, memory, power devices, CIS, MEMS, analog ICs and advanced packaging-related wafer manufacturing. CMP slurry is a high-consumption and high-cost process material, and the spent slurry also contains abrasive particles, oxidizers, complexing agents, stabilizers and residues from metal or dielectric materials. Therefore, the core motivation for fabs to adopt slurry recycling systems is to reduce fresh slurry procurement costs, lower waste liquid treatment costs, and reduce the load on ultrapure water and wastewater treatment systems in regions with water-resource constraints. The third application area includes solar wafers, sapphire, quartz, glass substrates, GaAs/compound semiconductors, FPDs and other hard-and-brittle material processing scenarios. These processes also generate large volumes of particle-containing waste liquids, and the economic value of recycling systems is mainly reflected in water reuse, abrasive reuse, solid-particle resource recovery and environmental compliance. Overall, this product is not a standardized tool required for every wafer fab production line. Instead, it is a customized, project-based system closely linked to the customer’s process flow, waste liquid composition, environmental treatment cost, slurry price, water-use constraints and facility system design.

Looking ahead, the growth drivers for Slurry Recycling Systems mainly come from the combined requirements of semiconductor manufacturing cost reduction, green manufacturing and resource circularity. As advanced nodes, mature specialty processes, power semiconductors, CIS, MEMS, advanced packaging and high-end wafer manufacturing continue to expand, the number of CMP, polishing and grinding steps will increase, driving slurry consumption and waste liquid loads upward. As a result, slurry recycling systems are expected to move beyond their previous role as an end-of-pipe environmental treatment solution and gradually become a production-side COO optimization tool.

This report studies the global Slurry Recycling System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Slurry Recycling System, 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 Slurry Recycling System that contribute to its increasing demand across many markets.

+357 96 030922
info@marketpublishers.com

Highlights and key features of the study
Global Slurry Recycling System total market, 2021-2032, (USD Million)
Global Slurry Recycling System total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Slurry Recycling System total market, key domestic companies, and share, (USD Million)
Global Slurry Recycling System revenue by player, revenue and market share 2021-2026, (USD Million)
Global Slurry Recycling System total market by Technical Route, CAGR, 2021-2032, (USD Million)
Global Slurry Recycling System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Slurry Recycling System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include IHI Rotating Machinery Engineering Co., Ltd, PUE Systems, F?th GmbH, Nomura Micro Science Co., Ltd, MFC Technology Co., Ltd, Kanadevia Corporation, 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 Slurry Recycling System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Technical Route, 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 Slurry Recycling System Market, By Region:

United States

China

+357 96 030922
info@marketpublishers.com

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Slurry Recycling System Market, Segmentation by Technical Route:

Centrifugal Slurry Recycling System

Filtration-based Slurry Recycling System

Global Slurry Recycling System Market, Segmentation by Process:

Wafer Slicing/Grinding Slurry Recycling System

CMP/Polishing Slurry Recycling System

Silicon Wastewater/Particle Recovery System

Global Slurry Recycling System Market, Segmentation by Application:

Semiconductor

PV

Companies Profiled:

+357 96 030922
info@marketpublishers.com

IHI Rotating Machinery Engineering Co., Ltd

PUE Systems

F?th GmbH

Nomura Micro Science Co., Ltd

MFC Technology Co., Ltd

Kanadevia Corporation

Key Questions Answered

1. How big is the global Slurry Recycling System market?
2. What is the demand of the global Slurry Recycling System market?
3. What is the year over year growth of the global Slurry Recycling System market?
4. What is the total value of the global Slurry Recycling System market?
5. Who are the Major Players in the global Slurry Recycling System market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Slurry Recycling System Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/GEE43EEC96DAEN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GEE43EEC96DAEN.html