+357 96 030922
info@marketpublishers.com

Global On-Site Electro Chlorination Market 2026 by Company, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G85BEDBDF7CEEN.html
Date: May 2026
Pages: 148
Price: US$ 3,480.00 (Single User License)
ID: G85BEDBDF7CEEN

Abstracts

According to our (Global Info Research) latest study, the global On-Site Electro Chlorination market size was valued at US$ 902 million in 2025 and is forecast to a readjusted size of US$ 1053 million by 2032 with a CAGR of 2.6% during review period.

On-site electrochlorination (ACC) systems are devices that prepare sodium hypochlorite (NaClO) or available chlorine in situ by electrolyzing brine or seawater at the water source or treatment site, and then directly use it for disinfection. These systems typically consist of an electrolysis unit, a brine preparation system (or seawater supply system), a rectifier power supply, a chemical storage and dosing system, and an automatic control system, enabling 'on-site preparation and dosing' operation. Compared to traditional methods of purchasing liquid chlorine or sodium hypochlorite externally, on-site ACC systems eliminate the need to transport and store hazardous chemicals, offering advantages such as high safety, low operating costs, and a high degree of automation. They are widely used in municipal water supply, wastewater treatment, industrial circulating water, and seawater cooling.

On-site electrochlorination systems produce sodium hypochlorite solution on-site by electrolyzing saline water (seawater or brine) for water disinfection and sterilization. They are widely used in municipal water supply, wastewater treatment, seawater desalination, industrial circulating water, and ship ballast water treatment. Compared to traditional methods of purchasing liquid chlorine or sodium hypochlorite externally, on-site electrochlorination technology offers advantages such as high safety, low transportation risk, controllable operating costs, and a high degree of automation, making it one of the key technologies in the current water treatment and disinfection field.

+357 96 030922
info@marketpublishers.com

In recent years, global water security issues have become increasingly prominent, and drinking water standards have been continuously raised, driving sustained growth in the demand for water treatment and disinfection. Particularly in developing countries, the accelerated construction of water supply infrastructure has significantly increased the demand for safe and reliable disinfection technologies. At the same time, developed countries, facing increasingly stringent environmental regulations and higher operational safety requirements, are gradually reducing the use of liquid chlorine and shifting towards safer on-site chlorination technologies. The penetration rate of on-site electrochlorination systems in various applications is continuously increasing, and the market size is steadily expanding.

In terms of application structure, municipal water supply and wastewater treatment remain the main application areas for on-site electrochlorination systems, accounting for a large market share. The application of seawater electrochlorination systems in seawater desalination and ship ballast water management systems (BWMS) is growing rapidly, becoming an important incremental market. In the industrial sector, the demand for circulating water disinfection in the power, petrochemical, and food processing industries continues to expand. Different application scenarios place differentiated requirements on equipment scale, operational stability, and corrosion resistance, driving product development towards modularization and customization.

In terms of the industry chain, upstream suppliers include electrode materials (such as titanium-based coated electrodes), power equipment, and control systems; midstream suppliers are electrochlorination unit manufacturers and system integrators; and downstream suppliers include water companies, industrial users, and shipbuilding companies. The industry has certain technological barriers, with electrode lifespan, energy consumption levels, and system stability being core competitive factors. The global market exhibits regional characteristics, with European and American companies possessing advantages in technology and engineering experience, while Chinese companies are continuously strengthening their competitiveness in cost control and manufacturing capabilities.

From a regional market perspective, the Asia-Pacific region holds a significant market share due to its large population and rapidly growing water treatment demand; the Middle East is experiencing stable demand growth driven by seawater desalination projects; and the European and American markets are maintaining steady development driven by the upgrading of existing facilities and environmental policies. With rising global water treatment standards and increasing focus on water safety, the on-site

+357 96 030922
info@marketpublishers.com

electrochlorination (ESP) market possesses long-term growth potential.

Looking ahead, the global on-site ESP market will be driven by three core factors: continued growth in demand for drinking water and wastewater treatment; safety and environmental regulations promoting the replacement of traditional chlorine; and the expansion of the seawater desalination and ship ballast water treatment markets. Market growth will primarily stem from expanded application scenarios and improved system efficiency.

This report is a detailed and comprehensive analysis for global On-Site Electro Chlorination market. Both quantitative and qualitative analyses are presented by company, 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 On-Site Electro Chlorination market size and forecasts, in consumption value ($ Million), 2021-2032

Global On-Site Electro Chlorination market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global On-Site Electro Chlorination market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global On-Site Electro Chlorination market shares of main players, in revenue ($ Million), 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 On-Site Electro Chlorination

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

+357 96 030922
info@marketpublishers.com

To assess competitive factors affecting the marketplace

This report profiles key players in the global On-Site Electro Chlorination 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 Qingdao Shuangrui, De Nora, Xylem, Techcross, Hczhun, Shanghai SCIYEE Water, ProMinent, S&SYS, OKAMURA, UOUZEN, etc.

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

Market segmentation

On-Site Electro Chlorination 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Brine System

Seawater System

Market segment by System Scale

Small System

Medium System

Large System

Market segment by System Structure

Integrated System

+357 96 030922
info@marketpublishers.com

Split System

Market segment by Application

Municipal

Commercial

Industrial

Marine

Market segment by players, this report covers

Qingdao Shuangrui

De Nora

Xylem

Techcross

Hczhun

Shanghai SCIYEE Water

ProMinent

S&SYS

OKAMURA

UOUZEN

Grundfos

Ourui Industrial

+357 96 030922
info@marketpublishers.com

John Cockerill

ACG

HADA Intelligence Technology

Kanadevia

Wuhan Xingda High Technology Engineering

Beijing Delianda

KALF

NEAO

HANLA IMS

SESPI

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe On-Site Electro Chlorination product scope, market overview, market estimation caveats and base year.

+357 96 030922
info@marketpublishers.com

Chapter 2, to profile the top players of On-Site Electro Chlorination, with revenue, gross margin, and global market share of On-Site Electro Chlorination from 2021 to 2026.

Chapter 3, the On-Site Electro Chlorination competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and On-Site Electro Chlorination market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of On-Site Electro Chlorination.

Chapter 13, to describe On-Site Electro Chlorination research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

2 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+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 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

+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

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global On-Site Electro Chlorination Market 2026 by Company, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G85BEDBDF7CEEN.html

Price: US$ 3,480.00 (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/G85BEDBDF7CEEN.html