

# Global Tide Gate Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Tide Gate market size is expected to reach \$ 1179 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, the global production of tidal gates reached 1,820 sets, with an average selling price of US\$472,500 per set.

Tidal gates were developed to address problems such as tidal backflow, frequent floods, water resource loss, and ecological damage in coastal, estuary, and inland river estuaries. This product is a specialized hydraulic control device installed at the entrances and exits of waterways such as rivers, bays, and ports. Its core principle is to achieve precise opening and closing of the gate through the coordinated action of the gate body, opening and closing mechanism, and control system, based on tidal patterns, water level changes, and usage requirements. Tidal gates effectively prevent seawater backflow during high tide, protecting coastal towns, farmland, and ecosystems; during low tide, the gates open to drain accumulated water and facilitate water exchange. They also serve multiple functions, including water storage, navigation, and ecological water replenishment, making them a core infrastructure for flood control, drainage, water resource management, and ecological protection in coastal areas. Early application data show that high-quality tidal gates can reduce the incidence of tidal backflow disasters in coastal areas by more than 90%, effectively reducing flood losses and improving water resource utilization by about 15%-20%. Since its large-scale application in the mid-20th century, tidal gates, with their multifunctionality and practicality, have evolved from a single flood control device into a standardized core piece of equipment in coastal water conservancy projects, port construction, and ecological governance. Currently, the product range covers various types, including fixed, lifting, and tilting gates, and is widely used in coastal town flood control, estuary

management, port protection, farmland irrigation, and ecological wetland protection.

In 2025, the global tidal gate market will see significant price variations due to differences in applicable scenarios, specifications, and performance: General-purpose tidal gates, suitable for small to medium-sized rivers and coastal areas, will have an average price of approximately US\$250,000-400,000 per unit; high-end intelligent tidal gates, suitable for large ports and key flood control areas, integrating intelligent monitoring, automatic control, and remote dispatching functions, will have an average price of US\$500,000-800,000 per unit; and special tidal gates (such as those resistant to strong corrosion and storm surges) will be suitable for extreme marine environments, with an average price exceeding US\$1.2 million per unit. In terms of production capacity, the industry exhibits a pattern of 'regional concentration and categorized competition.' Major global production capacity is concentrated in North America, Europe, and East Asia. High-end product capacity is mainly concentrated in European and American companies, while general-purpose product capacity is mainly distributed in East Asia and Southeast Asia. Each company's annual production line capacity is approximately 60-80 units, the industry average capacity utilization rate is approximately 92%, and the average product gross profit margin can reach 23.7%.

**Typical Transaction Case:** In the third quarter of 2025, a coastal city's water conservancy project management bureau purchased 8 sets of ORBINOX tidal gate products, model ORB-TG-800 series, with a contract value of approximately US\$4.2 million. The technical requirements included: 'The product is suitable for the city's core estuary area; each gate is 12 meters wide and 8 meters high; the material is special stainless steel resistant to seawater corrosion; it can withstand typhoons of level 12 and strong storm surges; the gate's opening and closing response time must be  $\leq 30$  seconds, the automatic control accuracy  $\leq 5$ cm, and it must support remote scheduling and fault early warning functions; the sealing performance must meet standards, with leakage  $\leq 0.05$ L/(m<sup>2</sup>s); the product must be certified by the International Association of Hydro-Environmental Engineers (IAHR) and meet local flood control engineering quality standards; the installation compatibility must conform to the existing estuary water conservancy facility structure; the construction period must not exceed 4 months; and the warranty period must be no less than 5 years.' After these sluice gates were put into use, they effectively blocked the backflow of autumn storm surges, raising the flood control standard of the urban estuary area from once every 50 years to once every 100 years. At the same time, they enabled scientific water exchange in the estuary, improving the surrounding ecological environment.

**Industry Pain Points:** The fundamental pain point of the tidal gate industry lies in the multiple contradictions between its nature as a hydraulic control device and the stringent requirements of coastal flood control and disaster reduction, global ecological regulations, and regional competitive landscape. Specifically: On the product side, core technologies are concentrated in the high-end intelligent and special gate fields. Key technologies such as intelligent algorithms, materials resistant to extreme environments, structural optimization, and remote monitoring are dominated by European and American companies. Domestic high-end products lack stability and intelligence, with a failure rate 10%-16% higher than ORBINOX and AVK under strong storm surges. Furthermore, small and medium-sized manufacturers suffer from homogenized designs, poor structural adaptability, and sealing leaks, compounded by installation difficulties and a lack of professional teams, leading to substandard quality. On the market and regulatory side, there is the pressure of compliance costs brought about by the upgrading of global and domestic environmental protection and flood control standards. Small and medium-sized enterprises struggle to meet the requirements of high-end scenarios. Simultaneously, the market exhibits a regional oligopoly?the global high-end market is dominated by North American and European companies, while the domestic market is dominated by companies in East and South China. Small and medium-sized manufacturers are trapped in low-price competition, and overseas brands, with their first-mover advantage, have superior brand influence and certification systems, further squeezing the profit margins and innovation motivation of domestic companies.

The upstream of the tidal gate industry chain encompasses core materials (seawater-resistant stainless steel, special alloys, carbon fiber composites, anti-corrosion coatings, and seawater-resistant sealing materials; China, Japan, and Germany are the main suppliers, with Germany and the United States dominating the high-end anti-corrosion coating field), key components/auxiliaries (hydraulic/electric opening and closing mechanisms, PLC controllers, sensors, seals, guide rails, high-strength bolts, and cold-region antifreeze heating components), and technical support (fluid dynamics simulation, intelligent control algorithms, precision machining of large structural components, and water conservancy engineering installation and commissioning technology; German and American equipment have a high market share in precision machining, with domestic alternatives gradually replacing them). Downstream applications are concentrated in coastal town flood control (38%, with development projects in developing countries driving general-purpose demand), port construction (29%, with high-end intelligent demand increasing by 21% annually, becoming the core of growth), estuary ecological governance (18%, with eco-friendly demand growing by over 25% annually), and other fields (15%, such as corrosion-resistant products in chemical industrial parks increasing by 19% annually; special scenarios such as cold

regions and wetlands have high added value and great potential). Industry Trends and Challenges: The tidal gate industry is characterized by high-end, intelligent, green, ecological, integrated, modular, and domestically produced replacement features. Intelligent monitoring, automatic control, remote scheduling, and fault early warning are becoming core configurations. The market share of high-end products will increase from 25% to 45% by 2032. Digital twin technology enables full lifecycle monitoring and precise tidal level coordination. The application of environmentally friendly, corrosion-resistant, and recyclable materials, along with optimized ecological compatibility, will give green production certification companies an advantage. Industrial clusters in the Yangtze River Delta and other regions are forming integrated systems encompassing 'gate-opening and closing mechanism-control system-installation and commissioning,' with modular design shortening construction cycles. The domestic penetration rate of high-end intelligent products will increase from 62% to 85% and expand into emerging overseas markets. Opportunities: The global water conservancy engineering market is worth \$580 billion (tidal gates account for 1.5%), and the domestic market has a huge replacement potential of 1.8 trillion yuan. Tidal energy development will drive an average annual demand of 120 sets from 2025 to 2030, with emerging markets (Southeast Asia, Africa, and South America) facing a shortage of approximately 150 sets per year. Chinese policies support an 18% annual increase in demand for old infrastructure renovation. Challenges include: high-end intelligent algorithms; a 38% import dependency on special materials leading to long-term stability gaps; upgraded environmental and flood control standards increasing compliance costs for SMEs; homogeneous low-price competition in the low-to-mid-end market squeezing profits; overseas brands' technological barriers and brand advantages squeezing the high-end market; and the difficulty of installation and construction, coupled with a lack of professional teams, affecting application effectiveness.

Demand and Opportunity Analysis: The driving factors and technological advantages of tidal gate demand are reflected in the following: the rigid demand for flood control and disaster reduction is driving a surge in demand for high-end intelligent products in coastal areas?large ports and key cities have selection standards 8-10 times stricter than conventional scenarios, which can reduce disaster losses by over 70%; mandatory environmental policies are driving the global renovation of old gates, with an average annual demand of 280 sets from 2025 to 2030; emerging scenarios such as tidal energy development and ecological wetland protection are driving an annual increase of over 25% in demand for special gates, with simultaneous release of special demand in cold and high-salt-fog regions. The advantages of technological adaptability are prominent: leading companies' products are adaptable to all scenarios (from small and medium-sized rivers to large ports, from conventional to extreme environments), and can be

customized to meet special requirements such as corrosion resistance, storm surge resistance, and antifreeze, with an adaptation coverage rate of 88%; modular design shortens the installation/modification cycle, with a payback period of about 4-6 years, and intelligent design reduces manual operation and maintenance costs and improves operating efficiency; the localization of domestic substitution is accelerating, and the breakthroughs in core design by domestic companies and the localization of the supply chain have increased the success rate of bidding in the high-end market to 28% (up 10 percentage points from 2023), with a global market share of 5.2%, and the competitiveness in emerging markets continues to strengthen.

This report studies the global Tide Gate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tide Gate 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 Tide Gate that contribute to its increasing demand across many markets.

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

Global Tide Gate total production and demand, 2021-2032, (Units)

Global Tide Gate total production value, 2021-2032, (USD Million)

Global Tide Gate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Tide Gate consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Tide Gate domestic production, consumption, key domestic manufacturers and share

Global Tide Gate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Tide Gate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Tide Gate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Tide Gate 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 McWane, Rodney Hunt, Hydro Gate, ORBINOX, AVK, AWMA Water Control Solutions, Whipps, Golden Harvest, Fontaine-Aquanox, Kanadevia, 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 Tide Gate 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 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 Tide Gate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Tide Gate Market, Segmentation by Type:

Stainless Steel Doors

Cast Iron Doors

Others

Global Tide Gate Market, Segmentation by Product Structure:

Stainless Steel Doors

Cast Iron Doors

Others

Global Tide Gate Market, Segmentation by Performance Classification:

General Type

Intelligent Type

Special Type

Global Tide Gate Market, Segmentation by Application:

Coastal town flood control

Port construction

Estudy ecological restoration

Other

Companies Profiled:

McWane

Rodney Hunt

Hydro Gate

ORBINOX

AVK

AWMA Water Control Solutions

Whipps

Golden Harvest

Fontaine-Aquanox

Kanadevia

Jash Engineering

Australian Water Engineers

Martin Childs

Ham Baker

Dynamic Water Control Gates

Nehalem Marine Manufacturing

### **Key Questions Answered:**

1. How big is the global Tide Gate market?
2. What is the demand of the global Tide Gate market?
3. What is the year over year growth of the global Tide Gate market?
4. What is the production and production value of the global Tide Gate market?
5. Who are the key producers in the global Tide Gate market?
6. What are the growth factors driving the market demand?

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