+357 96 030922
info@marketpublishers.com

Hot Runner Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Gate Type (Valve Gate Hot Runner, Open Gate Hot Runner), By Product Type (Heated Runner, Insulated Runner), By End-Use Industry (Automotive, Packaging, Consumer Goods, Medical, Electronics, Others), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/HE432D4A9E82EN.html
Date: January 2026
Pages: 185
Price: US$ 4,500.00 (Single User License)
ID: HE432D4A9E82EN

Abstracts

The Global Hot Runner Market is projected to expand from USD 4.89 Billion in 2025 to USD 6.99 Billion by 2031, reflecting a compound annual growth rate (CAGR) of 6.14%. A hot runner system consists of a heated assembly of components utilized within plastic injection molds to inject molten material into cavities, preventing solidification within the feed channels. This market is primarily driven by the necessity for operational efficiency and cost reduction in high-volume manufacturing sectors like packaging and automotive. By eliminating non-value scrap material, these systems significantly reduce resin usage and shorten cycle times compared to cold runner alternatives. Recent trade data supports this demand for efficient equipment; according to the Plastics Industry Association, injection molding machinery shipments rose by 4.2% in the third quarter of 2025 compared to the prior year, indicating sustained investment in technology compatible with hot runner applications.

Despite these operational benefits, the market faces a substantial barrier due to the high initial capital investment necessary for implementation. The precise temperature control components and complex engineering involved require significant upfront expenditure that surpasses traditional tooling costs. Additionally, the need for skilled technical personnel and specialized maintenance to manage potential issues, such as heater failure or leakage, can strain the resources of smaller manufacturers. This

+357 96 030922
info@marketpublishers.com

technical and financial hurdle frequently discourages low-volume producers from adopting the technology, thereby restricting broader market expansion.

Market Driver

The expansion of the rigid packaging industry serves as a primary driver for the Global Hot Runner Market, propelled by a shift toward the circular economy and high-volume, thin-wall production. Manufacturers are increasingly utilizing hot runner systems to process bio-based materials and recycled resins efficiently without sacrificing part quality or cycle times. This transition requires advanced thermal control technologies to manage the tighter processing windows of sustainable materials within mass production settings. The commitment to infrastructure upgrades in this sector is evident in recent financial reports; for instance, Berry Global Group, Inc. noted in its November 2024 '2024 Annual Report' that it maintained significant investment levels, with fiscal year 2024 capital expenditures totaling $551 million, highlighting continued funding for advanced packaging manufacturing capabilities.

The growth of the medical device manufacturing sector further accelerates market adoption, especially for multi-cavity, high-precision applications. As the healthcare industry requires increasingly complex components like diagnostic devices and drug delivery systems, molders are implementing hot runner solutions to ensure tight tolerance adherence and contamination-free production. This sector's demand for specialized support services and overall resilience remains robust despite economic fluctuations. According to an April 2024 press release titled 'Expansion of global presence and records in customer-specific automation' by ENGEL Group, the company's after-sales business grew by nearly 15% year-over-year, driven largely by high demand for diabetes therapy products. This sectoral growth supports the broader plastics processing landscape, which the Plastics Industry Association's '2024 Size and Impact Report' (September 2024) notes accounted for $519.1 billion in U.S. shipments in 2023.

Market Challenge

The substantial initial capital investment required for implementation represents a significant barrier to the wider expansion of the global hot runner market. This financial obstacle encompasses not only the purchase price of nozzle and manifold systems but also expensive peripheral equipment, such as specialized temperature controllers, and the need for highly skilled technicians to maintain the complex engineering. For low-volume manufacturers or small and medium-sized enterprises (SMEs), these upfront

+357 96 030922
info@marketpublishers.com

costs often exceed the long-term efficiency benefits, compelling them to depend on traditional cold runner alternatives to preserve liquidity. Consequently, this cost sensitivity limits the total addressable market, as potential adopters are discouraged by the extended return on investment periods associated with the technology.

The restrictive impact of these capital requirements is reflected in recent industry performance metrics, which stand in contrast to growth in specific sub-segments. In June 2025, the VDMA Plastics and Rubber Machinery Association forecasted a price-adjusted turnover decline of up to 5% for the year, indicating a cautious investment climate for high-value processing equipment. This contraction demonstrates how the premium pricing of advanced hot runner systems, combined with economic uncertainty, forces manufacturers to cancel or delay equipment upgrades, thereby stalling the overall momentum of the market.

Market Trends

The Integration of IIoT and Smart Monitoring Systems is transforming the market by shifting maintenance strategies from reactive to predictive models. Manufacturers are increasingly embedding advanced sensors directly into hot runner manifolds to track critical parameters such as melt pressure and temperature in real time. This connectivity facilitates the immediate detection of anomalies like gate leakage or heater degradation, allowing molders to resolve issues before they lead to reject parts or unexpected downtime. The commercial value of equipment providers emphasizing these digital capabilities is evident; according to ENGEL Group's May 2025 press release 'ENGEL expands market share amid global uncertainty,' the company maintained a turnover of approximately EUR 1.5 billion for the fiscal year, supported significantly by expanding market share in service and automation solutions despite a general decline in industrial investment.

Simultaneously, the Implementation of Conformal Cooling via 3D Printing is revolutionizing component design, especially for gate inserts and manifolds. Additive manufacturing permits the creation of complex, curved cooling channels that follow the contours of the melt channel, a geometry that is impossible to achieve with traditional straight-line drilling. This ensures uniform thermal distribution, effectively eliminating hot spots that degrade resin quality while significantly reducing the injection cycle's cooling phase. The operational impact is substantial; according to the January 2025 article 'Conformal cooling: How Additive Manufacturing benefits injection moulding' by Metal-AM, molds utilizing additive manufacturing components with conformal cooling strategies are achieving a 30-50% increase in production compared to conventional

+357 96 030922
info@marketpublishers.com

tooling configurations.

Key Market Players

Husky Technologies

Mold-Masters Europa GmbH

Barnes Group Inc.

GUNTHER Heisskanaltechnik GmbH

Otto Manner GmbH

INglass S.p.A.

YUDO Holdings Co Ltd

Seiki Corporation

Comercial de Utiles y Moldes, S.A.

HASCO Hasenclever GmbH + Co KG

Report Scope

In this report, the Global Hot Runner Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Hot Runner Market, By Gate Type

Valve Gate Hot Runner

Open Gate Hot Runner

Hot Runner Market, By Product Type

Heated Runner

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

- Asia Pacific
  - China
  - India
  - Japan
  - Australia
  - South Korea
- South America
  - Brazil
  - Argentina
  - Colombia
- Middle East & Africa
  - South Africa
  - Saudi Arabia
  - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Hot Runner Market.

Available Customizations:

Global Hot Runner Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

+357 96 030922
info@marketpublishers.com

Company Information

Detailed analysis and profiling of additional market players (up to five).

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

6. NORTH AMERICA HOT RUNNER MARKET OUTLOOK

7. EUROPE HOT RUNNER MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8. ASIA PACIFIC HOT RUNNER MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

9. MIDDLE EAST & AFRICA HOT RUNNER MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

10. SOUTH AMERICA HOT RUNNER MARKET OUTLOOK

11. MARKET DYNAMICS

+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: Hot Runner Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Gate Type (Valve Gate Hot Runner, Open Gate Hot Runner), By Product Type (Heated Runner, Insulated Runner), By End-Use Industry (Automotive, Packaging, Consumer Goods, Medical, Electronics, Others), By Region & Competition, 2021-2031F

Product link: https://marketpublishers.com/r/HE432D4A9E82EN.html

Price: US$ 4,500.00 (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/HE432D4A9E82EN.html