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Global Hydrocracking Process Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Hydrocracking Process market size was valued at US$ 1310 million in 2025 and is forecast to a readjusted size of US$ 1712 million by 2032 with a CAGR of 3.9% during review period.

Hydrocracking is a catalytic chemical process used for deep oil processing in petroleum refineries for converting the high-boiling constituent hydrocarbons in petroleum crude oils to more valuable lower-boiling products such as gasoline, kerosene, jet fuel and diesel oil. The process takes place in a hydrogen-rich atmosphere at elevated temperatures (260 ? 425 ?C) and pressures (35 ? 200 bar).

By the hydrocracking process heavy oils can undergo hydrogenation, isomerization and cracking reartions in the presence of the catalyst and hydrogen for increasing hydrogen to carbon ratios of the products. The hydrocracking process, in fact is a combination of hydrotreating and catalytic cracking processes. On one hand, heavy oils can be converted by hydrocracking into light oils such as gasoline, jet fuel and light diesel oil. Meanwhile no great amounts of coke can be formed. By this process the sulfur, nitrogen and oxygen non-hydrocarbon compounds can be removed and the olefins can be saturated by hydrogenations.

Basically, hydrocracking plants are capable of processing a wide variety of feedstocks of different characteristics to produce a broad range of products. They can be designed and operated to maximize the production of a gasoline blending component (called hydrocrackate) or to maximize the production of diesel oil.

In this report, hydrocracking process refers to the hydrocracking process solutions,

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include all the key elements of a hydrocracking unit comprising hydrocracker pretreatment, hydrocracking and grading catalysts, technology licensing including heavy poly-nuclear aromatic (HPNA) management solutions and high-performance reactor internals, etc.

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Many North American refineries are investing in hydrocracking technology to enhance production flexibility and improve yield of high-value products like diesel and jet fuel, in response to fluctuating global oil demand and fuel prices. With increasing environmental regulations in North America, particularly in the U.S. and Canada, there is a growing need for ultra-low sulfur diesel (ULSD) and cleaner fuels. Hydrocracking plays a critical role in reducing sulfur content in fuels, meeting regulatory standards like those set by the EPA. North American market for Hydrocracking Process is estimated to increase from $ 371.66 million in 2023 to reach $ 457.52 million by 2030, at a CAGR of 3.29% during the forecast period of 2024 through 2030.

The Asia-Pacific Hydrocracking Process market is experiencing significant growth due to the region's increasing energy demand, expanding refinery capacities, and a strong focus on producing cleaner fuels. Asia-Pacific market for Hydrocracking Process is estimated to increase from $ 421.84 million in 2023 to reach $ 607.55 million by 2030, at a CAGR of 5.04% during the forecast period of 2024 through 2030. With rapid industrialization and urbanization in countries such as China, India, and Southeast Asia, there is a rising demand for transportation fuels, particularly diesel and jet fuel. Hydrocracking allows refiners to produce higher yields of these in-demand fuels from heavy feedstocks.

China: As the largest energy consumer in the region, China is investing heavily in hydrocracking technology to meet domestic demand for cleaner fuels and reduce reliance on imported refined products.

India: With rising transportation fuel demand, India is focusing on expanding its refining capacity and incorporating hydrocracking to produce cleaner, low-sulfur fuels, in line with its Bharat Stage VI (BS-VI) emissions standards.

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Southeast Asia: Countries like Indonesia and Malaysia are also increasing their investments in refining infrastructure, with hydrocracking playing a critical role in upgrading fuel quality to meet regional standards.

Hydrocracking process can be divided into Single-Stage Hydrocracking Process and Two-Stage Hydrocracking Process. In 2023, Single-Stage Hydrocracking Process accounted for a share of 66.40% in the global Hydrocracking Process market. And this product segment is poised to reach US$ 992.73 million by 2030 from US$ 785.84 million in 2023.

The major global companies of Hydrocracking Process include Shell Catalysts & Technologies, ExxonMobil, Advanced Refining Technologies (ART), Honeywell UOP, Topsoe, Sinopec, Johnson Matthey, Axens, CNPC, Elessent Clean Technologies, etc. In 2023, the world's top three vendors accounted for approximately 55.11% of the revenue.

At the majority of foreign refineries with deep oil refining, hydrocracking process existence is very important. Besides increasing oil refining depth, hydrocracking is the main process, influencing process scheme flexibility of the enterprise and its commercial product quality. When other treatment processes of residues from oil refining are absent at the refinery, generally, full conversion hydrocracking with specific product purpose is applied.

In the cases, when the refinery already has oil residues conversion processes, the most attractive is application of partial conversion hydrocracking and its combination with other conversion processes. In this case, hydrocracking uses poor-quality gasoils of other processes and produces high-quality residue which serves as upgraded feed or feed component of the same units. Vacuum gasoil hydrocracking residue is an excellent feedstock for ethylene units, surpassing other feed types in efficiency.

Thus, existence of hydrocracking in the process scheme of the refinery considerably increases flexibility and, accordingly, efficiency of its operation.

This report is a detailed and comprehensive analysis for global Hydrocracking Process 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

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of the selected leaders for the year 2025, are provided.

Key Features:

Global Hydrocracking Process market size and forecasts, in consumption value ($ Million), 2021-2032

Global Hydrocracking Process market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Hydrocracking Process market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Hydrocracking Process 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 Hydrocracking Process
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Hydrocracking Process 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 Shell Catalysts & Technologies, ExxonMobil, Advanced Refining Technologies (ART), Honeywell UOP, Topsoe, Sinopec, Johnson Matthey, Axens, CNPC, Elessent Clean Technologies, etc.

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

Market segmentation

Hydrocracking Process 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.

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Market segment by Type

Single-Stage Hydrocracking Process

Two-Stage Hydrocracking Process

Market segment by Application

Gasoline

Jet Fuel

Others

Market segment by players, this report covers

Shell Catalysts & Technologies

ExxonMobil

Advanced Refining Technologies (ART)

Honeywell UOP

Topsoe

Sinopec

Johnson Matthey

Axens

CNPC

Elessent Clean Technologies

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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 Hydrocracking Process product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Hydrocracking Process, with revenue, gross margin, and global market share of Hydrocracking Process from 2021 to 2026.

Chapter 3, the Hydrocracking Process 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 Hydrocracking Process 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 Hydrocracking Process.

Chapter 13, to describe Hydrocracking Process research findings and conclusion.

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