Shell Global Solutions’ separation and distillation technology

The Shell Global Solutions advantage

- Shell mass-transfer technology package – Shell Calming Section†, Shell HiFi†, Shell ConSep† and Swirl-Tube† trays
- High-performance crude and vacuum distillation units
- High-performance distillation sections for hydro- and catalytic cracking units
- Shell super-fractionator technology
- Distillation service units

*Shell Group trademark

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Shell Global Solutions is a network of independent technology companies in the Royal Dutch/Shell Group of Companies. In this brochure, the expression 'Shell Global Solutions' is sometimes used for convenience where reference is made to these companies in general, or where no useful purpose is served by identifying a particular company.

This document is intended for general information purposes only and does not in any way constitute an offer to provide specific services. Some services may be available in certain countries or political subdivisions thereof.
We work with you to help you gain the advantage. Shell Global Solutions' separation technology is the result of an extensive operations background, thorough research and development, and an integrated approach to solving separation problems. The blend of operational experience, research capabilities, and knowledge from related disciplines helps provide Shell Global Solutions' customers with high-quality solutions. We call the Shell Global Solutions advantage – cost-effective and reliable solutions to separation problems that range from crude distillation in refineries and mist elimination in offshore platforms to super-fractionation and fine distillation in chemical plants. This blend of operational experience, research capabilities, and knowledge from related disciplines helps provide Shell Global Solutions' customers with high-quality solutions. We call this the Shell Global Solutions advantage – cost-effective and reliable solutions to separation problems that range from crude distillation in refineries and mist elimination in offshore platforms to super-fractionation and fine distillation in chemical plants.

The Shell Global Solutions advantage

■ An emphasis on high performance and reliability
■ The ability to provide integrated solutions
■ Cost-effective solutions that have a proven record of success
■ Continuing research
■ Consultants that understand technical and business issues and who have extensive operational backgrounds
■ A culture that values quality
■ Exceptional operational experience with Shell Group clients

The Shell Global Solutions advantage in separation technology

■ Grade and reusing distillation designs that provide high performance and maximum value
■ Distillation service visits for refinery and chemical plant optimisation
■ The Shell mass-transfer technology package – high-performance column internals for distillation, phase separation, and extraction
■ High-quality design packages for distillation and separation units in refinery, gas, petrochemical and chemical plants. These include new and revamped units
■ Distillation system designs for conversion units such as catalytic crackers and hydrocrackers

Shell Global Solutions makes use of the extensive operational experience and leading technologies available within the Shell Group to offer its customers integrated and proven solutions. Our leading partner in separation is supported by a strong tradition of continuous research and development. While other organisations have cut back on their separation research, Shell has continued to enhance its work in this field.

HIGH-PERFORMANCE, COST-EFFECTIVE SOLUTIONS FOR ALL YOUR SEPARATION NEEDS

COMPLETE SOLUTIONS

Shell Global Solutions takes an integrated approach to solving customers’ separation problems – ranging from the application of currently available technology to providing vehicle technical support. The availability within Shell Global Solutions of disciplines such as process heat exchangers, heat recovery, mass transfer, process control materials technology and general services, enables us to work with customers to deliver complete solutions based on practical experience.

Moreover, our ability to integrate the technology between conversion and separation processes can often prove very profitable to our customers. Elements of this are the highly effective distillation service designed in conjunction with hydrocracking and fluid catalytic cracking unit revamps.

Distillation columns for the Shell Middle Distillate Synthesis (SMDS) process, installed in Bintulu, Malaysia.
We work with you to help you gain the advantage

Shell Global Solutions’ separation technology is the result of an extensive operational background, thorough research and development, and an integrated approach to solving separation problems. The blend of operational experience, research capabilities and knowledge from related disciplines helps provide Shell Global Solutions’ customers with high-quality solutions. We call this the Shell Global Solutions advantage — cost-effective and reliable solutions to separation problems that range from crude distillation in refineries and air dehydration to distillation in superfractionation and fine distillation in chemical plants.

The Shell Global Solutions advantage in separation technology

- Crude- and vacuum-distillation designs that provide high performance and maximum value
- Distillation service visits for refinery and chemical plant optimization
- The Shell mass-transfer technology package — high-performance column internals for distillation, phase separation and extraction
- High-quality basic design packages for distillation and separation units in refinery, gas, petrochemical and chemical plants. These include new and revamped units
- Distillation system designs for conversion units such as catalytic crackers and hydrocrackers

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- Extensive operational experience with Shell Group clients

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COMPLETE SOLUTIONS

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Moreover, our ability to combine the technologies between conversion and separation processes can often prove very profitable to our customers. Examples of this are the highly effective distillation service solutions in connection with hydrocracking and fluidized catalytic cracking units.

HIGH-PERFORMANCE, COST-EFFECTIVE SOLUTIONS FOR ALL YOUR SEPARATION NEEDS

Shell columns for the Shell Middle Distillate Synthesis (SMDS) process, installed in Bintulu, Malaysia.
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