




FENIX™

Engineering Services

for Distillation, Extraction, Stripping and Absorption



- Feasibility study
- Process design
- Pilot plant studies
- Basic engineering
- Project management
- Detail engineering of key equipment
- Startup assistance
- Data analysis from operation



Study

Feasibility study
Simulation
Bottleneck analysis
Energy saving

Startup assistance

Training for operators
Supervision of E & C

Process design

Distillation simulation

Basic engineering

Process description
Process flow diagrams
Piping and instrument diagrams
Control
Specification of equipment
Plant layout
Preliminary operating instruction

Detail engineering & supply of key equipment

Columns
Column internals, liquid distributors
Heat exchangers
Vessels
Skid mounted Pilot Plants

Pilot plant studies

Pilot plants for Distillation & Extraction test:

- semi-industrial scale
- batch
- continuous
- total reflux
- atmospheric
- high vacuum
- moderate pressure

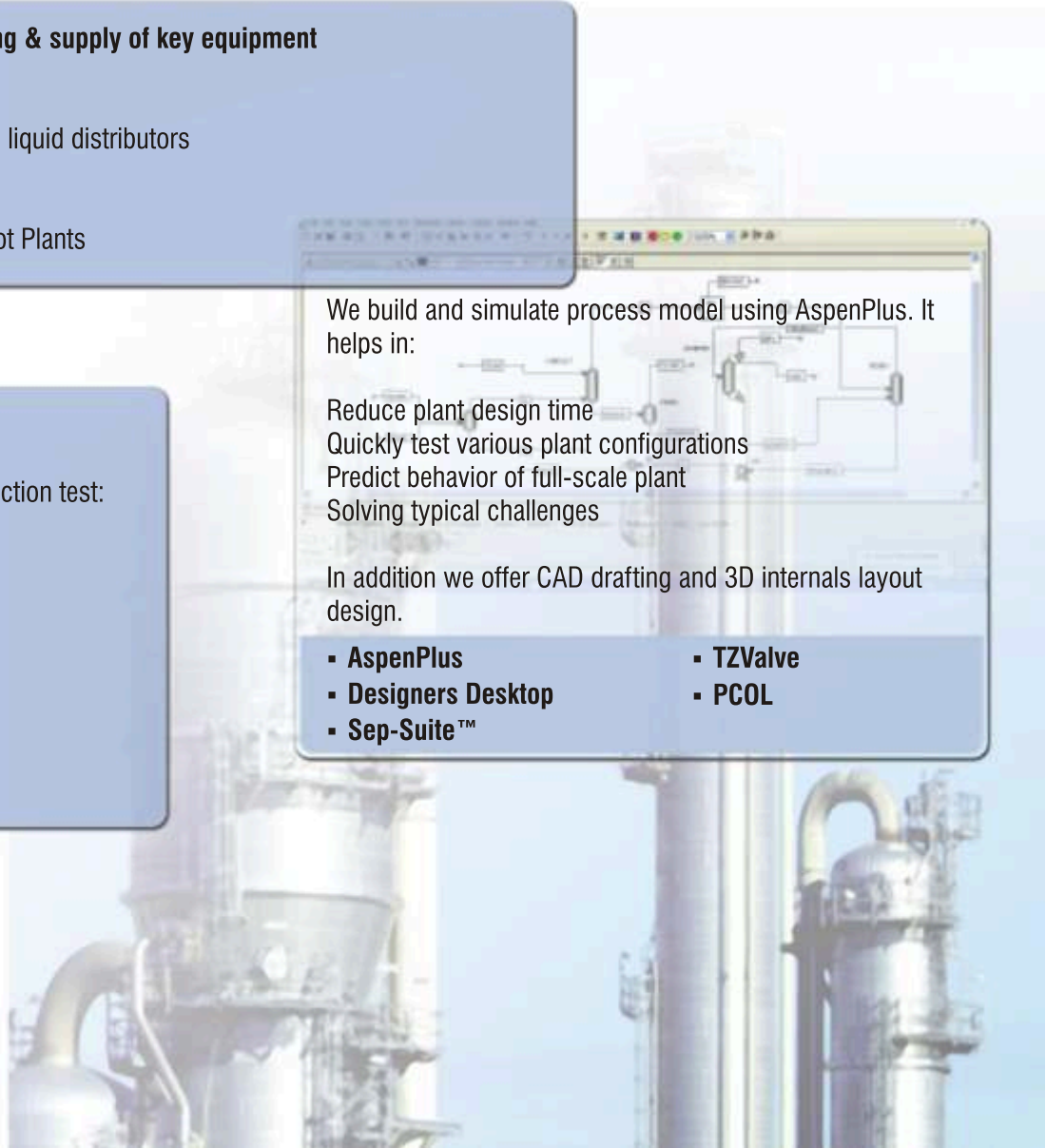
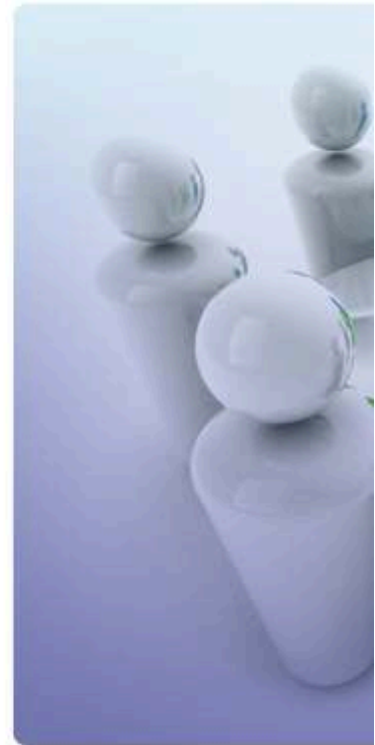
Distributor testing
Hydraulic testing

We build and simulate process model using AspenPlus. It helps in:

Reduce plant design time
Quickly test various plant configurations
Predict behavior of full-scale plant
Solving typical challenges

In addition we offer CAD drafting and 3D internals layout design.

- AspenPlus
- Designers Desktop
- Sep-Suite™
- TZValve
- PCOL



Feasibility Study

Process Simulation & Process Design

Lab & Pilot Plant Facilities

Basic Engineering Package BEP

Detail Engineering of Key Equipments

Startup & Commissioning Assistance

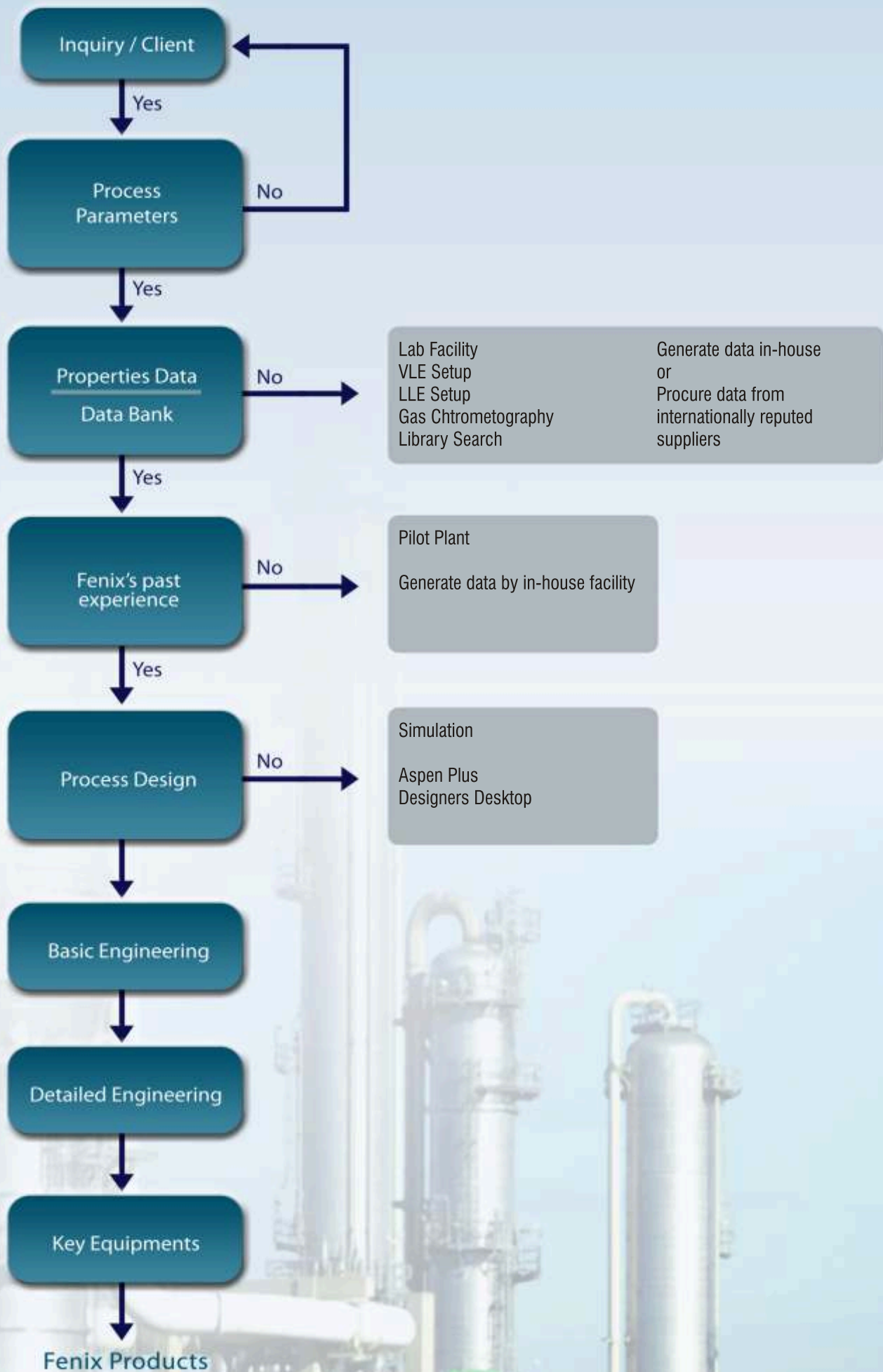
Inhouse Analytical & Data Analysis

Data Analysis for Plant Operations

Fenix offers a wide range of design and manufacturing of Oil and Gas Processing Equipments in association with KIRK Process Solutions Limited,

- Process designs & simulations
- Design software for license by customers
- CFD simulations
- Internals recommendation for optimum sizing and cost
- Vessel sizing and performance prediction
- Design verification of third party proposals

Using their proprietary Sep-Suite™ software, we simulate the client's operating cases in a variety of separator arrangements to optimise the design concept, vessel size and internal components to meet the target performance characteristics. In addition we offer CAD drafting and 3D internals layout design.



Total Solution from Fenix

Process Technology

Feasibility Study
Conceptual Design
Process Simulation
Testing (Laboratory / Pilot Plant)
Design Manual
Process Guarantee

Control Systems

Instrumentation Diagram
Control Specifications

Project Management

Project Engineering
Equipment Fabrication
Erection & Commissioning
Operators Training

After Sales Service

Troubleshooting
Spare Parts
Revamping of Non-Fenix Plants

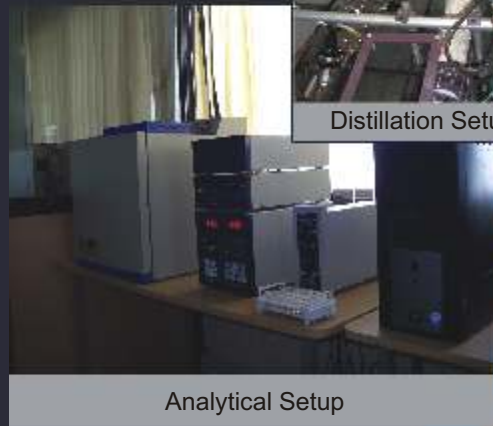
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- ◆ Process Simulation & Process Design
- ◆ Lab & Pilot Plant Facilities
- ◆ Basic Engineering Package BEP
- ◆ Detail Engineering of Key Equipments
- ◆ Startup & Commissioning Assistance
- ◆ Inhouse Analytical & Data Analysis
- ◆ Data Analysis for Plant Operations



Distillation Setup



Analytical Setup



Extraction Setup

www.fenix.in



FENIX™

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