

# 9 Hydrocracker

The Hydrocracker model in HYSYS Refining is a state-of-the-art Hydrocracker Unit simulation system that can be used for modeling a single-stage, two-stage Unicracker, or two-stage Isocracker hydrocracker unit as a standalone unit operation or as part of a refinery-wide flowsheet.

The Hydrocracker can be used for both hydrotreating and hydrocracking. It can be set up with 1-3 reactors, each containing 1-6 beds, with options to model some beds as treating only beds. It can handle internal amine scrubbers and 1-2 HPS depending on the number of stages.

The Hydrocracker includes feed characterization system, reactor section(s), recycle gas loop(s), product separation, and product mapper. The reactor model is based on rigorous kinetics. The feed characterization system and product mapper are designed to work together with the HYSYS Refining assay system so the Hydrocracker model can be simulated in a refinery-wide flowsheet.

The features of the Hydrocracker operation are grouped into two environments:

- **Main Environment:** In the Main environment, the Hydrocracker is shown to be part of the PFD. You can specify overall Hydrocracker parameters and connect the streams from the simulation case to the Hydrocracker operation.
- **HCR Environment**
- **Calibration Environment**

For information regarding the Kinetic Lumps, refer to [Hydrocracker \(HCR\) Kinetic Lumps](#).

## Configuration Options

Configuration Options				
Stages	Reactors	Beds	Treating Beds	HPS
1	1	1-6	1-5	1

# Hydrocracker Unit Operation Manual

**Puja Mehta**



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