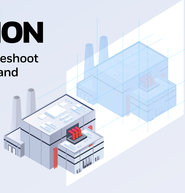
HONEYWELL FORGE

HONEYWELL UNISIM® DESIGN PROCESS SIMULATION

Design, Monitor, Troubleshoot and Optimize Existing and Evolving Processes



HONEYWELL UNISIM DESIGN

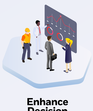
Solve challenges across the value chain and lifecycle of traditional and sustainability projects. UniSim Design creates robust, realistic process simulation models for use with online (digital twin) and offline applications for safety studies, green hydrogen modeling, operations monitoring and debottlenecking, operator training, and process design and optimization.

BENEFITS

UniSim Design empowers users to:

Design and Build Sustainability Focused Projects

Increase Productivity



Enhance Decision Making

Solve Large and Complex Problems

Reduce Engineering Costs

REAL RESULTS*

–10% CAPEX Reduction

+3% to +8% Yields Increase

–10 Engineering Time Reduction

*UniSim Customer Observed Outcomes

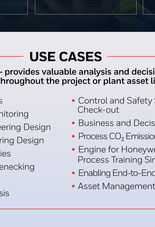
8 REASONS HONEYWELL UNISIM DESIGN IS THE TOP CHOICE

- Multi-Purpose
- Dynamic & Steady State In 1 Environment
- Fast & Accurate Equation Oriented (EO) Models
- Offline Modeling & Online Digital Twin
- Comprehensive Solution Suite
- User Friendly Intuitive Interface
- In-House Technical Support
- Competitive Price

KEY DIFFERENTIATORS OF HONEYWELL UNISIM DESIGN (VS. OTHER SOLUTIONS)

- Lowest total cost of ownership
- Multi-Purpose Dynamic Simulations (MPDS)
- Honeywell UOP know-how
- R&D relationships with major O&G, refining end users
- Open to joint development programs
- Hassle-free conversions
- Best-in-class aftermarket services
- Flexible Licensing Options

INDUSTRIES AND SEGMENTS



350+ CUSTOMERS

10K+ USERS

- Upstream Oil and Gas
- Midstream and LNG
- Refining
- Petrochemicals
- Metals, Mining and Minerals
- Green Hydrogen & CCUS

USE CASES

Multi-purpose – provides valuable analysis and decision making capabilities throughout the project or plant asset lifecycle.

- Feasibility Studies
- Performance Monitoring
- Front-end Engineering Design
- Detailed Engineering Design
- Engineering Studies
- Process De-bottlenecking
- Troubleshooting
- Operations Analysis
- Control and Safety System Check-out
- Business and Decision Support
- Process CO_2 Emission Calculation
- Engine for Honeywell Forge Process Training Simulator
- Enabling End-to-End Optimization
- Asset Management

WHAT'S NEW?

- Expanded green hydrogen (H2) plant modeling
- Fast, accurate modeling of CO_2 transportation processes
- Standardized reports and accounting for CO_2 emissions
- Full-scope modeling of sulfur recovery processes
- Addition of REFPROP thermodynamic engine
- Upgraded refining reactor calibration tool
- Standard outputs for LP vector generation
- Enhanced Equation Oriented models

ARE YOU READY TO FOCUS ON REAL SOLUTIONS, NOT SOFTWARE HEADACHES?

UNLOCK THE NEXT STEP
to achieve your operational goals

30-DAY TRIAL LICENSE

REQUEST YOUR TRIAL >

hwll.co/uns

FOR UNISIM SUPPORT:
unisim.support@honeywell.com

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