



HONEYWELL PROCESS DIGITAL TWIN

A powerful, comprehensive, and end user focused software offering, Honeywell Process Digital Twin creates, maintains, and drives value out of online process model-based applications. It turns data into key performance indicators (KPIs), and provides insights into process constraints, optimal operating points, and capabilities for in-depth monitoring, soft-sensing, and troubleshooting. It allows users to try out scenarios in a virtual environment before implementing the improvement in the actual plant. It democratizes the utilization of simulation, provides a consistent and up-to-date view of the plant capabilities across all functions and skill levels. It unlocks significant value as a standalone solution and functions as the key enabler for plant wide optimization.



The Challenge: Maintaining profitability in rapidly changing supply/demand/regulatory dynamics

In today's world, a disruption in any location may rapidly impact supply/demand in another. Market dynamics and constant regulatory changes require agile decision-making around plant production and investment planning. Those decisions involve taking stock of incoming changes, optimizing unit operations, minimizing conservative and siloed sub-optimal operations, increasing workforce productivity and democratizing specialized tools.

The Opportunity: Unlocking the Next Level of Value

Process Digital Twins play a pivotal role in delivering operational excellence by providing granular insights into optimizing unit operations, tracking key performance indicators, monitoring actual process constraints, serving as a soft sensing solution, and breaking down organizational silos between planning and operations groups. It also provides process engineers, planners, and operators of any modeling skill level a platform to run various scenarios in a virtual representation of the manufacturing/industrial process, using tuned and calibrated models. It provides an unparalleled view into the past (troubleshooting and root cause analysis), present (track KPI's) and future (prediction) for the process and associated assets- all in a virtual environment that does not risk costly downtime in the plant.

The Solution: Honeywell Process Digital Twin

Honeywell Process Digital Twin is a comprehensive software solution that manages, contextualizes and curates real-time data, utilizes robust first principles- based models, calculations and analytics, and provides actionable insight for in-depth performance monitoring, troubleshooting, soft sensing, what-if analysis and updates to planning and advanced process control (APC).

A web browser-based interface delivers insights with customizable graphics, flexible reporting, and role-based access. It can leverage existing simulations, models and graphics for faster deployment. The product is grounded in years of domain experience in Oil & Gas, Refining, Mining and Metals, Petrochemicals, Renewables, and industrial software.

For More Information

Learn more about how Honeywell Forge Operations Management can improve operations, visit [honeywellprocess.com](https://www.honeywellprocess.com) or contact your Honeywell Account Manager.

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May 2023

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