

A comprehensive digital modelling platform is essential to get the best out of a process plant or design...

- SysCAD is a robust and versatile process plant modelling platform.
- A full plant model forms an all-inclusive knowledge base for your process plant. The digital model can be used on a daily basis by management and operations, adding significant value to your organisation.
- SysCAD generates detailed mass and energy balances in both steady state and dynamic.
- SysCAD dynamic can be used for a number of applications such as detailed evaluation of plant behaviour, production planning and surge and availability analysis.
- There are a wide range of Process Chemistry options in SysCAD including the ability to use external thermodynamic calculation engines such as OLI, PHREEQC, ChemApp FactSage and AQSol
- SysCAD is useful throughout the full life cycle of a project, from feasibility studies to plant design, control system design and testing, commissioning, in-plant process optimisation, planning, expansion studies and as an operations tool.

Client Satisfaction

"I have had the pleasure of working with the Kenwalt team as an end user of their toolset for 20 years. They have a deep understanding of how these tools can best be applied for value creation within our industry. They are proactive in expanding and improving their software to best meet client needs and always provide rapid and comprehensive support."

Brett Garner (Rio Tinto)



Application and benefits

One package meeting the requirements for all of these users:

Owner Operators

- Quickly assess impact of varying plant conditions
- Evaluate and justify plant improvements
- Create reports for production loss
- Minimise risks associated with plant changes
- Plan production and maintenance
- Plan energy and raw material usage
- Metallurgical accounting and inventory control

Engineering groups and consultants

- Mass and energy balances for design
- Surge and availability analysis
- Interface to project engineering software
- 'What if' scenario analysis
- Equipment sizing and configuration
- Control system design and testing

R&D groups and departments

- Incorporate specialist knowledge into SysCAD
- Easily used throughout the organisation
- Independent and full ownership of intellectual knowledge
- Interface to laboratory and plant data systems
- Evaluate process sensitivities to design changes
- Include physical properties and correlations in flowsheets

"SysCAD is one of the reasons I love leaping out of bed in the morning. Flexible yet powerful; forever developing and improving yet consistently reliable with rock-solid stability. I couldn't imagine doing my job without it."

Simon Willis (Simulus)





About us

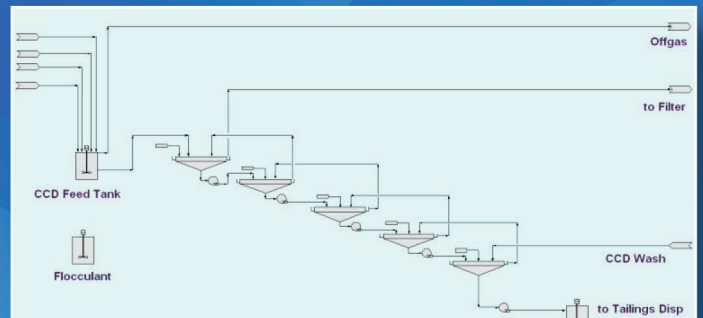
Established in 1983, Kenwalt are the owners and developers of SysCAD, pioneers in process modelling, now referred to as digital twins. We are an Australian based company with global offices who supply support and training across all time zones. In addition we provide general and specialist modelling services.

Industry Experience includes:

Alumina	Base Metals
Lithium	Precious Metals
Nickel	Bulk Material Handling
Uranium	Foundries and Smelters
Zinc	Crushing and Screening
Iron Ore	Water Treatment
Diamond	Mineral Sands
Copper	Rare Earths
Potash	Sugar Factories
Ammonium Nitrate	Power Plants
University Teaching/R&D	R&D Organizations

Here are just some of the companies around the world that use SysCAD on a daily basis:

Aditya Birla	Met Dynamics
American Zinc Products	MMG
Assmang	Mosaic Potash
BHP Billiton	Rio Tinto
Cameco	Rusal
Cleveland Potash	SAMI
CSIRO	Simulus
Glencore	South 32
Emirates (EGA)	SQM
Hangzhou Jinjiang	Tianqi Lithium
Hatch	Teck
Jacobs	Universities
K+S Potash	Veolia Water
Metallurgical Systems	WorleyParsons



A well maintained SysCAD model provides a virtual environment to monitor and improve the performance of the real plant.

SysCAD provides a digital twin as a key component of your digital transformation strategy and ensures that analysis is readily available to make and prioritise decisions in an operating refinery.

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