



CASE STUDY

Sino Pharmengin succeeds with Octave Forte 3DWorx in pharmaceutical sector

Key facts:

Company: Sino Pharmengin Corp.

Website:
www.pharmengin.com

Industry: Life Sciences and Pharma

Country: China

Octave products used:
Forte 3DWorx (*CADWorx Plant Professional*), Forte Isogen (*Isogen*)

Key benefits:

- Provided building information modeling (BIM) for large, complex pharmaceutical facility
- Eliminated costly clashes and rework
- Improved productivity by 20%
- Enhanced accuracy by 30%

Sino Pharmengin Corp. (Pharmengin), a subsidiary of China National Pharmaceutical Group Corp., is a leading engineering, procurement and construction firm serving the pharmaceutical industry. Formed from combining the Chongqing Pharmaceutical Industry Design Institute CPIDI and Wuhan Pharmaceutical Industry Design WPIDI, Sino Pharmengin Corp. is affiliated with China National Pharmaceutical Group Corp., the largest state-owned pharmaceutical and health care company. The firm's 600 trained and registered staff members include 10 experts with State Council Awards and three industrial design specialists. More than 200 employees have earned registered licenses and certificates.

Identifying goals

For this project, Sino Pharmengin Corp. needed to design a pharmaceutical plant producing over 2 million medical doses per day.

Overcoming challenges

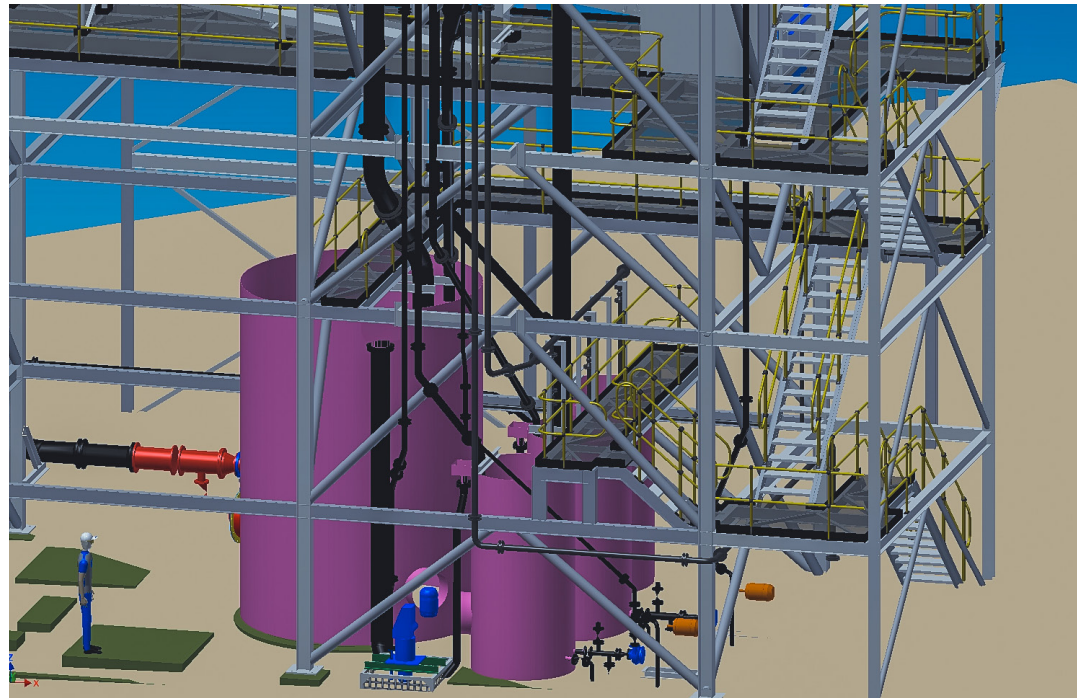
This Building Information Modeling (BIM) project included a building 70m long, 23m tall and 40m wide. Pharmengin chose Forte 3DWorx to design hundreds of pieces of equipment, 872 unique piping systems with sizes ranging from 15mm to 300mm and more than 2,000 isometric drawings.



The large Chinese Medicine Industrial Park (CMIP) project has a gross floor area of 55,000 square meters, including workshops of pretreatment, extraction, preparation and powder. The extraction plant building is 66m long, 30.3m wide and 23.4m high. In addition to mechanical, electrical and plumbing, Pharmengin designed 250 sets of equipment and 872 piping systems with diameters ranging from DN15 to DN300.

"(Forte 3DWorx) is capable of multi-disciplinary, collaborative design and provided success for BIM and Mechanical, Electrical and Plumbing (MEP), including complex projects and confined spaces."

Jia Xie
Marketing Manager,
Pharmengin



Realizing results

This project was the first use of Forte 3DWorx for a pharmaceutical project in China. Pharmengin was able to improve productivity by 20% and enhance accuracy by 30%. The BIM multidisciplinary design included the workshop, equipment, process pipes and mechanical, electrical and plumbing (MEP) over three months.

Pharmengin leveraged Forte 3DWorx for construction drawings, including a total of 872 isometric drawings using Isogen, plus videos and pictures to form a visual impression of the model. Forte 3DWorx proved easy to use and helped solve complex engineering problems, expedite construction and improve productivity and accuracy.

"Forte 3DWorx has been proven to be highly suitable for pharmaceutical engineering in China," said Jia Xie, marketing manager at Pharmengin.

"It is capable of multi-disciplinary collaborative design and provided success for Building Information Modeling (BIM) and MEP, including complex projects and confined spaces," he said.

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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