



BROCHURE

Octave Forte 3D

Changing how projects are
engineered and designed

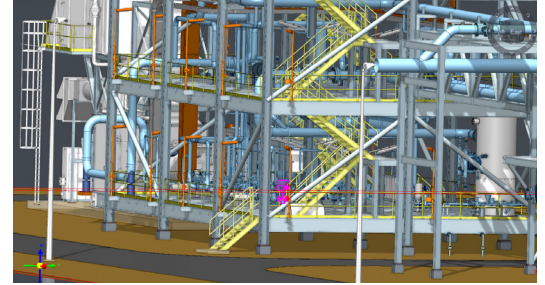


Today's global, fast-track projects demand control over cost and schedule, often across multiple design centers and increasingly, with joint ventures that add another layer of complexity. For engineering, procurement and construction (EPC) companies, protecting intellectual property while preserving best practise design information for reuse on future projects remains critical. For owner operators, the challenge extends further, coordinating both in-house and off-site resources for greenfield, revamp and maintenance projects. They require the ability to standardize modules and maintain accurate as-built plant models for ongoing support of operations and maintenance.

Forte 3D (formerly Smart 3D) offers industry- leading capabilities to meet cost and schedule deadlines. The project and as-built capabilities break through barriers imposed by traditional technologies to enable a truly iterative design environment. The result? Stronger execution and a clear competitive edge.

Solution

- Forte 3D connects engineering teams around shared specifications, ensuring critical material definitions flow seamlessly downstream. At the project level, it brings clarity to discrepancies and approvals, reducing out-of-sequence work and keeping delivery on pace.



- It shortens schedules by streamlining design across disciplines and workflows, while enabling global, concurrent engineering so teams can execute from anywhere.
- It also captures engineering knowledge, so it can be reused, refined and scaled across future projects.

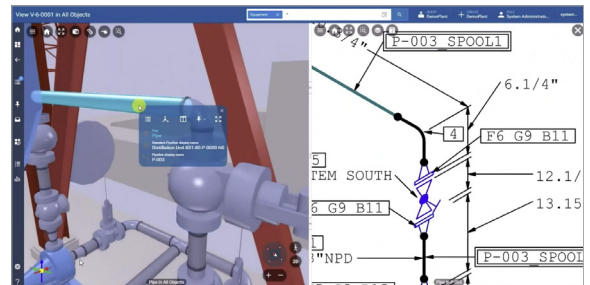
As a fundamental component of any digital strategy, Forte 3D delivers the modeling capabilities needed to design facilities and maintain accurate 3D as-built representations. With customizable automation and a model reuse approach, it's built to handle projects of any size or complexity.

Forte 3D integrates with Octave's digital backbone. Forte 3D ensures data flows continuously (from design through construction and into operations) to support a fully connected asset lifecycle.

Project transparency and agility with Octave's digital backbone

Forte 3D operates within Octave's broader ecosystem. It incorporates their digital backbone for real-time connectivity across Octave's Digital Project solutions as well as the asset's operations and maintenance.

With access from anywhere, project teams collaborate instantly to keep stakeholders aligned, whether they are direct users or not.



“Without a doubt, Forte 3D is the future of engineering, and we plan to use Forte 3D for all new projects moving forward.”

Deputy Director Engineering, NIPi

Unique sustaining engineering capability

When coupled with the broader Digital Projects solutions, Forte 3D expands visibility and collaboration. Stakeholders gain an easier and better view of in-project work changes in both configuration and data for better decision making and control of data access for downstream teams.

Full laser scan support

Forte 3D integrates CloudWorx directly into the modeling environment, allowing users to measure, manipulate and work with laser scans without switching tools.

At the same time, administrative overhead tied to point cloud data is reduced, so teams can stay focused on design, not data management.

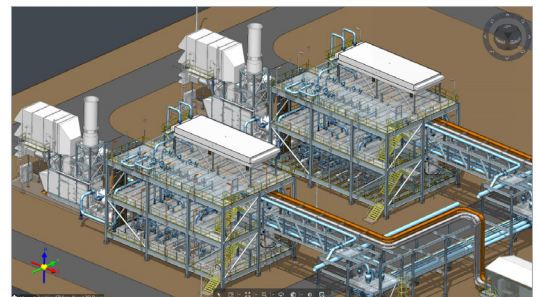
Enforced design rules increase data quality and ensure design integrity

Forte 3D enforces design rules to maintain accuracy and consistency across the project. The impact is immediate with fewer errors, fewer changes and less rework.

Continuous monitoring highlights the impact of changes in real time to ensure stakeholders work from the most current design state. Downstream updates to drawings are tracked automatically, so what reaches procurement and the field remains aligned and updated.

Design reuse for a competitive edge

Capturing design knowledge becomes a strategic asset. Forte 3D preserves and structures that knowledge so it can be reused in future projects to accelerate timelines and reduce costs. It creates continuity across projects and enables ongoing innovation.



“We decided to move to Forte 3D because we knew that Octave would understand and work with us and that we would be able to grow and collaborate with them. As a result, we have seen significant cost benefits.”

Managing Director, Shinseigiken Engineering

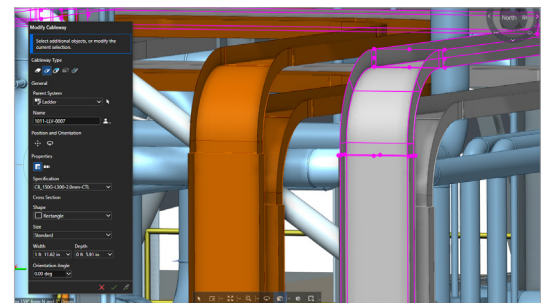
Global, concurrent engineering capability enhances project execution

Forte 3D enables distributed teams to operate as one. Project databases can be replicated globally, allowing work to shift across locations without losing alignment.

Forte 3D lets stakeholders easily and effectively monitor, manage or execute projects from anywhere. Updates synchronize in real time to keep every team member working from a consistent source of truth to reduce delays and maintain timelines.

Multi-discipline design for better decisions

Forte 3D brings all disciplines into a single visible environment. Teams can review and refine designs early and often. Changes made to the model automatically update the connected elements, including the bill of materials to keep stakeholders updated in real time for more informed decision making.



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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