SOLUTION SHEET

OnSite Production



In the onshore, construction, mining, offshore and shipbuilding industry, you need production-proven solutions that will help you stay one step ahead of the competition. OnSite Production now offers a powerful tool to provide support for not only the module and block production process but also for the pipe shops, given a unique single solution for the complete fabrication process. Starting with major design solutions—including fully integrated change management—and continuing through part production to completed spool, module and block assembly, this approach supports every stage of the process. Staying ahead of the competition requires continuous improvement and digitally enabled lean manufacturing (Industry 4.0). OnSite Production enables the constant capture of your production knowledge to enhance project quality and increase your productivity.

Why OnSite Production?

Change management

Manage all changes to the production process consistently throughout with a data-centric approach.

Control production

Access real-time feedback from shop floor machines and workstations to provide valuable insight on work progress at any given time.

Improve material utilization

By integrating inventory, actual usage and remnant management into the process, significant material optimization can be achieved.

Advantages of software

OnSite Production solutions provide:

- Intelligent integration with engineering and design solutions that can lead to a significant reduction in time spent on work preparation
- Consistent and automatic management of change
- Smart backward and forward scheduling functionality resulting in an optimized shop floor
- A production schedule with individual work center instructions, thereby shortening throughput times and improving resource utilization
- Improved material management through powerful nesting and remnant management
- Real-time interactions with resources, machines and work centers (through different technologies, such as PC monitors, QR or bar codes, and other) and up-to-date business intelligence information, such as availability to produce (materials) as well as capacity to produce (resources)
- Full traceability of materials, logistics and production

Key features

Increase design/production visibility

Using Forte 3D planning assembly hierarchy setup as the basis, the system visualizes real-time production status compared to plan.

Efficient load balancing

Based on production routing and previously established estimates, OnSite Production allows backward and forward scheduling based on available resources and capacity (load balancing) to allow the creation of an accurate work preparation plan.

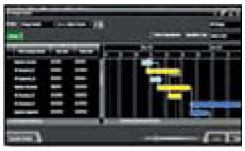
Easy production scheduling

Just-in-time production scheduling is supported throughout the complete process, including assembly and sub-assembly stages using the part fabrication scheduling into account.

Smart fabrication process with OnSite Production

Engineering data import

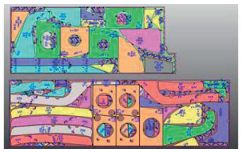




- Assembly structures
- Part geometries, panels
- Work Pack (WP) schedules

Work preparation





- Production routing
- Capacity planning
- Part nesting, remnant management
- Changes management
- Material reservation

Work management





- Workshop sequencing and balancing
- Queueing work phases
- Guidance for shop floor

Shop floor





- Cutting
- Part fabrication
- Panel and assembly production
- Buffers and internal logistics

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, propert, 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.

©2026 Octave Intelligence plc and/or affiliates. All rights reserved.

octave.com