Solution Sheet





# Intergraph Smart<sup>®</sup> Production Enterprise Powered by NESTIX

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. Intergraph Smart® Production Enterprise 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 from all major design solutions (including fully-integrated change management) and continuing through part production until completed spool, module and block assembly. Getting ahead and staying ahead of your competition requires your continuous improvement and support of lean manufacturing [digitally enabled lean: Industry 4.0]. Intergraph's Smart Production Enterprise Powered by NESTIX enables the constant capture of your production knowledge to enhance project quality and increase your productivity.

## Why Intergraph Smart 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 insights 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

Smart 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 RFID and other) and therefore 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 Intergraph Smart 3D planning assembly hierarchy setup as the basis, the system visualizes in detail real-time production status compared to plan.

#### **Efficient Load Balancing**

Based on production routing and previously established estimates, Smart 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 Smart Production Enterprise**



### **About Hexagon**

Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Hexagon's Asset Lifecycle Intelligence division helps clients design, construct, and operate more profitable, safe, and sustainable industrial facilities. We empower customers to unlock data, accelerate industrial project modernization and digital maturity, increase productivity, and move the sustainability needle.

Our technologies help produce actionable insights that enable better decision-making and intelligence across the asset lifecycle of industrial projects, leading to improvements in safety, quality, efficiency, and productivity, which contribute to Economic and Environmental Sustainability.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 23,000 employees in 50 countries and net sales of approximately 4.6bn USD. Learn more at hexagon.com and follow us @HexagonAB.

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