Intergraph Smart® Production for Steel Service Centers (SSC) features a unique bottom-up approach to control the complete production process within steel service centers and mechanical engineering companies, based on Industry 4.0 concepts. With more than 400 customers, it’s a proven solution that contains all functionality for sales, work preparation, fabrication and delivery, with load balancing for material and resources in a single integrated solution.

Smart Production integrates with 2D/3D design, schedule, material management, and the machines on the shop floor. The solution considerably increases material and resource utilization, manages remnants, improves schedule and material flow, and significantly reduces the man-hours required in the work preparation process.

Smart Production SSC manages the complete steel service center production process, starting from the quotation calculation and continuing through work planning, part production, packaging, delivery, and final invoicing. By using the real geometry, Available to Promise (ATP), and Capable to Promise (CTP) functionalities, a unique, accurate, quotation can be quickly achieved, which helps provide a competitive edge. Reduction in quotation time of 30 to 80 percent can be realized, as well as improved profitability of orders. With the inclusion of nesting, material optimization algorithms, and remnant management, material saving of 1 to 5 percent can be seen. This is also applicable for coils. This all contributes to keeping promised delivery dates and being viewed as an even more reliable partner.

Why Intergraph Smart Production powered by NESTIX?

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.

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.

Efficient Load Balancing
Based on production routing and previously established estimates, Smart Production allows back and forward scheduling based on available resources and capacity (load balancing) to allow the creation of an accurate work preparation.
Change Management
Manage all changes to the production process consistently throughout with a data-centric approach.

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.

STEEL SERVICE CENTER PROCESSES
MANAGED BY SMART PRODUCTION, SSC

SALES PHASES
- Import geometries and production data
- Select production chains
- Calculate accurate quotations

WORK PREPARATION
- Make internal production order
- Schedule production orders
- Work preparation
- Plate part nesting
- Profile, coil and pipe optimization
- Guidance for shop floor
- Storage management

FABRICATION
- Picking material from storage
- Cutting and slitting
- Part prefabrication: drilling, beveling, bending, blasting, painting
- Assembly, welding

DELIVERY
- Packing
- Dispatching
- Invoicing

About Hexagon PPM
Hexagon PPM is the world’s leading provider of enterprise engineering design software and project control solutions. By transforming unstructured information into a smart digital asset, our clients are empowered to visualize, build, and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire life cycle.

Hexagon PPM is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technology solutions that drive productivity and quality across geospatial and industrial landscapes.

© 2017 Hexagon AB and/or its subsidiaries and affiliates. All rights reserved. 11/17 PPM-US-0457A-ENG