

SIMATIC IT Unified Architecture Discrete Manufacturing V2.5

Solution for complex assembly and job-shop environments

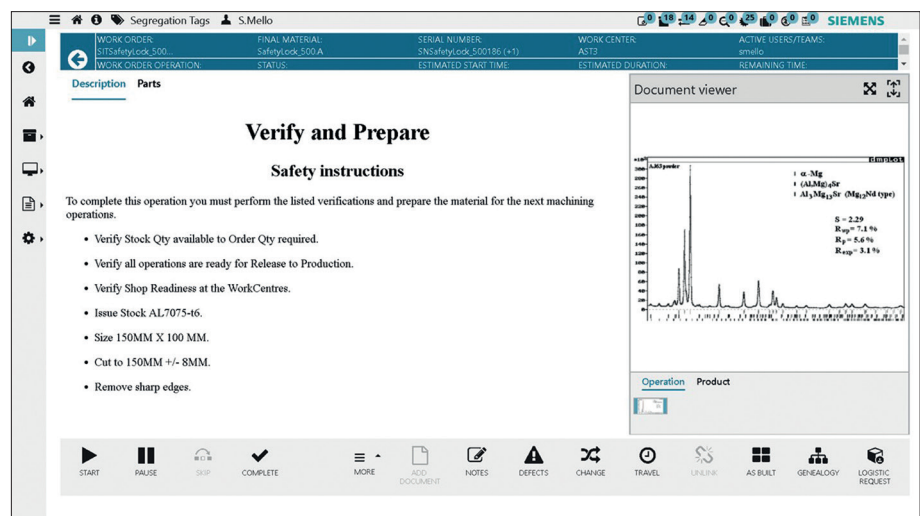
Benefits

- Delivers a user-friendly UI that provides a compelling state-of-the-art experience
- Reduces scrap and waste by guiding shop floor operators through their assigned tasks, providing interactive instructions and data acquisition screens
- Enforces audit and certification management to trace and prevent unauthorized actions
- Improves cost of production calculation by means of enhanced labor tracking functions
- Integrates with advanced scheduling (Preactor AS)
- Provides configurable integration with DNC systems and 3D printers, so you can transfer program files to machines
- Includes SPC and Non-Conformance functionality (integrates with QMS Professional)
- Provides visibility of WIP and full product traceability and genealogy

Summary

SIMATIC IT Unified Architecture Discrete Manufacturing (SIMATIC IT UADM) is designed to satisfy the most common needs of industries in which specific macro areas are dedicated to executing sequential discrete manufacturing functions in order to produce the desired product. These include:

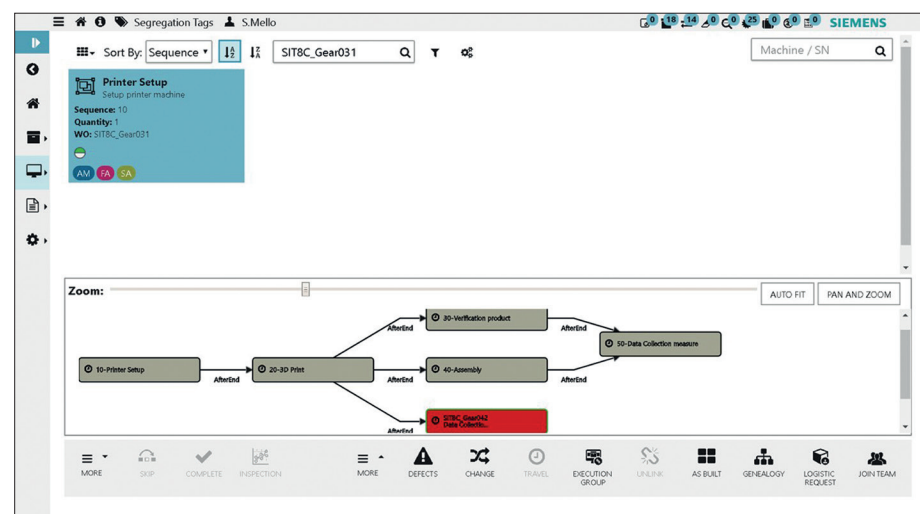
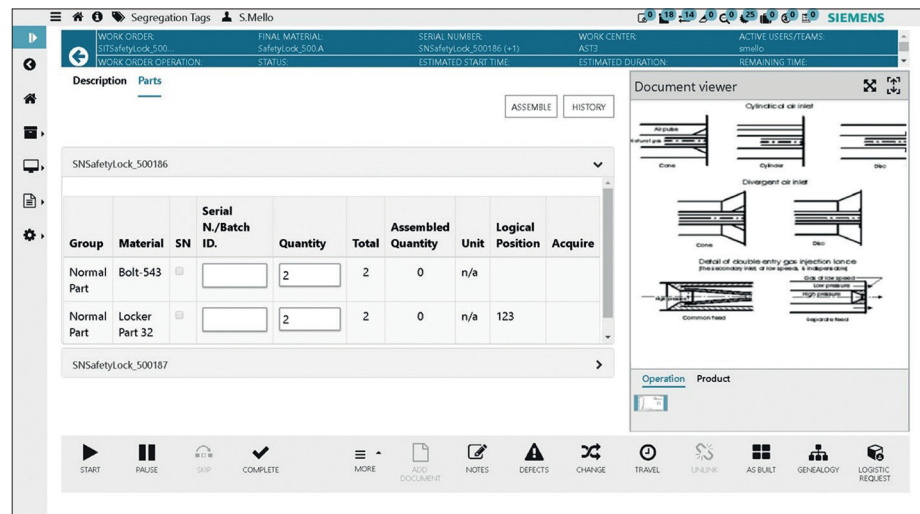
- Automotive tier suppliers
- Aerospace and defence tier suppliers
- Energy and utilities
- Industrial machinery and heavy equipment
- White goods and home appliances
- Complex parts manufacturing and assembly
- Specialized out-of-the-box functions for both complex assembly manufacturing and job-shop environments (high complexity, low volume) and for automated repetitive manufacturing industries (configurable products, high volume)



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Features

- Create production orders by defining the type of production and quantity to be produced
- Schedule production according to your needs
- Guide operators during the execution phase, including quality inspection
- Track and monitor production to see work-in-progress
- Distribute workload at shift start and support work teams where production requires the cooperation of multiple operators
- Track labor time spent on non-productive activity, such as training, maintenance, etc.
- Notification of business events
- UI content driven by business events; unattended operation on automatic machines including full product traceability
- Configurable interlocking checks to validate operation start and completion and configurable constraints on the use of manufacturing tools and equipment
- Ability to download set-points to machines
- Detect, sentence and repair non-conformances according to configurable rework processes
- Collect process data and trigger label printing
- Perform material calls, tool calls and e-kanban buffer replenishment
- Functionality to call, prepare and consume kits for configurable product assembly
- Support of powder bed additive manufacturing (AM) processes
 - Powder batch preparation, splitting, consumption, recycling, association with test lab certificates, mixing and genealogy
- Associate serial numbers with print job



Modeling your production environment

SIMATIC IT UADM offers native engineering and run-time data definition. As a product engineer, you can define entities so it is possible to model engineering data. This means you can configure information about the products you will produce, the production process and related work operations, and all required resources, such as locations, machines, tools, material definitions, defects and rework codes. As an alternative, of course it is possible to import such data from external systems.

Siemens PLM Software
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