

Planning & Control for Metal Processing & Manufacturing

Faster production with less waste and fewer bottlenecks. Utilize a new mindset that unifies planning and execution to prevent disruptions, improve visibility, and unlock capacity in metal manufacturing operations.



Algorithmic Deviation-based Detection & Control

Prevent bottlenecks in machines, furnaces & setups

Constraint-driven Critical Resource Planning

Ensure timely availability of transport boxes and furnaces

Coordinated Planning of Multi-Level Assemblies

Synchronize multi-stage workflows across areas.



Automated Allocation of Setup and Startup Personnel

Assign key personnel precisely for initiation processes

What-If Simulations for New Product Launches

Test new product variants without disrupting operations

Auto-Matching Articles to Equipment Capability

Assign parts to machines by properties and capabilities.

Optimized for Planning & Control in Metal Processing and Manufacturing

planeus is an **adaptive, easy-to-use Production Planning & Control system** designed to handle the complexity of metal processing operations.

From cutting, casting, machining, and welding to heat treatment, finishing, and assembly, planeus helps manufacturers reduce inventory buffers, prevent machine and resource conflicts, and maximize the utilization of skilled personnel and critical equipment.

Characteristics-Based Machine & Equipment Assignment

- Automatically schedules machines based on technical capabilities like 5-axis machining, welding, or heat-treatment readiness
- Automatically ensures only suitably equipped machinery is assigned to a specific part

Automated Scheduling for Batch Loading & Processing

- Optimizes furnace loading for processes like annealing, hardening, or galvanizing
- Groups parts into different batches based on treatment requirements and cycle durations

Installer & Qualification Matrix

- Utilize skilled personnel or specialists precisely for setup and process startup phases
- Automatically allows general operators to take over once characteristic-required setup is complete

Attendant Resources

- Treats transport carts, fixtures, and trays as schedulable, capacity-critical resources
- Automatically reserves these resources across continuous operations

Multi-Level Assembly Planning

- Synchronizes pre-fabrication and assembly areas for complex multi-level parts
- Links sub-components with BOM logic to align scheduling and capacity requirements

Simulation Environments & Scenario Planning

- Tests changes in volumes, shift patterns, or equipment downtime without disrupting live production
Empowers data-driven decisions before investing in new machines, storage, or staff

planeus System Advantages

Modern Design and Cloud Architecture

- Integrates with ERP, MES, and CAD/CAM systems
- Can also run standalone, enhancing or replacing legacy systems without placing a heavy burden on IT teams

Regain Control Over Production

- Coordinates staff, machines, tools, and shift schedules
- Maintains clarity even across multiple parallel production lines

Expect the Unexpected

- Alerts you to planning deviations triggered by process changes
- Detects and prevents production conflicts before they occur

Higher Output, Lower Effort

- Optimizes resource allocation to minimize wait times
- Enables scalable production even amid high complexity

Fast System Implementation

- Deployment typically ranges **within 3-6 months**.
- Start small with a **pilot system** in a controlled environment before making a full commitment

With deep experience in automotive and component manufacturing, planeus works directly with teams to ensure a secure & smooth deployment — fully aligned with your production processes and workflows.



Uwe Zylka

planeus
Manufacturing Consultant
for Metal Processing



Sunny Mak

planeus
International Team
y.mak@thdata.de

Contact

th data GmbH
info@thdata.de