

The Bend
The Combi
The Laser
The Punch
The System
The Software

Tulus® Power Processing

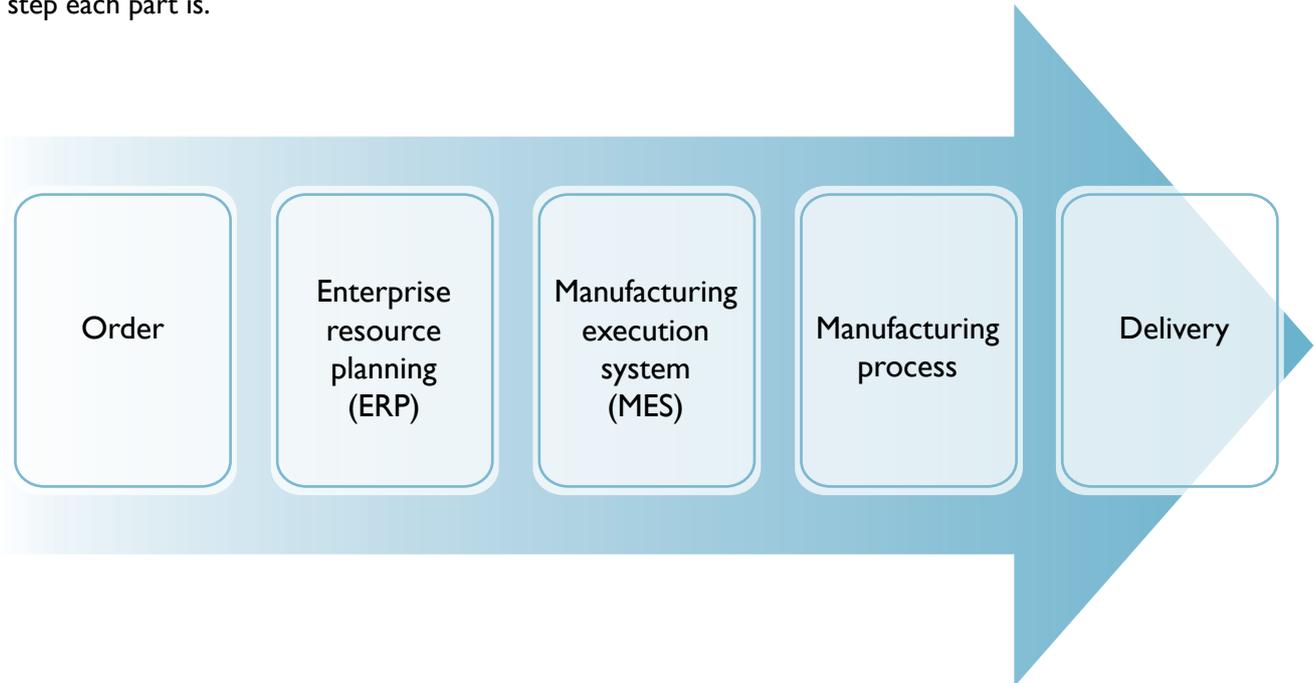
What is Tulus® Power Processing?

Tulus® Power Processing is a manufacturing execution system (MES). With Tulus® Power Processing you can control the whole production process from order management, programming and machine time scheduling all the way to the finished product and reporting.

Tulus® Power Processing makes the production process transparent and easy to manage. You always know the status of the production and in which work step each part is.

Power Processing makes the production much more efficient with less effort.

Make the most of your manufacturing potential with Tulus® Power Processing.



Tulus® Power Processing in a Nutshell:

Two-way ERP connection

Scheduling machines with the machine calendar

Editing the active task list on the fly and controlling the manufacturing process

Automatic nesting of the parts and manufacturing based on product assembly

Performance, utilization, and production reports and raw material inventory

Routing of the parts defines the manufacturing sequence

A complete manufacturing execution system which enables remote optimization and control of the whole production process

Interface also with other vendors' systems, such as ERP, in which case orders and reporting are handled automatically from a higher level

Tulus® Power Processing has all the excellent functions and features of Tulus® Office and a large number of others.

Master the process

Tulus® Power Processing communicates perfectly with the enterprise resource planning system of the factory. At the same time, it operates as a manufacturing execution system. Thus, Tulus® Power Processing helps you control the whole production process from part order handling to the finished part and reporting.

Parts can be nested automatically so that nesting requires only few, if any, manual CAM operations. All the parts of the product which are of the same material are nested and manufactured in one go. Parts can also be nested and manufactured according to product assemblies.

With Tulus® Power Processing you control material storages, part inventory and complete products (product assemblies).

With Tulus® Power Processing you can also create production and performance reports to facilitate analysis and control of production.

With Power Processing you can route the parts to different work stages, and so define in which order the manufacturing process proceeds (welding, coating, etc.). When you use routing, you always know the status of the production and at which work stage each part is.

Tulus® Power Processing can be used in machines of all types and make, as long as the machine supports the Power Processing interface. So, it is possible to monitor the status information and the task list of any machine, whether it is a Prima Power or a third party machine.

Editing the machine task list is only possible in Tulus® machines.

Monitoring and scheduling factory work load

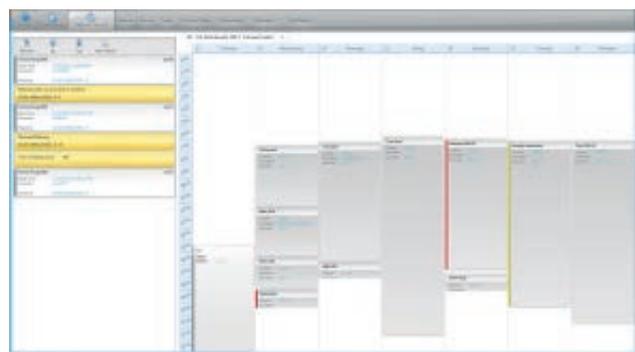
The versatile software tools of Tulus® Power Processing enable efficient production planning and control. You can follow several machine statuses and task lists simultaneously.

You can see in one view what is going on with all the machines in the factory: machine statuses, active NC programs, alarm information, etc.

You also see when the next machine stop will be.

Further, you can edit the active task list of the machine, and conveniently plan and schedule work tasks with the Tulus® machine calendar.

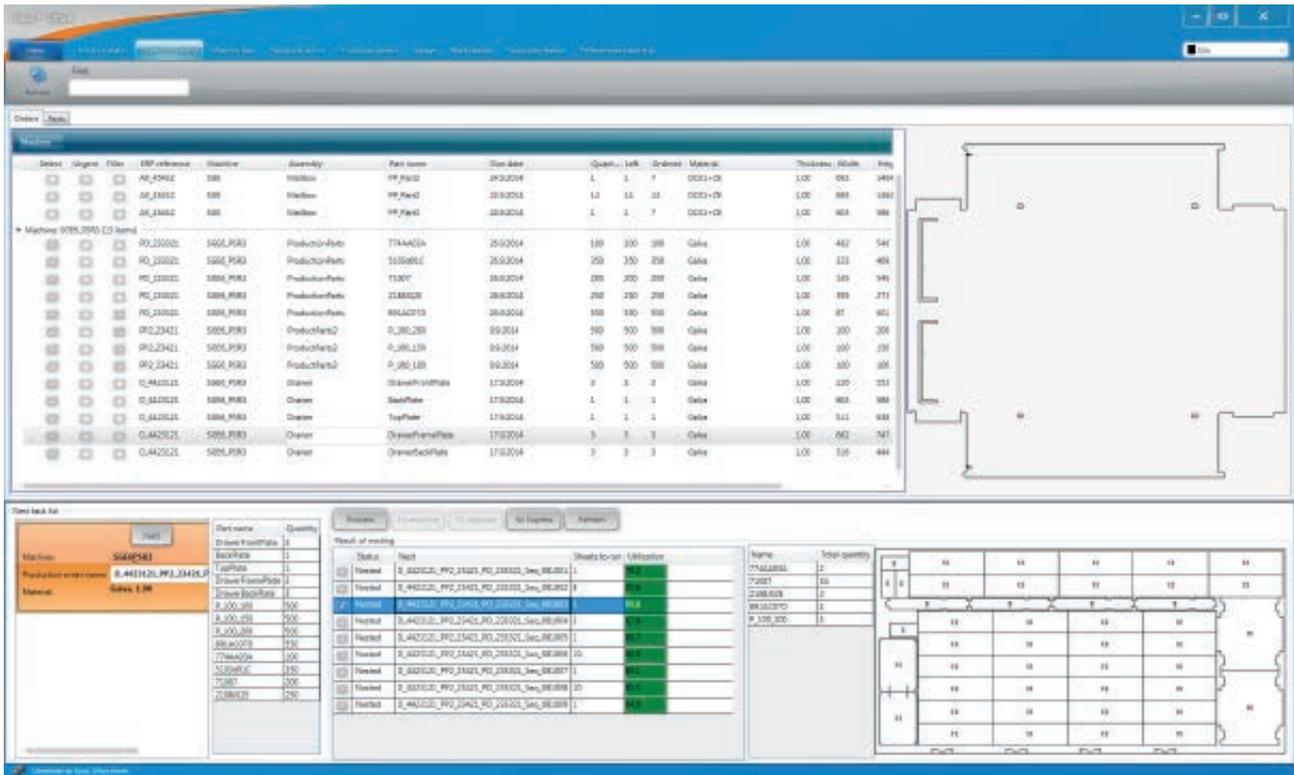
You can use the calendar to schedule tasks for a work shift and retrieve data from a work shift for reports.



Automatic nesting and tooling

Nesting and tooling of parts can be made automatically but you can also edit the result easily when desired. The selected nest can be opened to CAM directly from Power Processing and the changes made in CAM are saved. All the parts of the same material can be nested and manufactured in one go. In this way, there will be no unnecessary machine stops during production run because there is no need to change material.

Parts can also be nested and manufactured according to the product assembly in question (kit), and the nests of can also be saved to for further use to the Power Processing database.

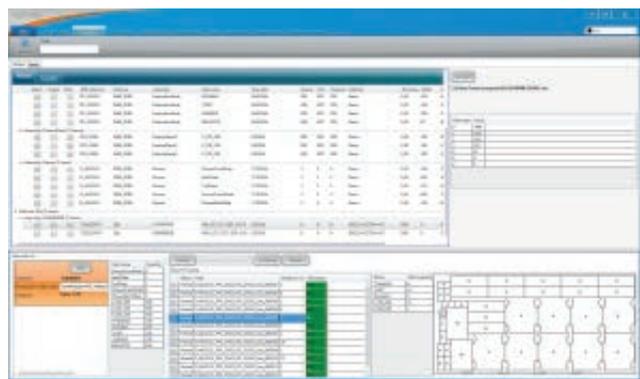


Automatic nesting and tooling

Parametric programming

When ERP can feed parameters of products (such as length, width, type, number of openings etc) to the Power Processing, these values can be used in part scripts to create fully automatic correct size part files.

The script has the necessary logic for reliable punch hit sequence, laser cutting, sorting device assignment and robot placement. This guarantees reliable parametric production continuously day and night.

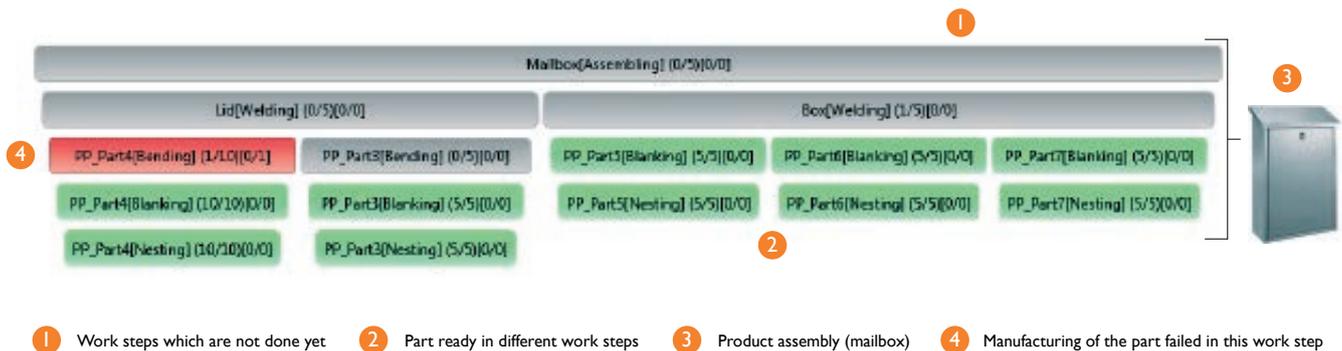


Parametric programming

Control orders, product assembly and raw material inventory

With Tulus® Power Processing, order and production management is easier than ever before. With Power Processing you control the whole product assembly, its parts and part counts. The orders can be put into production as product assemblies and are thus easy to structure. Product assembly and order data can also be retrieved automatically from the ERP system.

Because Power Processing knows all the time the actual inventory of the parts, both stacked parts and the parts in storage, only necessary parts are manufactured. There will be no unnecessary storages. Also raw material inventory data is always available.



Routing the parts to work steps

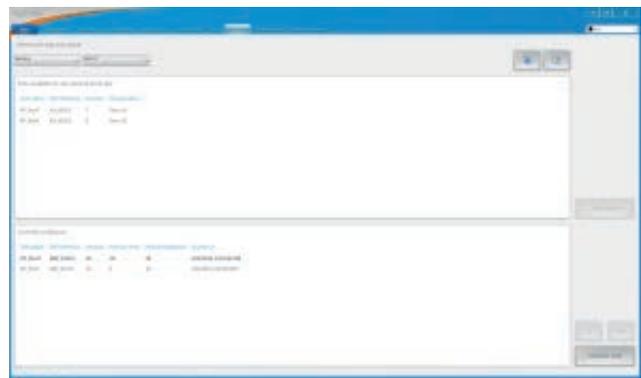
With Power Processing you can route the parts to any work step and define the order of the steps (welding, coating, bending, etc.).

Tulus® Terminal

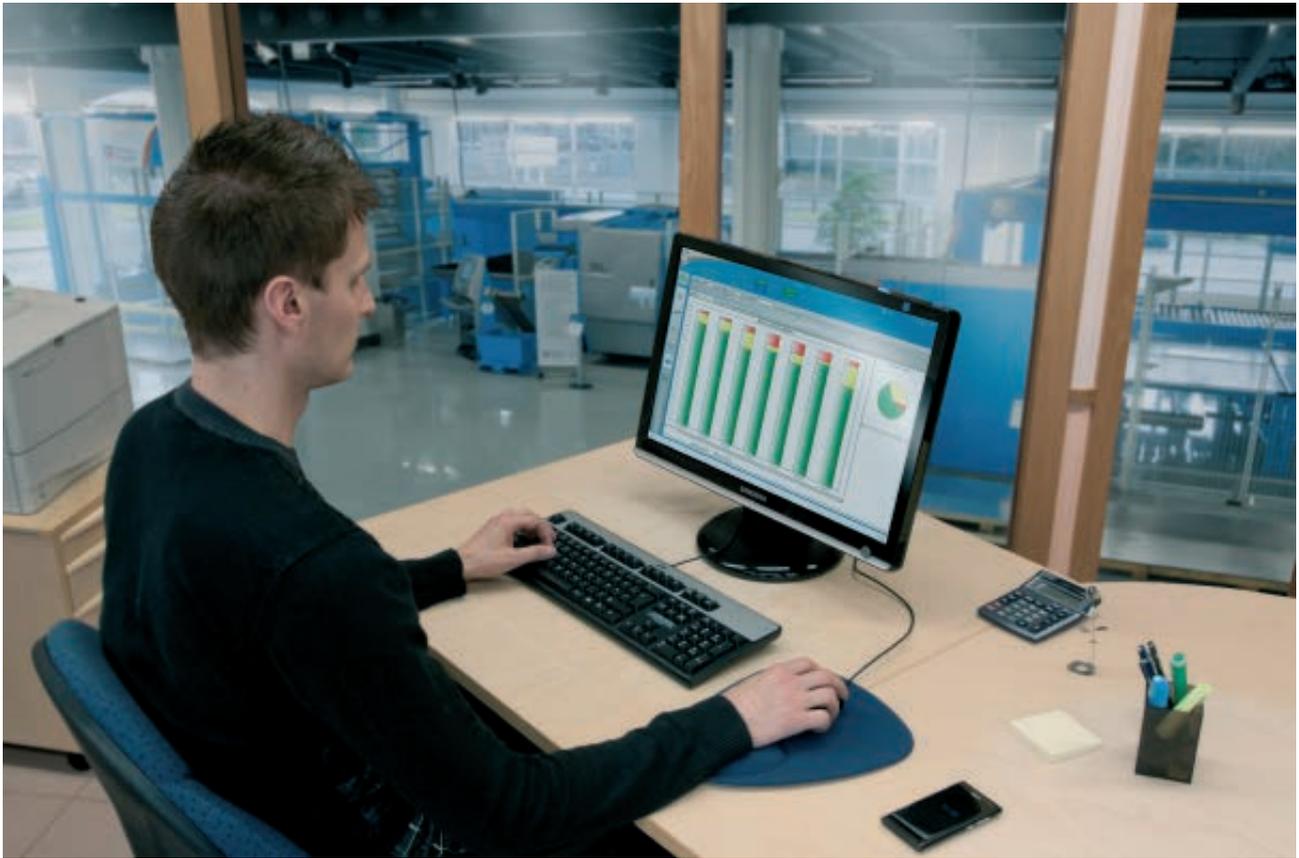
Each work step has a Tulus® Terminal view, which gives more information about it. The Terminal view also gives you the possibility to report ready and damaged parts and components.

In case a part is damaged, a new order is placed if there are none of these parts in storage.

You always know the status of the production and in which work step the parts are.



Tulus® Terminal view gives information and instructions of the work step



Versatile reporting

Tulus® Power Processing offers versatile performance and production reporting tools. These reports give a wider perspective of the production. They help analyze, for example, where improvement is possible in production planning.

Tulus® Production Reporting shows real-time machine production data and prepares reports on processed production. These reports can be used for budgeting and production planning.

Tulus® Performance Reporting creates reports on machine efficiency and utilization and gives accurate information on machine performance.

Production reporting

- Reports on processed production
- Raw material inventory
- Completed production orders and nests

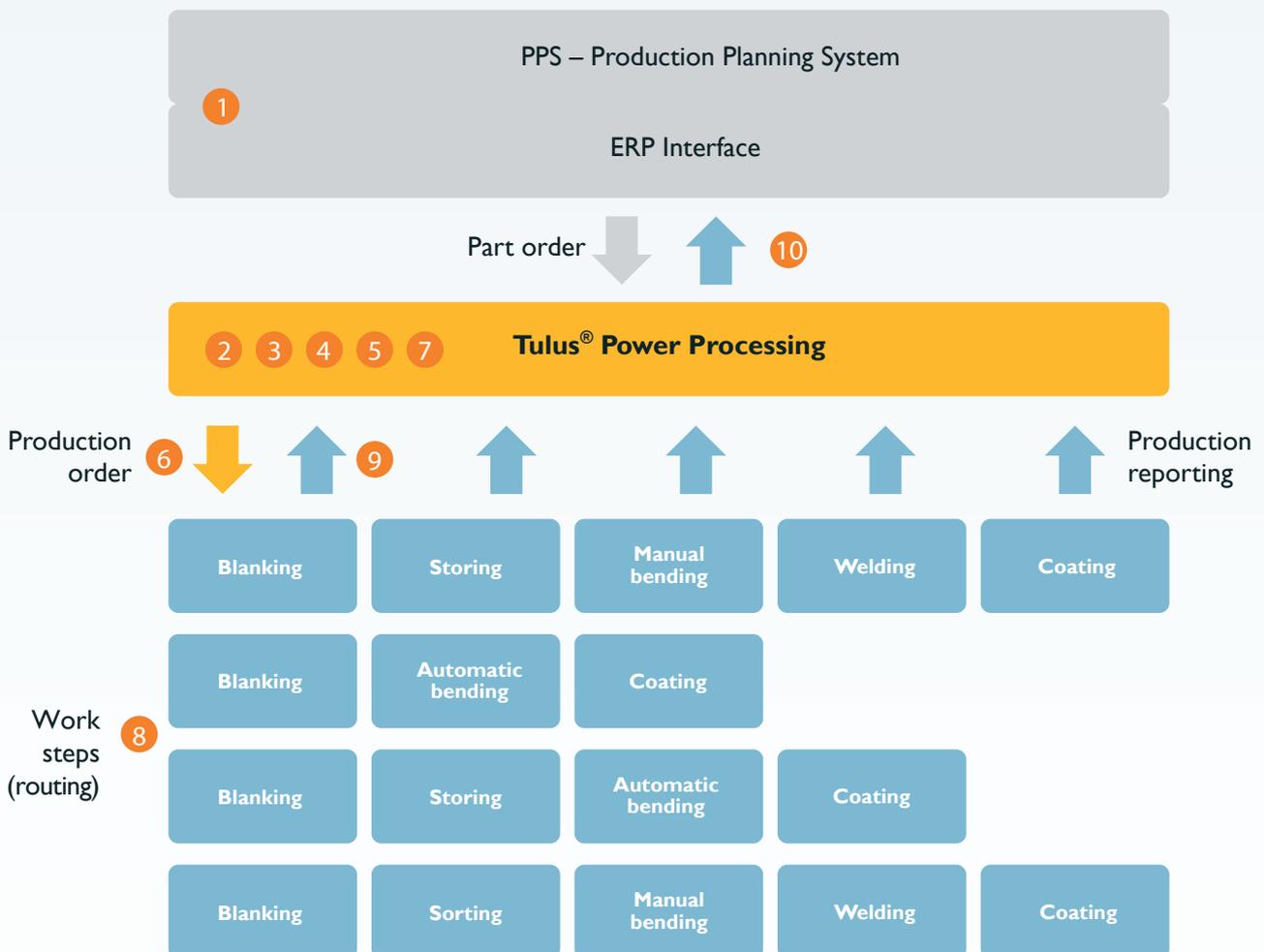
Performance reporting

- Machine efficiency and utilization reports
- Details of production
- Machine failure and idle time reports



Functional Description

- 1 Tulus® Power Processing receives the product order automatically (ERP) or this is created manually.
- 2 Power Processing receives product and component data.
- 3 Stock balance check (automatic storage and shop floor)
- 4 Part routing to work steps
- 5 Automatic nesting and tooling of different machines for parts missing from the stock balance
- 6 Production orders are transferred to the task list of machines or...
- 7 ...schedule in the machine time calendar
- 8 Routing of parts to different work steps
- 9 Reporting by work steps
- 10 Reporting back to the ERP system



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