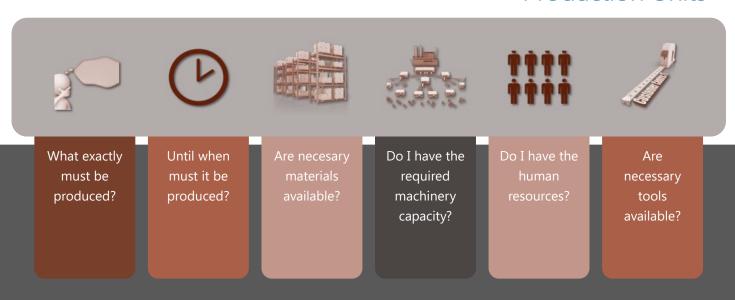


Shop floor control

Planning, control & documentation of work within Production Units



Detailed production structure data



▶ Productive Resources



- ◆ Machinery
- ◆ Tools
- ♦ Human Resources expertise
- Shifts
- ♦ Resources availability

Working centers

- ♦ Machinery
- Machinery groups
- Production lines
- Production workers groups
- Cost centers mapping



Production phases - routing plans

- Required processes and resources / tools per phase
- ◆ Phase dependencies ((sequence parallelism)

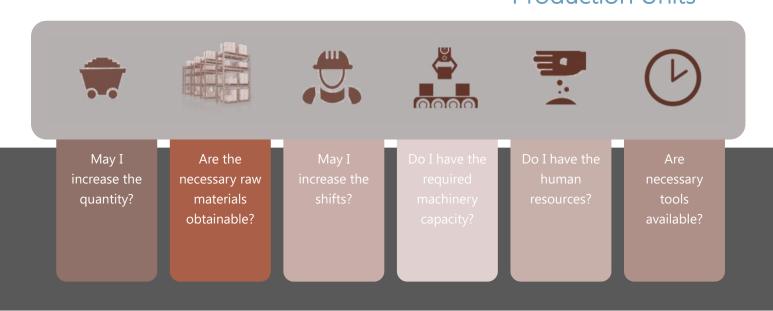


▶ Technical specifications

- Differentiation per production unit
- ◆ Seasonality
- Origin of requirement (customer/stocking)
- Main, alternative and supplementary productive resources
- Equivalent materials
- Phantom materials (of general type)
- ◆ BOM ratings (Active, R&D, Test)

Shop floor control

Planning, control & documentation of work within Production Units



Short-term planning - Production calendar



- ◆ Continuous circular production
- Prioritization of requirements
- ♦ Planning of specific process phase
- Incorporation of changeover time, setup, cleanup time
- ◆ Centralized planning of semi-finished products
- Production orders Movement orders
- Binding raw materials to ensure the feasibility of production plan
- Plan optimization based on KPIs of the production process

Decision making

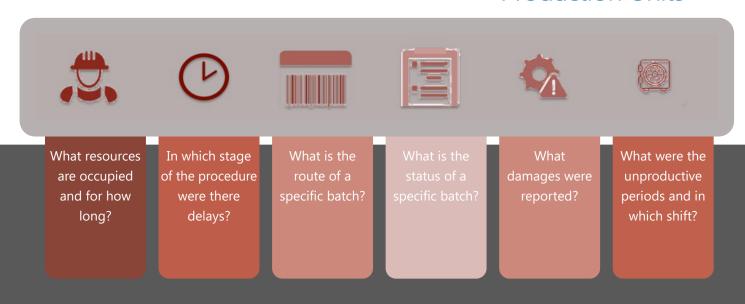
- Process transfer to another machine
- Merging of identical tasks
- Splitting tasks to more than one
- Reschedule tasks with recognition of all dependencies and automatic repositioning
- Change quantities or technical specifications. Direct check of raw materials availability.
- Capacity availability control
- Easy adaptation to changes and unexpected events
- Presentation simplicity



Shop floor control

Planning, control & documentation of work within

Production Units



On line production execution

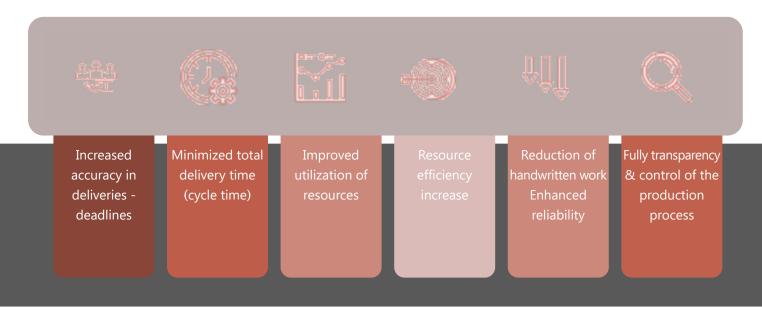
- Capturing of actual activities
 - ☐ Beginning and completion of work production duration
 - Produced items
 - ◆ Consumed items
 - ◆ Staff report
 - Damages reported damage duration
- Production Orders detailed overview
 - ☐ Real time order status
 - Check of feasibility of changes, according to current status
 - Report for actual process modifications
- Specific equipment
 - ☐ Portable terminals
 - Specific screen equipment
 - Interconnection with P.L.C. systems (programmable logic controllers, D.C.S. (data collection systems) ...
- ► Fully integrated operation with ERP & WMS





Shop floor control

Planning, control & documentation of work within Production Units



- Production process monitoring
 - Production order execution process per shift per machine
 - ◆ Detailed overview of Work in Progress
- Registry findings for optimization
 - Product deficiencies and damages per cause
 - Wastage per machine and process
 - Losses in time and product units per shift per machine
- Reporting
 - Production calendar review
 - Machine & production line productivity
 - Operators productivity
 - ♦ Batch traceability





