

# VARCHART XGantt

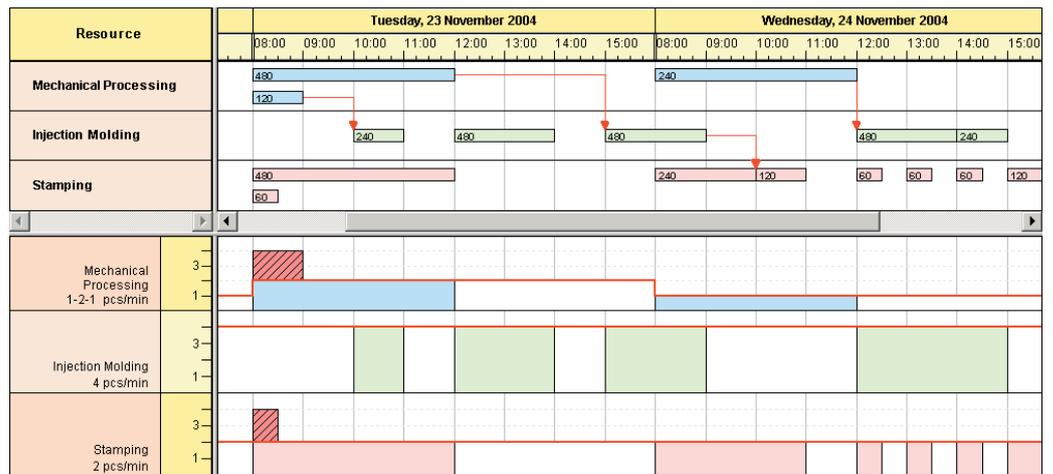
## Resource Scheduling Module

### Crucial Factors of Resource Scheduling

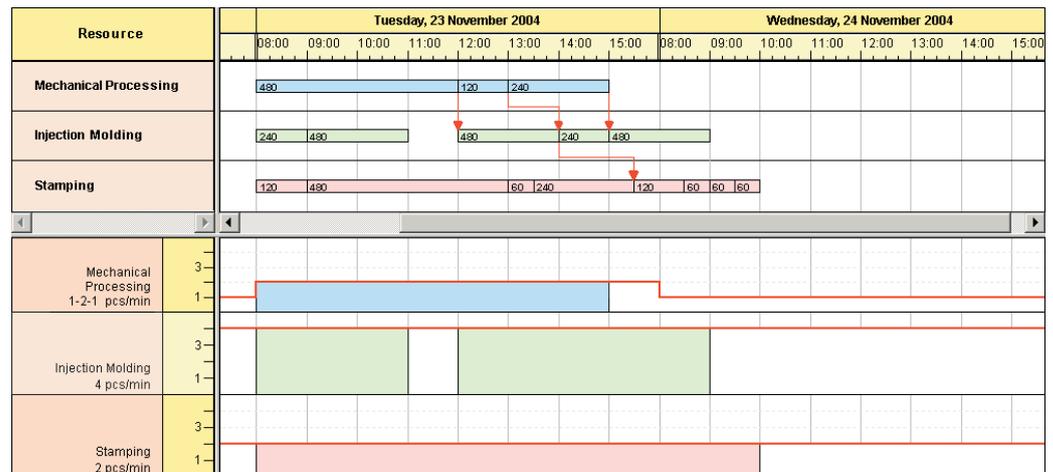
The new Resource Scheduling module of VARCHART XGantt 3.1 is a planning tool that takes crucial factors into account:

- task priorities
- quantities and degree of task completion
- release and due dates as well as lock dates for individual tasks
- available finite and infinite capacities in the lapse of time
- task links
- planning strategies „as soon as possible“ (ASAP) and „just in time“ (JIT) in general as well as for individual tasks

### Impact of Resource Scheduling



Initial Situation



Situation after applying the ASAP strategy of the resource scheduling module

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### **Benefits of Using the Resource Scheduling Module**

Scheduling is progressively becoming vital to companies in a global economy. Competition and cost pressure require a highly effective use of resources. By scheduling the tasks in an optimum way, the Resource Scheduling module of VARCHART XGantt avoids overload of resources, reduces idle machine time and thus supports the company to comply with delivery periods. The company will increase its overall efficiency of its deliver-on-time-process.

By combining scheduling algorithms and Gantt charts for visualisation, the Resource Scheduling module enables users to model their activities in an effective way. Coherences become obvious immediately. Resources, constraints and business goals can be set up in the Resource Scheduling module by the user, making it a powerful interactive tool in the process of decision making.

The simple and adaptable API makes the Resource Scheduling module an easy to use, intuitive development tool. Development time is significantly reduced.

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### **Swift Changes**

By highlighting capacity, resource and delivery problems, the Resource Scheduling module enables the user to foresee events through simulations. Resource shortage, lack of capacity, late deliveries and many other events can be foreseen through the Resource Scheduling module simulations.

Adapting to new situations is a challenge that the Resource Scheduling is prepared to meet. Adding or suppressing activities, resources and constraints will enable a user to swiftly adapt to changes and to comply with commitments.

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### **Applications**

The Resource Scheduling module applies to a variety of resource types, such as

- materials
- machines
- people

to visualise processes in

- warehousing
- distribution networks
- transportation
- manufacturing and production



Typical fields of application of the Resource Scheduling module are

- production planning and order processing in automotive, aerospace, printing, or other industries
- logistics in transportation, such as motor pools, ports and airports
- maintenance of machines and production lines
- human resource and service management



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