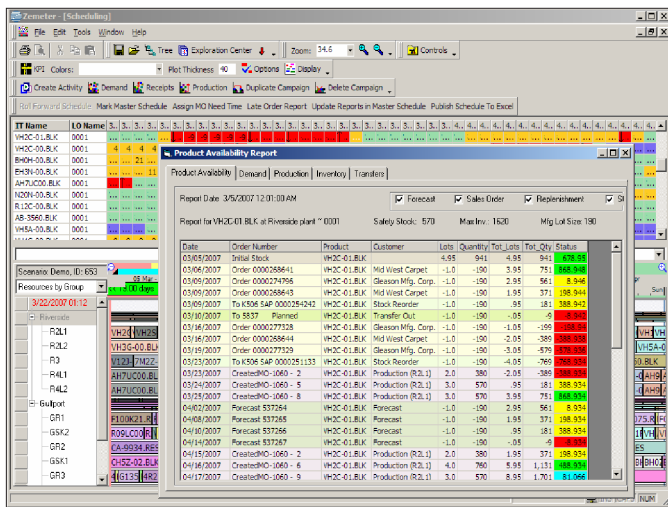


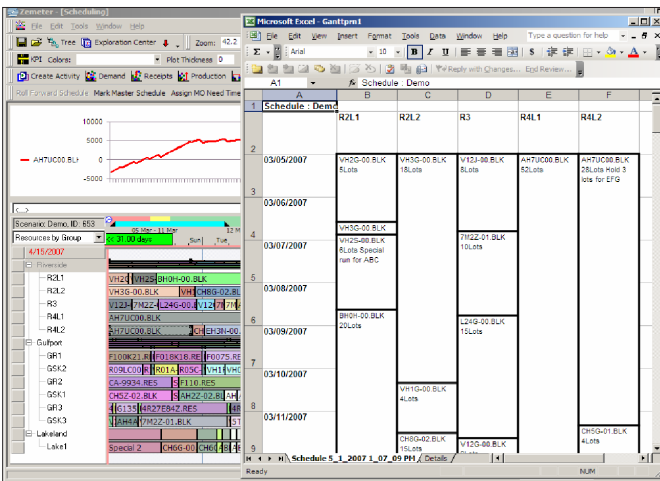
# Zemeter Finite Scheduler



Production scheduling is the last step before resources are committed to production. Zemeter's® Finite Scheduler is fully integrated with supply planning so that business plans can be realistically converted to production batches. The scheduler uses state-of-the-art algorithms to sequence production activities and optimize resource allocation in continuous time.



After identifying a product with inventory availability problems, the detail of all the associated activities can be seen on the screen.



Schedule can be viewed and manipulated in graphical or textual mode and can be generated automatically based on your scheduling criteria. Users can optionally download Gantt Charts to Excel for print or E-mail.

## Key Finite Scheduler Capabilities

- Maintains a continuous-time production schedule
- Synchronizes activities to maintain smooth material flow
- Facilitates the modification of the production schedule to reflect changes in production yield, equipment availability, order acquisition, etc.
- Evaluates the impact of proposed changes in production capability (eg., shutdown, manpower change) before committing
- Provides alerts when transactional data about the production process diverges from the schedule
- Provides schedule visibility to interested parties other than the scheduler, such as the production supervisor or CSR
- Supports both process and discrete manufacturing

## Finite Scheduler Benefits

- Tracking of many products and production activities
- Increased facility utilization from improved flow of materials
- Improved inventory position by better lot-sizing
- Faster and more reliable production scheduling



# Zemeter Finite Scheduler

## Just the beginning

It is one thing to produce a supply plan; it is an entirely different task to create a production schedule. Determining a sequence of jobs on each resource that does not violate any constraints can take hours of intense, frustrating work. And that work, with some luck thrown in, only produces a feasible schedule. Even with lots of scheduling experience – and perhaps some rules of thumb to help the process along – the end result is still far from optimal. With substantial capital invested in expensive manufacturing equipment, why not use it as effectively and efficiently as possible?

What about coming up with a schedule under constantly changing pressures and shifting priorities? What about

responding rapidly to last minute requests from key customers, to material availability problems, or to machine breakdowns? Suddenly those hours and hours spent creating a workable schedule are for naught, and the process must begin again.

business), the schedule can be tweaked to improve it along various dimensions. Of course, manual adjustments can always be performed, either to respond to last minute emergencies, or simply to force certain activities onto the schedule.

## What-if . . .

So what happens when all of the questions come? Can production be increased for some SKU to fill an important order? How would the schedule change if a different resource were used for some activity? What if we stretch this, tweak that, and compress these together? With the what-if capabilities so central to Zemeter, it is easy to answer all of these questions, compare the answers, experiment with more changes, and then revert back to the version of the schedule that balances all of the priorities most effectively.

## Reporting

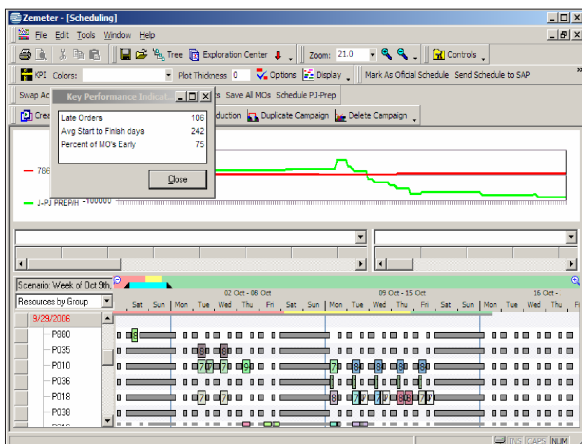
The Zemeter Finite Scheduler also offers the same powerful reporting capabilities you've seen in the other modules. Creating a new report is as easy as making a few selections and pressing a button. Add a graph, export to Excel, or simply save it for later.

## Power, ease of use, and flexibility

The Finite Scheduler, like the rest of the Zemeter suite, is designed for discrete batch or continuous manufacturing operations. This capability makes it ideal for the many companies that, while classified as one type, have aspects of other processes in their operations. With Zemeter you get incredible power, ease of use, and the flexibility to tackle the unique problems your business faces.

## Optimizing

The Zemeter Finite Scheduler interfaces with the Supply Planner to pull in the latest high level plan and begin to schedule it for production. By encoding rates, changeover times, and various constraints within the Finite Scheduler, it is possible to create a good schedule almost immediately. Then by optimizing key performance indicators (customized by you for your



*Evaluate schedule vs. KPIs that have been defined.*