

Start your digitalization journey with advanced planning and scheduling

With global competition, companies must find ways to:

Optimize production operations	Reduce or eliminate setup and waiting time	Balance demand and capacity

Planning and scheduling software uses algorithms to:

Analyze and calculate production schedules	Account for constraints and business rules	Generate and evaluate multiple scenarios

Planning or scheduling?

Planning	Scheduling
<ul style="list-style-type: none"> • What to make • When to make • How much to make • Where to make • Required materials and resources 	<ul style="list-style-type: none"> • How best to make • Sequencing • Synchronization • Priorities, constraints and conflicts • Monitor execution • Manage change
Works days, weeks and months ahead	Works minutes, hours and days ahead

Why a scheduling tool?

No mathematical solution.

- For example, scheduling 10 operations on one resource involves 10! (3,628,800) possible sequence combinations
- Add one more operation and the number increases by 1000%
- At 1,000,000,000 combinations per second, finding the optimal solution for 30 operations would take **8 quadrillion years**

Planning and scheduling solutions are suitable for any industry...

...and for any size company, from SMB to large enterprise

Main benefits of using SIMATIC IT Preactor APS software

Reduced work-in-progress	Improved delivery performance	Reduced inventory
Reduced cycle time	Improved productivity	Rapid ROI

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