



DETAILED PRODUCTION SCHEDULING

KS.IBP ECOSYSTEM

Integrated Planning Solutions





OBJECTIVES

- **Enhance efficiency** of operational production planning
- **Accelerate responsiveness** to scheduling changes



TASKS

- Automated generation of minute-by-minute production schedules
- Automatic calculation of changeovers and retooling
- Interactive production plan management via Gantt charts
- Flexible configuration of plan optimization parameters
- Minimization of unplanned downtime
- Online evaluation of plan KPIs

4 ADVANTAGES AND KEY FEATURES

Use of Advanced Technologies

- Interactive production Gantt chart with wide customization capabilities
- Automatic plan generation using built-in and connectable optimizers

Easy Solution Integration

- Easy embedding into customer infrastructure, with the ability to connect to any existing solutions
- Seamless integration with KS.IBP products

DS

Scalability and Performance

- Solution scalability and consistently high performance with any data volumes
- Support for a large number of users

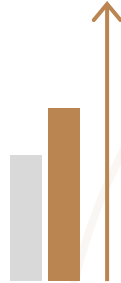
Professional Team

- Certified specialists with extensive project implementation experience
- Verified expertise in configuring calculation models

5 IMPLEMENTATION IMPACT

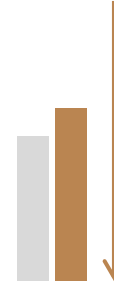
+20–30%

Increased productive time of production lines



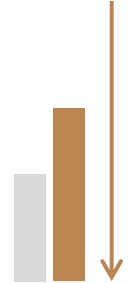
+5–10%

Improved service level



+30–40%

Growth in productivity of planning specialists



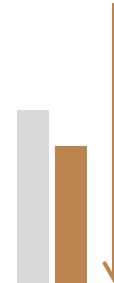
-50–70%

Reduced time for production schedule generation



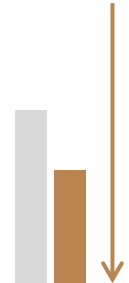
-5–20%

Optimization of resource consumption (energy, raw materials, personnel)



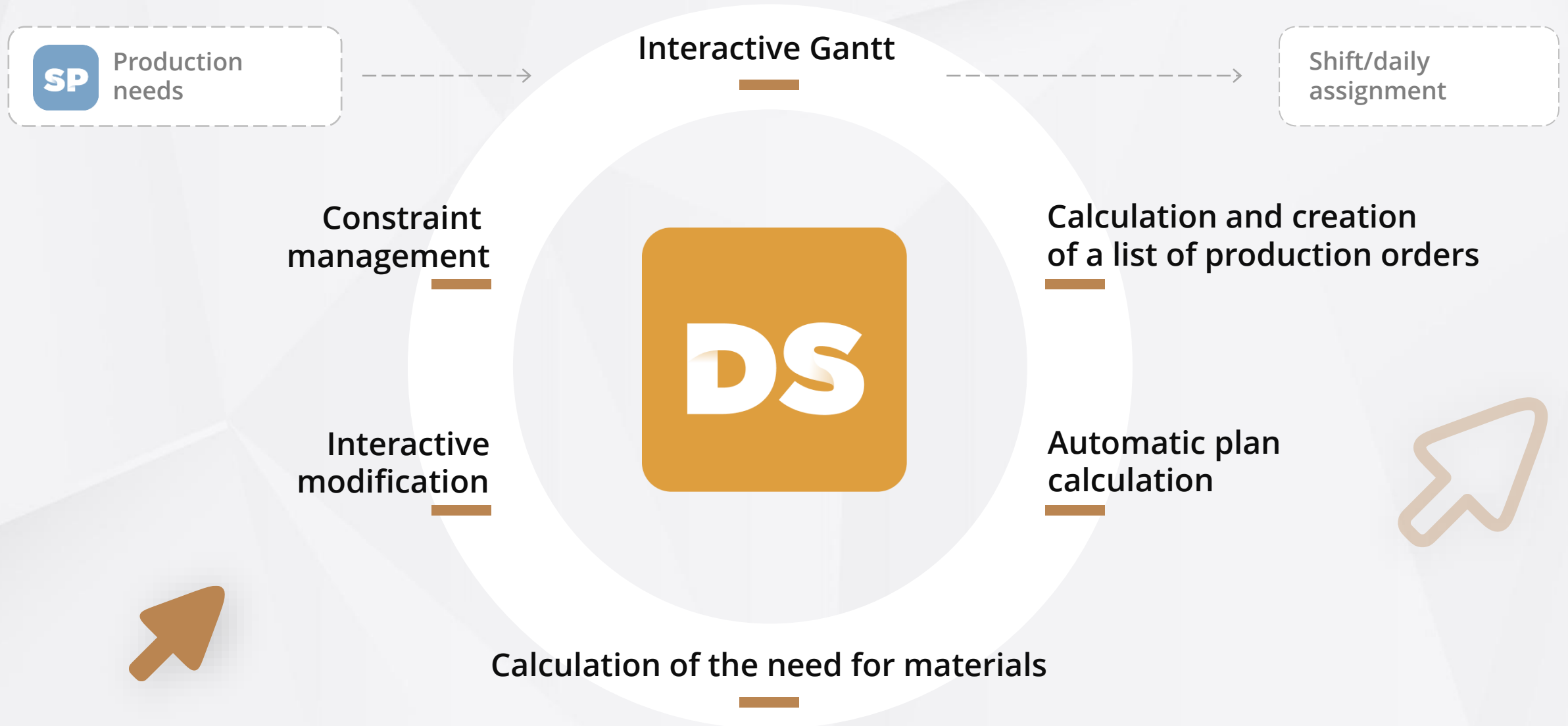
-20–35%

Reduced costs during changeovers

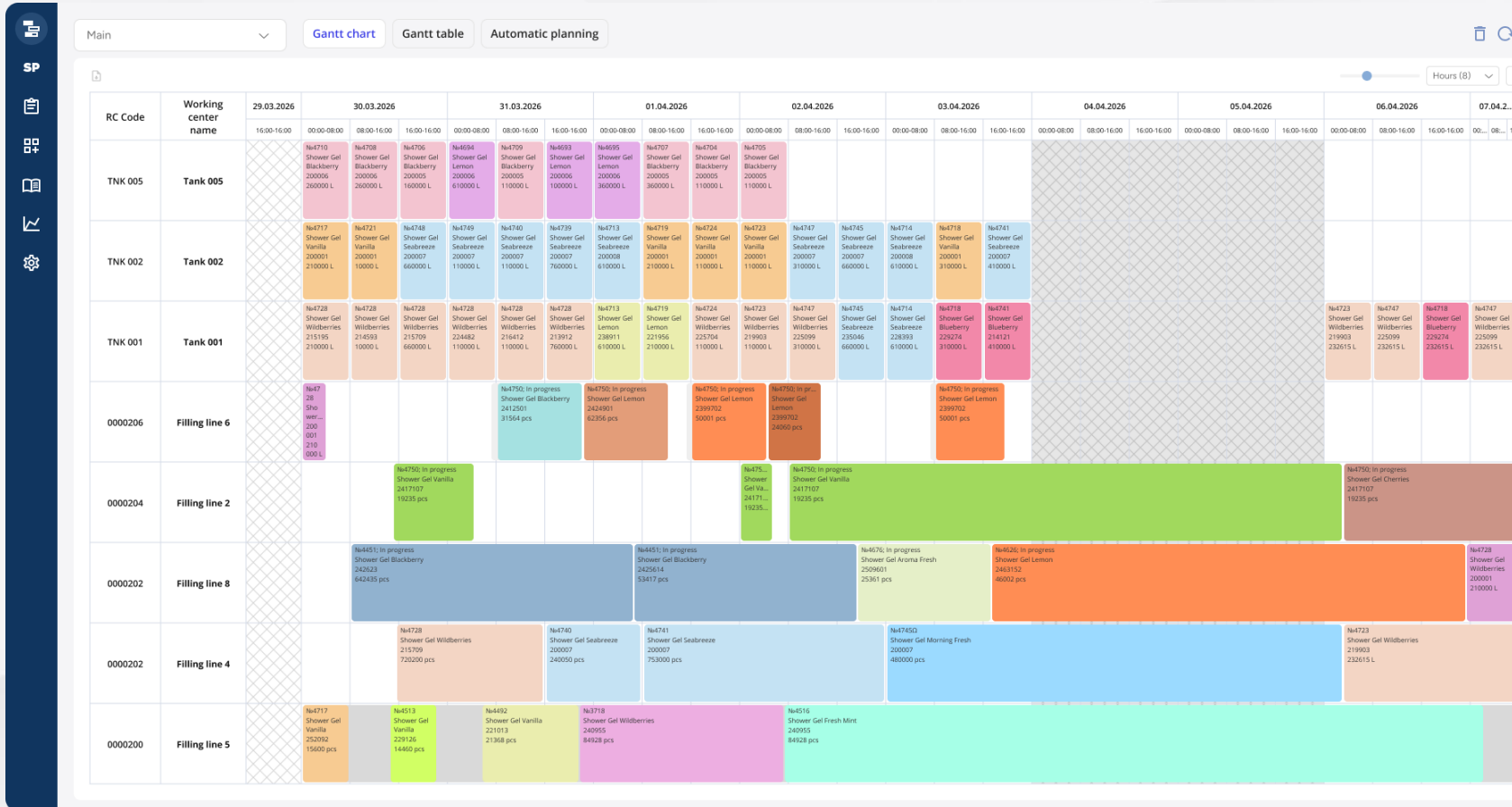


Implementing the DPS system allows a significant reduction in product cost through optimized resource utilization and minimization of overproduction

6 OPERATIONAL PRODUCTION PLANNING



7 FUNCTIONAL MODULES



Description

- Creating production orders based on demand
- Automatic planning: setting parameters and constraints
- Placing orders on a Gantt chart
- Drag and drop within one distribution center or transfer to alternative distribution centers
- Calculating supply of materials and supplies based on planning results
- Online KPI tracking
- Creating and uploading shift-daily assignments
- Processing production results (actual)

Disassembling

- › Disassembling the entire process chain by recipe – from Finished Product to Semi-finished Product and Materials
- › Disassembling only those process stages required for integration with the SP module

Heuristic approaches

- › Configure rules and restrictions for automatic queue generation at the work center
- › Large number of built-in scheduling heuristics
- › Automatic rescheduling when data changes

Constrained planning

- › Accounting for the availability of materials and equipment
- › Accounting for the availability of constraining resources (tooling)
- › Accounting for the expiration dates of materials and equipment
- › Accounting for cleanings (cyclical changeovers)

Rules for constructing a graph

- › Planning direction (from GP to PF, from PF to GP, from bottleneck)
- › Accounting for production parameters
- › DC balancing mode
- › Setting frozen and fixed horizons

DS

Проприетарные
солверы
Open-source
библиотеки



GUROBI
OPTIMIZATION



9 INTERFACE EXAMPLES

DETAILED PRODUCTION SCHEDULING

Избранное

DS DETAILED PRODUCTION SCHEDULING

План SP

DS DETAILED PRODUCTION SCHEDULING

Таблица Ганта

DS DETAILED PRODUCTION SCHEDULING

Справочники

Доступные продукты

SP SUPPLY NETWORK PLANNING

DP DEMAND & PROMO PLANNING

DS DETAILED PRODUCTION SCHEDULING

YM STRATEGIC PLANNING & VALUE MANAGEMENT

FM FINANCIAL PLANNING

IM INVESTMENT MANAGEMENT

Карточка ПЗ

2418801 Гель для душа с ароматом морской брызг 0.5л

04.04.2026 06.05.26 08.55 4685 В работе Нет Нет

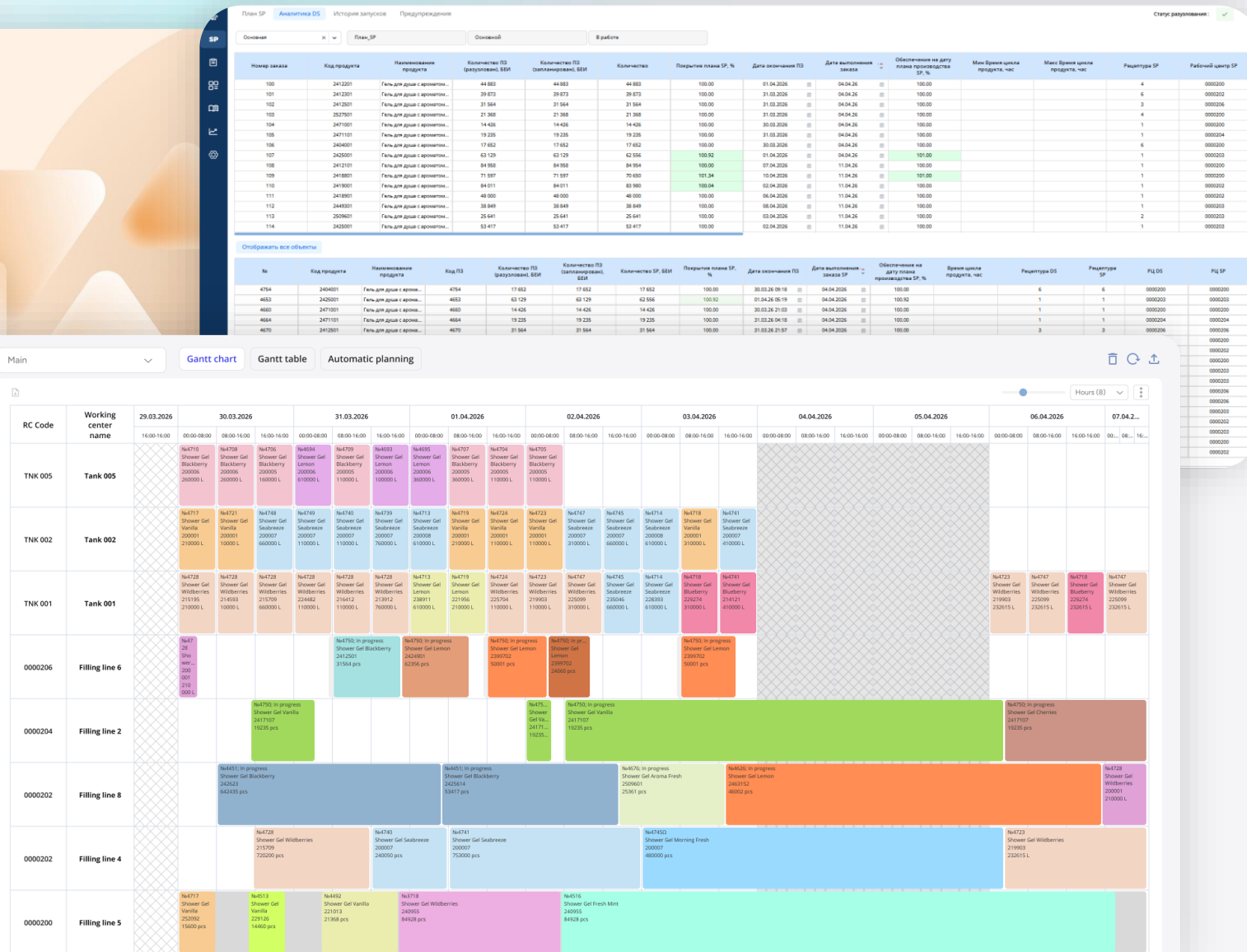
Эффективность ПЗ 100%

Запланирован ул 40 мкс Разулован ул 40 мкс

Параметры ПЗ: Рабочий центр Состав рецептуры Состояние операции Сроки Вторичные ресурсы Предупреждения Передача Комментарий

№	Описание предупреждения
3	Продукционная операция завершена после даты выполнения заказа SP

Закрыть



Thank you!

If you have any questions,
we'll answer them.

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