



# Production Planning Case Study

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Constraint Based Production Scheduling

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# Key Points

- Case study from industry
- Production planning and detailed scheduling
- Based on project with medical devices company in Cork
  - Real problem
  - Realistic data
- Solved in two stages
  - Production planning based on run-out days and safety stock levels
  - Scheduling using our generic scheduling tool

# Summary

- We demonstrated the use of our scheduling tool inside a production planning problem from industry
- Production planning decides which products to make in which quantity
  - Balance stock levels against projected demand
  - Allow for product specific safety stock levels
- Uses estimate of production capacity over planning horizon
- Use detailed scheduling to validate plan