Schubert leverages Siemens seamless solutions to enable new business models

Formnext 2023
How to evolve today's format and spare parts business from conventional to on-demand production?

**Past**

**CONVENTIONAL PRODUCTION**

All format & spare parts were stored & produced at Schubert headquarters and shipped to customers worldwide.

- Long lead & waiting time for customers
- High storage costs for producer

**Today**

**PARTBOX – Additive Manufacturing**

Parts are produced on-demand on customer's site – when needed and where needed.

- Lowest lead times for customers
- No storage cost
- Enhanced sustainability
Schubert
Company introduction

„Schubert as a global leader for packaging machines uses the Partbox to revolutionize the supply chain of spare & format parts with 3D printing”

TLM packaging machines
(TLM – Top Loading Machine)

360° platform for distributed manufacturing
Schubert leverages Siemens seamless solutions to enable new business models

**Challenge**

The cosmetics industry
- needs very flexible packaging machines
- requires new formats have to be available very quickly

**Solution**

Schubert provides digital inventory services via the Partbox leveraging Siemens solutions in order to
- receive CAD data from customers
- design the format parts and create the build job
- send the order to the customer via a digital platform

**Benefits**

- **Lead time**
  10 days → 1 day
- **Process cost**
  up to 100€ savings per order
- **Sustainability**
  up to 87% CO2 eq saving
Printer Design

Challenge
• How to design a 3D-printer in short time based on frequent design iterations?

Solution
• Digital CAD modelling

Value
• Up to 50% reduction in development time
• Up to 60% improvement in productivity

Products and services
• NX Modeling
Order Request

Challenge
• How to quickly order a new format part and provide respective design specifications?

Solution
• Provide one system to organize technical and commercial information and documentation for part buyer & supplier

Value
• Shorten your order-to-manufacture time by up to 40%

Products and services
• AM Network
Geometry & Build Job Creation

Challenge
- How to get from a commercial order into a printable build job?

Solution
- Integrated software workflow to
  - design new format part in NX & create build job via Cura Integration (by Schubert)
  - seamlessly upload to Partbox with NX Open & Partbox API

Value
- One integrated solution from order to design to build job creation
  - Native CAD files → faster design iterations
  - No STL export required → reduced error rate

Products and services
- Siemens NX Additive Manufacturing & NX Open
- Partbox OS API
Order Delivery & Production

Challenge
• How to inform customers about production progress & easily deliver production order?

Solution
• Leverage integrated communication features for updates & to deliver link to Partbox OS
• Part is produced locally on Partbox

Value
• Shorten your order-to-manufacture time by up to 40%
• Reduced lead time, production cost and improved sustainability

Products and services
• AM Network
• Partbox & Partbox OS