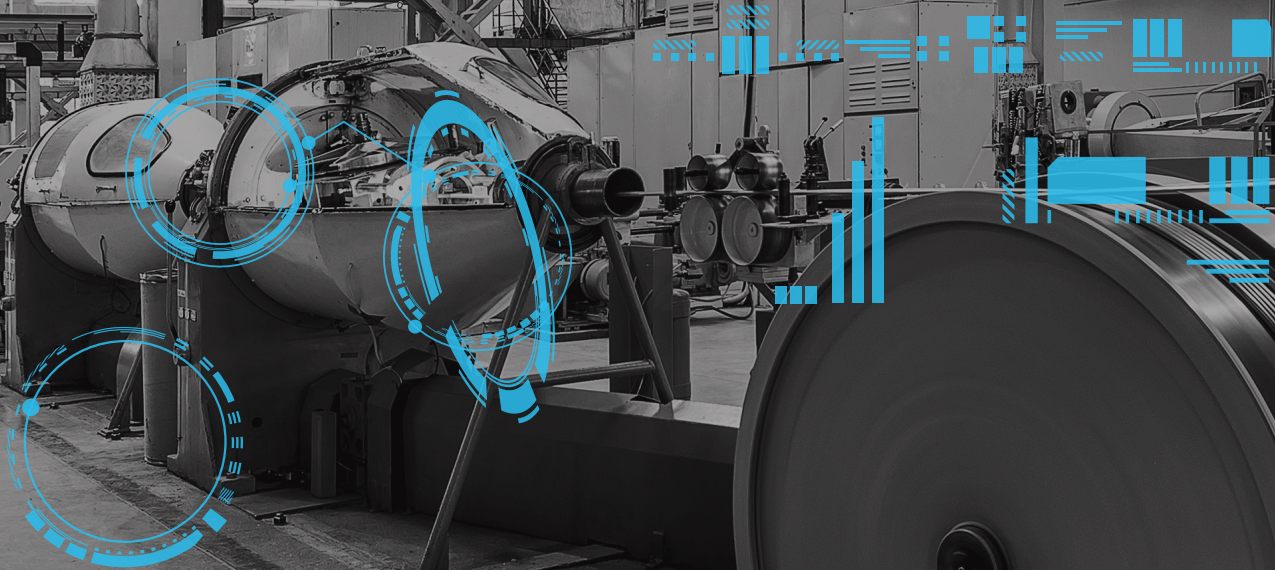# Intelligent enterprise solution for cable&wire

Clobbi

Clobbi Vision

- Digital transformation
- Improved effectiveness
- Business processes optimization instead of just automation
- Measurable economic benefits

Clobbi solutions

We help large and medium-sized Cable&Wire enterprises to adjust processes and improve their management system based on Industry 4.0 ideology:

- **R&D (CableDesigner)**
- **People and equipment integration (Industrial IoT)**
- **Optimal production planning (AI, APS/MES)**
- **Equipment predictive maintenance systems (RCM)**

Solutions for Cable&Wire:

1 **Clobbi. SmartFactory**
(MRP, APS/MES, AI)

2 **Clobbi.CableDesigner**
(R&D, Cost&Price&Quotation)

3 **Clobbi.DigitalTwins**
(IIoT, VR/AR)

4 **Clobbi.CableEAM**
(RCM, Predictive maintenance)

Clobbi.CableDesigner

20 - 50%
Shorter Time-2-Market

Product Design

- Design for all cable and wire rope types
- Virtualization
- Manufacturing BOMs

Process Engineering

- Manufacturing parameters
- Setup & adjustment time
- Equipment usage norms
- Waste & drum usage norms

Price & Quotation

- Cost calculations
- Direct & indirect costs
- Modelling & simulation
- Pricing and margins

Use case

Leading Eastern Europe cable manufacturer with capacity of 100,000 Cu tons/year

5 days ⟶ **5** hours

Customer enquires answered faster

8 700 Methodologies for **160 000** Cable Designs

Less time for product design and process development

20 Min

For mass cable design recalculations

10 Min

for customer design customization

Clobbi.CableDesigner – manage the basis of the future production costs and optimal production planning

Clobbi.SmartFactory

5 - 20%
Increase in output volume

>95%
Customer service level

1 **Optimal production planning (APS, AI)**

- Tailor-made optimization methods
- Leadtime for each batch

2 **Simulation**

- Multiple objectives and constraints
- Production Plan alternatives

3 **Execution (MES, IIoT, Mobility)**

- Workorders for equipment&personnel
- On-line production accounting
- Labeling with QR codes
- Actual production status

4 **Event response (I4.0, APS-online)**

- Events monitoring and control
- Automatic plan rescheduling
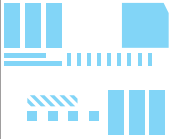- New workorders for execution

5 **Business discovery (BI, KPI)**

- planned vs actual KPIs
- Intelligent decision-making

Use case

Cable manufacturer with 1000 employees,
260 machineries and 600 Customer orders per month

>590
Orders

Ontime and Customer
requirements met

Up to **5** for **24 000**
Minutes   **Workorders**

Optimal production
plan generation

30%

Higher overall equipment
effectiveness (OEE)

17%

Reduction in production
costs (fixed-wastes,
aggregated orders)

Clobbi.SmartFactory - new approaches and technologies
to produce more

LOADING...

Clobbi.DigitalTwins

20 - 30%
Higher OEE

1 **Digital ecosystem (I4.0, IIOT)**

- Clobbi, equipment and people integration

2 **Virtualization (AR\VR)**

- 3D shop-floor models
- Simulation and modelling

3 **Intelligent production**

- Live production process
- Combine real-time actual and planned data

4 **Monitor, alert and report**

- Equipment operation
- Manufacturing parameters
- Technological process quality
- Real-time performance rate
- Customer order execution

5 **BigData processing and analysis (AI,BI)**

- Ways to improve production process and technology
- Actual vs planned KPIs
- Intelligent decision-making

Use case

Cable manufacturer with 2500 employees,
870 production lines

Pilot project superior results:

10

IIoT connected bottleneck
machines

↓**12%**

Less production rejects

↓**0.3%**

Decreased material
consumption

17%

Downtime reduction

↑**5%**

higher extrusion line speed

Clobbi.DigitalTwins - Improve quality, increase transparency and
make virtualization of production

Clobbi.CableEAM

30 - 50%
Less machine downtime

10 - 40%
Maintanence cost reduction

1 **Industrial Internet of Things (IIoT)**

- Equipment Connection
- Visualization
- Virtualization
- Predictive Maintenance (PdM)

2 **Field Service Management (FSM)**

- Self-Service Management
- Warranty & Claims Management
- Supply Management
- Service Engineers Management
- Request Management Center

3 **Key add-ons**

- Real-time equipment monitoring
- DWH and BI
- BigData processing and analysis
- Multifunctional dashboard

4 **RCM Enterprise Asset Management**

- Reliability Centered Maintenance standard
- Equipment Data Management
- Inspection Scheduling
- Maintenance Scheduling
- Predictive maintenance

Use case

Cable manufacturer with 250 equipment lines
(during first 4 months)

40 000
Digitalized units and
assemblies

200
Methodologies

For equipment
diagnostics and preventive
maintenance

2000
Staff complaints processed

1000
probable failures prevented

Clobbi.CableEAM contains out-of-the-box predictive
maintenance methodologies for the most popular Cable&Wire
equipment Vendors

5 to 20%

Output Volume
Increase

30 to 50%

Less Total Machine
DownTime

20 to 30%

Higher overall equipment
efficiency (OEE)

10 to 40%

Reduction of
maintenance costs

20 to 50%

Shorter time-to-market

95%

Customer Service Level
Increase

ISO 9001:2015
BUREAU VERITAS
Certification

BUREAU VERITAS
1828

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