BIBM CONGRESS 2023

STAY LEAN & BE RESILIENT WITH NEWGEN UNICAM
IN THE PRODUCTION PROCESS OF PRECAST CONCRETE ELEMENTS

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Unitechnik with > 50 years of expertise in logistics and production:

- Automation
- Material flow and master computer technologies
- Electrical Cabinet Production

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CHALLENGES AND DIFFICULTIES

Green !

Digital !

Resilient!

Operational Resilience

AGILE

Valid!
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RESILIENCE – THE POWER TO OVERCOME DIFFICULTIES AND CHALLENGES

No News – Well-known Challenges

- permanent lack of know-how (high staff turnover)
- production cost increases (energy, personnel, construction)
- market fluctuations
- increasing product requirements in terms of quality and composition (green)
- target for technology improvements (speed vs. operational capability)

Becoming resilient?

Become and stay lean!

Make permanent improvements...
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THE RESPONSE: BECOME AND STAY LEAN!

In the highly automated precast concrete production process:

Lean Management empowers the right steps at the right time. KAIZEN calls for small steps to raise productivity.

Customer’s journey with UniCAM KAIZEN:

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<td>Upright concreting for narrow bars</td>
<td>Extended detection of machine malfuntions</td>
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<td>Optimization of manual occupancy</td>
<td>Integration LAP interface</td>
<td>Half shutter concreting</td>
<td>Easy Storage for loading yard</td>
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<td>Support of MS-SQL Server</td>
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✓ Customer added value
✓ Process efficiency
✓ Adaptability
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STATUS QUO UNITECHNIK

Status of master computer development UniCAM.23
✓ Improved shuttering algorithm
✓ Optimised energy management
✓ Digitalised fault detection and troubleshooting (Quality Control Tools)
✓ Improved concreting algorithm (reduction of post-concreting)
✓ dashboards & tools to increase availability and factory output
✓ simplification of operation and display optimisation

"Knowhow-independent" workplaces & suitable working conditions
✓ Use of automation and robotics
✓ Visualization of work steps
✓ Software-supported training
✓ Automatic recognition of errors
✓ Use of technology (AR, VR, gamification, Big Data, AI)
✓ Simplification, standardisation, robustness

Software and technology will play a key role in dealing with current and future challenges!
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UPDATES FOR TECHNOLOGY, INNOVATION & EFFICIENT SERVICES

An approach of UniCAM
Continuous improvement of the production process

The UniCAM full service package with permanent updates
✓ Latest technology
✓ Adaptable and comprehensive function package
✓ Interface optimization & fast integration of new technologies
✓ Maintained software with continuous productivity increase
✓ Stable and scalable costs
✓ Lifetime partnership
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IN THE PRODUCTION PROCESS OF PRECAST CONCRETE ELEMENTS

With the decisive piece of the puzzle into the common future

Industry Experience  Customer Success  Permanent Updates  Optimized Services  Moving forward together