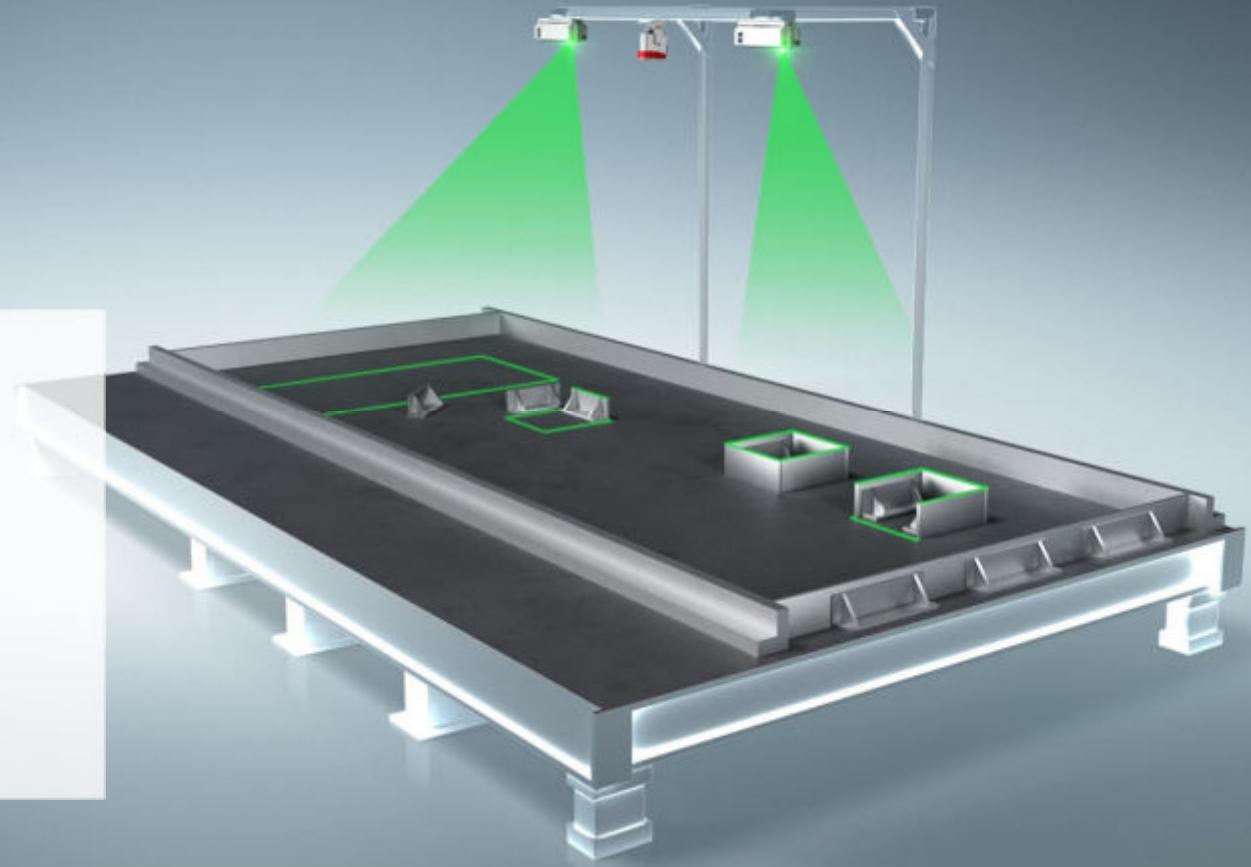




Boost quality and reduce cost: Benefits and new options of laser projection systems

Max Mandt-Merck / 28.09.2023



Challenges in precast element production

- Sourcing qualified staff
- Market
- Cost pressure
- Quality requirements
- Documentation

- → Pressure to speed up
- → Pressure to increase efficiency
- → Simplify production processes



Who and where we are



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PRO-SOFT

The right software to match your needs



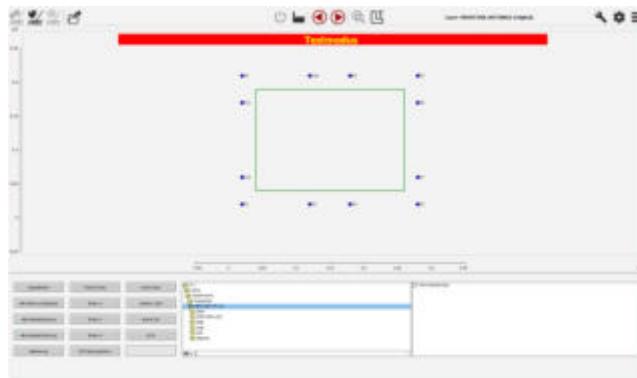
PRO-SOFT UT

Supported file formats:

- Unitechnik 4.0 – 7.0
- UXML

Compatibility with all major master computer systems:

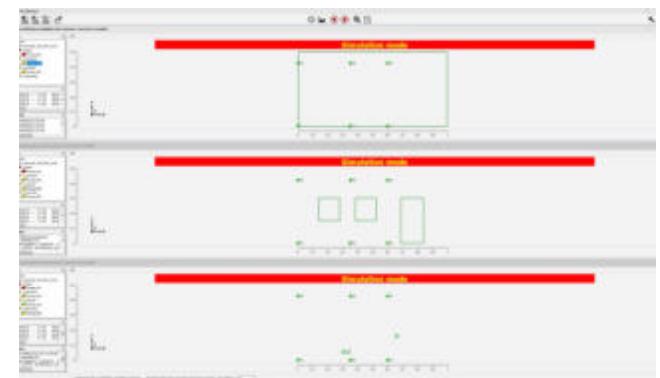
Unitechnik, RIB SAA, Progress, ...



PRO-SOFT TP

Supported file formats:

- DXF
- HPGL
- further Plot- or file formats upon request



PRO-SOFT MT

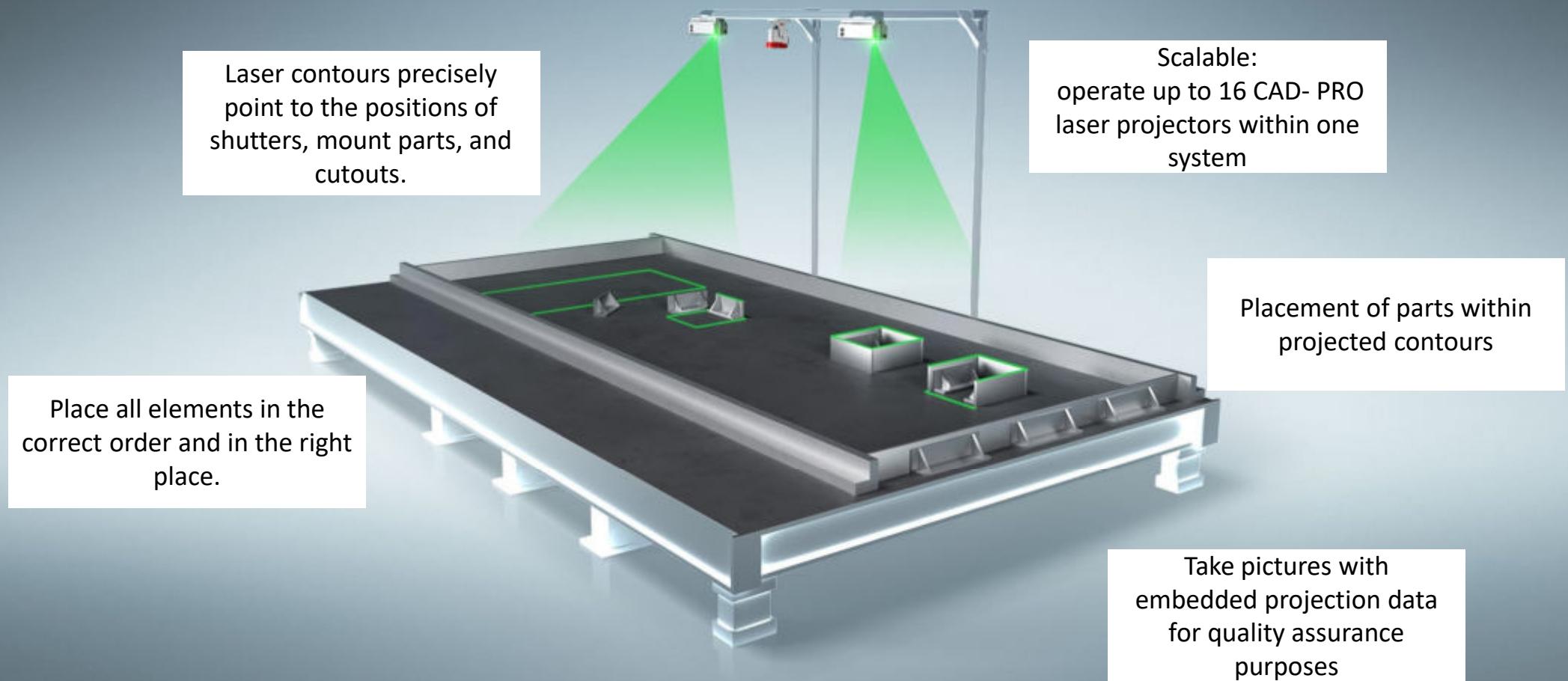
Supported file formats:

- DXF
- HPGL
- Unitechnik / UXML
- further formats on request



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CAD-PRO laser projection systems by LAP



Groothuisbouw, NL



WATCH ON
YOUTUBE
www.youtube.com/@laplaser



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All production types

- Carousel plants
- Fixed/tilting tables or decks
- Double walls
- Ceiling elements
- Massive and sandwich walls
- Special parts
 - Support beams, stairs, balconies
 - ...and more...



Benefits and Options

- Project outlines and contours, symbols
- Remote control workflows
- No PC-access required*
- Compatible with all precast element types
- NEW: camera pictures with embed projection

*depending on production type and process



Benefits and Options

■ → Speed up production

■ check

■ → Increase efficiency

■ check

■ → Simplify production processes

■ check

■ → Increase precision / quality



DTEC-PRO

Quality assurance at the touch of a button



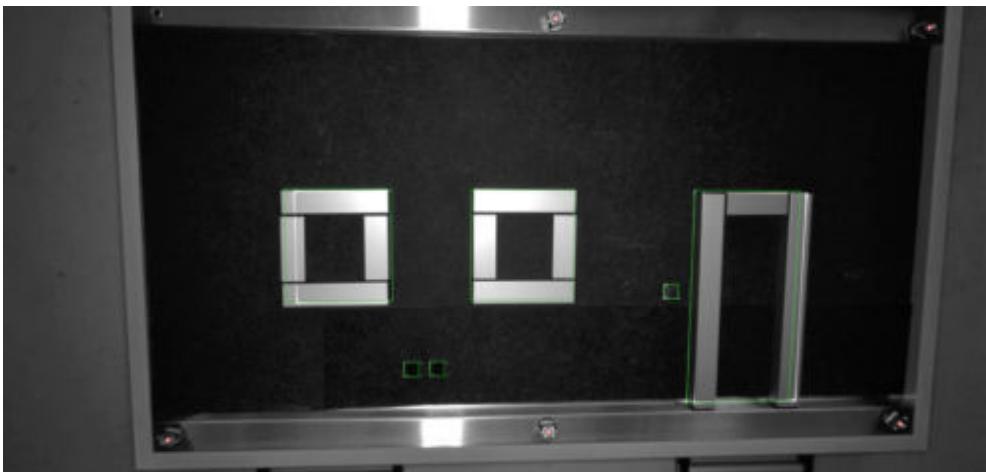
- High-contrast black & white pictures
- Projected contours embedded
- Trigger pictures by remote control
- Data base link available for saving of pictures



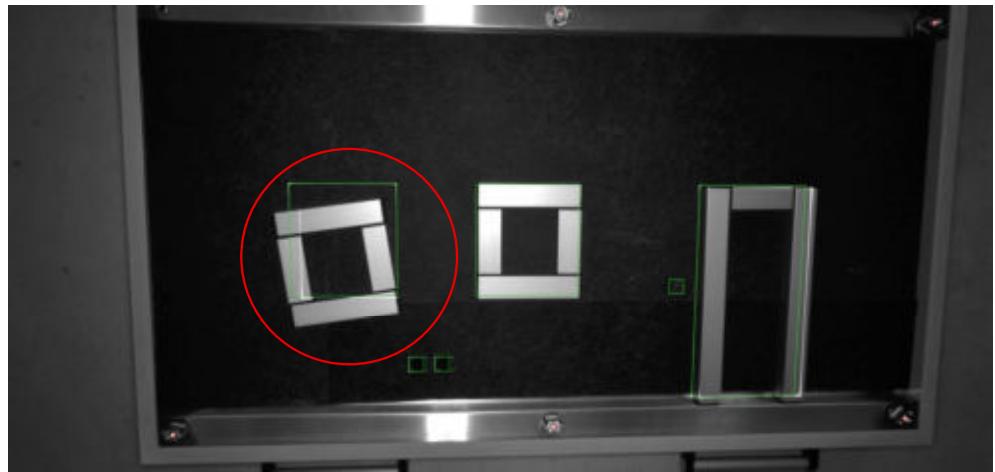
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DTEC-PRO

Setup control by camera



■ Control form setup prior to pouring the concrete



■ Identify errors



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Benefits and Options

■ → Speed up production

■ check

■ → Increase efficiency

■ check

■ → Simplify production processes

■ check

■ → Increase precision / quality

■ **NEW:** documented



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Thank you very much for your attention!

MORE INFO HERE:

<https://www.lap-laser.com/industry/concrete>

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