



Alto ERP

ADVANCING LEADERS THROUGH
OPTIMIZATION

Alto ERP introductory presentation

2019/2020



Alto ERP

STEEL



Alto ERP

CONSTRUCTION



Alto ERP

FACADE



Alto ERP

PREFAB



Alto ERP

ADVANCING LEADERS THROUGH
OPTIMIZATION

Industry background Development capabilities

Proud member of the UPB Group

UPB is an industrial group of companies, whose core business is complex building construction, including the design, production and assembly of structures.

The group incorporates glass, steel and concrete structure production units, a cogeneration station production unit and a mechanical engineering production unit.

MAIN INFORMATION



ENGINEERING | PRODUCTION | DELIVERY | CONSTRUCTION | SERVICE

**190 MILLION
EURO**
CONSOLIDATED TURNOVER 2018

1700+ EMPLOYEES

**IN 10
COUNTRIES**
ENTERPRISES

**62 000m²
PRODUCTION AREA**



ACHIEVEMENTS



INDUSTRY 4.0

PRODUCTS

BIM ERP SYSTEMS
SMART FACTORY/
RETROFIT SOLUTIONS
TEKLA PLUGINS

30%
INCREASE
IN CAPACITY
by implementing
automation
solutions

**DIGITALISATION SOLUTIONS IN UPB
GROUP'S FACTORIES AND STOREHOUSES**

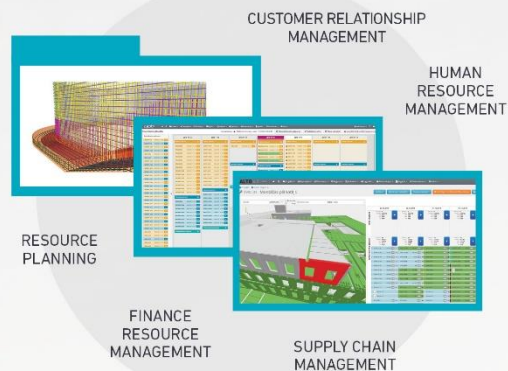


full in-house development team

ALTO 4.0

DIGITAL EXPERTISE AND SOLUTIONS

BIM ERP



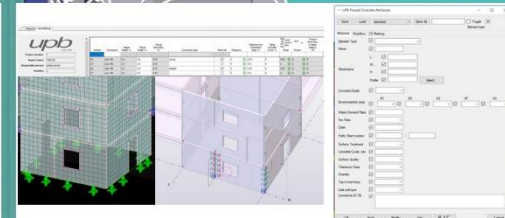
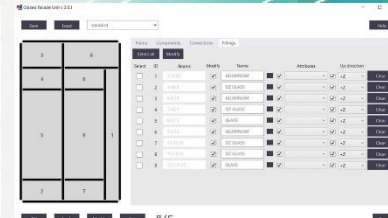
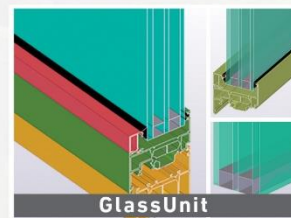
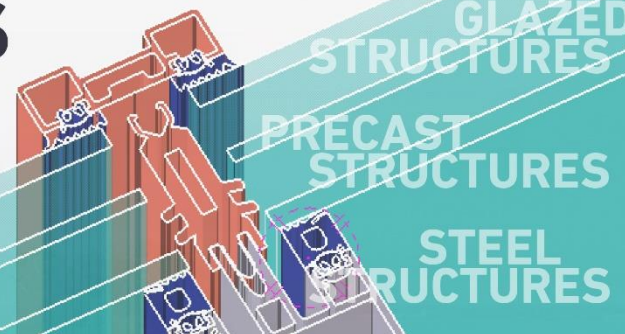
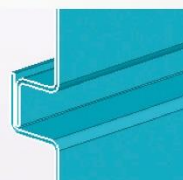
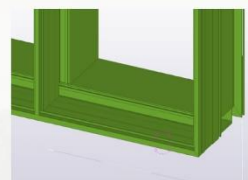
ALTO 4.0 ERP is a full cycle business process management system designed for construction industry through combination **digital capabilities** and **deep industry knowledge**

SMART FACTORY



TEKLA PLUGINS

ALTO 4.0 has developed a set of tools that covers the workflow on modeling in TEKLA Structures.





Alto ERP

ADVANCING LEADERS THROUGH
OPTIMIZATION

ALTO 4.0

Alto 4.0, Alto Construction ERP and Alto Exchange

ALTO 4.0 is a digital expertise and solutions provider that specialises in the development of BIM business management systems and smart factory solutions for the construction industry.



Alto ERP

Alto ERP is a group of ERP systems built for the construction industry, designed to improve business performance through streamlined business process execution, effective information exchange and fact-based decision making.



Alto ERP

CONSTRUCTION

Alto Construction ERP is a multi-structure supporting BIM/CAD integrated ERP system for general contractors with/without internal production capacity.



Alto Exchange

Alto Exchange is BIM/CAD data exchange platform designed to improve project execution through effective information exchange between general contractors and suppliers.



Alto ERP

ADVANCING LEADERS THROUGH
OPTIMIZATION

BIM integrated ERP Systems



Alto ERP

BIM/CAD integrated ERP System for project-based precast, steel and facade manufacturers designed to improve business performance through:

- ✓ Streamlined business process execution,
- ✓ Effective information exchange; and
- ✓ Fact-based decision making





Oversee everything, anywhere, anytime

- ✓ Web-based system
- ✓ Seamless, full cycle business unit connectivity
- ✓ Complete progress status info for all business units

Be agile, enjoy clarity and focus only on adding value

- ✓ Process automation
- ✓ Real time progress information
- ✓ Modularization, customization and integration possibilities
- ✓ Industry-specific focus

Position your company for growth

- ✓ Improve business performance
- ✓ Reduce manual work
- ✓ Effective communication, fact-based decision making and higher value to your customers



SCHÜCO

ORACLE[®]
BUSINESS INTELLIGENCE

Microsoft
Dynamics AX

MEP[®]

SIEMENS

WICONA[®]

Tekla[®]
Structures

Technical infrastructure





Alto ERP

ADVANCING LEADERS THROUGH
OPTIMIZATION

ERP module functionality and benefits



Sales

- Document and track sales proposals
- Analyze, improve and repeat your best sales practices
- Configurable product/service/pricing options
- Track your sales-team performance
- Create/update/print cost estimations with ease

Alto ERP PREFAB

Inquiries

Search Export to XLS Add

All 26 Submitted Active Inactive Received Future

| Project name | Status | Stage | Client | Deadline |
|---------------------------------|------------|--------------|----------------------|------------|
| ACROPOLIS | Won | Real project | Construction France | 12.03.2019 |
| ALFA shopping center | Won | Real project | Deutsche build | 01.05.2019 |
| ALTO DEMO | Won | Tender | Construction Sverige | 27.02.2020 |
| ALTO project | Won | | | |
| Amazing Garages | Submitted | | | |
| Apartements Oslo | In process | | | |
| Berlin International Highschool | Declined | | | |
| Berlin Shopping Mall | Won | | | |
| Concrete production warehouse | Lost | | | |
| Daily Museum | In process | | | |
| DK Mercedes Benz Dealers | Won | | | |
| FC Arsenal Sports Hub | Won | | | |
| Frankfurt AUTO | Future | | | |

ALTO DEMO

GENERAL INQUIRY INFORMATION

NAME: 05-10-14-D
STATUS: Won
STAGE: Tender
COMPANY: ALTO Prefab
CONSTRUCTION TYPE: Apartments
BUILDING TYPE: Apartments
POTENTIAL PROJECT GROUP: A
DATE OF RECORD: 28.02.2019
COUNTRY: Construction Sverige
CLIENT CONTACT: Larsen Berg
SELLER: Doe John
ESTIMATOR: Doe John
SUPERVISING ENGINEER: Mark Kite
DEADLINE: 27.02.2020
ESTIMATED PRICE: 100 000.00
ESTIMATED PRICE: A
RELATED PARTS: ALTO Prefab, ALTO Steel

PROJECT GENERAL INFORMATION

PROJECT NAME: ALTO DEMO
ENVIRONMENT REQUIREMENT: BREAM - Outstanding
COUNTRY: Sweden
REAL ADDRESS: Stockholm street 2, Stockholm, Sweden

PROJECT DEADLINES

START DATE: 2019-02-01
END DATE: 2019-11-01
DESIGN START DATE: 2019-02-01
PRODUCTION START DATE: 2019-02-11
PRODUCTION END DATE: 2019-10-10
ASSEMBLY START DATE: 2019-02-18
ASSEMBLY END DATE: 2019-10-25

PLANNED PROJECT AMOUNTS

| Element type | Estimated |
|---------------|-----------|
| Column | 32.0 m3 |
| Rolled | 3.51 |
| Sandwich wall | 140.0 m2 |
| Welded | 4.11 |
| HCS | 250.0 m2 |

Planned trucks

TP123

GENERAL INFORMATION

TP123
STATUS: Won
STAGE: Tender
COMPANY: ALTO Prefab
CONSTRUCTION TYPE: Apartments
BUILDING TYPE: Apartments
POTENTIAL PROJECT GROUP: A
DATE OF RECORD: 28.02.2019
COUNTRY: Construction Sverige
CLIENT CONTACT: Larsen Berg
SELLER: Doe John
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EXCHANGE RATE

SUMMARY

| Total cost | Total markup | Total reserve | Total markup + reserve |
|-----------------|--------------|---------------|------------------------|
| 73 700.00 | 7 270.00 | 2 911.00 | 10 381.00 |
| Profitability % | 5.0% | 3.6% | 12.2% |
| Markup % | 10.0% | 4.0% | 14.0% |

COST ESTIMATION TABLE

| No. | Description | K | Unit | Quantity | Unit price | Markup (%) | Unit price without markup | Total markup | Total actual cost | Total without VAT |
|-----|--------------|----|------|-----------|------------|------------|---------------------------|--------------|-------------------|-------------------|
| 1 | Sand walls | m2 | 140 | 42 000.00 | 10.00 | 47 800.00 | 580.00 | 5 880.00 | 6 700.00 | 6 700.00 |
| 2 | HCS | m2 | 250 | 80 000.00 | 10.00 | 87 500.00 | 7 500.00 | 7 500.00 | 9 500.00 | 9 500.00 |
| 3 | Columns | m3 | 32 | 80 000.00 | 10.00 | 101 400.00 | 20 400.00 | 2 040.00 | 3 240.00 | 3 240.00 |
| | Total | | | | | | 1 541.00 | 10 470.00 | 12 040.00 | 12 040.00 |



SALES AND OPTIMISATION



PROJECT ENGINEERING



PRODUCTION



DELIVERY



ASSEMBLY



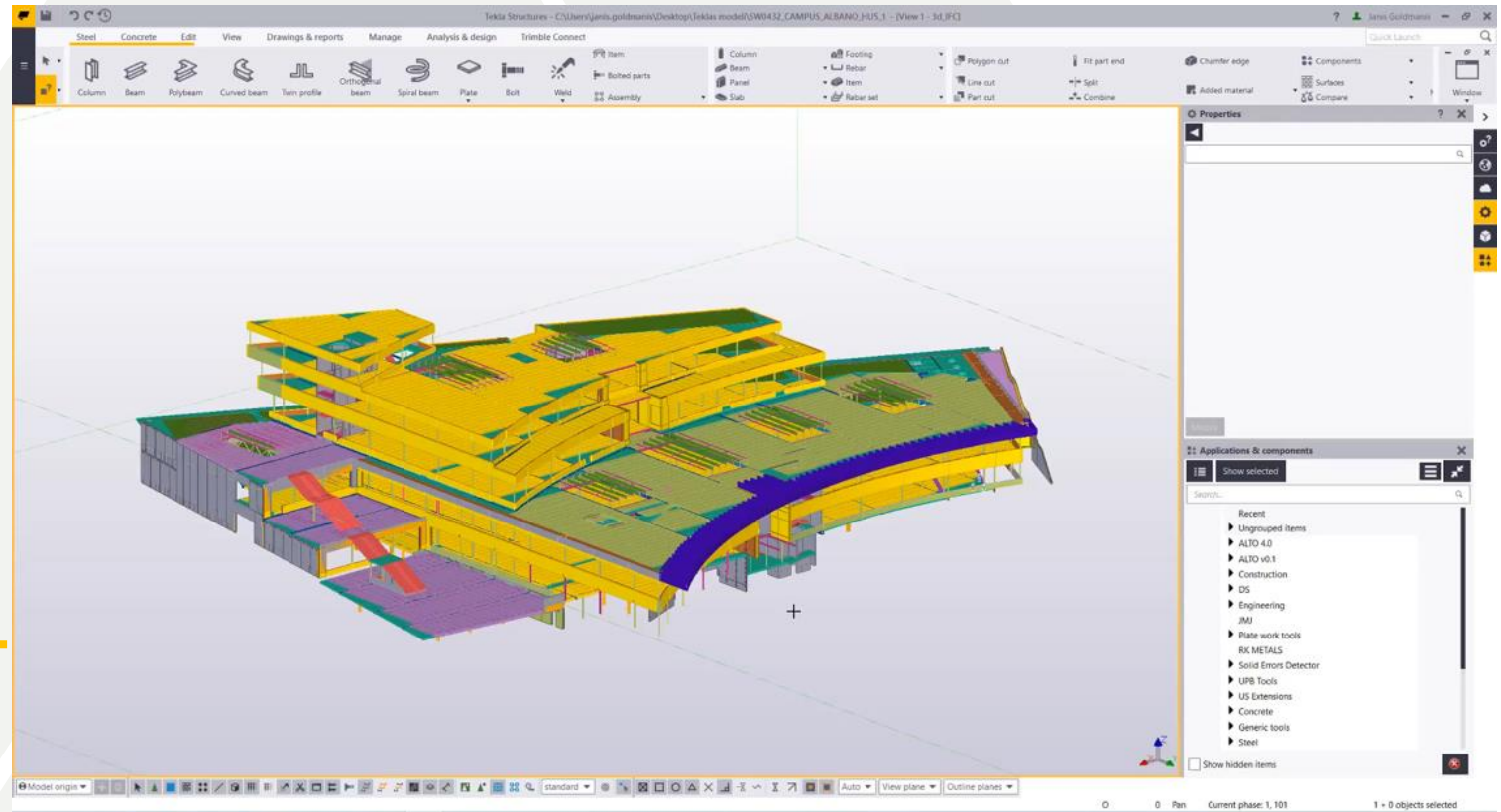
SERVICE



Engineering (before upload)

- Easy element information upload from:

- ✓ Designing software (auto-sync with Tekla Structures)
- ✓ Excel (.csv format)





SALES AND OPTIMISATION



PROJECT ENGINEERING



PRODUCTION



DELIVERY



ASSEMBLY



SERVICE



Engineering (uploaded)

- Track and plan according to element status
 - ✓ Color-coded element life-cycle and manufacturing status
- Access relevant element information
 - ✓ Dimensions, drawings, detail lists, etc.
 - ✓ Revisions
- Supports:
 - ✓ LOD 400
 - ✓ Outsourced engineering

The screenshot displays the Alto ERP Prefab software interface. At the top, the navigation bar includes the Alto ERP logo and various icons for project management. The main header shows the project name "ALT004 : Concrete (ALTO Prefab)" and a status update "ALT004 : Elements (updated at 18.03.2019 16:35)". Below this, a filter bar allows users to select different element statuses: All 496, V 68, C 0, D 228, S 0, W 127, ST 10, KL 10, MP 33, F 0, BP 20. A summary bar indicates the element count: 496, with sub-statuses: Designed 496, Ready for production 0, Manufactured 274, Delivered 234, Installed 224, and Defective 0.

The main table lists elements with columns for Status, Element, Man. dim.(H/L/W), Weight (t), Volume (m³), Planned manufacture date, Last uploaded at, Manufacturer, and Delivery number. The table is color-coded by status: green for "Designed", blue for "Ready for production", purple for "Manufactured", and red for "Delivered".

Below the table, a detailed view for element "MBVT-7001" is shown. This view includes a "GENERAL INFORMATION" section with fields for Name, Description, and Status. It also features a "MANUFACTURE DETAILS" section with fields for Material, Weight, and Volume. A "DETAILS" section at the bottom provides a table of material requirements.

| Detail type | Name | Amount | Material | Weight | Class | Delivery note | Detail order | Ready for loading |
|-------------------------|--------|--------|----------|---------|----------|---------------|--------------|-------------------|
| Standard incast details | 800000 | 2 pcs | ST500 | 5.9 kg | 4. class | | | |
| Standard incast details | 250.20 | 4 pcs | PERNO | 0.73 kg | 4. class | | | |
| Standard incast details | 200 | 6 pcs | PERNO | 0.2 kg | 4. class | | | |

On the right side of the interface, there is a "Comments" section with a text input field and a "Save" button. Below this, a "Drawings" section displays a technical drawing of the element, showing its dimensions and internal structure.



SALES AND OPTIMISATION



PROJECT ENGINEERING



PRODUCTION



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ASSEMBLY



SERVICE



Supply warehouse

- Access real-time information about:

- ✓ Raw material warehouse stocks,
- ✓ Orders and their progress statuses

- Easily:

- ✓ Generate necessary detail orders for manufacturing
- ✓ Register incoming order from other modules
- ✓ Plan packing lists

Alto ERP PREFAB

ALT004: Concrete (ALTO Prefab) : De

Warehouse Elements (496) Search Details options

Element: MBV-8002

Ordered details

Order deadline *: DD.MM.YYYY

Department:

Product:

Comment:

Save Cancel

December 2019

| # | Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|----|
| 48 | 25 | 26 | 27 | 28 | 29 | 30 | 1 |
| 49 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 50 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 51 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 52 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 1 | 30 | 31 | 1 | 2 | 3 | 4 | 5 |

Planned manufacture date: 02.12.2019

Planned installation date: 16.12.2019

| Name | Total amount | Total weight |
|----------|--------------|--------------|
| 1 1 VP20 | 1 | 0.12 |
| 2 2 VP20 | 2 | 0.14 |
| 1 1 VP20 | 1 | 0.03 |
| 2 2 VP20 | 2 | 0.04 |

Ordered details

| Name | Total weight | Delivery | Material | Detail type | Planned installation date |
|-----------------------|--------------|----------|-------------------------|-------------|---------------------------|
| 1 1 VP20 (1) | 0.12 | PVC | Standard incast details | 16.12.2019 | |
| 1 2 VP20 (2) | 0.14 | PVC | Standard incast details | 16.12.2019 | |
| 1 1 VP20 (1) | 0.03 | PVC | Standard incast details | 16.12.2019 | |
| 2 2 VP20 (2) | 0.04 | PVC | Standard incast details | 16.12.2019 | |
| 4 4 VP20 (4) | 0.0 | PVC | Standard incast details | 16.12.2019 | |
| 1 1 NEOPRENS 3*30 (1) | 0.55 | Neoprene | Standard incast details | 16.12.2019 | |
| 1 1 NEOPRENS 3*30 (1) | 0.02 | Neoprene | Standard incast details | 16.12.2019 | |

Drawing list: ALT004: Concrete (ALTO Prefab) : Order number 26

Attachments: Drop file or press here

Upload





SALES AND OPTIMISATION



PROJECT ENGINEERING



PRODUCTION



DELIVERY



ASSEMBLY



SERVICE



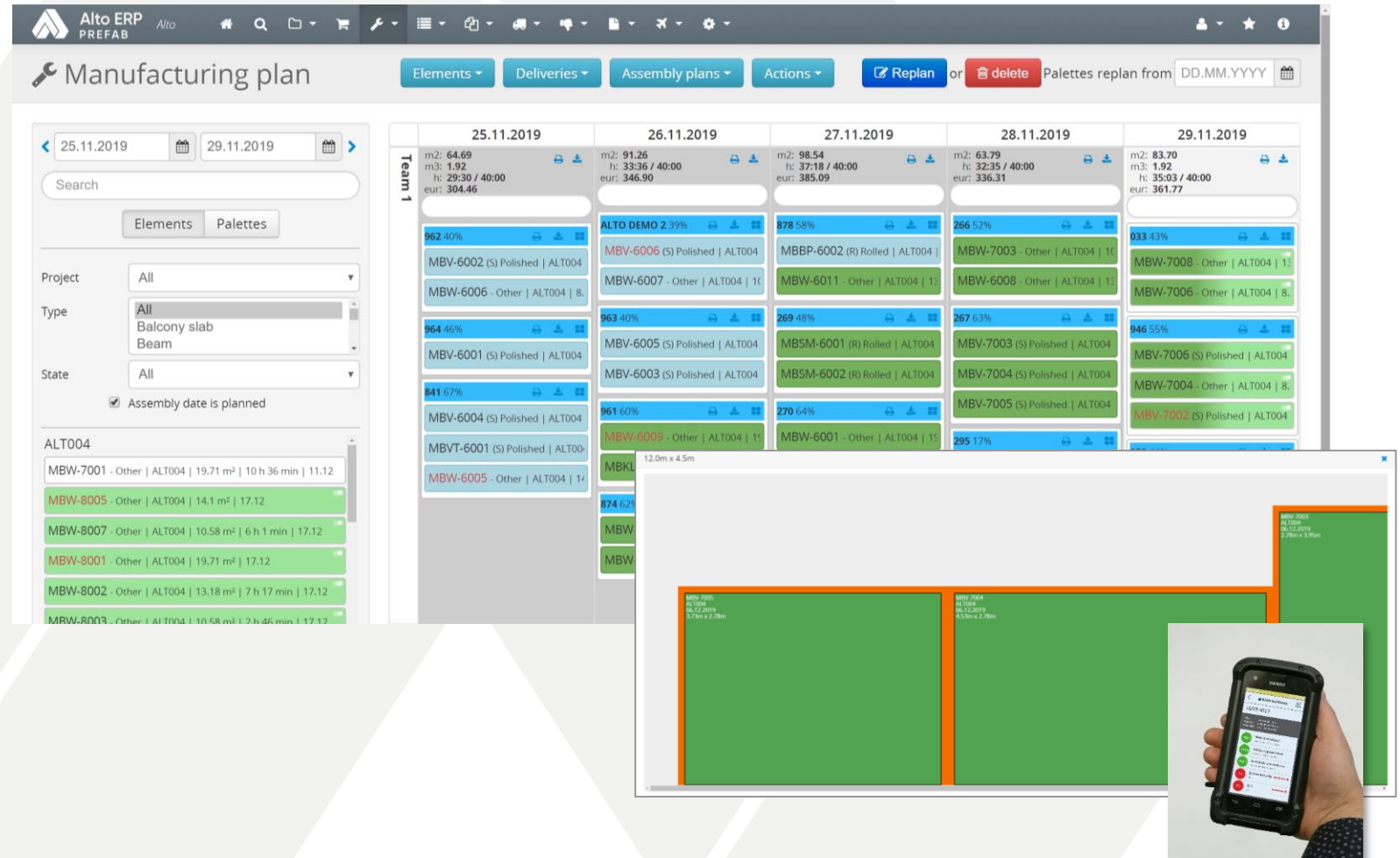
Manufacturing

- Access information about :

- ✓ element life-cycle statuses
- ✓ element drawings, CE marking, detail lists etc.
- ✓ Element parts orders/statuses from external partners
- ✓ production capacity based on estimations, and available resources

- Automatic:

- ✓ element production time estimation
- ✓ production planner and pallet optimizer
- ✓ (configurable) automatic worker pay generation
- ✓ Sync with Tekla Structures, MS Dynamics AX, Oracle BI





SALES AND OPTIMISATION



PROJECT ENGINEERING



PRODUCTION



DELIVERY



ASSEMBLY



SERVICE



Delivery

- Automatic:
 - ✓ Delivery order aggregation from other Alto ERP modules
 - ✓ Transport order form generation
 - ✓ Report generation
 - ✓ Warehouse sync
 - ✓ Sync with Tekla Structures, MS Dynamics AX
- Combine multiple shipping/freight options
- Delivery phase support
- Plan, create and track:
 - ✓ Packing lists
 - ✓ Order statuses

Shipment List:

| Project name | Delivery | Manufacturer | Weight (t) | Ready for loading | Unload at | Description |
|--------------|-----------|--------------|------------|-------------------|------------------|---------------------------------|
| ALTO DEMO | ALT004-59 | ALTO Prefab | 6.06 | 28.11.2019 15:53 | 05.12.2019 08:00 | D. H - 1200, W - 291, L - 6595. |
| ALTO project | ALT01-66 | ALTO Prefab | 0.0 | 24.12.2018 08:00 | 31.12.2018 08:00 | Cancelled |
| ALTO project | ALT01-58 | | | | | |
| ALTO project | ALT01-2 | | | | | |
| ALTO project | ALT01-52 | | | | | |
| ALTO project | ALT01-50 | | | | | |
| ALTO project | ALT01-48 | | | | | |
| ALTO project | ALT01-46 | | | | | |
| ALTO project | ALT01-45 | | | | | |
| ALTO project | ALT01-43 | | | | | |

Delivery Nr. ALT004-59 Details:

Concrete

| Element | Length (mm) | Width (mm) | Height (mm) | Quantity (m³) | Location in warehouse | Quantity at site | Shed Weight (kg) | Total (kg) |
|---------|-------------|------------|-------------|---------------|-----------------------|------------------|------------------|------------|
| 11 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 12 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 13 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 14 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 15 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 16 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 17 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 18 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 19 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 20 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 21 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 22 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 23 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 24 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 25 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 26 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 27 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 28 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 29 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |
| 30 | 1200 | 291 | 291 | 1.2 | 1.2 | 1.2 | 2.50 | 2.50 |

Mobile App Interface:

Vertical
Maskavas street 250, Riga, LV-10
Doe John, Musk Kate, Smith Mike
Stockholm street 2, Stockholm
Fox Rick



SALES AND OPTIMISATION



PROJECT ENGINEERING



PRODUCTION



DELIVERY



ASSEMBLY



SERVICE



Assembly

- Plan intuitively, execute precisely and on time

- ✓ 3D BIM model view
- ✓ List/calendar view
- ✓ Multiple product support
- ✓ Track element life-cycle status
- ✓ Team availability
- ✓ Schedule/phase planning
- ✓ Events calendar – deliveries, orders, etc.
- ✓ Upload documentation
- ✓ Generate To-do workflows
- ✓ Automatically generate project progress reports
- ✓ Quality control

Alto ERP PREFAB Alto

Projects ALT0 DEMO

ALT004 : Assembly plan

Planning mode + Move marked elements Elements Manufacturers installation buffer days Lock/unlock planned days Allow planning in buffer days Deliveries

Search Manufacturer: All Company: All Element types to show: Element types to hide: Floors: Hide ghost:

50. week 2019

Assembly Team 1

| | 09.12.2019 (Monday) | 10.12.2019 (Tuesday) | 11.12.2019 (Wednesday) | 12.12.2019 (Thursday) | 13.12.2019 (Friday) |
|-----------|---------------------|----------------------|------------------------|-----------------------|--------------------------------|
| COUNT | 5 | 5 | 4 | 7 | 5 |
| WEIGHT | 31.32 t | 34.63 t | 33.28 t | 10.16 t | 14.30 t |
| MP | 62.22 | 65.84 | 59.53 | 38.00 | 44.26 |
| MP | 12.32 | 13.58 | 12.93 | 4.23 | 5.79 |
| MBV-7001 | 29.11 | MBW-7005 | 29.11 | MBW-7010 | 04.12 |
| MBV-7002 | 29.11 | MBW-7006 | 29.11 | MBD-7015 | MBSM-7001 |
| MBV-7003 | 28.11 | MBW-7007 | 03.12 | MBD-7017 | MBD-7033 |
| MBW-7004 | 29.11 | MBW-7008 | 29.11 | MBD-7019 | MBD-7030 |
| MBW-7005 | 28.11 | MBW-7009 | 03.12 | MBD-7024 | MBD-7028 |
| | | | | MBD-7022 | MBD-7026 |
| | | | | MBD-7025 | |
| | | | | MBD-7027 | |
| COUNT | 4 | 20 | 3 | 6 | 5 |
| WEIGHT | 17.93 t | 1.20 kg | 10.28 t | 22.40 t | 6.70 t |
| MP | 7.18 | 0.00 | 22.61 | 54.84 | 25.14 |
| MP | | 0.00 | 4.12 | 8.85 | 6.79 |
| MBV-7004 | 28.11 | MBR-18 | MBKL-7001 | 05.12 | MBD-7029 |
| MBVT-7001 | 29.11 | | MBMP-7003 | 03.12 | MBD-7031 |
| MBV-7005 | 28.11 | | MBD-7016 | | MBD-7034 |
| MBV-7006 | 29.11 | | | | MBD-7023 |
| | | | | | MBSM-7001 |
| | | | | | Planned manufacture date: 7020 |
| | | | | | MBBP-7002 |
| | | | | | 05.12 |
| | | | | | MBBP-7001 |
| | | | | | 05.12 |

Assembly Team 2

Planned manufacture date: 7020





Quality control

- Register, track, solve and analyze all issues intuitively and with ease

- ✓ Image and other file format attachments
- ✓ Linking issues with project, product, worker, business unit
- ✓ Shared responsibility process flow
- ✓ Centralized communication between departments
- ✓ Mobile/tablet support
- ✓ Configurable issue analysis template based on business unit process specifics

[illegible]



SALES AND OPTIMISATION



PROJECT ENGINEERING



PRODUCTION



DELIVERY



ASSEMBLY



SERVICE



Project Management

- Multi-structure support
- Oversee:
 - ✓ Project progress
 - ✓ Main information about each project and sub-project
- Save time on report generation
 - ✓ Automatic project progress reporting
- See all the planned deliveries, orders and tasks
 - ✓ Project events calendar
- Handle project documentation
- Plan business trips

The screenshot displays the Alto ERP PREFAB interface. At the top, there's a navigation bar with icons for various project stages: Sales and Optimisation, Project Engineering, Production, Delivery, Assembly, and Service. Below this, a 'Projects' section shows a list of active projects. A yellow arrow points from the 'ALTO DEMO' project in the list to a detailed view of the same project. Another yellow arrow points from the 'ALTO DEMO' project to a 3D visualization of a building structure.

| Agreement No. | Name | Project country | Project city | Client | Project period | Priority |
|---------------|-----------------------|-----------------|--------------|---------------------|-------------------------|----------|
| ALTO9 | Trinlun Vexa | Denmark | Copenhagen | DE Trans | Not specified | F |
| ALTO2 | Grand Avenue Car Park | France | Toulouse | Construction France | 01.03.2019 - 01.03.2020 | A |
| ALTO1 | ALTO project | Germany | Berlin | Deutsche build | 01.11.2018 - 30.06.2019 | A |
| ALTO8 | ACROPOLIS | Belgium | Brussel | Construction France | Not specified | E |
| ALTO7 | Warehouse Teestum | France | Paris | Construction France | Not specified | D |
| ALTO6 | Fella Brixia | Lithuania | Vilnius | MCC International | Not specified | B |
| ALTO6 | Fella Brixia | Lithuania | Vilnius | MCC International | Not specified | B |
| ALTO5 | Fella Exa | Latvia | | | | |
| ALTO4 | ALTO DEMO | Sweden | | | | |
| ALTO3 | Liepaja Tennis Hall | Latvia | | | | |

The detailed view for 'ALTO DEMO (ALT004)' shows general information, project participants, sub-projects, stages, dates, to-do's, teams, daily reports, logistics costs, documents, budgets, claims, calendar, planned incomes, business trips, visualization, work safety, and agreements. It also includes a progress bar for 'Planned (amount)' and 'Designed'.

The 3D visualization shows a multi-story building structure with a yellow arrow pointing to it from the 'ALTO DEMO' project in the list.



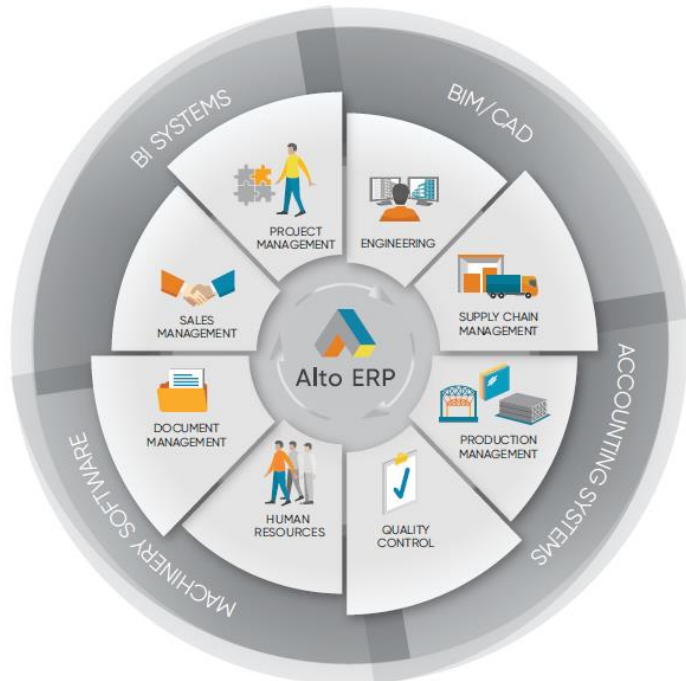
ALTO ERP is a full-cycle BIM/CAD integrated ERP system for developed for construction industry. With tailored versions for project-based prefab, façade and steel manufacturers, and general contractors, Alto ERP is designed to improve business performance through streamlined business process execution, effective information exchange and fact-based decision making

- **AGILITY**
- **CLARITY**
- **FOCUS ON VALUE**

Any tool is only as good as your teams ability to use it.

What good is a cross-industry "one-size-fits-all" system with countless functions if you only find use of a handful?

The industry-specific focus, integration and modularisation possibilities of Alto ERP allows your company to be agile, and gives your team the tool it needs to oversee all relevant business processes and to focus only on adding value.



DOCUMENT, ANALYSE AND IMPROVE YOUR SALES



Keep track of deals, compile quotes, analyse and learn from your past to improve your future sales.



NEVER RUN OUT OF MATERIALS

Virtual warehouse enables you to check necessary and available stock, generate purchase orders and track their status with ease.

SMARTER WAY OF PRODUCTION PLANNING



Changes in production plan? Ensure the optimal use of production capacity at all times without a headache using an automatic production planner.



MANAGE FINISHED ELEMENTS EFFECTIVELY

Store, track and distribute elements on an as-needed basis, and find the best way to fulfil each order with a few clicks.

REDEFINE THE EASE OF LOGISTICS



Oversee, track and analyse all deliveries, automatically generate transportation documents and decrease costs through better transport utilisation.



PLAN THE ASSEMBLY PROCESS INTUITIVELY

Use the 3D BIM model view to plan element assembly intuitively and correctly.

TRACK PROGRESS, TRACK QUALITY



With Alto ERP you can detect, trace the origin of and resolve any problem in a timely manner.

SEAMLESS BUSINESS UNIT CONNECTIVITY



Complete progress status info for all business units.



REAL TIME ANALYTICS

Full info for operational and strategic decision making.

UP TO 20% REDUCTION OF MANUAL WORK



Manual work on data transfers through production/engineering/ERP system integration.



EFFECTIVE COMMUNICATION AND PROGRESS MONITORING

Through supplier and client integration.





Alto ERP

ADVANCING LEADERS THROUGH
OPTIMIZATION

Tekla Structures plugins Smart factory/retrofit

Tekla plugins



Developed for steel, concrete and glazed structures

Achieve:

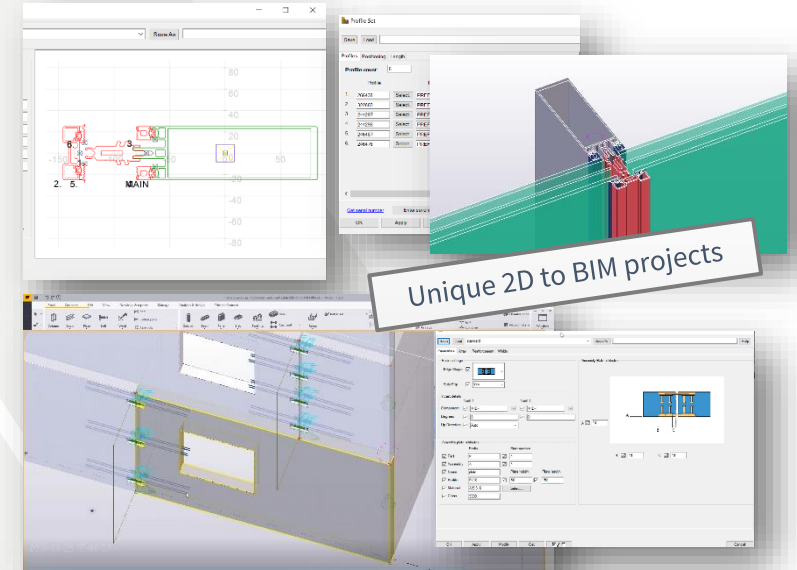
- ✓ improved engineer efficiency through parametric modelling

- ✓ Material optimization

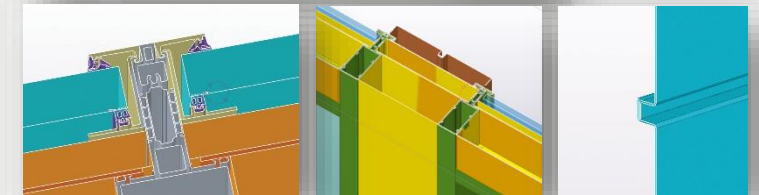
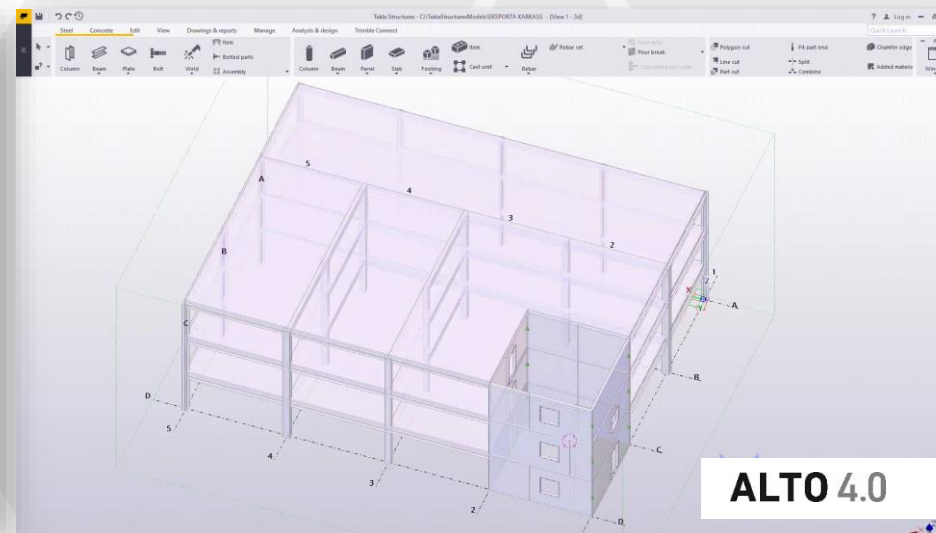
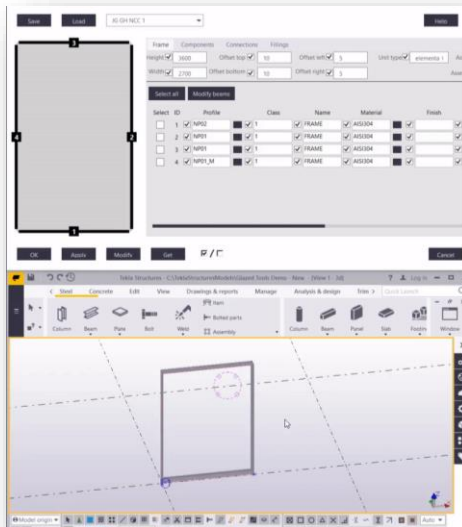
Design with ease:

- ✓ More complex solutions

- ✓ As prefabricated as possible



Unique 2D to BIM projects



GLASS

CONCRETE

STEEL

Smart factory/retrofit



Equip machinery/production lines with communication capabilities.

- ✓ Factory/manufacturing big data analysis and reporting in Alto ERP.
- ✓ Barcode and QR code implementation in production line.
- ✓ Advanced aluminum profile procurement optimization and cutting list.
- ✓ Advanced sheet optimization for various production.
- ✓ Trimble Connect in manufacturing

MEP®

SCHÜCO

SIEMENS

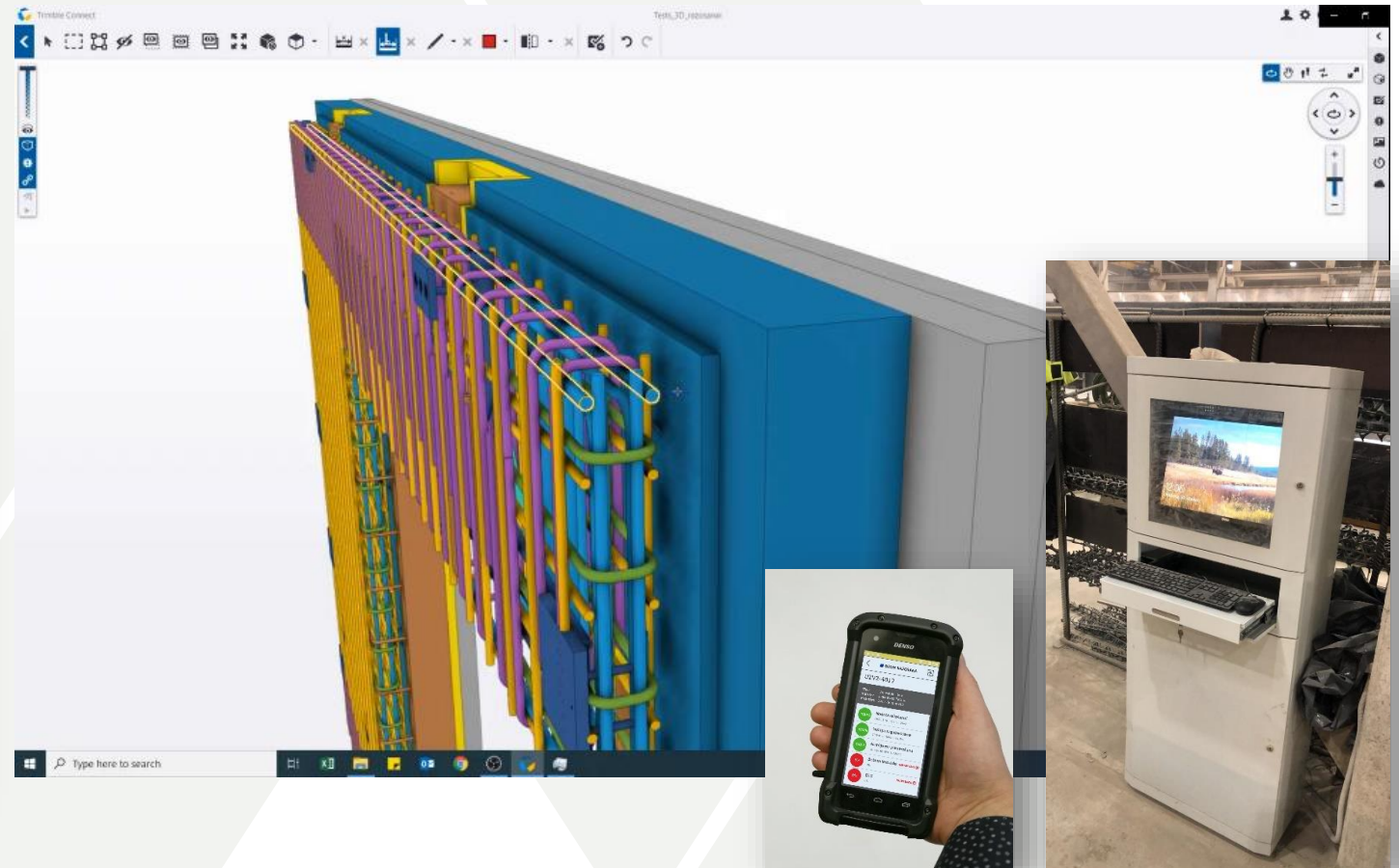
Custom machinery integration with Alto ERP
for seamless element production.



Smart factory/retrofit

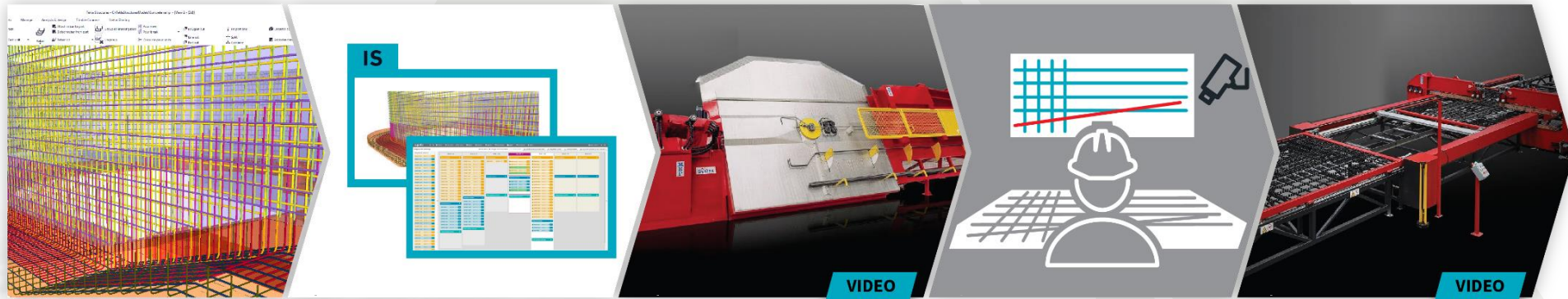


- ✓ Trimble Connect in manufacturing
 - ✓ Tablets
 - ✓ Work stations
 - ✓ QR & BAR code scanners





Smart factory/retrofit



1. Engineers draw a mesh using the Tekla Structures.
2. Information produced in Tekla Structures is uploaded to the Alto ERP system and files for the wiring equipment are prepared. Alto ERP is also used for planning work.
3. Folding and straightening machines receive files from Alto ERP and produce wire bars.
4. A factory unit employee arranges the bars in the right order, according to the instructions seen on the screen above the work table. With the help of a video-camera, that films the work process, mistakes during the work are immediately pointed out.
5. Work table with the assembled wire mesh goes into the welding machine, where the finished mesh is welded.

MEP®



Alto ERP

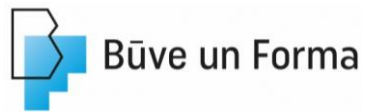
ADVANCING LEADERS THROUGH
OPTIMIZATION

Our partners



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OPTIMIZATION





ALTO 4.0

Advancing Leaders Through Optimisation

www.altoerp.com

Janis Konovalciks

Project Manager

CONTACTS:

E-mail: janis@altoerp.com

sales@altoerp.com

Phone: +37120044228

CONCRETE

STEEL

GLASS