

# CONSTRUCTION AUTOMATION

SYSTEM  
INTEGRATION



Turn labor risk into  
controlled output. Automate.



# CORAL

# BUILT BY ENTERPRISES BACKED BY INDUSTRY



Conceived and supported by established industrial, automation, and construction groups, Coral brings the financial capacity, governance, and operating discipline corporate buyers expect. Long-term support stays in place after handover.



A European leader in industrial automation with deep expertise in engineering, robotics, and digital solutions that transform manufacturing and production across industries. ICE has delivered more than 1,500 advanced automation and machinery projects in over 40 countries worldwide, giving Coral a unique technological edge.

Read more



The largest industrial holding group in the Czech Republic. MTX Group manages, finances, and directs strategic industrial operations globally across more than 39 companies. The Group employs over 2,620 people with reported revenues of EUR 2.3 billion in 2024.

Read more



One of Central Europe's leading general contractors, specializing in large-scale and complex developments. HSF System manages projects across the entire lifecycle — from design to completion. In 2024, they achieved turnover of EUR 86.1 million in the Czech Republic, while our company in Slovakia attained record revenue of EUR 59.6 million.

Read more



PURPOSIA Group is an investment group that has grown from Czech foundations and today ranks among the leading European players in the fields of construction, real estate development, and technology investments. The group comprises a total of 43 companies focused on development activities, comprehensive construction execution, building production, property management, and premium private transportation services.

Read more



# COMMITTED TO EXCELLENCE

Our references cover 1,500 projects across industries in 40 countries



We deliver for the most demanding brands



TESLA



Valeo

vitesco TECHNOLOGIES

amazon

Miele



ironospan

BUHLER



100+ Assembly Lines in the Automotive Industry



30+ Projects for Metallurgy and Pressing



20+ Assembly Lines for Electronics and EOL Testers



# AUTOMATION ACROSS CONSTRUCTION & MATERIAL

Transforming global construction through integrated robotic solutions, precision engineering, and smart manufacturing technologies.

## CONSTRUCTION MATERIAL PRODUCTION INDUSTRY

Automation of Building Material Manufacturing Comprehensive solutions for concrete plants: automated batching, mixing, and material handling. Systems designed to ensure consistent quality and high-capacity output for both ready-mix and precast production.



## ALUMINIUM PROFILES INDUSTRY

Aluminium Profile Manufacturing and Precision Engineering High-speed automation for extrusion, precision cutting, CNC machining, and assembly of aluminium profiles used in high-end façade systems, window units, and structural frameworks.

## INSULATION & THERMAL ENVELOPE PRODUCTION

Automated Manufacturing of Insulation and Building Envelopes Robotic production lines for thermal insulation systems, processing of mineral wool (e.g., rock wool), and automated assembly of façade panels and components for energy-efficient buildings.



## STEEL & REINFORCEMENT PROCESSING

Automation in Steel and Rebar Fabrication Robotic welding, cutting, and bending of concrete reinforcement. Automated assembly of rebar cages and steel components for both cast-in-place and precast concrete structures.

## WOOD PROCESSING INDUSTRY

Advanced Timber Processing and Hybrid Systems Fully automated lines for the production of CLT panels, glulam, and modern hybrid systems that combine the structural advantages of wood and concrete.



## CONSTRUCTION ROBOTICS & ON-SITE AUTOMATION

On-site Robotics and Digital Execution Bringing the future to the job site: 3D concrete printing, mobile robotic systems for component installation, automated layout measurement, and real-time digital control of construction processes.

# AUTOMATE WITH CONFIDENCE

## A 6-STEP STRATEGIC JOURNEY

We don't guess. We simulate. Experience the certainty of Digital Twin technology before the first robot arrives.

1

### DISCOVERY & ROI ASSESSMENT



We don't just audit; we calculate your future ROI.

- **Financial Clarity**

Mapping your bottlenecks to find where automation pays off fastest.

- **Investment Security**

Detailed feasibility studies and payback period calculations.

- **Strategic Roadmap**

Identifying risks before they impact your budget.

2

### TAILORED SOLUTION ARCHITECTURE



Your materials, your facility – an automation suit tailored to your needs.

- **Custom Layouts**

Designing systems that fit perfectly into your existing production floor or job site.

- **Material Compatibility**

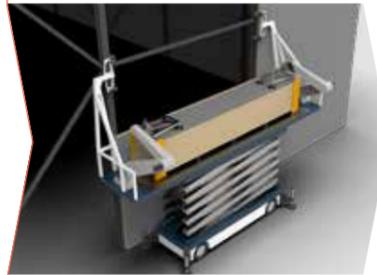
Solutions engineered specifically for your concrete mixes, timber, or steel.

- **Scalable Concepts**

Building for today with the flexibility to grow tomorrow.

3

### THE VIRTUAL TEST DRIVE (DIGITAL TWIN)



The „Zero-Risk“ Phase. We build your factory digitally first.

- **Virtual Simulation**

Watch your entire production line run in a virtual environment before spending a single dollar on hardware.

- **Certainty by Design**

Verify cycle times and validate workflows to eliminate surprises.

- **Risk Elimination**

Catch and fix potential issues in the simulation, not on the factory floor.

4

### OFF-SITE PRODUCTION & ASSEMBLY



We build and test at our facility so your production stays up and running.

- **Zero Downtime Implementation**

Your daily operations continue uninterrupted while we manufacture your system.

- **Factory Acceptance Testing (FAT)**

Every component is fully assembled and tested at our site for your approval.

- **Quality Assurance**

Rigorous pre-shipment checks ensure a seamless experience during final installation.

5

### INSTALLATION & TEAM EMPOWERMENT



Technology is nothing without people. We turn your crew into tech operators.

- **Hands-on Training**

Comprehensive on-site coaching to ensure your team is confident and capable.

- **Smooth Ramp-up**

Guided support during the initial production phase to reach full capacity quickly.

- **24/7 Expert Support**

Remote monitoring and rapid assistance to keep your project moving.



### OPTIMIZED REALITY & SCALING



✓ **Production is running, waste is down, and you have full control in the palm of your hand.**

- ✓ **Data-Driven Control**

Real-time production data delivered to your tablet for instant decision-making.

- ✓ **Consistent Quality**

Automated precision ensures every part meets your exact specifications.

- ✓ **Predictive Maintenance**

Smart alerts help you fix small issues before they become expensive downtime.

# REVOLUTIONIZING CONSTRUCTION THROUGH AUTOMATION



Becoming a smart factory doesn't happen overnight. By investing in the right technology, production costs will drop dramatically.



Thanks to our automation solution, the company **Strojmetal Aluminium Forging**

- Reduced the need for operators by 70%.
- Produces faster in continuous operation.
- Minimizes scrap.
- Introduces new products faster.
- Minimizes technological waste.

**Rockwool** – Material handling line for the production of insulation materials with enhanced fire resistance.

**Lindab** – Production line for gutter systems.

**Yaskawa** – Automated line for refurbishment of transport pallets.

**Stora Enso** – Conveyor systems for the woodworking industry.

**Kronospan** – Production lines around the world for a series of 20+ OSB desks.

**Swisspearl** – Automatic palletizing line for fiber cement tiles.

**Dřevojas** – Robotized furniture production line.

**BACHL** – Robotic palletizing and handling of polystyrene bundles.

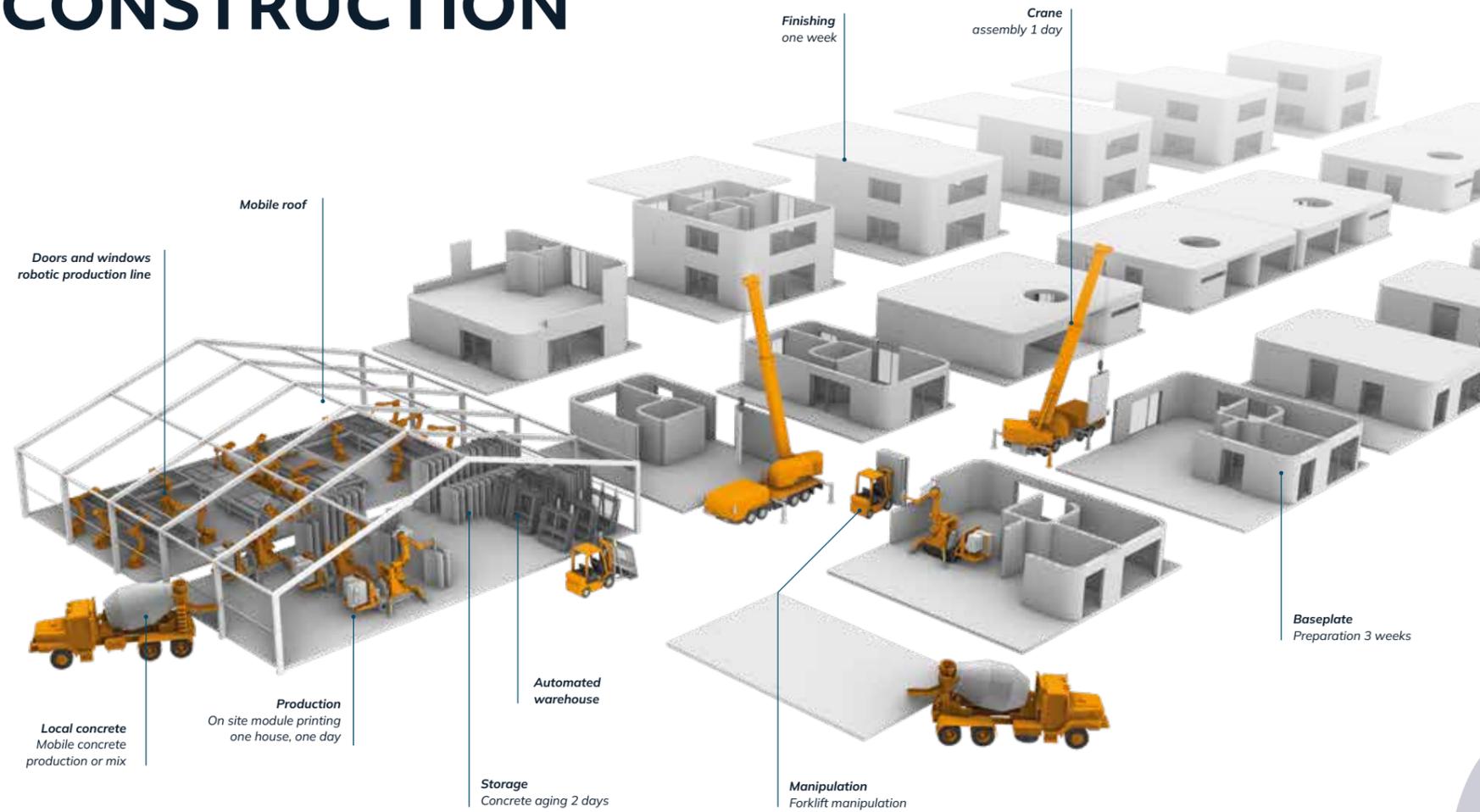
**ALINVEST Břidličná** – Automation of the line for cutting aluminum ingots into thin plates with subsequent milling.

**Saint-Gobain ADFORS** – SW/HW reconstruction of winding machine.

**Polycasa** – Automatic handling and painting of polycarbonate sheets.



# THE FUTURE OF INDUSTRIALIZED CONSTRUCTION



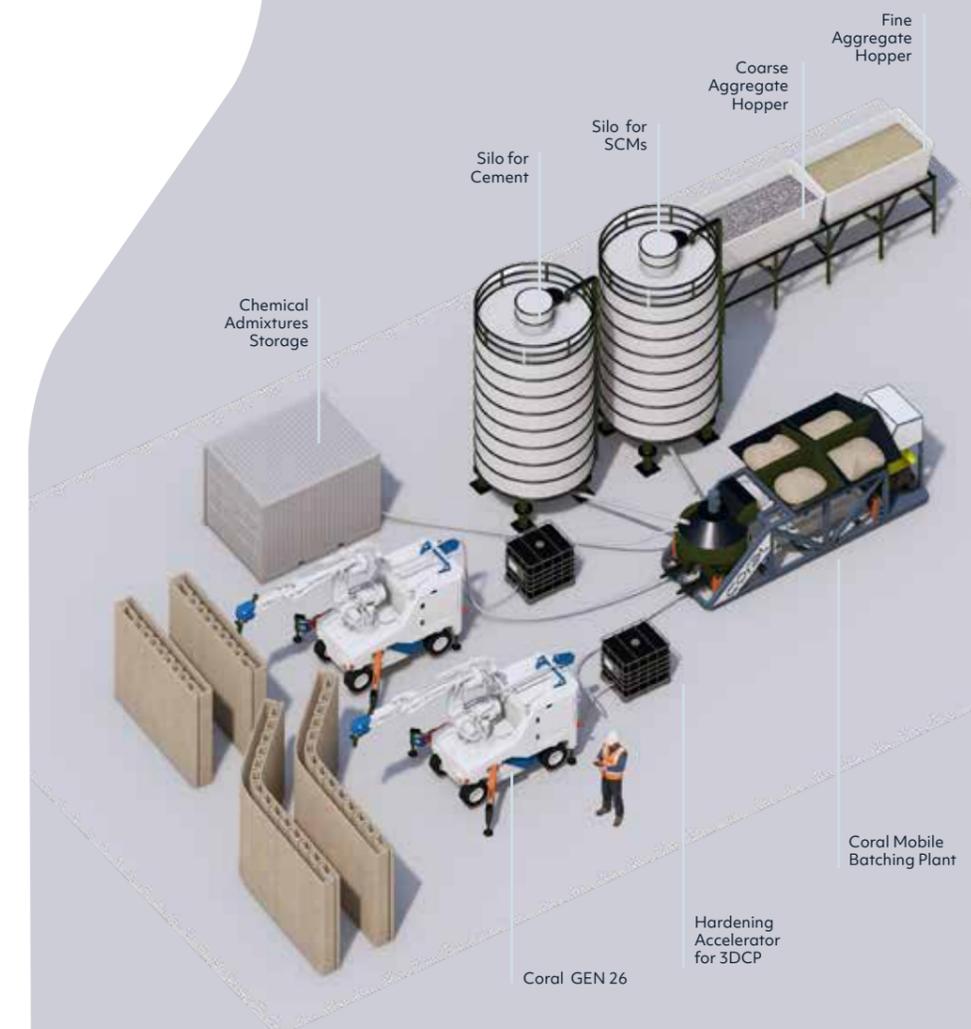
## ON-SITE AND OFF-SITE MODULAR MANUFACTURING

3D printing is transforming the construction industry by enabling automated processes and mass customization. It offers modular, on-site housing production that minimizes waste and increases efficiency. Modular homes can be printed in sections and assembled on site, resulting in faster construction times and reduced transportation costs.

## CORAL MOBILE BATCHING PLAN

### FOR YOUR OUTPUT TO STAY CONSISTENT

On-site concrete production for continuous printing, less trucking and less downtime. Reliable material flow for stable layer quality, tuned to your local cement, aggregates, and admixtures.





## OUR VALUES

are not empty words on the boardroom wall. They define our daily decisions. 96% of our team members think they are important to how we operate and 95% of our team members can name them. We are Value-driven.



**Team**  
"We"  
are ICE



**Integrity**  
Fair and  
balanced



**Professionalism**  
Doing the right things  
correctly



**Flexibility**  
Readiness  
to adapt



**Fun**  
Working  
with a smile

**A CULTURE BUILT  
FOR DELIVERY  
CERTAINTY**



# CORAL CONSTRUCTION TECHNOLOGIES ECOSYSTEM

## ROBOTIC CONCRETE PRINTER

SALES & LEASING

## 3D CONCRETE PRINTING

AVAILABLE  
AS A SERVICE



## CORAL ARCHITECTS

3DCP DESIGN &  
ENGINEERING

## CONSTRUCTION AUTOMATION

SYSTEM  
INTEGRATION

### Coral Construction Technologies

Global 3DCP Ecosystem

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