



**MECMETAL**  
CONCRETE EVOLUTION

# CONCRETE INTELLIGENCE AND EFFICIENCY

**Product machines**  
**Production Lines**  
**Accessories**  
**Services**





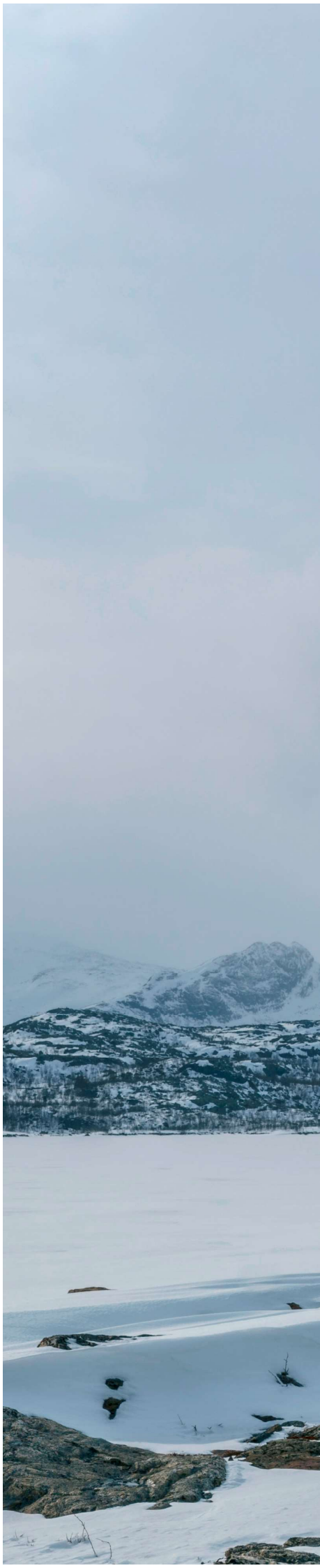
# CONCRETE EVOLUTION

FROM FINLAND

## State of the art production lines created with Finnish integrity

With smart technology combined with northern innovation, stamina, and efficient production, we are proud to be pioneers of the industry being the sole provider of fully electromechanical production lines for the manufacture of concrete products and alternative material-based products since 1996





## Committed to developing and delivering top quality solutions

Mecmetal Ltd is a Finnish production line technology developer and manufacturer. Our journey started by specializing in completely electromechanical production line models for concrete blocks, insulated blocks, and paving stones. With a strong emphasis on R&D we have developed our production lines to make products from many other materials than just concrete, yet using the same manufacturing method.

### MEC Evolution-20 production lines

Our production lines are based entirely on electromechanical operations. All new production lines are equipped with a new servo technology. The design of the production lines are based on decades of experience in tested, constantly evolving mechanical solutions and new solutions developed as a result of active development cooperation with customers, for the needs of efficient production.

### Concrete intelligence and efficiency

The control system is concretely smart and extremely versatile, but still really user-friendly and easy to use. Improved servo gear motor technology guarantees precise and fast movements in all conditions and improves energy efficiency totally to a new level. The new web-based services are designed to support maximizing production efficiency and responding quickly to any need. New solutions also enable an extensive selection of predictive maintenance and real-time diagnostic services.

**MEC Evolution-20 product machines electricity consumption is under half than on hydraulic solutions!**

Concrete benefits in our solutions >>

## MECMETAL IN A NUTSHELL

All our services and production lines are developed with heart and soul for our customer's success. From Inspection to Factory as a Service, there is a path that takes us deeper and deeper into the industry and competences. **We are here for our customers**, all the way from our mechanics to our CEO. **How can we help you?**



HIGH  
UTILIZATION RATE



EXTREMELY  
FAULT-TOLERANT



HOMOGENOUS &  
HIGH-QUALITY



SHORT  
DOWNTIMES



INTELLIGENT  
MAINTENANCE &  
DIAGNOSTICS



LONG LIFE CYCLE



COST-  
EFFECTIVE



ENERGY  
EFFICIENT



CO<sub>2</sub> FOOTPRINT  
MINIMIZED



ENVIRONMENT

# TURN-KEY SOLUTIONS

## ALTERNATIVE MATERIALS

The use of alternative materials and other environmental decisions benefits our world. We act as a forerunner in many ways that help our customers achieve demanding goals in environmental matters.

For sustainable development Mecmetal production lines provides possibility to use alternative materials in production and different ways of CO2 treatments to assure carbon-free or even carbon-negative end products.

Recycled concrete waste adding into production, alternative binders, CO2-treatment use and production that consumes less energy than technology that manufacturers use these days plays important part to help industry achieve net zero goals to greener world and at the same time manufacture products more efficiently and safely.

## CARBON DIOXIDE TREATMENT

Carbon-neutral concrete products will soon be the industry standard as manufactures searches solutions to achieve environmental regulations and standards. At the moment concrete industry generates up to 8 percent of the worlds yearly carbon dioxide emission. One of the mecmetal's core values is environmental sustainability as we want to keep our heavy snow winter's and biting coldness here in north. We have been in continuous cooperation with product manufacturers and partners like Carbonaide, to provide the most compatible and efficient production lines with CO2-treatment, to achieve even the most ambitious goals without risking the quality of the end product.





# CARBONAIDE

TRANSFORMS CO<sub>2</sub> INTO A ROCK-SOLID CONCRETE



## AWARD WINNING CARBON-CURING TECHNOLOGY

Carbonaide offers an award winning carbon-curing technology for precast concrete manufacturers to reduce their carbon-footprint and generate cost savings with the help of CO<sub>2</sub>. Our technology is fully compatible with OPC and enables the use of novel binders.

## 20% CEMENT SAVINGS WITH MINIMAL CHANGES

We offer an all-inclusive service for carbon-curing with minimal changes to the production process and operations. This results in 20% less binder use and 50% less CO<sub>2</sub>-footprint already with OPC based mixtures. With our technology reaching carbon-negative concrete is made easy.

## COMPATIBLE WITH MEC PRODUCTION LINES

Carbonaide's carbon-curing module is compatible with Mecmetal's concrete product production lines. Integrated reporting systems for reliable reporting of carbon dioxide concentration. Equipment maintenance and real-time support as well as adjustment in seamless cooperation.

## CONTACT

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**EQUAL STRENGTHS WITH 20% LESS CEMENT**



# COMPREHENSIVE SERVICES DEVELOPED ACCORDING TO CUSTOMER NEEDS



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