MART-FORMA KFT.

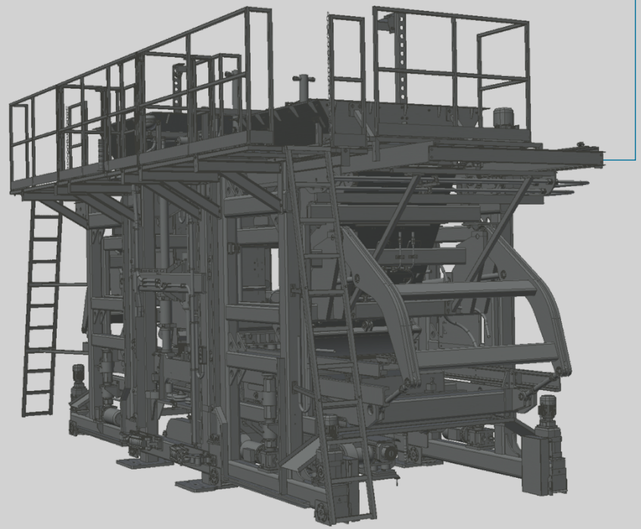
JV1800

PAVING STONE AND CONCRETE PRODUCT
MANUFACTURING SYSTEM



BASIC
PRODUCTION MACHINE

Designed for high-performance production, the **JV1800** combines short cycle times with fast, precise movements. Advanced control technology and an innovative hydraulic system ensure reliable operation, consistent performance and efficient production of concrete blocks and pavers.



PARTS

- base mix unit
- central undercarriage (vibrator table)
- face mix unit, with tool change
- standard hydraulic



CONTROL SYSTEM & AUTOMATION COMPONENTS

- PLC, Inverters & Control Electronics: Omron, Schneider
- Servo Drives: Lenze
- Industrial Communication Networks: EtherNet/IP & PROFINET

TECHNICAL CONTENT

Electric:
- Power source: 400VAC 3ph 50Hz
- Main breaker: 250A
- Power electric: 173 kVA

Pneumatics:
- pressure: 6 bar / 87,02 psi

Hydraulics:
- pressure: 150 bar / 2175,6 psi
- 2 pcs 35 kW pumps for main movements
- 1 pc 15 kW pump for control pressure

CAPACITY

- 1 production rate productivity:
- max 1,2 m2 paving stone
- max 2,1 m2 rustic stone (semi-finished)
- 1800 production rate / shift (8 hours)



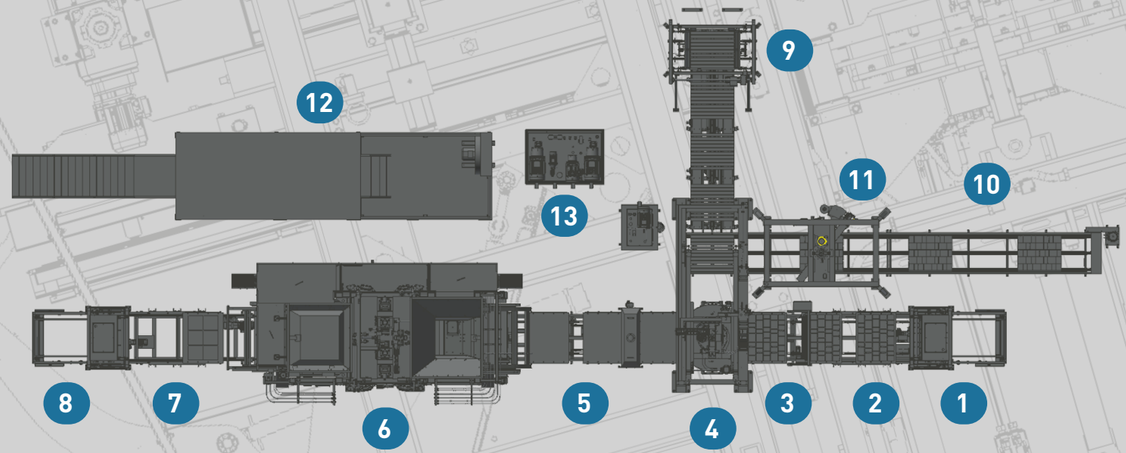
COMPLETE PLANT

PALLET-BASED SYSTEM

We work closely with our customers to develop complete production plants tailored to their specific manufacturing requirements, operational needs and market demands.



	Machine unit	Wet side	Dry side
1	Unstacker (Lowerator)	✔	
2	Infeed conveyor	✔	
3	Granulate spreader		✔
4	Transfer unit	✔	✔
5	Production board cleaner	✔	
6	Production machine (Machine JV1800)	✔	
7	Discharge conveyor	✔	
8	Stacker (Elevator)	✔	
9	Pallet feeder		✔
10	Finished product discharge conveyor		✔
11	Wrapping and packaging unit		✔
12	Control system		
13	Hydraulic power unit		

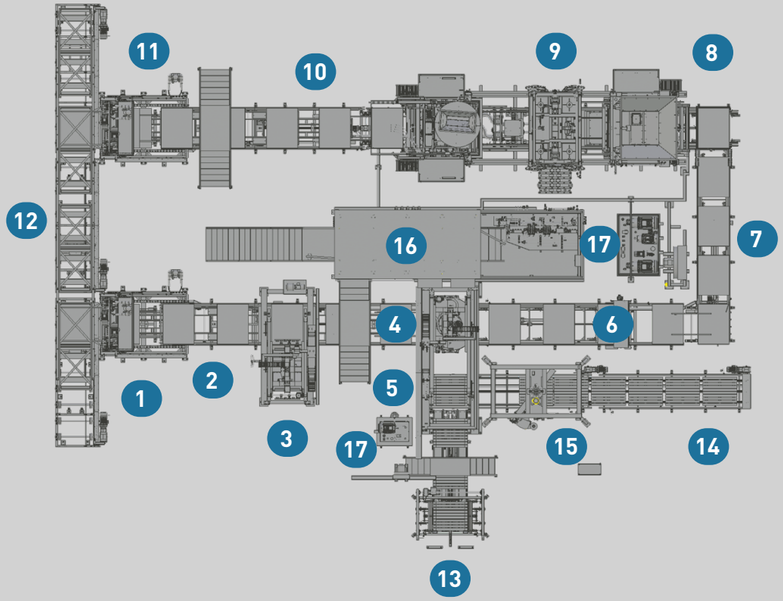


PLANT 1

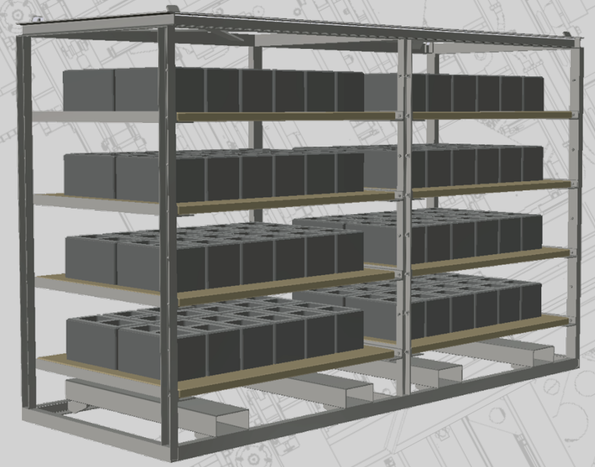
The production line shown represents one of many possible configurations. Each plant can be adapted to site-specific conditions, production requirements and individual customer needs. Additional equipment and customized technical solutions can be incorporated to meet requirements beyond those illustrated.

COMPLETE PLANT

STOCK SYSTEM



	Machine unit	Wet side	Dry side
1	Unstacker (Lowerator)		✔
2	Infeed conveyor		✔
3	Pre-feeding unit		✔
4	Granulate spreader		✔
5	Transfer unit		✔
6	Production board cleaner		✔
7	Connecting conveyor	✔	✔
8	Infeed conveyor	✔	
9	Production machine (Machine JV1800)	✔	
10	Discharge conveyor	✔	
11	Stacker (Elevator)	✔	
12	Curing rack transfer conveyor	✔	✔
13	Pallet feeder		✔
14	Finished product discharge conveyor		✔
15	Wrapping and packaging unit		✔
16	Control system		
17	Hydraulic power unit		



Every production facility has its own technical and operational requirements. The layout presented is an example rather than a fixed configuration. Our engineering team can develop alternative plant layouts, integrate additional equipment and provide tailored technological solutions, including applications not covered in this brochure.

OPTIONAL PARTS
FOR THE PRODUCTION OF HIGH-QUALITY PRODUCTS

1

SPECIAL SURFACE COLORING TECHNOLOGIES

UNIQUE GRANITE-EFFECT TECHNOLOGY

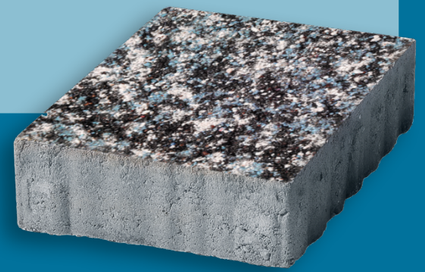
An innovative surface coloring technology that creates a distinctive natural granite-like appearance on concrete pavers directly during production. The process enables the manufacture of premium decorative surfaces without the need for additional surface treatment.

COLORMIX DEVICE WITH DRAW PLATE

Cost-efficient solution for manufacturing multicolored concrete products.

COLORMIX DEVICE WITH ROTARY FEEDER

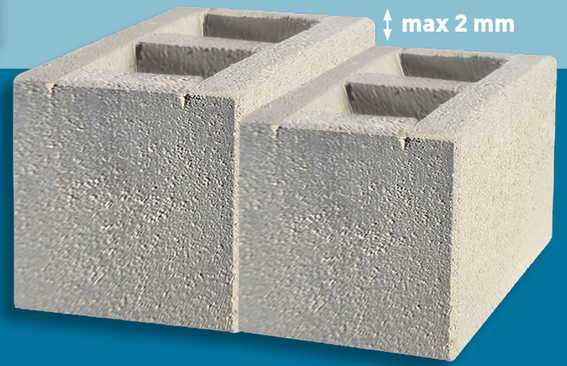
It can be integrated with face-mix concrete silos, with process parameters adjustable via the control panel.



2

STONE HEIGHT STOPS

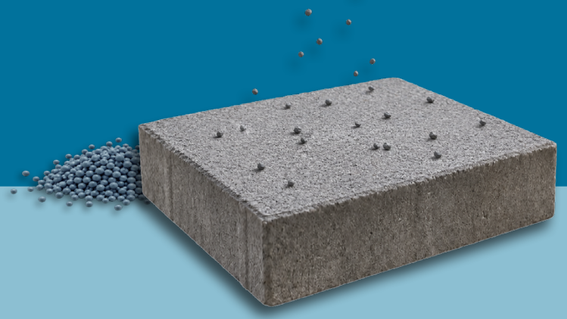
Combining mechanical engineering with advanced software control, the system enables the production of dimensionally accurate concrete products within a 2 mm tolerance, ensuring consistent height accuracy even for taller products.



3

PRODUCT PROTECTION WITH GRANULES

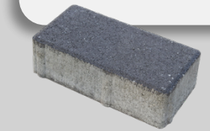
Our granule spreading system ensures effective separation between stacked concrete products, helping prevent sticking and surface damage caused by direct contact or pressure. Suitable for palletized packaging and other stacking methods, the system features adjustable spreading speed and granule distribution density to meet specific production requirements.

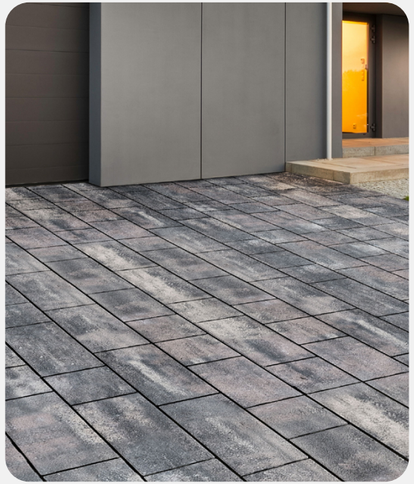


END PRODUCTS



single-sized paving stones
with grey or coloured wear-layer



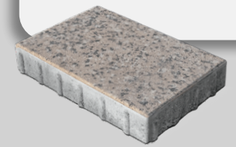


blended-colour combi products





granite-effect products





tall products





through-coloured, antiqued products



OPTIONAL **AUXILIARY UNIT**





CONTACT US

Our experienced team is ready to help you find the most suitable solution for your production needs. Combining extensive industry expertise with a strong commitment to customer service, we provide professional guidance and technical support throughout your project.

We keep your production running with fast and flexible spare parts supply, dedicated hotline support with direct online access to the machine control system, and optional scheduled winter maintenance services.

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