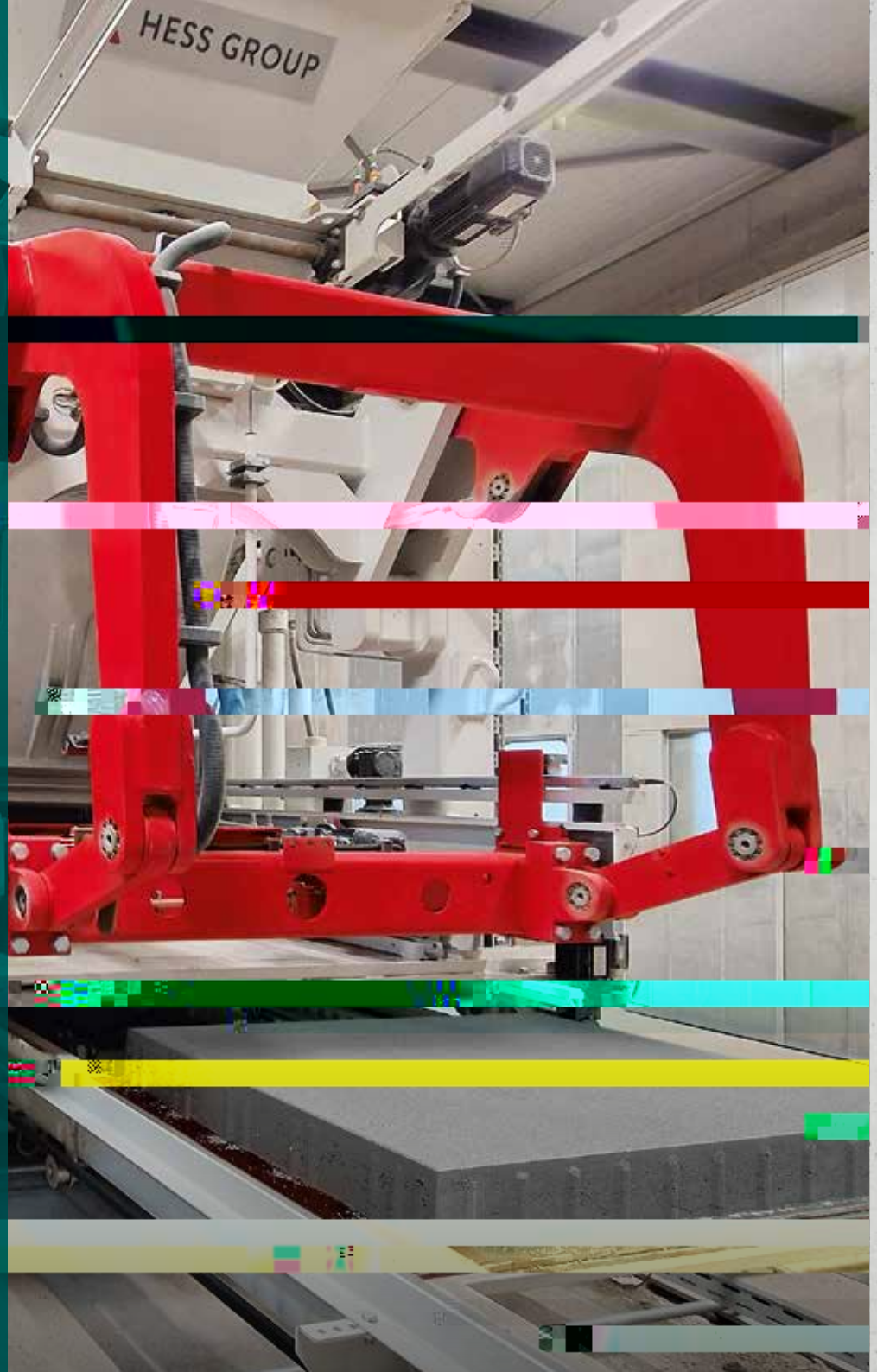


H SS GROUP

OUR COMPANY

WHO IS HESS GROUP?

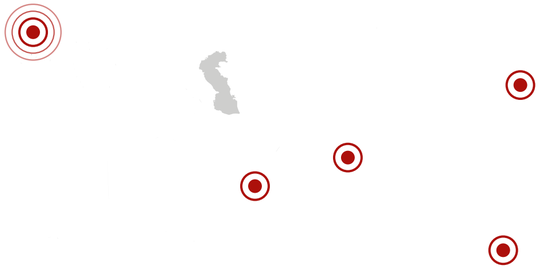
MIXERS, HANDLING SYSTEMS, CONCRETE BLOCK AND PAVER MACHINES, AND PACKAGING LINES

Our passion is developing technically superior machines for the production, processing, and handling of high-quality concrete products — and we have been doing so since 1948.

As a driver of new sustainable innovations and with a distinctive team spirit in an international environment, we continuously expand HESS GROUP's leading market position.

HESS GROUP WORLDWIDE

As part of the TOPWERK GROUP, HESS GROUP is represented worldwide. With eight international TOPWERK locations and a global network of representatives, HESS GROUP offers optimal service to its customers.



OUR
VISION

It is our endeavor to discover and create new market needs in close collaboration with our customers. For this, we develop solutions that make us and our customers innovative pioneers in the concrete block and paver industry.

Each of our products is developed specifically according to our customers' needs. Our concrete block and paver plants are characterized by their durability and reliability and can be upgraded with the latest technology even after years.

Open and honest communication is essential to us. We work together and develop solutions and results as a team and across departmental boundaries.

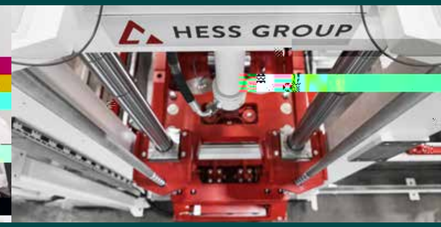
OUR
MISSION

We enable our customers – in collaboration with us – to produce the best concrete blocks and pavers efficiently. The following four factors are paramount:

Our customers are at the center of our actions. We are a reliable and honest partner who, together with them, shapes the digital future of our industry.

Each of us has high standards for our personal work results. Taking responsibility for one's own actions and seeing mistakes as opportunities for improvement is part of our culture.

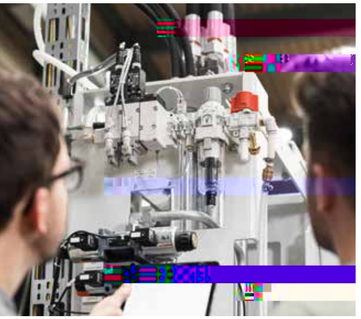
OUR
VALUES

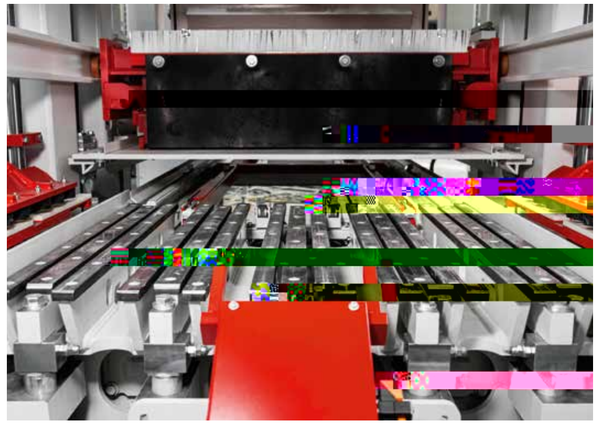


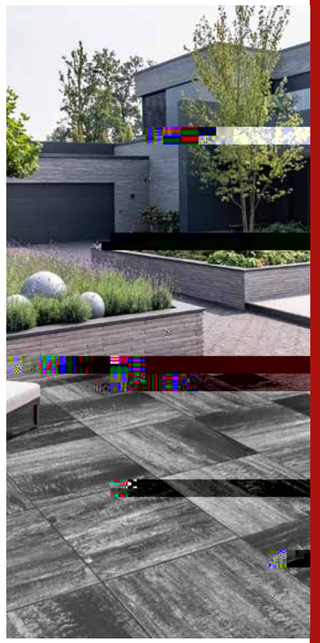
For us, quality means combining durability and reliability with the latest technology.

Innovation involves transforming the market through technology. By continuously enhancing automation, swiftly responding to market needs, and broadening refinement options, we ensure the long-term viability of our products.

In partnership with our customers, we fulfill individual requirements. We support them operationally as a knowledgeable and trustworthy partner.

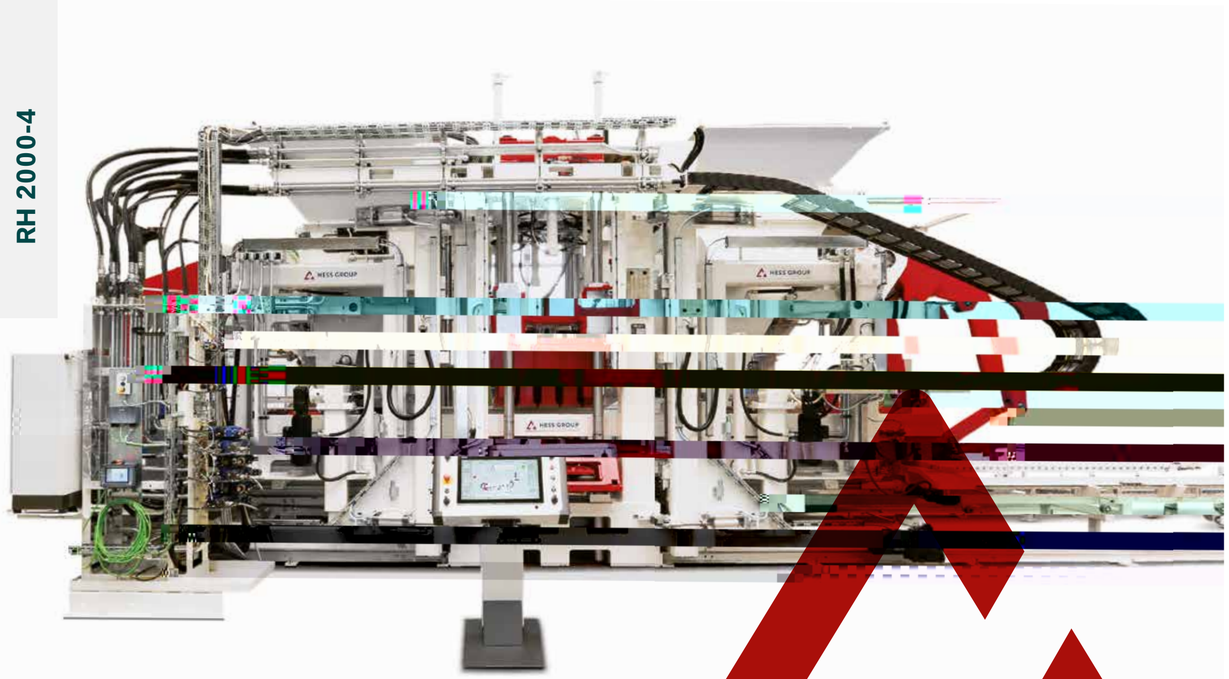






WE PUT CONCRETE INTO SHAPE.

RH 2000-4



HESS RH 2000-4

THE LEADER AMONG CONCRETE BLOCK AND PAVER MACHINES

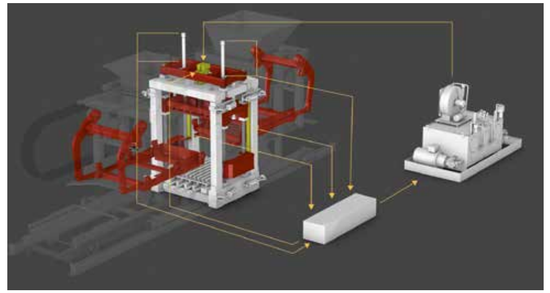
The RH 2000 is HESS's high-end machine, combining the latest technology with decades of machine-building experience. It offers an easy operation, maximum efficiency, and meets the highest safety standards. Continuously developed since the 1990s, the RH 2000 is now available in its fourth generation: the RH 2000-4.

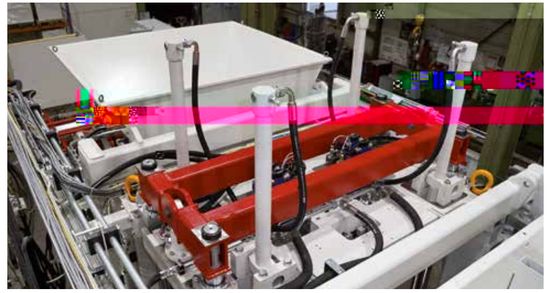
*

		RH 2000-4 MVA Production area	RH 2000-4 MVA Production Area
Production board size [mm]**		1,400 x 1,100	1,400 x 1,300
Production area [mm]**		1,300 x 1,050	1,300 x 1,250
Min. product height [mm]		25	25
Max. product height [mm]		500	500
Dead weight in MVA Version [kg]		46,000	48,000
Paving stone 10 x 20 x 5 cm without face mix	Cycle time [s]	10	10
	m² in 8h	2,644	3,230
	Quantity of products/mold	54	66
Paving stone 10 x 20 x 6 cm with face mix	Cycle time [s]	11.5	11.5
	m² in 8h	2,299	2,809
	Quantity of products/mold	54	66
Hollow block 20 x 40 x 20 cm	Cycle time [s]	13.5	13.5
	Quantity in 8h	21,760	32,640
	Quantity of products/mold	12	18

* Production output is calculated based on 85 percent machine availability and is significantly influenced by machine settings, the concrete mixing recipe used, the quality of raw materials, the performance of other related plant equipment, mold characteristics, the stone format, and the production pallets used. Technical Data are subject to change.
** Other production board sizes available.

Height adjustable mold tray with pneumatic pusher	○
Mold in base position detection	○





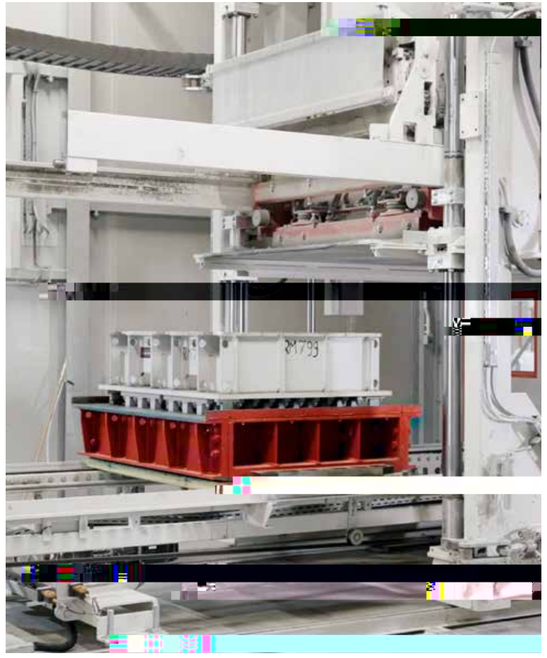
POWERED BY GERMAN ENGINEERING

MLC+H CONTROL

MOTION LOGIC CONTROL FOR HYDRAULICS

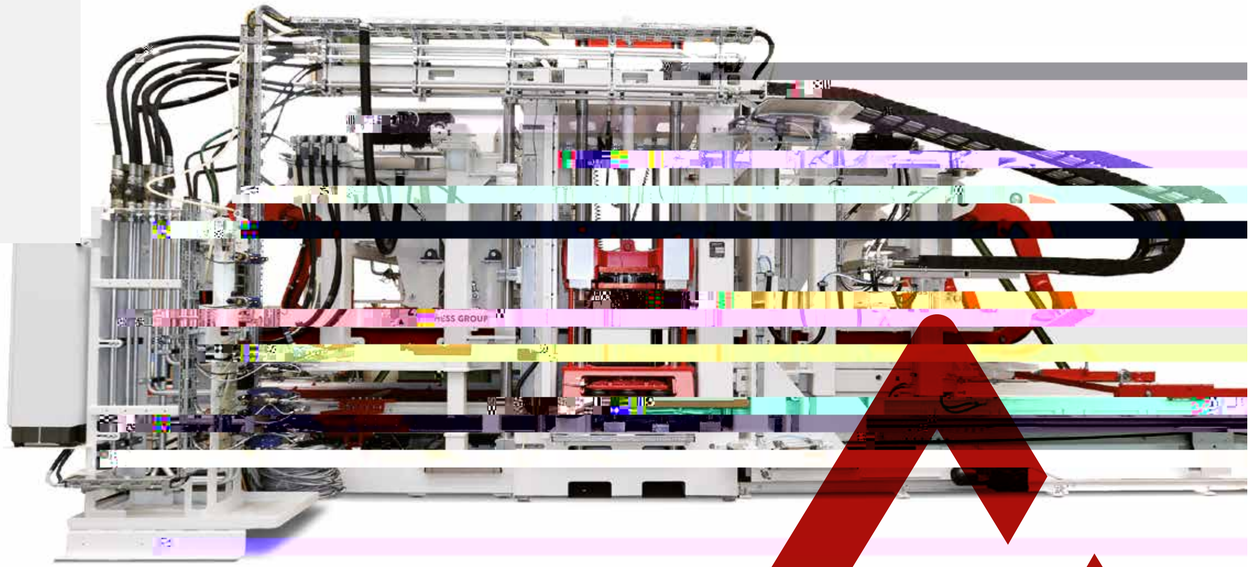
ADVANTAGES

- Better, more evenly controlled power distribution.
- Specialized bearing control and thus improved valve response.
- Faster movements and more precise positioning of components regardless of operating temperature.
- Higher pressures for faster movements.
- Larger oil reserve to ensure cylinder oil supply during overlapping movements.
- Larger cylinders for faster and more precise positioning of the fller boxes.
- Due to the design of the hydraulic system, it is possible to move the machine at reduced speed (emergency operation) with a smaller, additional pump. In the event of a main pump failure, the machine can be „emptied“ in setup mode.
- More powerful pump for faster and overlapping movements.
- Pressure vessel for storing hydraulic pressure to enable overlapping movements.
- Elimination of the braking device for the tamper head. No mechanical wear.



WE PUT CONCRETE INTO SHAPE.

RH 1500-4

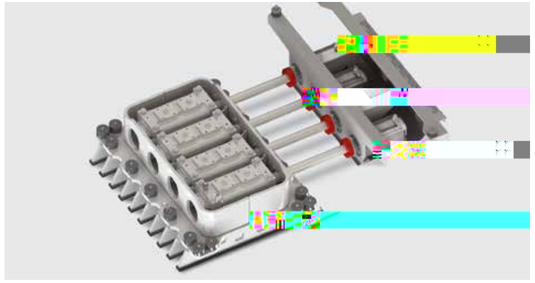


*

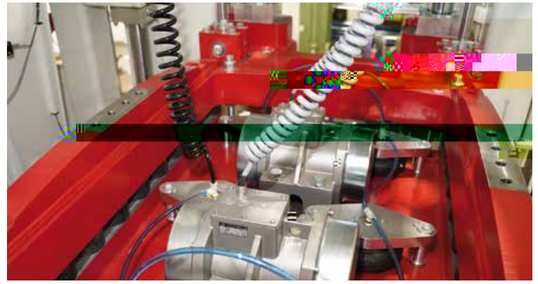
Production board size [mm]**		1,400 x 1,100
Production area [mm]**		1,300 x 1,050
Min. product height [mm]		25
Max. product heigh [mm]		500
Dead weight in MVA Version [kg]		46,000
Paving stone 10 x 20 x 5 cm without face mix	Cycle time [s]	10.5
	m² in 8h	2,517
	Quantity of products/mold	54
Paving stone 10 x 20 x 6 cm with face mix	Cycle time [s]	12.5
	m² in 8 h	2,114
	Quantity of products/mold	54
Hollow block 20 x 4mHollow block		

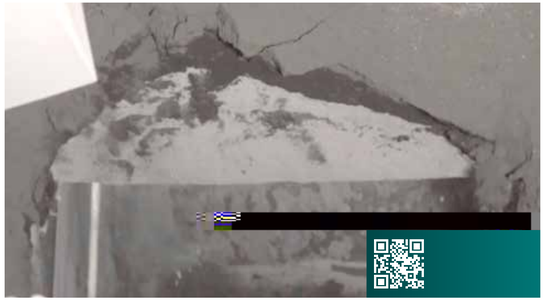
Min. production board depth [mm]	870
Max. production board depth [mm]	1150
Min. production board width [mm]	1200
Max. production board width [mm]	1520
Min. production height [mm]	25
Max. production height [mm]	500
Table vibration Variofrequency, 1 table	○
Table vibration VARIO TRONIC, 1 table	●
WIDIA wear ledges for vibration table	○
Standard hydraulic, Bosch-Rexroth	●
Servo hydraulic M version with 2 tamper head cylinders	○
Leakage detection with M version	○
Hydraulic mold flaps	○

Draulic, Bosch-Rexroth 3690.385102(draulic M v)7.2(er cushioning cylinders 3690.385102(draulic M v)7.2(er cushioning cylinders 3690.385102(draulic M v)7.2(er cushioning cylinders

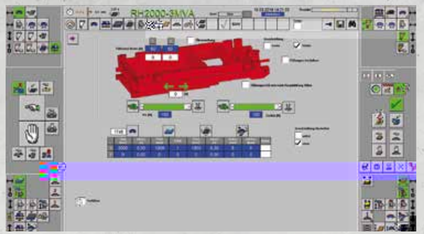


M4





Production board size [mm]**		1,200 x 670	1,400 x 700	1,400 x 1,100	1,400 x 1,100	1,400 x 1,100	1,400 x 1,300
Production area [mm]**		1,100 x 620	–	1,300 x 1,050	1,300 x 1,050	1,300 x 1,050	1,300 x 1,250
Min. product height [mm]		25	25	40	25	25	25
Max. product height [mm]		300	300	500	500	500	500
Dead weight in MVA Version [kg]		7,700	14,000	38,000	46,000	46,000	48,000
Paving stone 10 x 20 x 5 cm without face mix	Cycle time [s]	17	14	12.5	10.5	10	10
	m² in 8 h	863	1,258	2,114	2,517	2,644	3,230
	Quantity of products/mold	30	36	54	54	54	66
Paving stone 10 x 20 x 6 cm with face mix	Cycle time [s]	22	18	14.5	12.5	11.5	11.5
	m² in 8 h	667	979	1,823	2,114	2,299	2,809
	Quantity of products/mold	30	36	54	54	54	66
Hollow block 20 x 40 x 20 cm	Cycle time [s]	20	16	16.5	14.5	13.5	13.5
	Quantity in 8 h	6,120	13,770	17,800	20,258	21,760	32,640
	Quantity of products/mold	5	9	12	12	12	18



HESS

CONTROL

PILOTING ALL MACHINE FUNCTIONS

Concrete block and paver machines and plants are equipped with a control panel that can be adjusted in height and screen angle. With the clear touch panel, you have full control over all machine functions of the linked system.

The intuitive user interface with icons simplifies operation. Complicated inputs are eliminated as the intelligent software automatically adjusts many parameters. Settings can be made quickly with a few operations and sliders – user-friendly and self-explanatory.

FEATURES OF HESS CONTROL

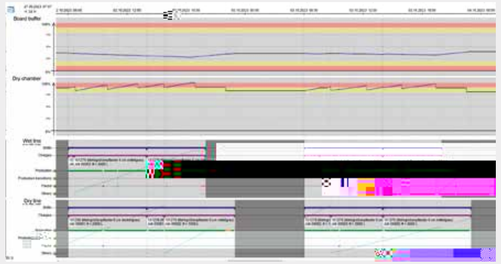
- Master recipe
- Comparable recipe
- Version management recipe management
- Login using an RFID pen at the control panel

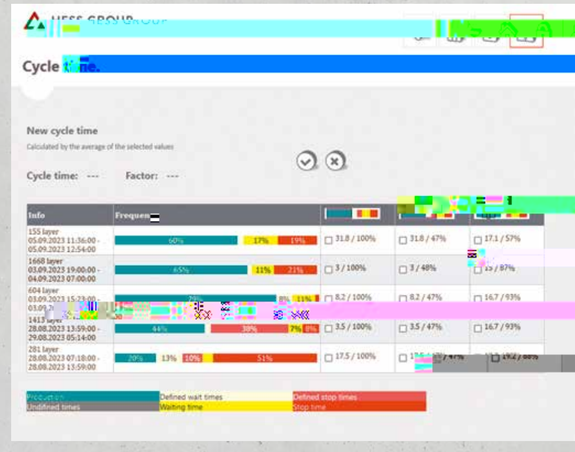
HESS

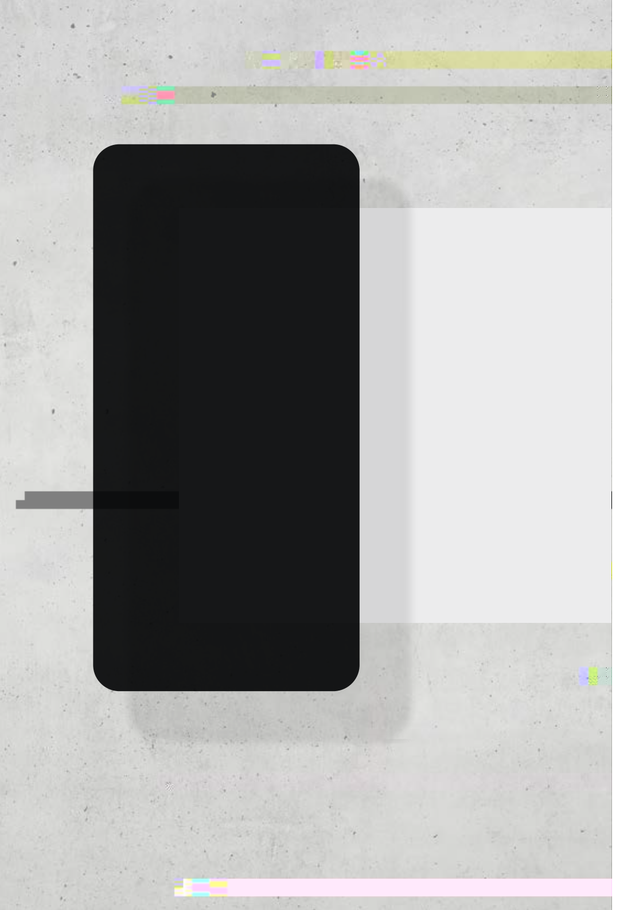
PIMS

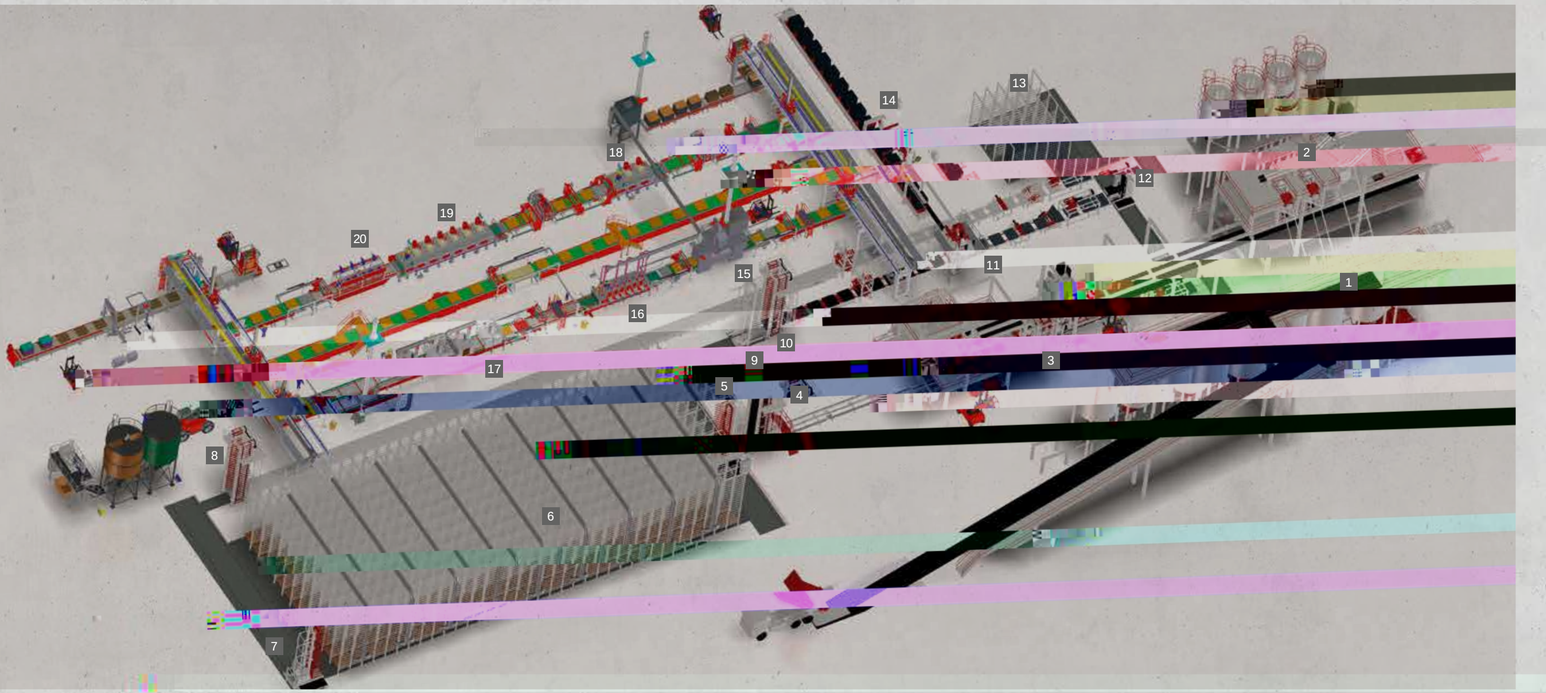
PLANT INFORMATION MANAGEMENT SYSTEM

PIMS can be used for optimized plant utilization and efficient personnel planning for maximum productivity. By optimally utilizing drying chambers and buffer systems, bottlenecks and downtimes are avoided. Thanks to just-in-time forecasting of product and order completion, customer logistics management is also optimized. Offline planning of ongoing orders and targeted control of engineer and standby times ensure smooth operations. PIMS can be integrated into plant and web visualization.





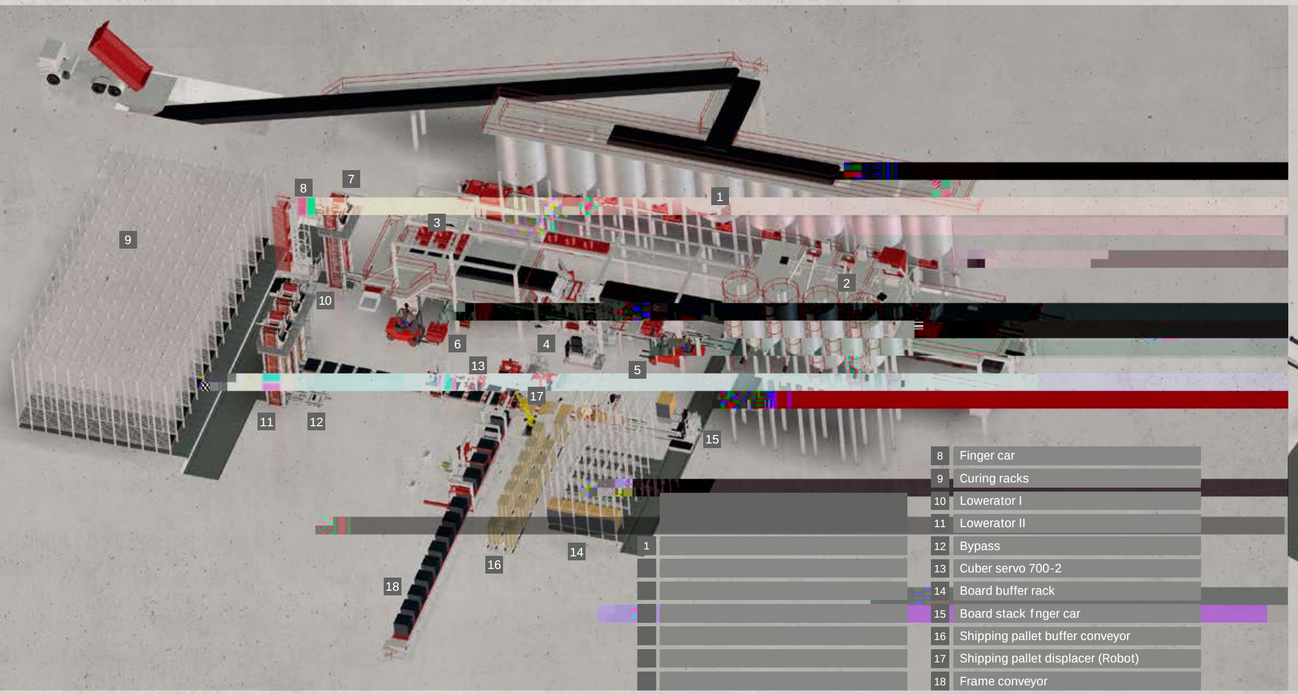




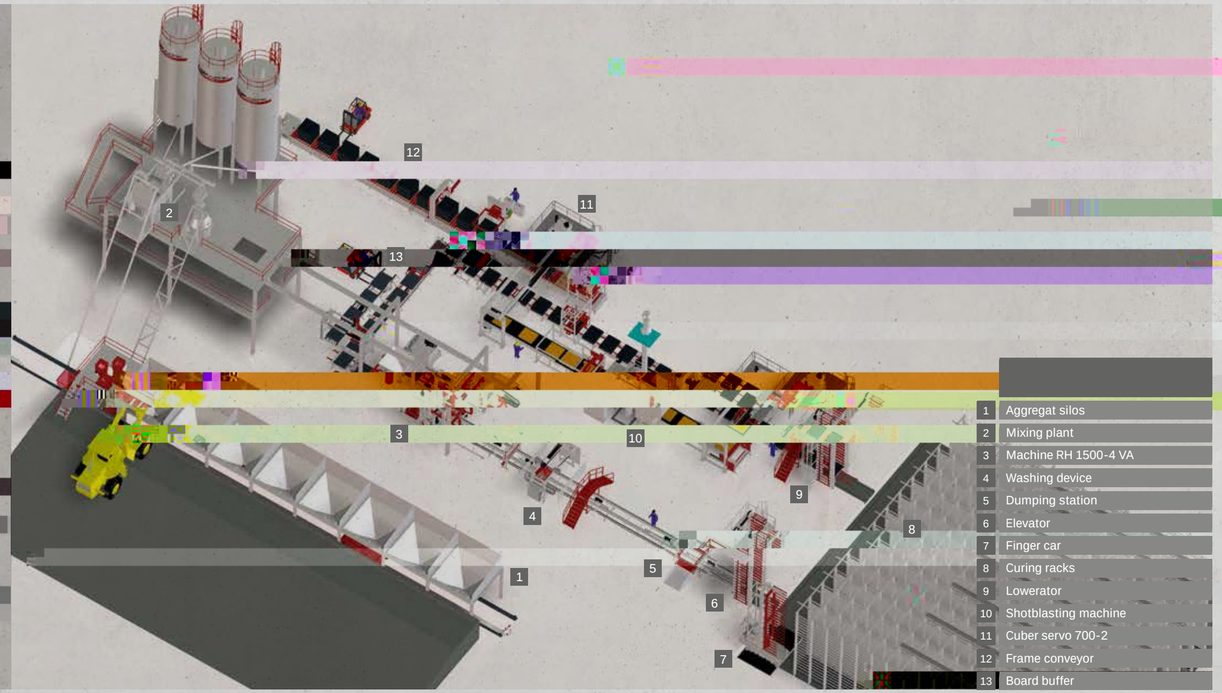
COMPLETE PLANTS

CUSTOMIZED

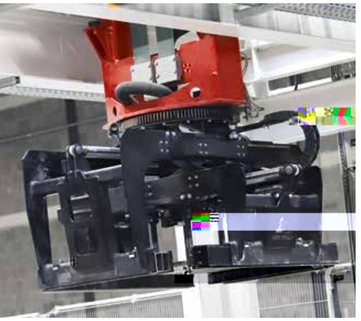
HESS develops, together with the customers, system concepts that are tailored to the respective requirements.



8	Finger car
9	Curing racks
10	Lowerator I
11	Lowerator II
12	Bypass
13	Cuber servo 700-2
14	Board buffer rack
15	Board stack fnger car
16	Shipping pallet buffer conveyor
17	Shipping pallet displacer (Robot)
18	Frame conveyor



1	Aggregat silos
2	Mixing plant
3	Machine RH 1500-4 VA
4	Washing device
5	Dumping station
6	Elevator
7	Finger car
8	Curing racks
9	Lowerator
10	Shotblasting machine
11	Cuber servo 700-2
12	Frame conveyor
13	Board buffer



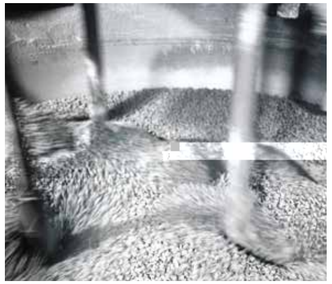
WE PUT CONCRETE INTO SHAPE.

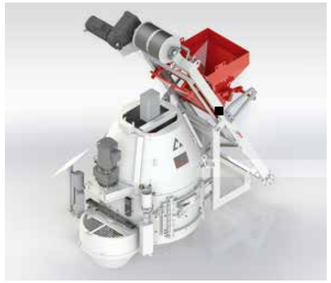
BATCHING AND MIXING PLANTS, CONVEYING TECHNOLOGY AND HANDLING

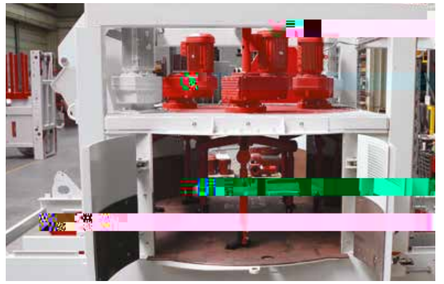
HESS

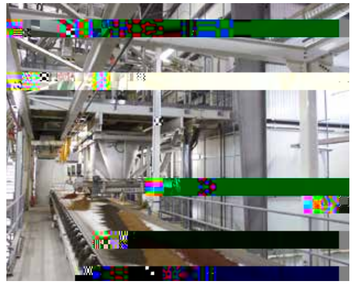
BATCHING AND MIXING PLANTS

For the production of high-quality concrete products (interlocking paving stones and slabs, curbstones, hollow blocks and segmental retaining walls, pipes and manholes as well as various precast elements), we offer the necessary mixing plants including all batching devices for aggregates, cement, and Color-Mix concrete.









- Self-supporting construction with lower and upper frame
- Separate drive system (for tool mounting 9.78s and mixingstartse
- toppxing and tsarting thefullyh ladend mirrg
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- aly, (for cemen f)-10.3eeuding t the mig a aug(rgies r)7.8(v)74(aislalem almos(dust-fpr)993eer)]T172815 0 Td( )Tj-17.815 -1.333 Td[(ccen
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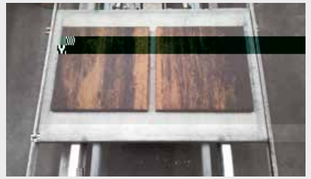
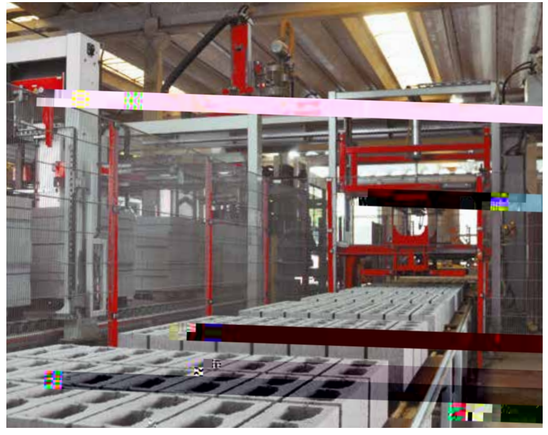
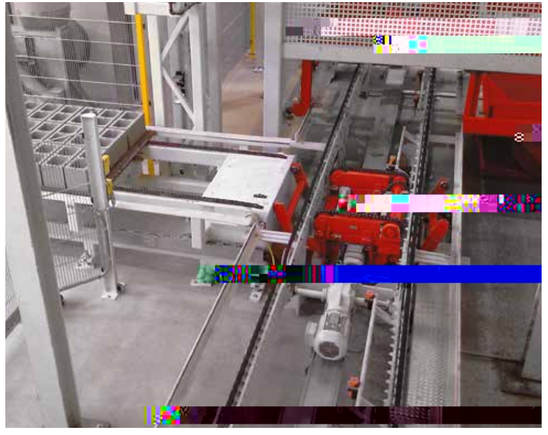
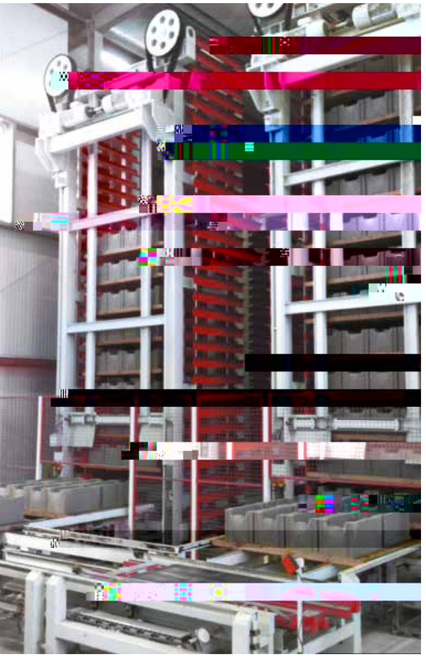


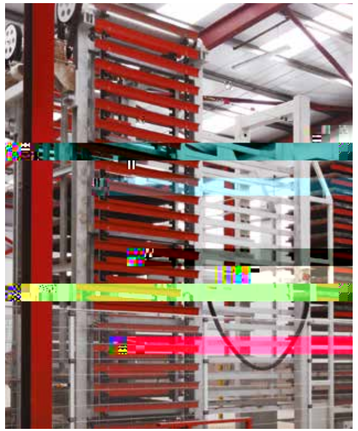




Allows the ejection of a production board with freshly produced products for comprehensive quality control on the wet side. Advantage: Production continues uninterrupted during the inspection. Afterwards, the production board is reintroduced into the produc-



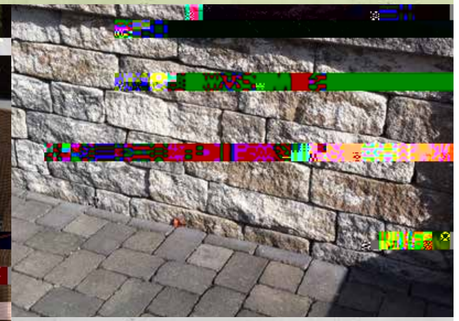
We offer the best solution for optimal utilization of drying chamber capacity with a customer-specifc storey con-fguration.



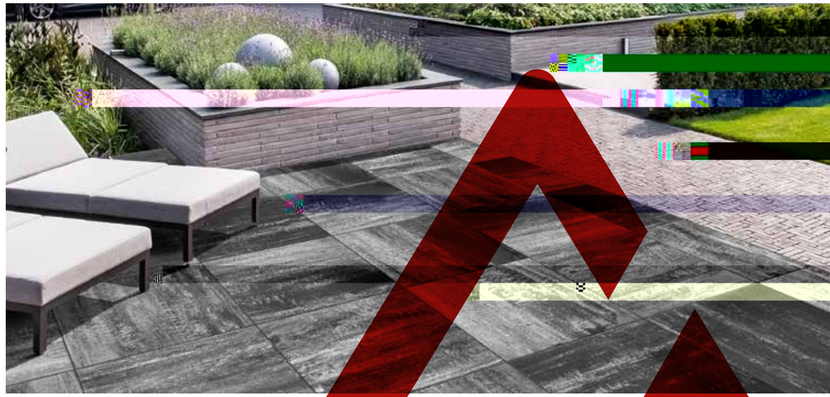
Increases the effciency of the linked system and can be installed on both the dry and wet sides.

To buffer a larger number of production bases, the transfer unit takes the packages from the dry side, places them in the buffer area, or returns them to the wet side.

Used for buffering board or sheet packages. The vehicle group picks up the board or sheet packages from the dry side, buffers them in a storage rack, or returns them to the wet side.



WE PUT CONCRETE INTO SHAPE.



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HESS GROUP