

A member of **TOPWERK**



HESS GROUP

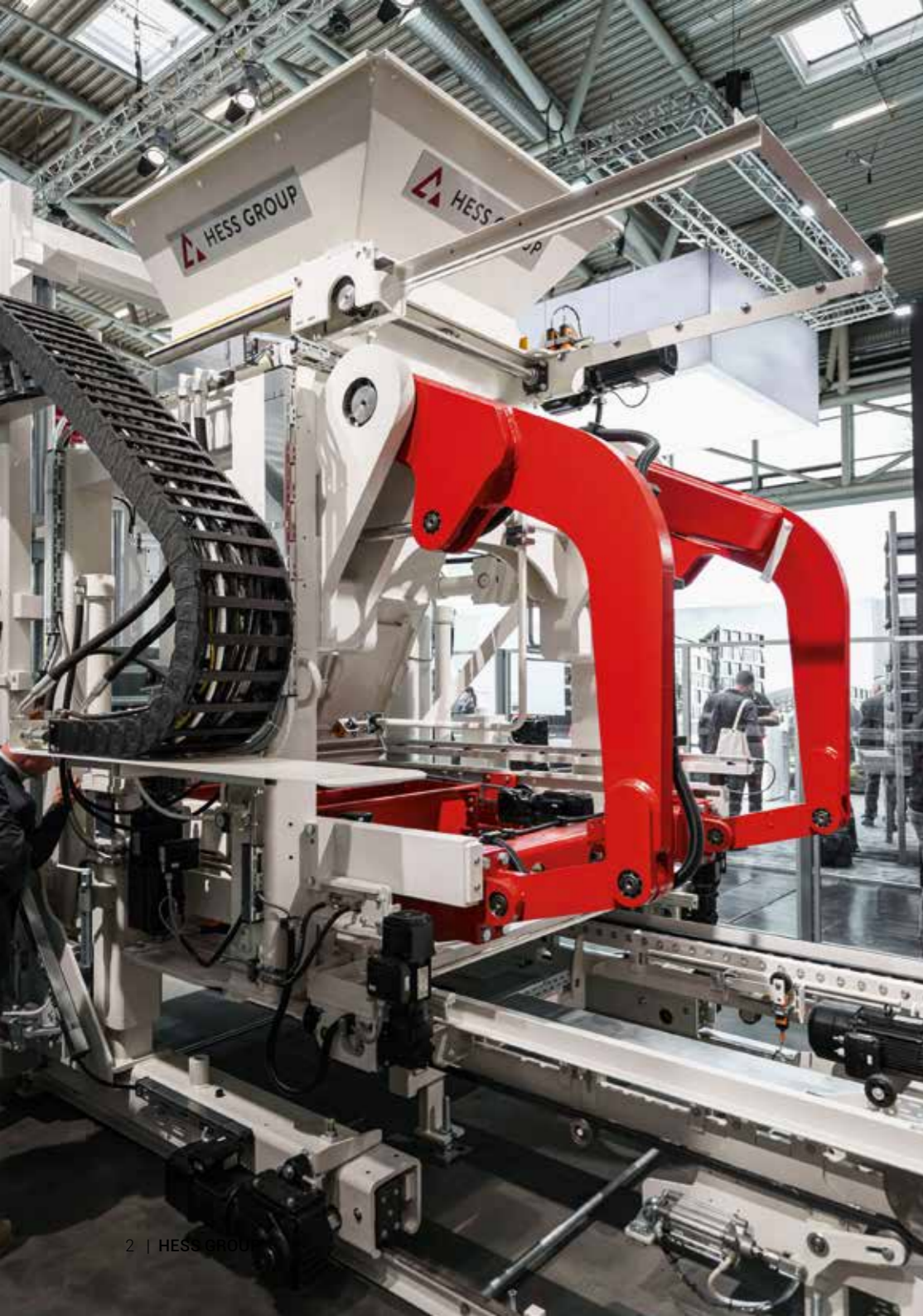
CONCRETE BLOCK AND PAVER MACHINE

RH 2000-4
RH 1500-4



We put concrete into shape

EN



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.

Product

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.

Team

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:

Customers

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.

Individual Action

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

Quality

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

Innovation

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.

Customer Focus

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



As an innovative manufacturer of high-quality concrete block and paver plants, we – together with our customers – ensure our mutual market leadership.

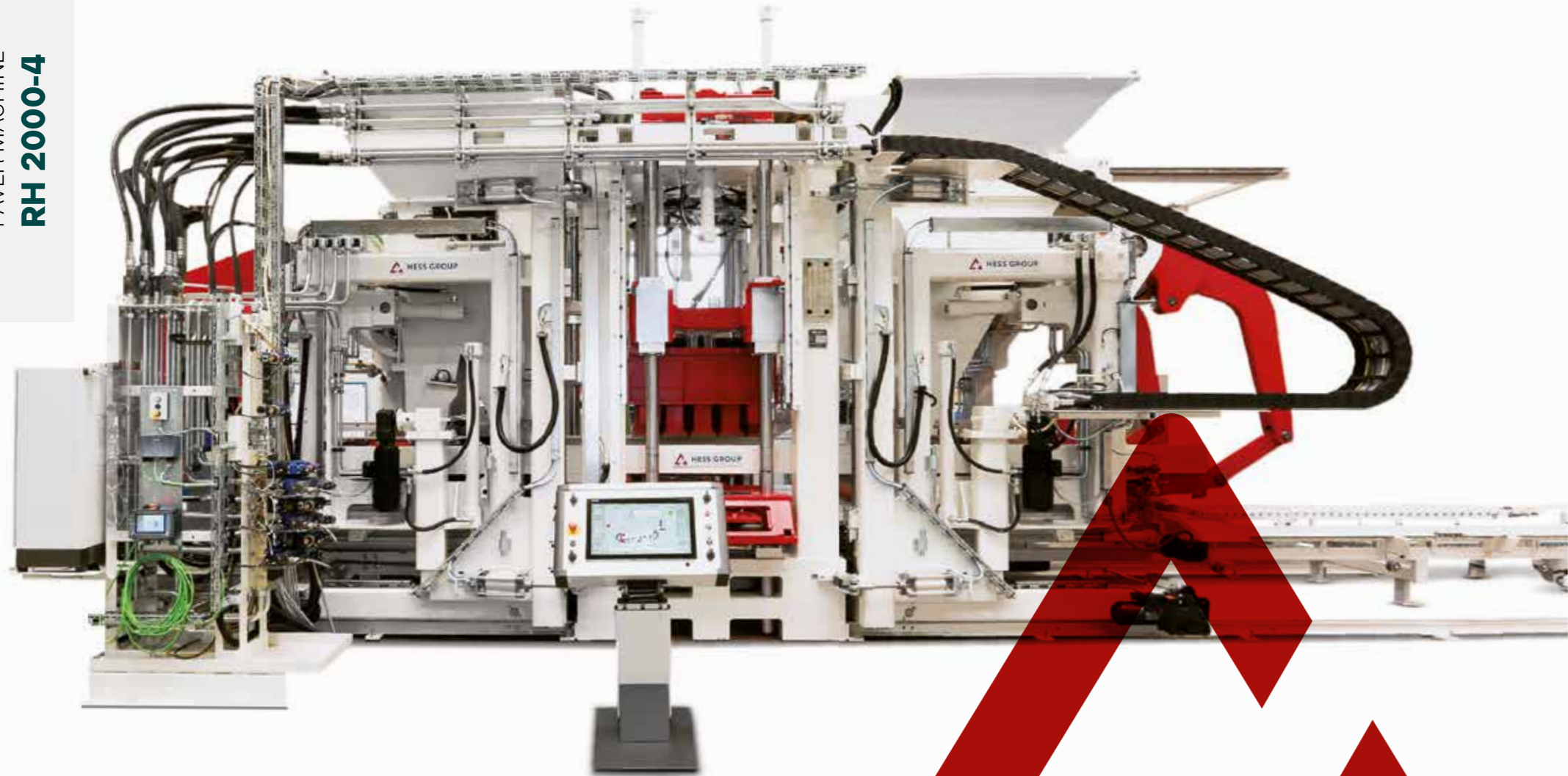




**WE PUT
CONCRETE
INTO SHAPE.**

CONCRETE BLOCK AND PAVER MACHINE

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.

TECHNICAL DATA*

		RH 2000-4 MVA Standard production area	RH 2000-4 MVA Large 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
	m ² 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
	m ² 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

* The production output is calculated at 85 percent shown the above table values 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.

RH 2000-4

Minimum production board depth [mm]	870	Height adjustable mold tray with pneumatic pusher	<input type="radio"/>
Maximum production board depth [mm]	1450	Mold in base position detection	<input type="radio"/>
Minimum production board width [mm]	1200	Mold change cart, manual	<input type="radio"/>
Maximum production board width [mm]	1520	Mold change cart, electric (from face mix side)	<input checked="" type="radio"/>
Minimum production height [mm]	25	Swivel crane for mold change	<input type="radio"/>
Maximum production height [mm]	500	Automatic fast mold change cart (from base mix side)	<input type="radio"/>
Table vibration Variofrequency, 1 table	<input type="radio"/>	Drive unit for base mix unit	<input type="radio"/>
Table vibration Variofrequency, 2 tables	<input type="radio"/>	Base mix hopper two outlet flaps	<input type="radio"/>
Table vibration Variotronic, 1 table	<input checked="" type="radio"/>	Lining for base mix hopper, PA/ Hardox	<input type="radio"/>
Table vibration Variotronic, 2 tables	<input type="radio"/>	Pneumatic tapper base mix hopper	<input type="radio"/>
WIDIA wear ledges for vibration table	<input type="radio"/>	Colormix device with draw plate, base mix	<input type="radio"/>
Standard hydraulics, Bosch-Rexroth	<input checked="" type="radio"/>	Pneumatic scraper base mix filler box	<input type="radio"/>
MLC+H control 2 tamper head cylinders	<input type="radio"/>	Table plate lining base mix (build-up welding material)	<input type="radio"/>
MLC+H control 4 tamper head cylinders	<input type="radio"/>	Horizontal adjustment of base mix table plate, electric	<input type="radio"/>
Leakage detection with M version	<input type="radio"/>	Fast lifting cylinders base mix for automatic mold change	<input type="radio"/>
Hydraulic function for mold flaps	<input type="radio"/>	Base mix silo flap with adjustable filling plates	<input type="radio"/>
Emergency operation hydraulics function with M version	<input type="radio"/>	Face mix part	<input type="radio"/>
Agitator with round bars and driven by an hydraulic cylinder	<input checked="" type="radio"/>	Lining face mix hopper PA/Hardox	<input type="radio"/>
Agitator with triangle bars and driven by an hydraulic cylinder	<input type="radio"/>	Pneumatic tapper face mix hopper	<input type="radio"/>
Stone height stops (4 rods) (without M version)	<input type="radio"/>	Colormix device with draw plate, face mix	<input type="radio"/>
Stone height stops with drawplate compensation	<input type="radio"/>	Planing roller, including pneumatic scraper at base and face mix fillerbox	<input type="radio"/>
Tamper head clamping, bolted	<input type="radio"/>	Rotating on base and face mix fillerbox (tamper head cleaning)	<input type="radio"/>
Tamper head clamping, hydraulic (non HESS machine molds)	<input type="radio"/>	Pneumatic scraper face mix filler box	<input type="radio"/>
Tamper head clamping, pneumatic	<input checked="" type="radio"/>	Table plate lining face mix, build-up welding	<input type="radio"/>
Tamper head vibration	<input type="radio"/>	Horizontal adjustment of face mix table plate, electric	<input type="radio"/>
Tamper head adapter (existing moulds, requires previous assessment)	<input type="radio"/>	Fast lifting cylinders face mix for automatic mold change	<input type="radio"/>
Electrical connection tamper head heating system	<input type="radio"/>	Face mix silo flap with adjustable filling plates	<input type="radio"/>
Tamper head cross cleaner, straight	<input type="radio"/>	Styrofoam inserter, swiveling	<input type="radio"/>
Tamper head cross cleaner curved curb stones	<input type="radio"/>	Central grease lubrication system	<input type="radio"/>
Tamper head brake (without M version)	<input type="radio"/>	Oil cooling tower	<input type="radio"/>
Pneumatic filling compensation tamper head	<input type="radio"/>	Hydraulic draw plate device	<input type="radio"/>
Oil spray lubrication for tamper head guidings	<input type="radio"/>	Hydraulic corepuller, base mix side	<input type="radio"/>
Mold clamping, pneumatic	<input checked="" type="radio"/>	Mobile panel machine	<input type="radio"/>
Height adjustable mold tray	<input type="radio"/>		

Standard equipment ● selectable as an option ○

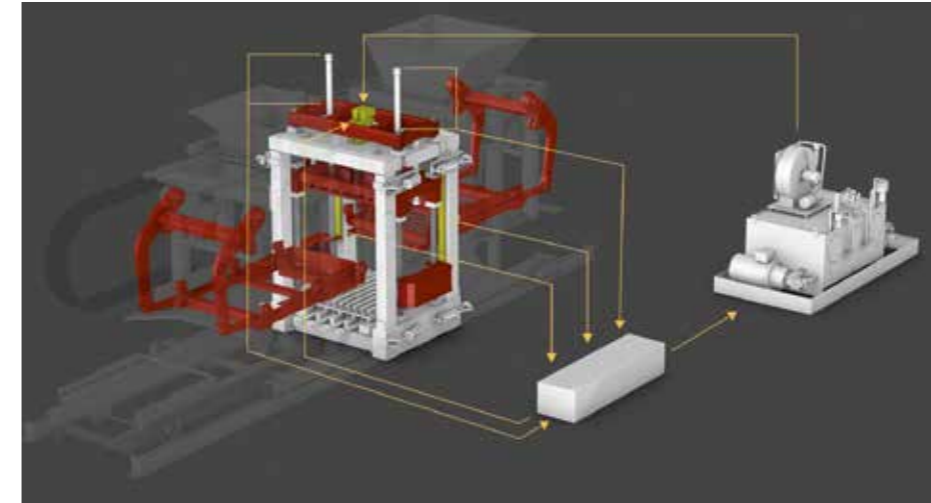
POWERED BY GERMAN ENGINEERING

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 filler 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 load. No mechanical wear.



High-performance hydraulics in MLC+H version



MLC+H control with 4 cylinders (optional)



Double vibrating table and vibrator drives (optional)

DOUBLE VIBRATING TABLE

- By using four separately acting vibrator drives, higher compaction force is achieved.
- More even filling of the concrete block mold through separately adjustable pre-vibration forces of the vibrating tables in the production direction.
- Better product quality through even filling of the mold and increased compaction force.
- Easily adjustable and precise height adjustment of the vibrating table bars through special adjustment units.



Electric horizontal table plate adjustment (optional)

ELECTRIC HORIZONTAL TABLE PLATE ADJUSTMENT

- Faster adjustment of the table plates for different mold dimensions in the production direction.
- Reduced mold change times.

QUICK

MOLD CHANGE SYSTEM

For the use of multiple concrete block and paver molds per workday, a quick mold change is crucial. HESS has developed the quick mold change system for this purpose. Both feeders of the machine are equipped with quick lift cylinders to quickly extract the previous mold out of the machine under the face mix unit and bring the new mold into the machine under the base mix unit.

Special loading and unloading stations in the conveyor lines on the wet side optimize the mold change process. The previous mold automatically leaves the machine on a production board and is ejected sideways. This can be removed when convenient, as the wet side is not blocked by the ejection of the mold. The new mold can be placed on the mold change cart without affecting production.

■.....➔ **Result:**
Mold change with highest efficiency



See video
for explanation



Hydraulic lifting system for quick mold change (optional)



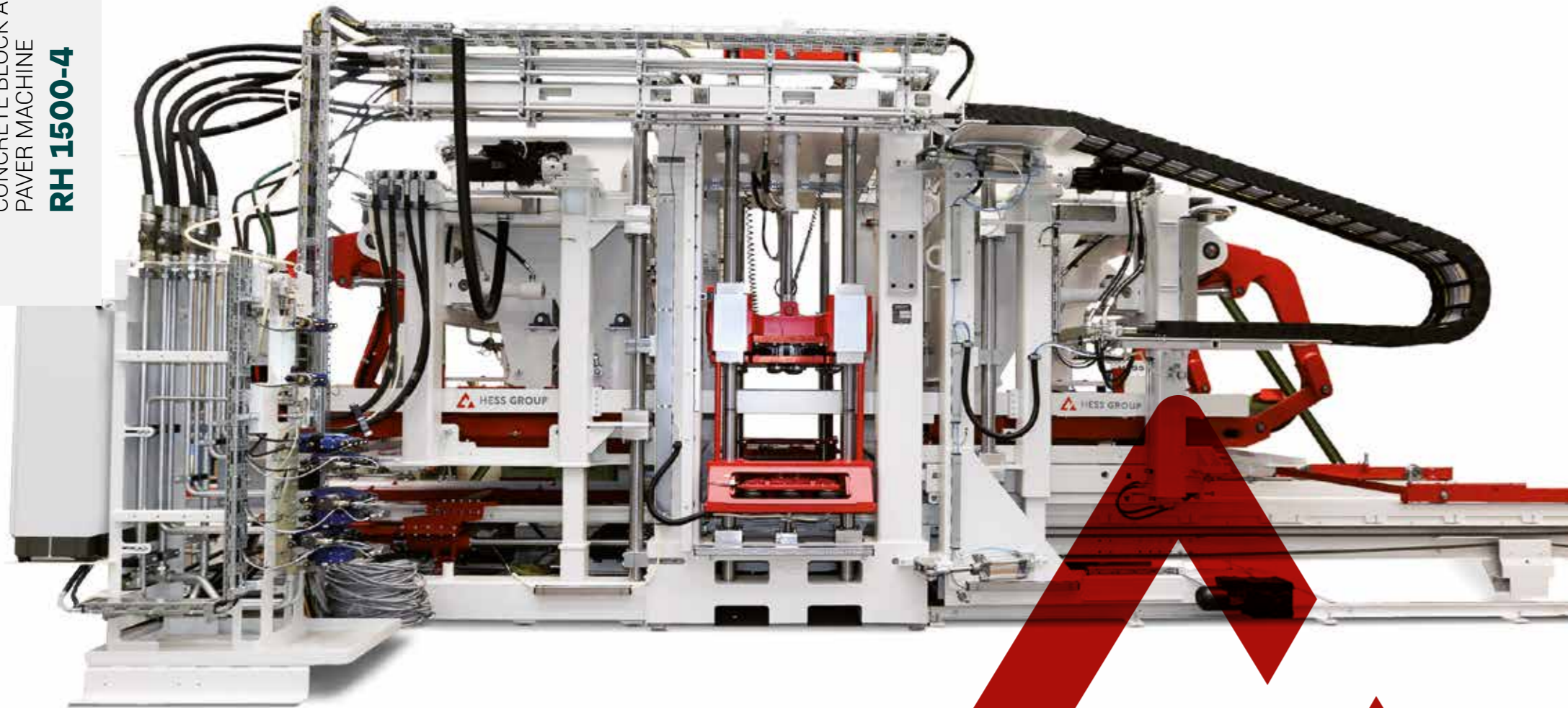
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CONCRETE BLOCK AND PAVER MACHINE

RH 1500-4

HESS GROUP

HESS GROUP



HESS RH 1500-4

**PRECISION AT
HIGH PERFORMANCE**

Developed for high-performance applications, the RH 1500 impresses with short cycle times and dynamic movements. This is made possible by the special control technology and innovative hydraulic system. The interaction guarantees reliable and efficient concrete block and paver production.

RH 1500-4 VA TECHNICAL DATA*

Production board size [mm]**		1,400 x 1,100
Production area [mm]**		1,300 x 1,050
Min. product height [mm]		25
Min. product height [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
	m ² 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
	m ² in 8 h	2,114
	Quantity of products/mold	54
Hollow block 20 x 40 x 20 cm	Cycle time [s]	14.5
	quantity in 8 h	20,258
	Quantity of products/mold	12

* The production output is calculated at 85 percent shown the above table values 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.
** Different production board sizes available.

RH 1500-4

Min. production board depth [mm]	870	Mold in base position detection	<input type="radio"/>
Max. production board depth [mm]	1150	Mold change cart, manual	<input type="radio"/>
Min. production board width [mm]	1200	Mold change cart, electric (from face mix side)	<input checked="" type="radio"/>
Max. production board width [mm]	1520	Swivel crane for mold change	<input type="radio"/>
Min. production height [mm]	25	Automatic fast mold change cart (from base mix side)	<input type="radio"/>
Max. production height [mm]	500	Drive unit for base mix unit	<input type="radio"/>
Table vibration Variofrequency, 1 table	<input type="radio"/>	Base mix hopper two outlet flaps	<input type="radio"/>
Table vibration VARIO TRONIC, 1 table	<input checked="" type="radio"/>	Lining for base mix hopper, PA/ Hardox	<input type="radio"/>
WIDIA wear ledges for vibration table	<input type="radio"/>	Pneumatic tapper base mix hopper	<input type="radio"/>
Standard hydraulic, Bosch-Rexroth	<input checked="" type="radio"/>	Colormix device with draw plate, base mix	<input type="radio"/>
Servo hydraulic M version with 2 tamper head cylinders	<input type="radio"/>	Pneumatic scraper coarse mix filler box	<input type="radio"/>
Leakage detection with M version	<input type="radio"/>	Table plate lining coarse mix (build-up welding material)	<input type="radio"/>
Hydraulic mold flaps	<input type="radio"/>	Horizontal adjustment of base mix table plate, electric	<input type="radio"/>
Emergency operation hydraulic system with M version	<input type="radio"/>	Fast lifting cylinders base mix for automatic mold change	<input type="radio"/>
Agitator with round bars and driven by an hydraulic cylinder	<input checked="" type="radio"/>	Siloflap with adjustable filling plates	<input type="radio"/>
Agitator with triangle bars and driven by an hydraulic cylinder	<input type="radio"/>	Face mix unit	<input type="radio"/>
Stone height stops (4 rods) (without M Version)	<input type="radio"/>	Lining for face mix hopper, PA/ Hardox	<input type="radio"/>
Stone height stops with drawplate compensation	<input type="radio"/>	Pneumatic tapper face mix hopper	<input type="radio"/>
Tamper head clamping, bolted	<input type="radio"/>	Colormix device with draw plate, face mix	<input type="radio"/>
Tamper head clamping, hydraulic (non HESS machine molds)	<input type="radio"/>	Planing roller, including scrapers at base and face fillerboxes	<input type="radio"/>
Tamper head clamping, pneumatic	<input checked="" type="radio"/>	Rotating brush on face mix fillerbox (tamper head cleaning)	<input type="radio"/>
Tamper head vibration	<input type="radio"/>	Pneumatic scraper face mix filler box	<input type="radio"/>
Tamper head adapter (existing moulds, requires previous assessment)	<input type="radio"/>	Table plate lining face mix (build-up welding material)	<input type="radio"/>
Electrical connection tamper head heating system	<input type="radio"/>	Horizontal adjustment of face mix table plate, electric	<input type="radio"/>
Tamper head cross cleaner, straight	<input type="radio"/>	Fast lifting cylinders face mix for automatic mold change	<input type="radio"/>
Tamper head cross cleaner curved curb stones	<input type="radio"/>	Face mix silo flap with adjustable filling plates	<input type="radio"/>
Tamper head brake (without M Version)	<input type="radio"/>	Polysterene insert device	<input type="radio"/>
Pneumatic filling compensation tamper head	<input type="radio"/>	Central grease lubrication system	<input type="radio"/>
Oil spray lubrication for tamper head guidings	<input type="radio"/>	Oil cooling tower	<input type="radio"/>
Mold clamping, pneumatic	<input checked="" type="radio"/>	Hydraulic draw plate device	<input type="radio"/>
Height adjustable mold tray	<input type="radio"/>	Hydraulic corepuller, base mix side	<input type="radio"/>
Height adjustable mold tray with pneumatic pusher	<input type="radio"/>	Mobile panel machine	<input type="radio"/>

Standard equipment ● selectable as an option ○

HESS

FILLER BOX PLANING ROLLER

PERFECTED PRODUCTION
OF FINE CONCRETE SURFACES

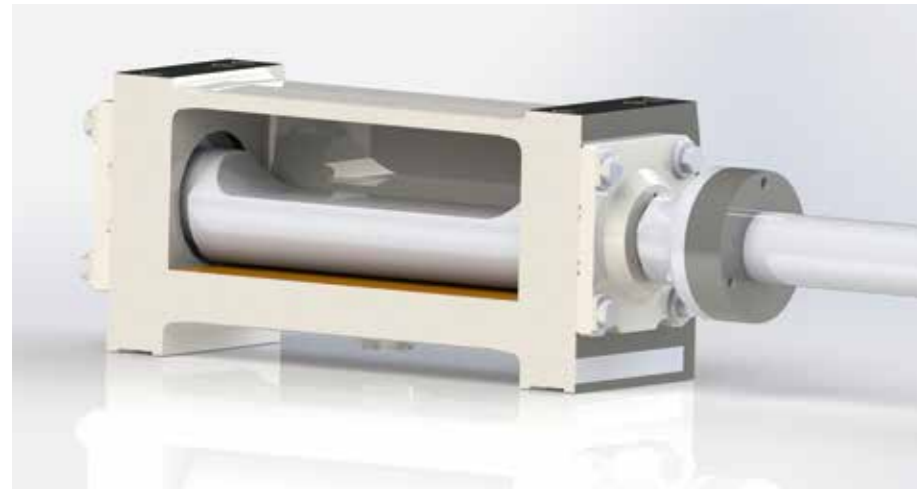
- Patented production system to ensure a homogeneous layer thickness of the face concrete over the entire production area
- The scraper frame in the front area of the filler box is replaced by a hard-chromed smoothing roller
- Both filler boxes (base and face concrete) are equipped with pneumatic scrapers in the front area

ADVANTAGES

- ▶ Avoids „digging“ concrete out of the mold during the reverse movement of the feeder. The layer thickness of the face concrete is uniform across the entire product.
- ▶ Especially suitable for large concrete slabs.
- ▶ Improved cycle time by eliminating reversing during face concrete filling.
- ▶ Significantly closed product surface.
- ▶ Better bond between core and face concrete.
- ▶ A higher moisture content in the face concrete can be achieved, resulting in improved color intensity of the product.
- ▶ For Colormix products, a more natural-looking surface appearance of the color gradient is achieved (no striping).



See video
for explanation



Model oil bath vibrator



VarioTronic vibrating table, view from below

HESS

VARIOTRONIC WITH OIL BATH VIBRATORS

FULLY ELECTRONIC CONTROL

- Maximum control and precision through servo-electronic control.
- Amplitude control through independently adjustable angles and vibrator speed for optimal vibration parameters during mold filling and main compaction.
- Shorter vibration duration through angle adjustment in milliseconds at constant rotational speed.
- Vibration shafts are housed in separate, closed housings in an oil bath.

ADVANTAGES OF THE OIL BATH VIBRATOR

- ▶ Constant, reliable bearing lubrication.
- ▶ Dry runs within the housing are excluded.
- ▶ Extended warranty on vibrator bearing.



Mold side guide in the mold clamping (standard)



Second silo outlet with second silo flap (optional)



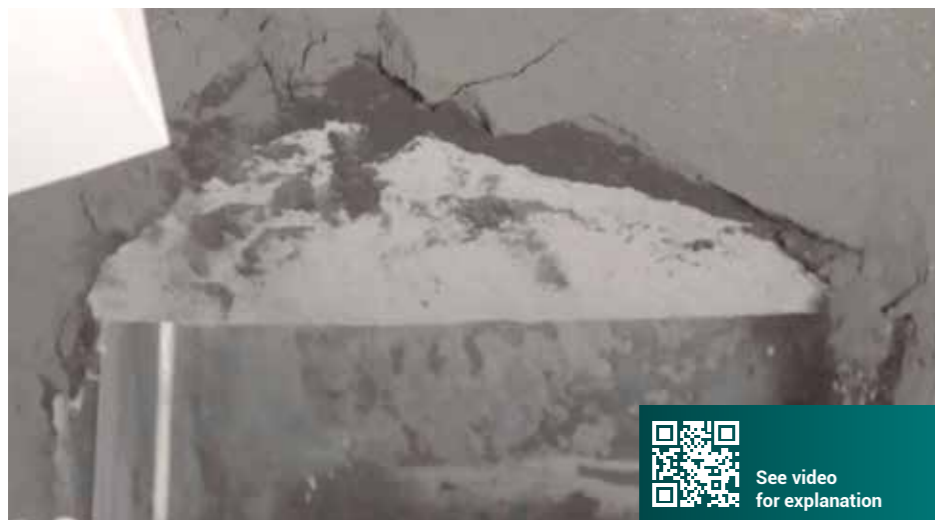
Rubberized tamper head plate (standard)



Tamper head vibration (optional)



Colormix device with draw plate



Colormix device with two layers of colored concrete

HESS

COLORMIX DRAW PLATE

PRODUCTION OF MULTICOLORED CONCRETE PRODUCTS

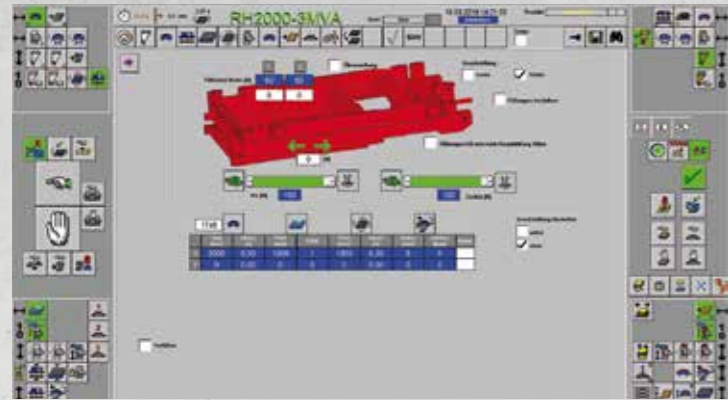
- Cost-effective way to produce multicolored concrete products.
- Can be used on both face and base concrete silos.
- Adjustable parameters at the control panel.

TECHNICAL OVERVIEW CONCRETE BLOCK AND PAVER MACHINES*

	RH 500	RH 600	RH 1450	RH 1500 VA	RH 2000 M-Version – standard production area	RH 2000 M-Version – large production area
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
Min. 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
	m ² in 8 h	863	1,258	2,114	2,517	2,644
	Quantity of products/mold	30	36	54	54	54
Paving stone 10 x 20 x 6 cm with face mix	Cycle time [s]	22	18	14.5	12.5	11.5
	m ² in 8 h	667	979	1,823	2,114	2,299
	Quantity of products/mold	30	36	54	54	54
Hollow block 20 x 40 x 20 cm	Cycle time [s]	20	16	16,5	14,5	13,5
	Quantity in 8 h	6,120	13,770	17,800	20,258	21,760
	Quantity of products/mold	5	9	12	12	12

* The production output is calculated at 85 percent shown the above table values 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.

** Different production board sizes available.



Visualization of mold and tamper head control



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

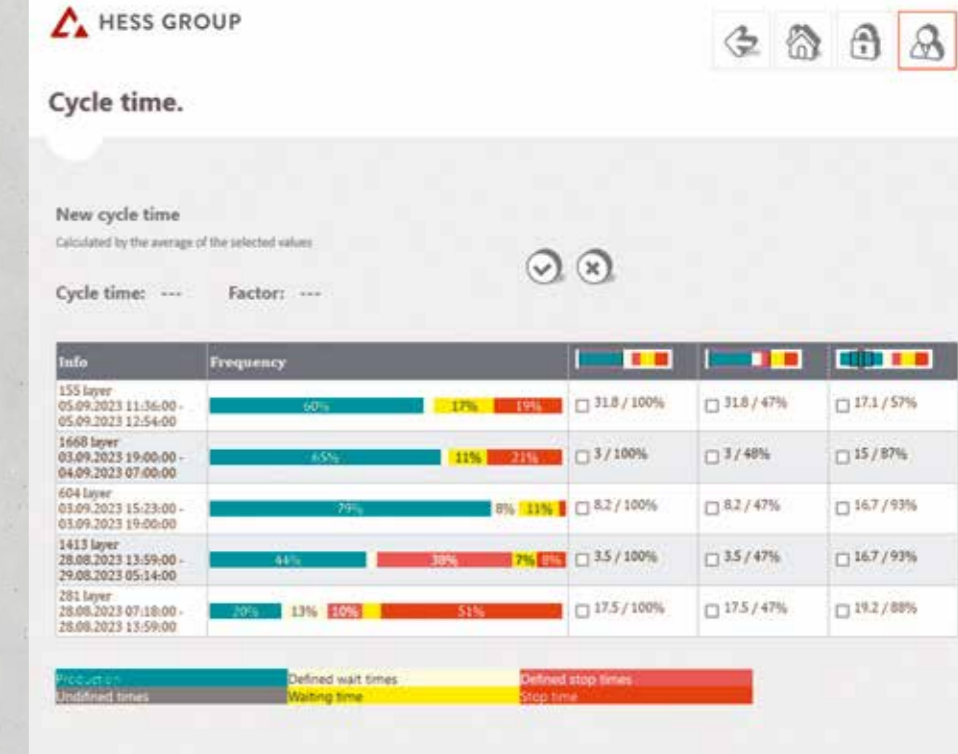
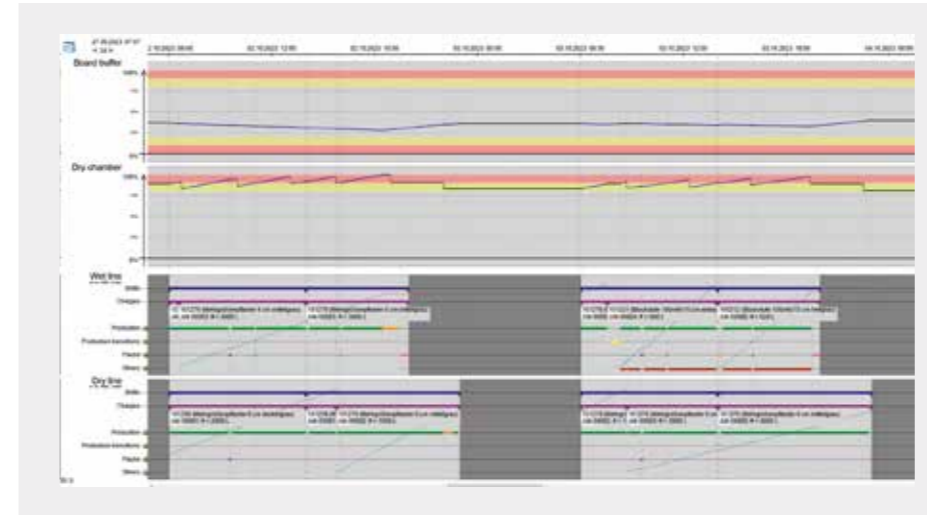
- Master recipe
- Comparable recipe
- Version management recipe management
- Login using an RFID pen at the control panel

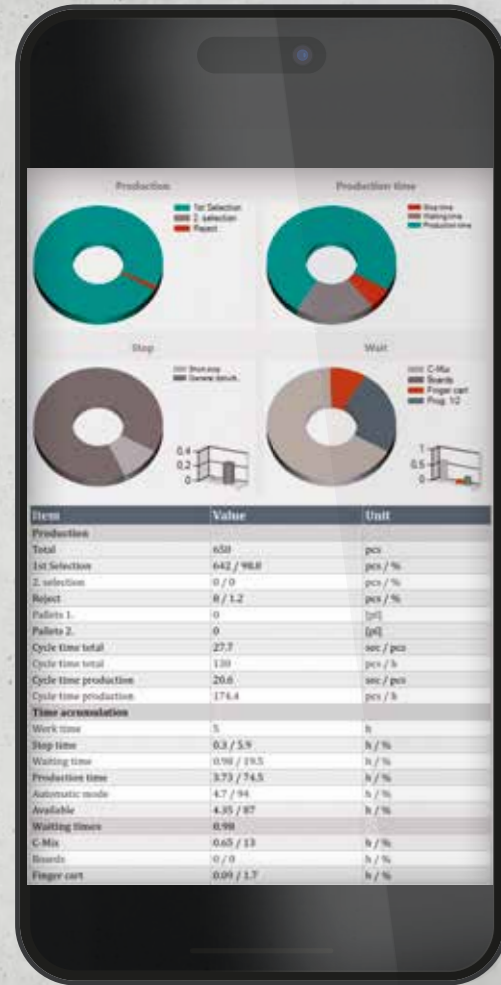
HESS

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.





FEATURES

- Production data can be viewed anywhere and anytime via a web browser.
- Standard on every plant.
- Retrofit possible, technical inspection required.
- Production data is collected, evaluated, and compared.
- Individual plant components can be recorded separately: mixer, concrete block and paver machine, finger cart, drying chamber.

HESS
PRODUCTION STATISTICS

With HESS production statistics, all relevant production data such as orders, shifts, shift management, quantities, and downtimes can be recorded and monitored by the customer. All data is collected in an SQL database and can be filtered by the corresponding locations, plants, and plant components. Additional filtering options for the acquired data are available and can be provided for external systems upon request. This makes it possible to evaluate multiple production plants with one recording system. The data can be easily and conveniently accessed via a web browser, so the recorded production data can be viewed worldwide at any time, provided the customer's network infrastructure is in place.

In the course of increasing digitization of production (Industry 4.0), HESS production statistics can be used to improve relevant manufacturing processes.

- Digital chamber and warehouse management.
- Connection to ERP systems (SAP, Navision).
- Integration into customer order management.
- Feedback of produced quantities to customer systems.
- Product tracking (also via QR code).

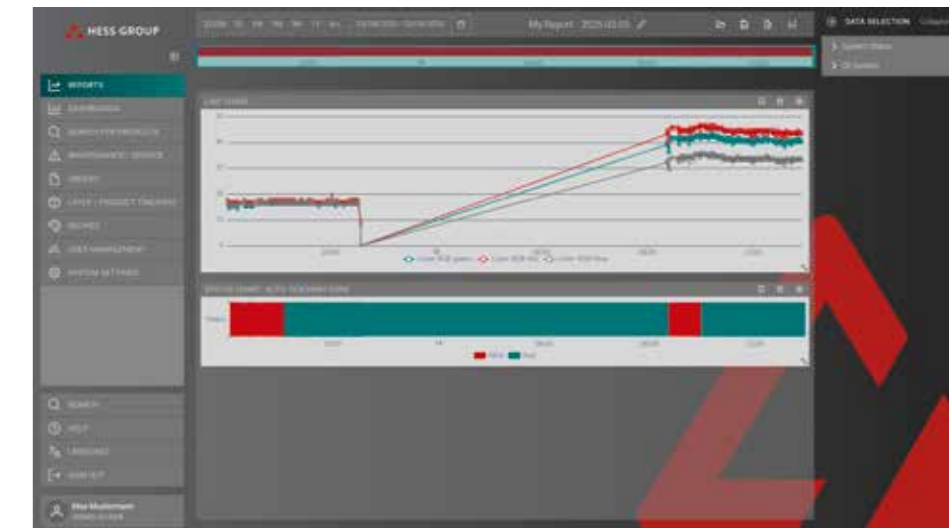
ADDITIONAL OPTIONS

- Standard mold management
- mold management scan administration
- Connection to an ERP system
- Control of label printer
- Inline QC integration professional
- Bulk density measurement integration professional
- Inline QC integration ultimate with product tracking up to sorting station
- Bulk density measurement integration ultimate with product tracking up to lift

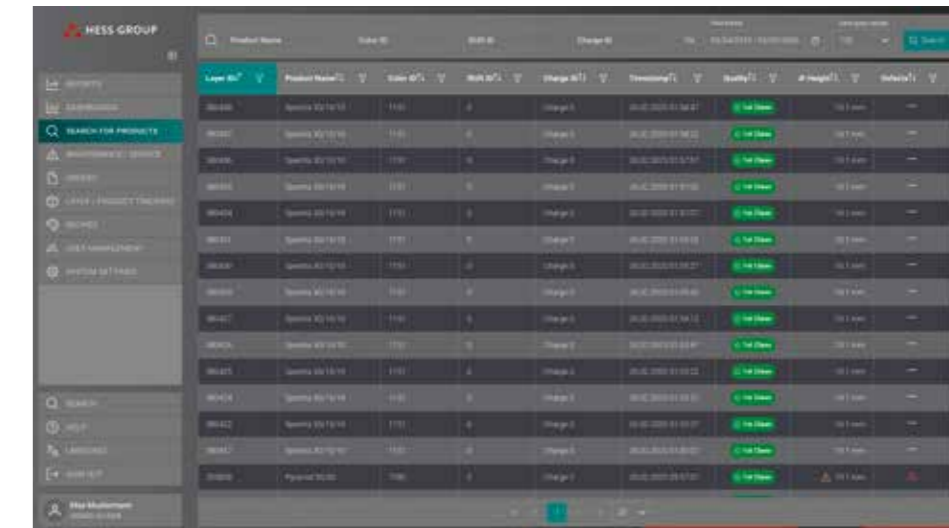
Software Modules	Standard statistics	Professional	Ultimate
Production data acquisition	●	●	●
24h period report	●	●	●
Drying chamber management	●	●	●
Shift management		●	●
Order management			●
Product layer tracking up to the packaged product			●

ADVANTAGES

- Process feedback leads to time and cost savings.
- Increase or ensure quality.



Reports



Search for products



**RH 2000-4 MVA
with large value-adding line**

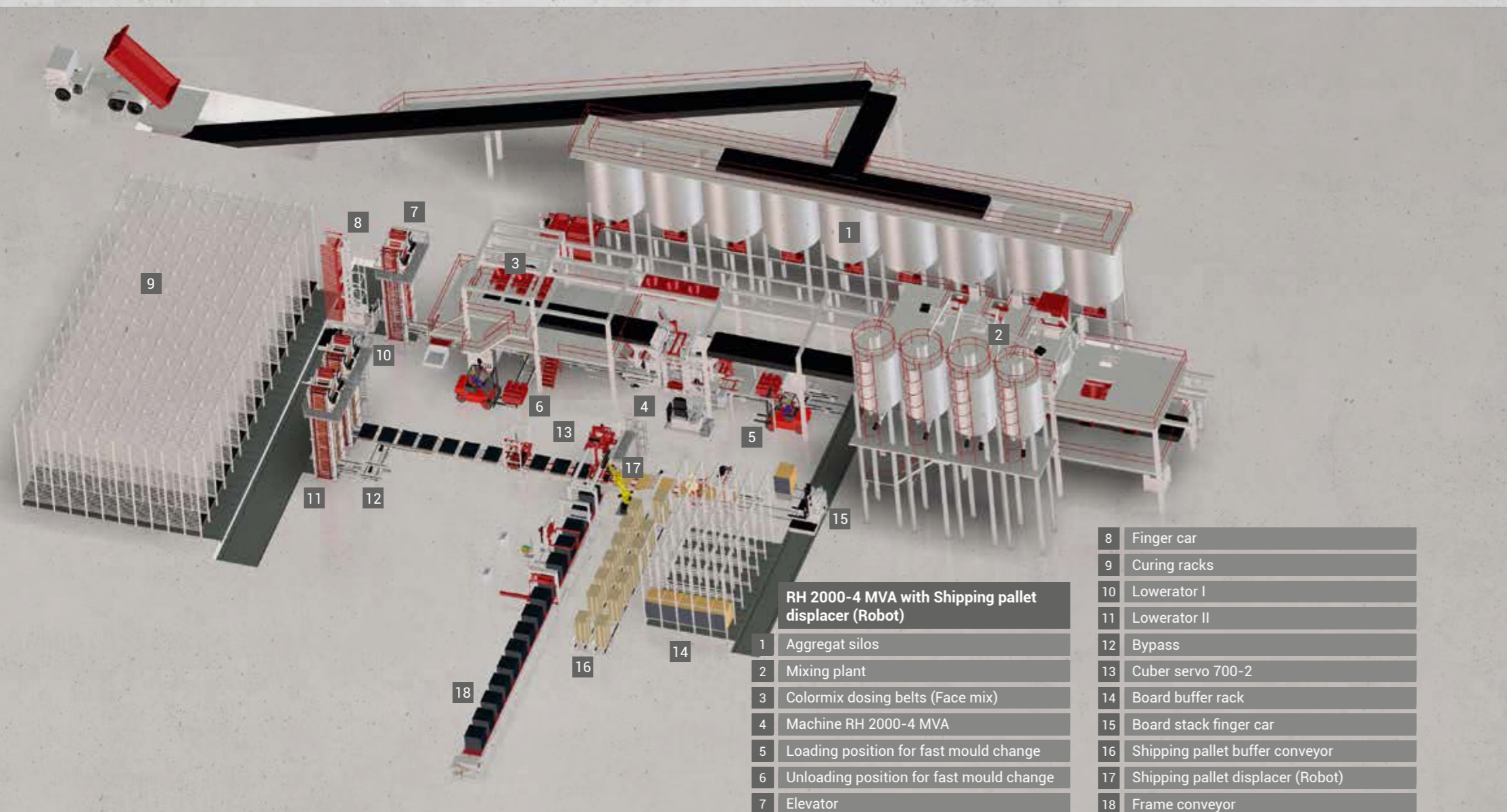
- | | |
|----|-------------------------|
| 1 | Aggregat silos |
| 2 | Mixing plant |
| 3 | Machine RH 2000-4 MVA |
| 4 | Elevator |
| 5 | Finger car I |
| 6 | Curing racks |
| 7 | Finger car II |
| 8 | Lowerator I |
| 9 | Buffer rack |
| 10 | Lowerator II |
| 11 | Cuber servo 700-2 |
| 12 | Pallet stack finger car |
| 13 | Pallet buffer rack |
| 14 | Frame conveyor |
| 15 | Shot blasting machine |
| 16 | Curling |
| 17 | Coating system |
| 18 | Ginding I |
| 19 | Ginding II |
| 20 | Air blast device |

HESS

COMPLETE PLANTS

CUSTOMIZED
MARKET-ORIENTED
OPTIMIZED FOR THE CUSTOMER

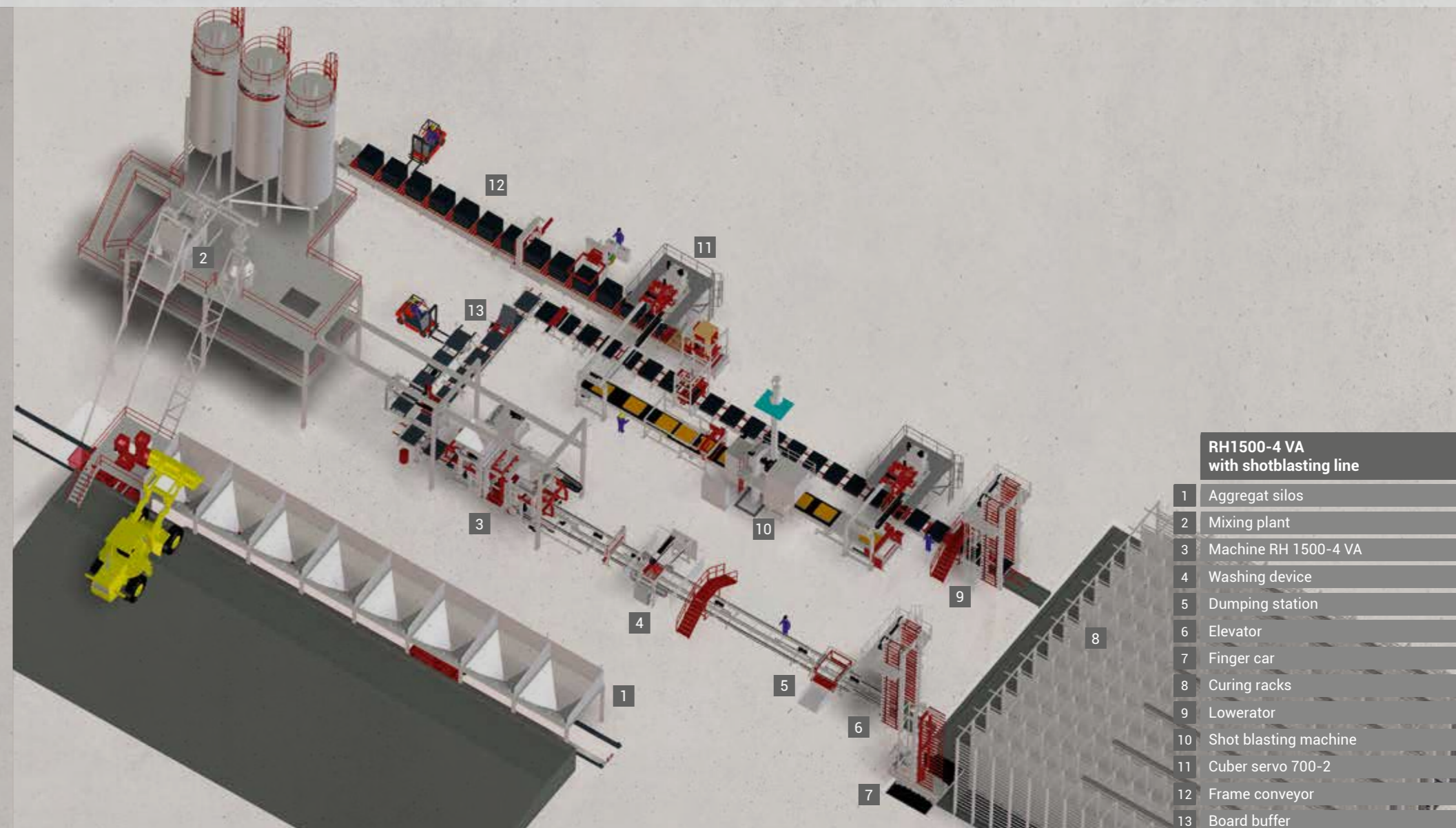
HESS develops, together with the customers, system concepts that are tailored to the respective requirements.



RH 2000-4 MVA with Shipping pallet displacer (Robot)

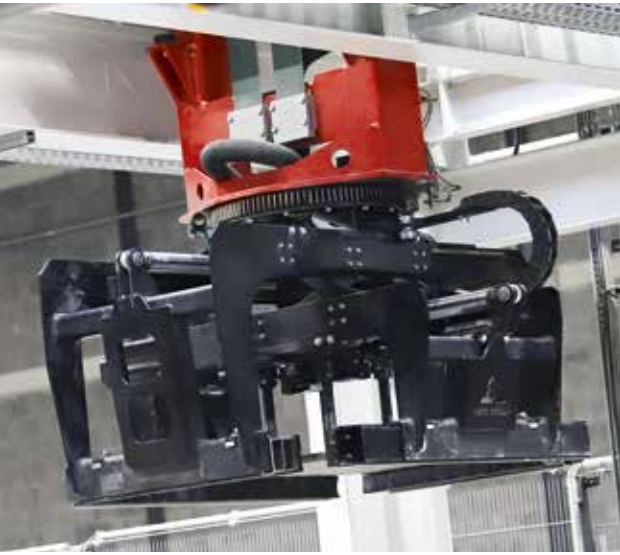
- 1 Aggregat silos
- 2 Mixing plant
- 3 Colormix dosing belts (Face mix)
- 4 Machine RH 2000-4 MVA
- 5 Loading position for fast mould change
- 6 Unloading position for fast mould change
- 7 Elevator

- 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 finger car
- 16 Shipping pallet buffer conveyor
- 17 Shipping pallet displacer (Robot)
- 18 Frame conveyor



RH1500-4 VA with shotblasting line

- 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 Shot blasting machine
- 11 Cuber servo 700-2
- 12 Frame conveyor
- 13 Board buffer



**WE PUT
CONCRETE
INTO SHAPE.**



SPECIAL PLANTS

**BATCHING AND MIXING
PLANTS, CONVEYING
TECHNOLOGY AND
HANDLING**



HESS

BATCHING AND MIXING PLANTS

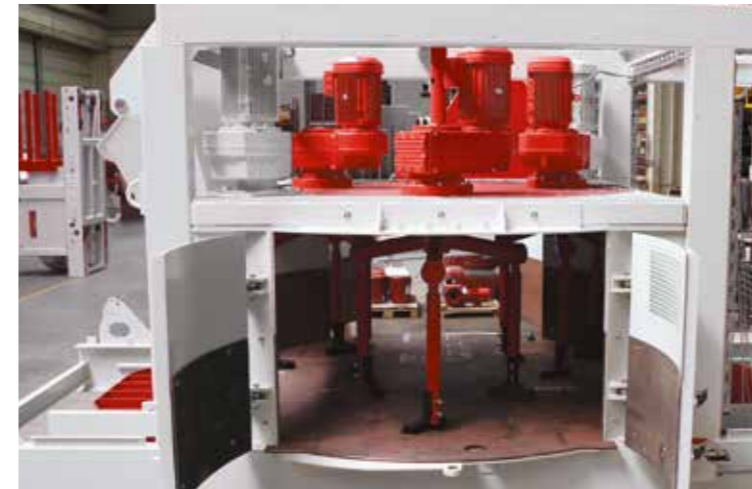
For the production of high-quality concrete products (interlocking paving stones and slabs, curbstones, hollow blocks and segmental retaining walls, pipes and man-holes as well as various precast elements), we offer the necessary mixing plants including all batching devices for aggregates, cement, and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



Interior view of mixer with material



Face concrete mixer SM 500



Interior view of mixer



Color-Mix dosing belts

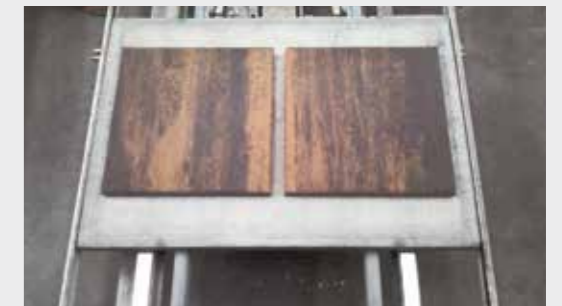
TECHNICAL OVERVIEW OF BATCHING AND MIXING PLANTS*

	SM 500	SM 1500	SM 2250	SM 3375	SM 4500
Dry filling [l]	500	1,500	2,250	3,375	4,500
Max. filling weight [kg]	800	2,400	3,600	5,400	7,200
Compacted concrete output/batch [m³]	0.333	1	1.5	2.25	3
Main drive [kW]	15	22	30	2 x 22	3 x 22
Number of mixing stars and agitator [pcs]	1+1	2	2	3	3
Skip hoist drive [kW]	7.5	18.5	18.5	22	30

* Technical Data are subject to change.

FEATURES OF PLANETARY MIXER SERIES SM

- Self-supporting construction with lower and upper frame
- Separate drive system (for tool mounting plate and mixing stars)
- Stopping and starting the fully loaded mixer at any time possible
- Two large opposite doors for unobstructed cleaning and maintenance
- Two large discharge openings in the floor
- Significantly less concrete residue and cleaning effort due to special water supply
- Optionally, for cement feeding to the mixer an auger is available (almost dust-free cement feeding)
- Because of its high mixing intensity, this method is particularly suitable for producing concrete with a low water-cement ratio.



Multi-Color product

HESS

CONVEYING TECHNOLOGY AND HANDLING SYSTEMS

CONVEY. BUFFER. STORE.

To make the production process of concrete products efficient and economical, powerful dosing, mixing, and concrete block and paver machine as well as transport and handling systems are essential. Therefore, HESS offers an extensive program of proven systems for conveying, buffering, and storing fresh and hardened concrete products.

In the production of paving stones, cycle times of less than 10 seconds are not uncommon. Therefore, logistics on the wet and dry sides play a crucial role in quality and economy.



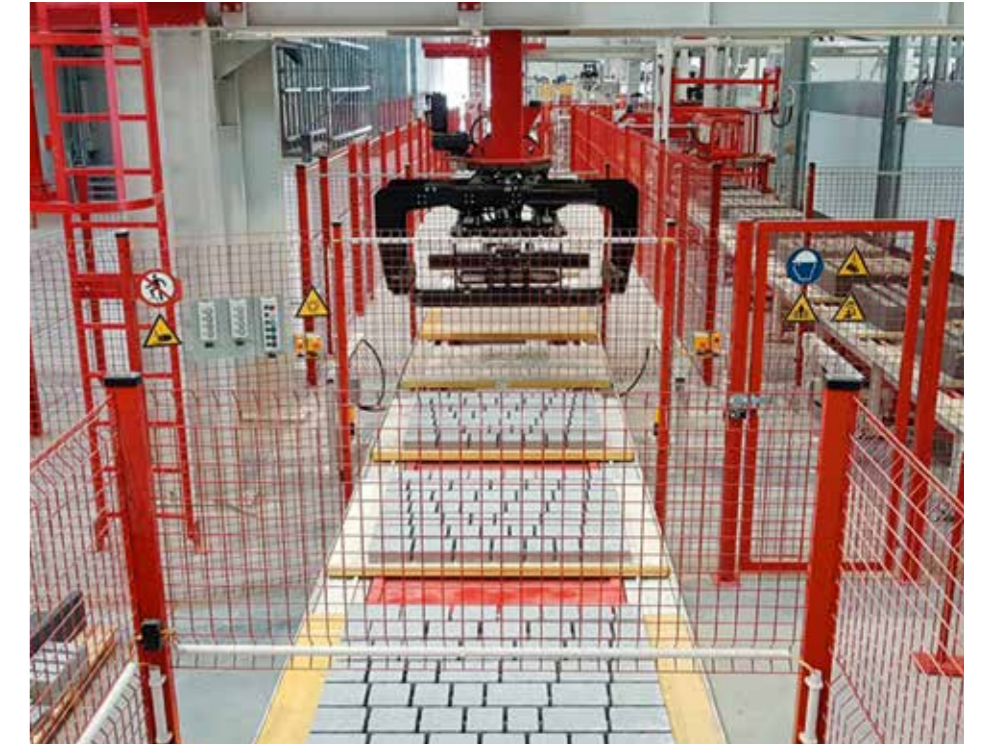
Dry side with hollow blocks

The conveyor technology on the dry side is designed according to customer requirements. HESS has a broad portfolio to cover all customer needs. Among others, V-belt, free-lift, or ratchet conveyors can be used.



Ejection station

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 production line.



Cuber

All drives are servo-controlled, allowing overlapping movements and resulting in lower cycle times. The servo control ensures low power consumption. The systems are available with both electric and hydraulic grippers. A safe hoist is ensured by the use of two separate toothed belts. The lifting capacity is available between 700 kg and 900 kg.



Lowerator with bypass



Finger cart system load capacities (8.5t, 14t, 24t)

We offer the best solution for optimal utilization of drying chamber capacity with a customer-specific storey configuration.



Buffer rack

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



Transfer unit for board or sheet packages

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.

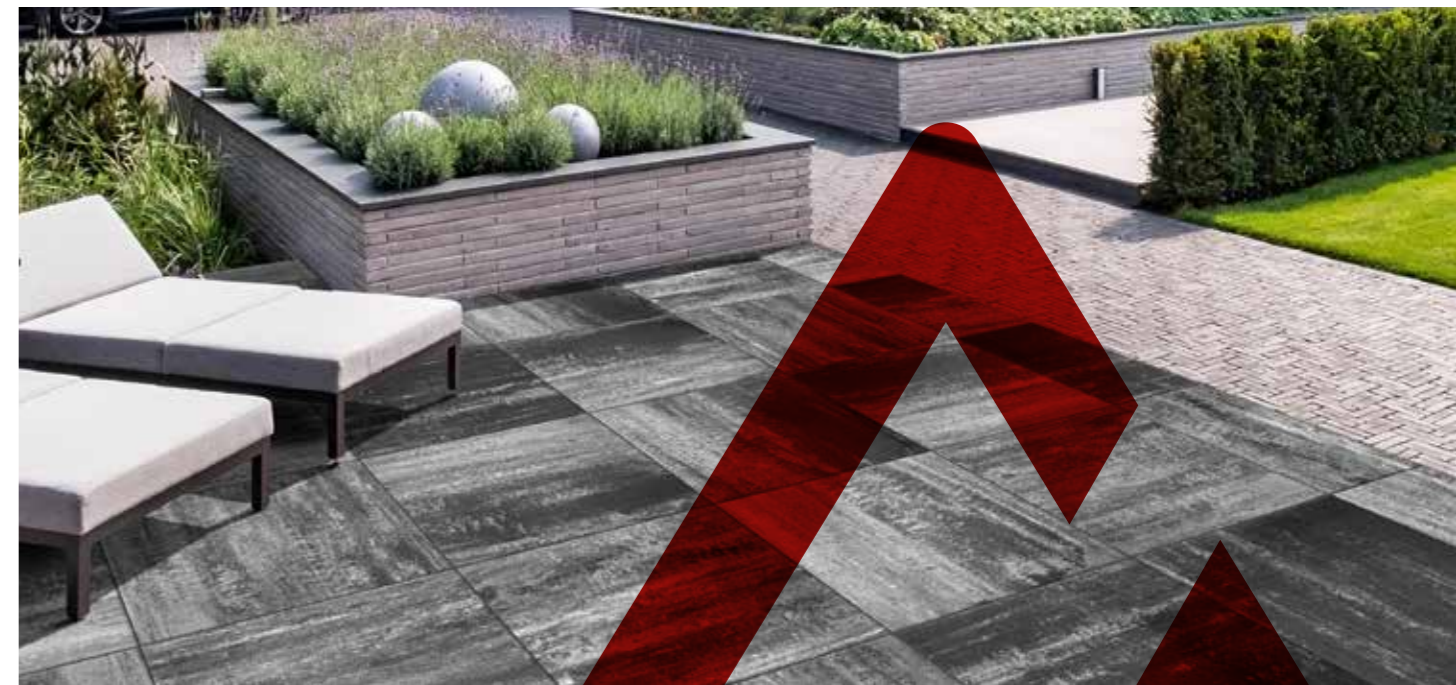


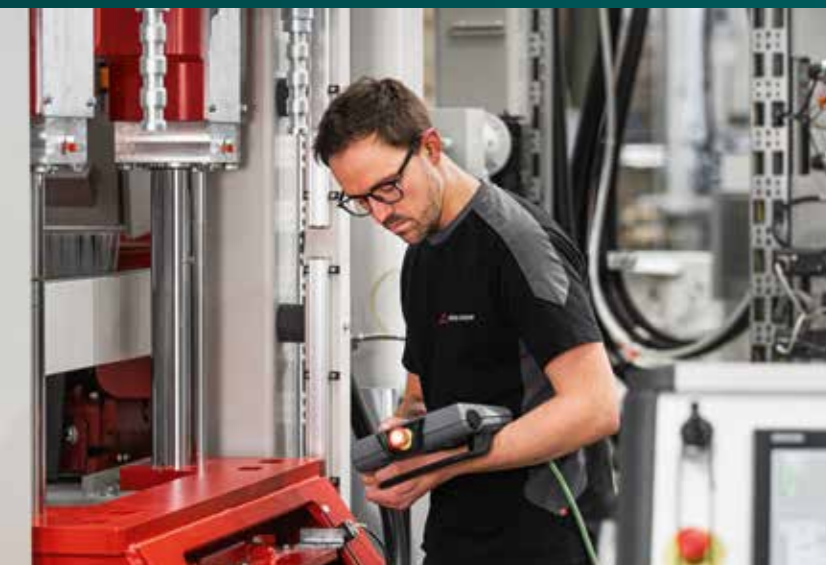
Finger cart system for board or steel pallet packages

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.



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AFTER SALES SERVICE

SERVICE PORTFOLIO

Our team will support you in all your needs and commit to first-class service to fulfill your requirements. Benefit from our many years of experience and find the right solution with us. Our services ensure for optimum plant uptime:

- Retrofit** Customized solutions for conversions and upgrades
- Parts** High-quality spare parts, intuitive cloud-based catalog, AI parts identification
- Concrete Technology** Optimize the production and quality of your concrete products
- Service on site** Fast, competent on-site service, minimal downtime
- Hotline** Support hotline for technical issues
- Consulting** Individual solutions, professional advice, experienced team of experts



SmartParts

More efficient spare parts procurement through intuitive and interactive identification and ordering



SmartCheck

Improved availability and effectiveness of your plant through HESS plant inspection



SmartCloud

360° overview of the HESS plant and processes



SmartAcademy

More effective plant operation & maintenance through training your employees



SmartVision

Faster troubleshooting and reduced downtime through live video transmission and support from HESS engineers



BE PART OF OUR EVOLUTION...

SmartFamily gives you a 360° view of your HESS concrete block and paver plant.

This solution includes services and functions in the areas of training, spare parts, inspection, maintenance employing a dynamic maintenance calendar, remote support, and monitoring of your entire HESS plant.

The central feature of SmartFamily is the SmartCloud.



Learn more about our After Sales



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We put concrete into shape