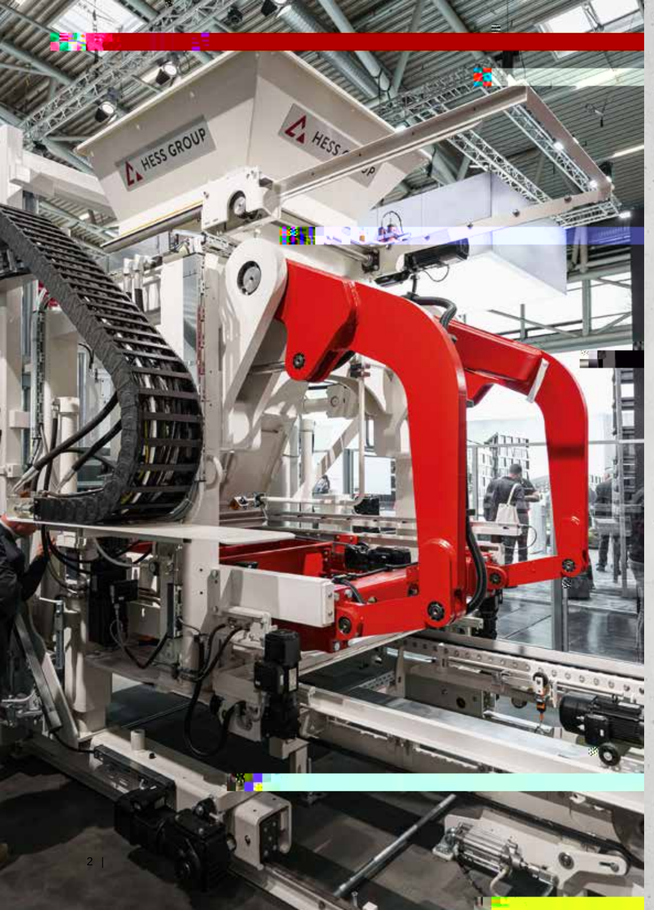
A member of TOPWERK

HESS GROUP

CONCRETE BLOCK AND PAVER MACHINE

RH 600-3
RH 500-3

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.

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

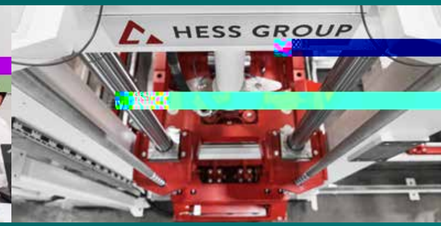
We enable our customers – in collaboration with us – to produce the best concrete blocks and pavers efficiently. The following four factors are paramount:

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

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



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.

CONCRETE BLOCK AND PAVER MACHINE

RH 600-3

HESS RH 600-3

MODULAR, EXPANDABLE – CUSTAMIZABLE FOR YOUR REQUIREMENTS

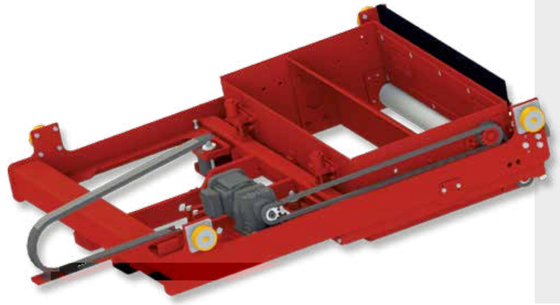
The standout characteristic of this type of machine is its modular design. Based on market demands, customers can tailor the level of automation and choose between dry and wet line options. This flexibility allows for future upgrades and enables integration with interlinked concrete block and paver plants.
With the RH 600-3, efficiency can be economically enhanced to meet increased demand.

The RH 600 is now in its third generation: the RH 600-3.

RH 600-3 TECHNICAL DATA*

Production board [mm]		1,400 x 700
Production area [mm]		1,300 x 650
Min. product height [mm]		25
Max. product height [mm]		300
Machine weight in VA version [kg]		14,000
Paving stone 10 x 20 x 5 cm without face mix	Cycle time [s]	14
	m² in 8 h	1,258
	Quantity of stones/mold	36
Paving stone 10 x 20 x 6 cm with face mix	Cycle time [s]	18
	m² in 8 h	979
	Quantity of stones/mold	36
Hollow block 20 x 40 x 20 cm	Cycle time [s]	16
	Quantity in 8 h	13,770
	Quantity of stones/mold	9

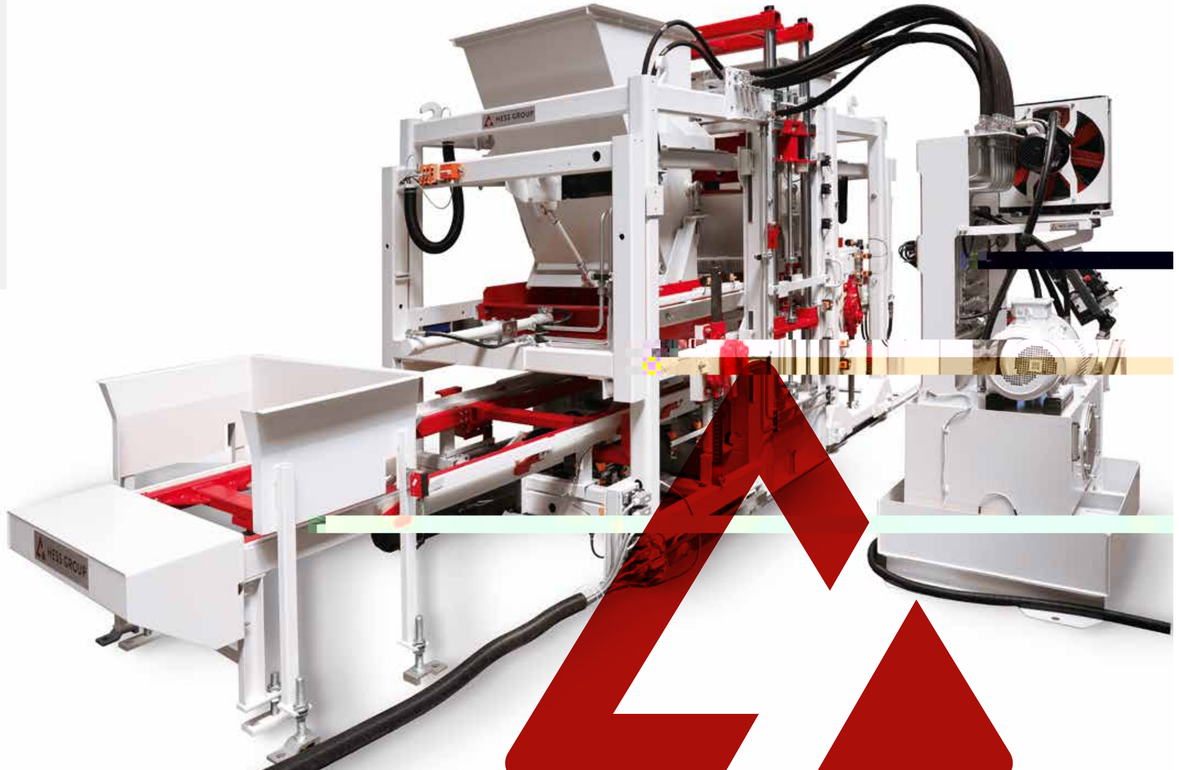
* Production output is calculated based on 85 percent machine availability and is significantly influenced by machine settings, the concrete mixing recipe used, the quality of raw materials, the performance of other related plant equipment, mold characteristics, the stone format, and the production pallets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



WE PUT CONCRETE INTO SHAPE.

CONCRETE BLOCK AND PAVER MACHINE

RH 500-3



HESS RH 500-3

COMPACT DESIGN – WIDE RANGE

The compact design, robust construction, and high-quality components characterize the RH 500-3. It is universally applicable wherever reliable production of slabs, paving stones, hollow blocks, curbstones, and similar concrete products is required. With a production height of 25 to 300 mm, a wide product range is possible.

The RH 500 has been continuously developed since the mid-1990s and is now in its 3rd generation: the RH 500-3.

RH 500-3 TECHNICAL DATA*

Production board [mm]		1,200 x 670
Production area [mm]		1,100 x 620
Min. product height [mm]		25
Max. product height [mm]		300
Machine weight in VA version [kg]		7,700
Paving stone 10 x 20 x 5 cm without face mix	Cycle time [s]	17
	m² in 8 h	863
	Quantity of stones/mold	30
Paving stone 10 x 20 x 6 cm with face mix	Cycle time [s]	22
	m² in 8 h	667
	Quantity of stones/mold	30
Hollow block 20 x 40 x 20 cm	Cycle time [s]	20
	Quantity in 8 h	6,120
	Quantity of stones/mold	5

* 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.

RH 500-3

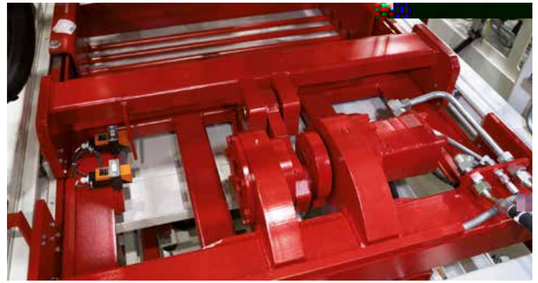
Production board depth	670
Minimum production board width	1,200
Maximum production board width	1,300
Production board with leg; board width 1,300mm; max. leg height	270
Minimum production height	25
Maximum production height	300
1 table, oil bath compact vibrator; frequency-controlled	●
WIDIA wear ledges for vibration table	○
Standard hydraulic, Bosch-Rexroth	●
Agitator with round bars and hydraulic motor driven	○
Stone height stops (2 rods)	○
Tamper head locking, bolted	●
Tamper head vibrator	○
Electrical connection tamper head heating system	○
Tamper head cross cleaner	○
Mold clamping, bolted	○
Mold change cart system manual, drawings provided by Hess	○
Filling level measuring filler box base mix	○
Colormix device draw plate, base mix	○
Face mix part	○
Filling level measuring filler box face mix	○
Colormix device draw plate, face mix	○
Draw plate device mounted to board transport	○

Standard equipment ● selectable as an option ○

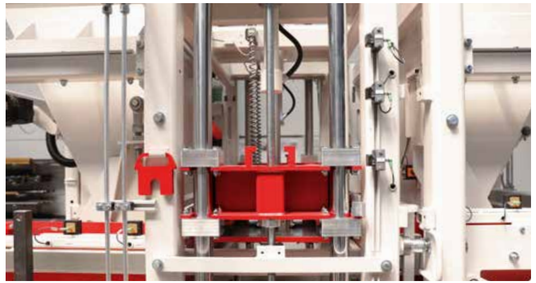
Vibrating table RH 500-3 with impact strips for optimal compaction performance

Oil bath vibrator as compact vibrator optimized for small production areas, low-maintenance design

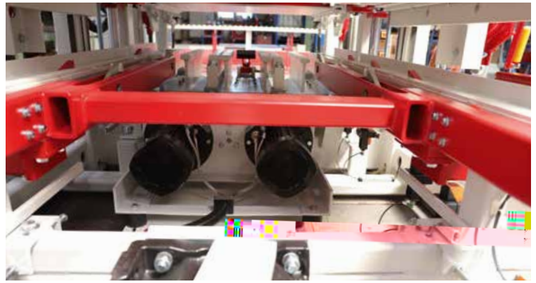
Hydraulically driven filler boxes in the RH 500-3 for highest quality even in small production areas



Hydraulically driven filler grid, for optimized filling of the mold and cycle time reduction



Robust frame construction with load guide for the production of high-quality concrete products

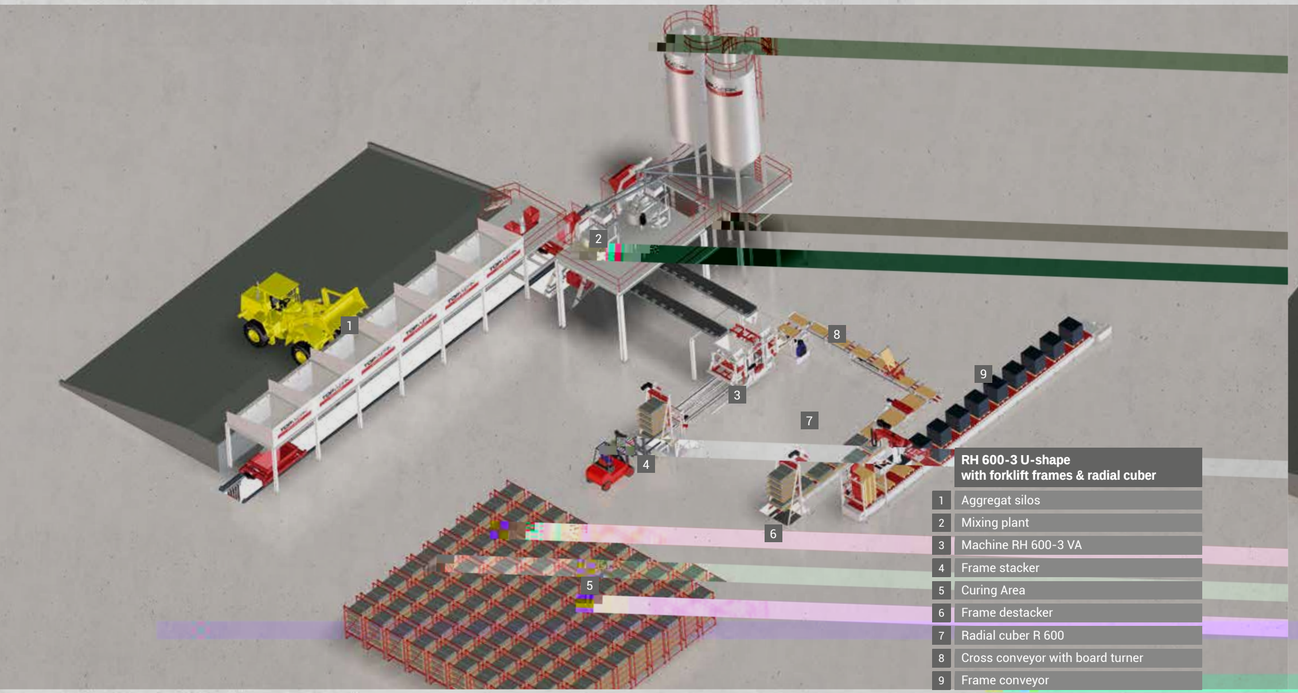


Servo-driven vibration for reproducible production of concrete products

TECHNICAL OVERVIEW CONCRETE BLOCK AND PAVER MACHINES*

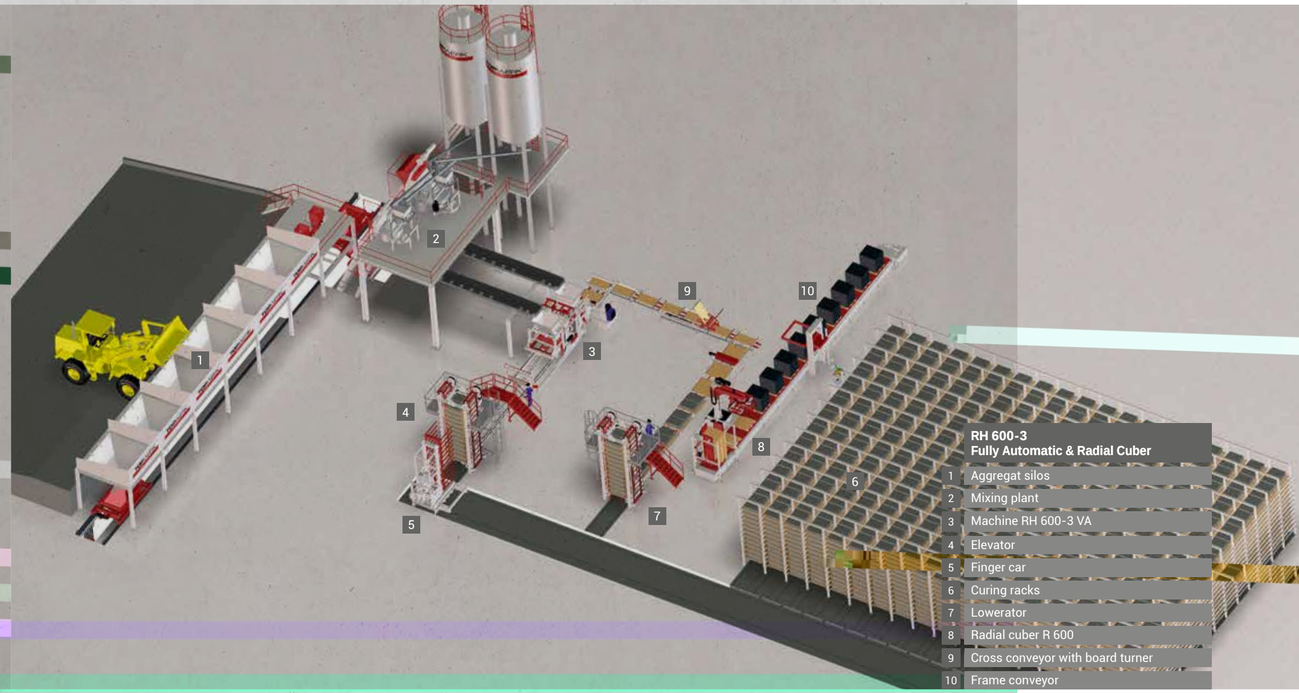
		RH 500	RH 600	RH 1450	RH 1500 VA	RH 2000 M version – standard production area	RH 2000 M version – large production area
Production board [mm]**		1,200 x 670	1,400 x 700	1,400 x 1,100	1,400 x 1,100	1,400 x 1,100	1,400 x 1,300
Production area [mm]**		1,100 x 620	1,300 x 650	1,300 x 1050	1,300 x 1,050	1,300 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
Machine weight in VA 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 stones/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 stones/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 stones/mold	5	9	12	12	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.
** Other production board sizes available.



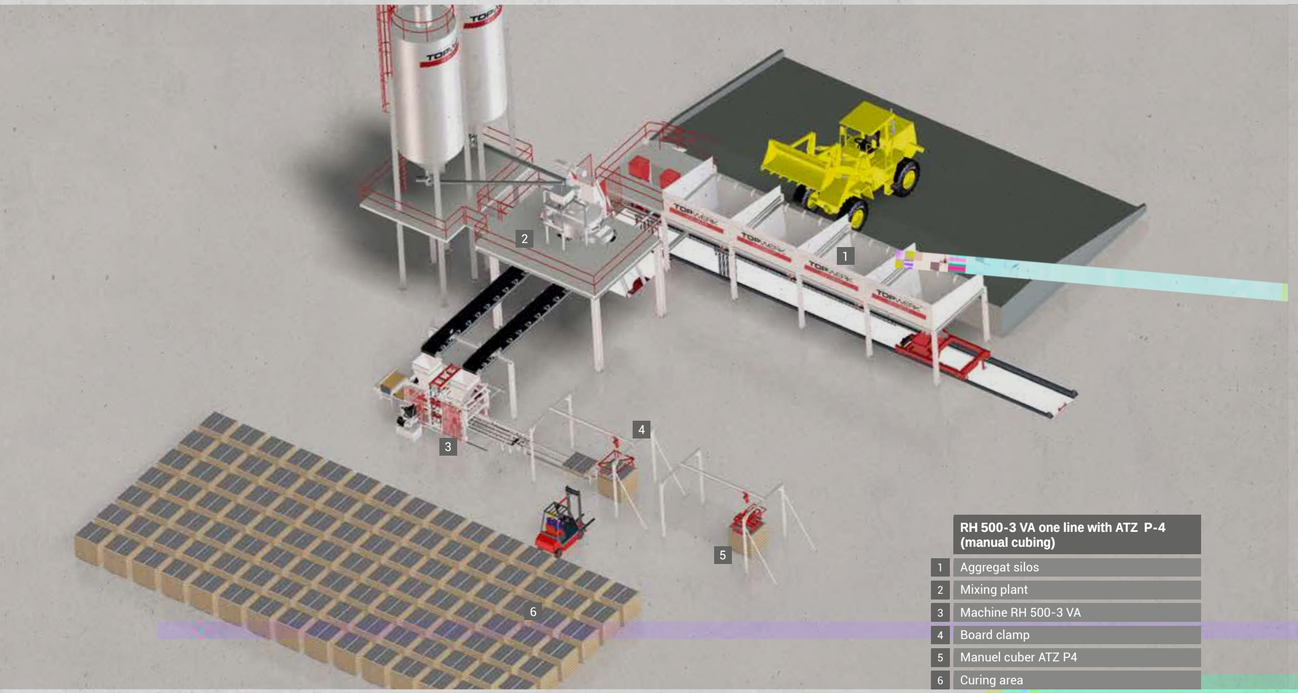
RH 600-3 U-shape with forklift frames & radial cuber

1	Aggregat silos
2	Mixing plant
3	Machine RH 600-3 VA
4	Frame stacker
5	Curing Area
6	Frame destacker
7	Radial cuber R 600
8	Cross conveyor with board turner
9	Frame conveyor

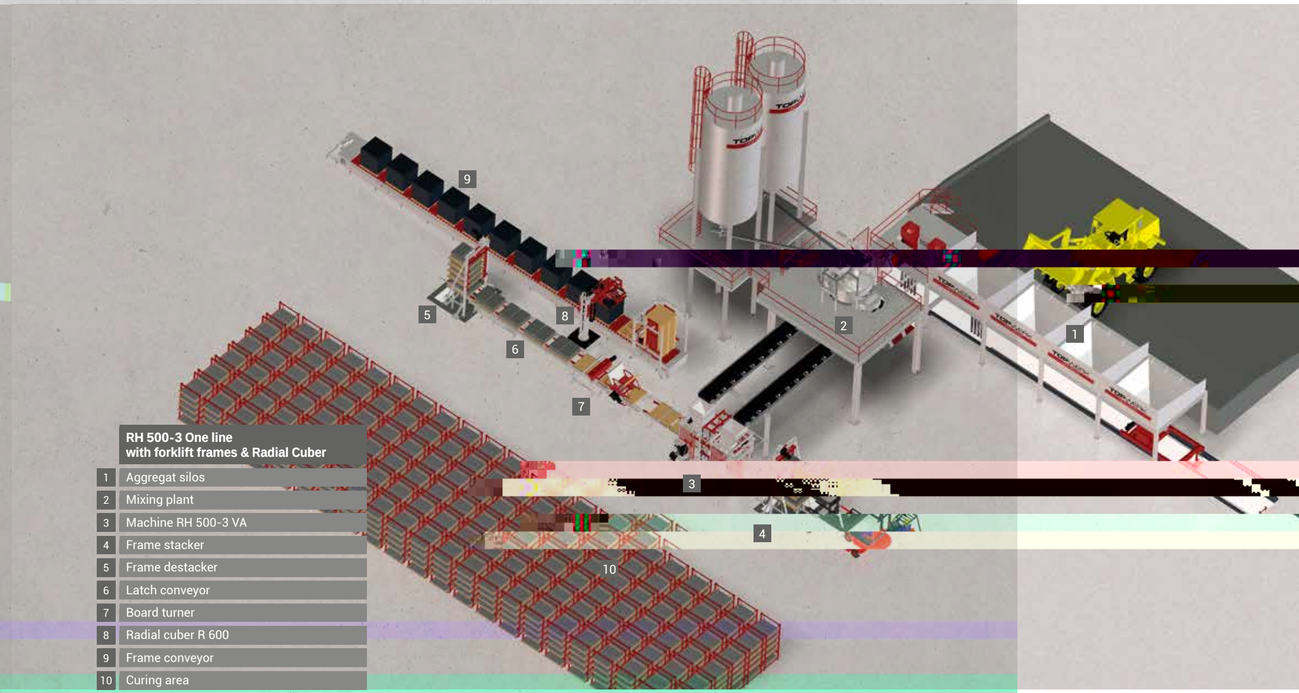


RH 600-3 Fully Automatic & Radial Cuber

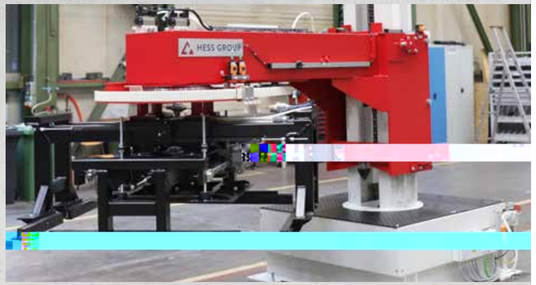
1	Aggregat silos
2	Mixing plant
3	Machine RH 600-3 VA
4	Elevator
5	Finger car
6	Curing racks
7	Lowerator
8	Radial cuber R 600
9	Cross conveyor with board turner
10	Frame conveyor



RH 500-3 VA one line with ATZ P-4 (manual cubing)	
1	Aggregat silos
2	Mixing plant
3	Machine RH 500-3 VA
4	Board clamp
5	Manuel cuber ATZ P4
6	Curing area



RH 500-3 One line with forklift frames & Radial Cuber	
1	Aggregat silos
2	Mixing plant
3	Machine RH 500-3 VA
4	Frame stacker
5	Frame destacker
6	Latch conveyor
7	Board turner
8	Radial cuber R 600
9	Frame conveyor
10	Curing area



Radial cuber

Removal of production board using forklift frames from the hoist frame

HESS RH 500-3

MODULAR EXPANDABLE CONVEYOR AND HANDLING SYSTEMS

Our specially developed, modularly expandable handling systems, which offer an efficient way to increase production, have proven themselves many times over.

We provide the prerequisites to adapt the degree of automation to market needs. Plant concepts developed for the RH 500 and RH 600 enable further productivity expansion. The investment level can be chosen from the start of concrete block and paver production.

The radial cuber was specifically developed for the RH 500 and RH 600 plant systems. The cuber takes the concrete products from two production boards and transfers them as a large layer to the packaging line.

HESS

CONTROL

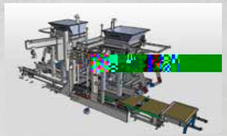
PILOTING ALL MACHINE FUNCTIONS

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 quickly made with a few operations and sliders – user-friendly and self-explanatory.

FEATURES OF THE HESS CONTROL SYSTEM

- Process visualisation automatic operation and manual operation
- Two operating levels
- Recipe management
- Fault diagnosis and help function



HESS GROUP

HESS Group GmbH

Freier-Grund-Strasse 123
57299 Burbach-Wahlbach, Germany

Phone: +49 2736 4976 0
E-mail: info@hessgroup.com
www.hessgroup.com

HESS GROUP