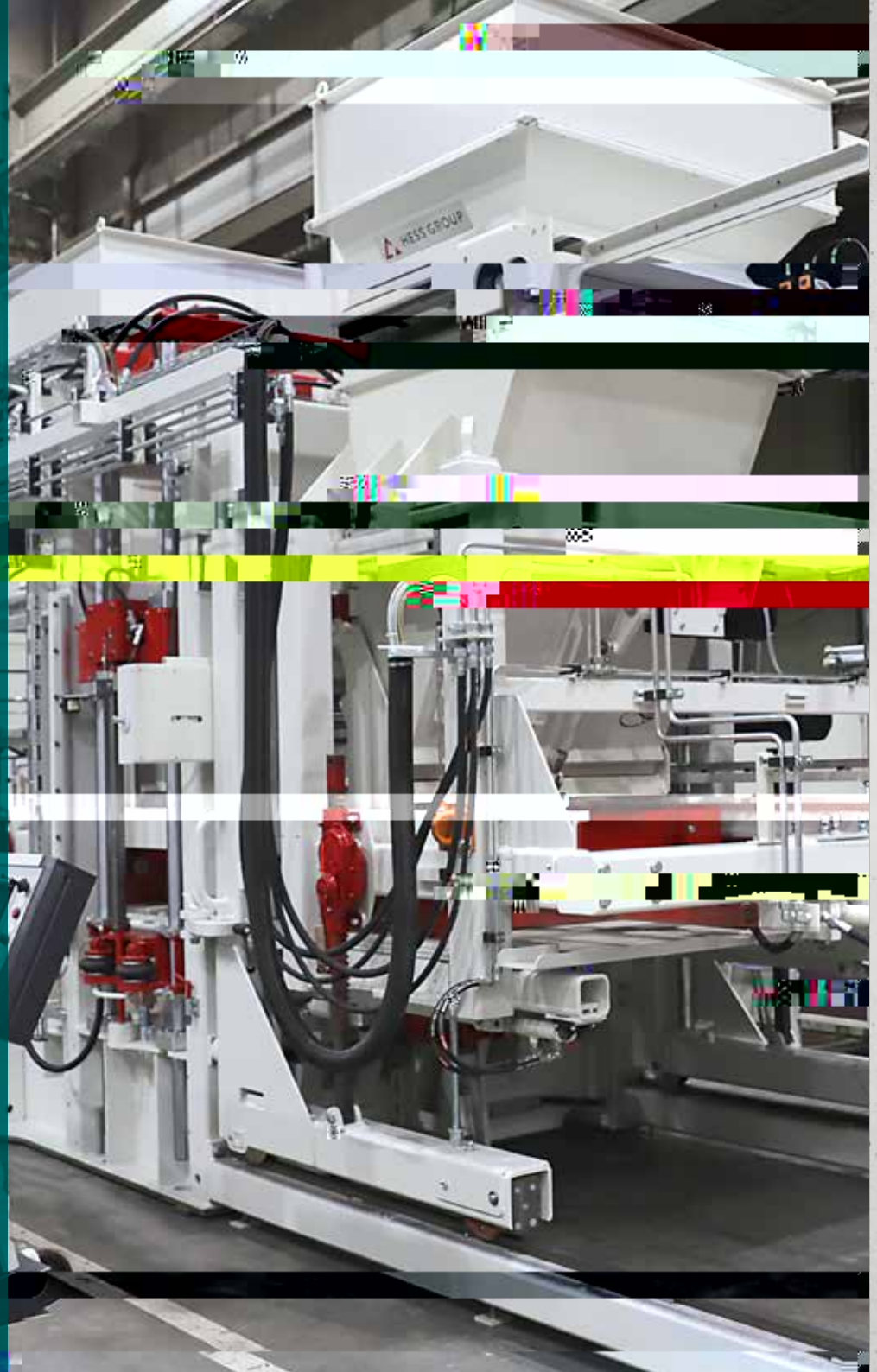

TOPWERK

HESS GROUP

CONCRETE BLOCK AND PAVER MACHINE

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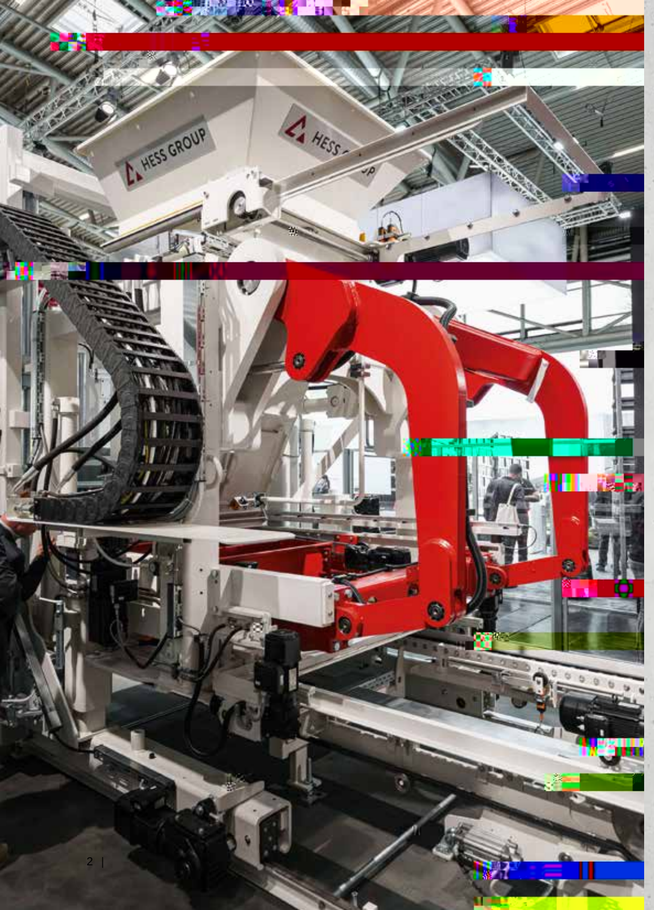

OUR COMPANY

[illegible]

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.

[illegible]

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

It is our endeavor to discover and create new market needs in close collaboration
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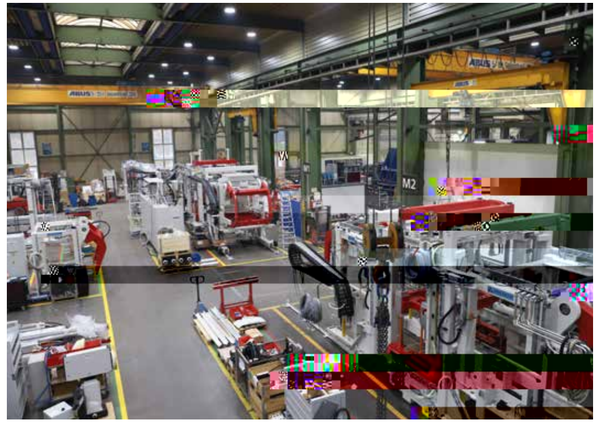
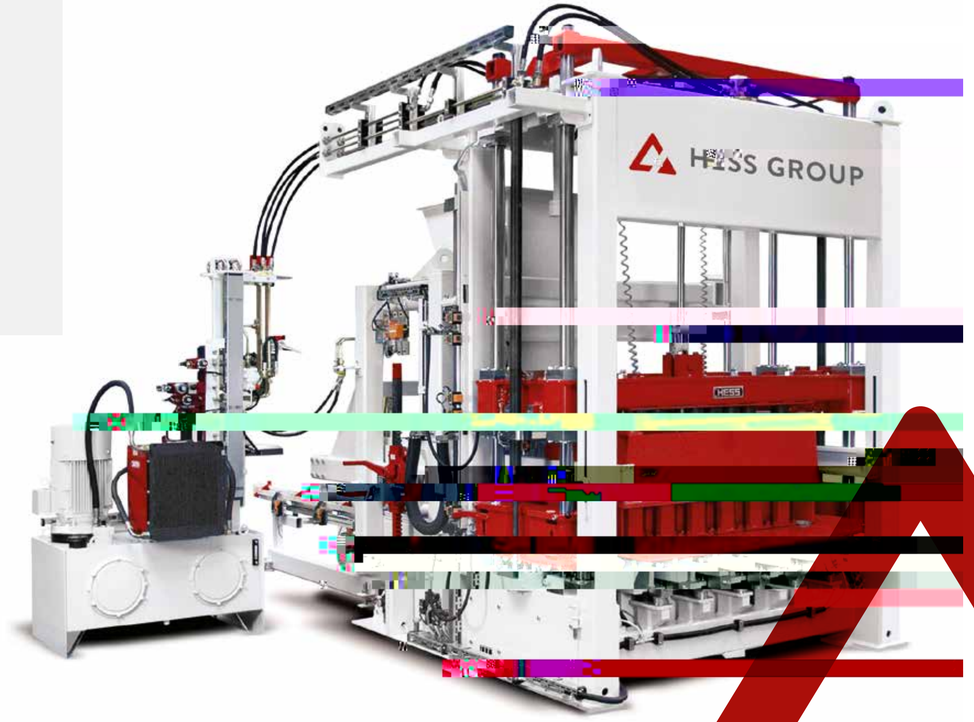


CONCRETE BLOCK AND PAVER MACHINE



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.

-

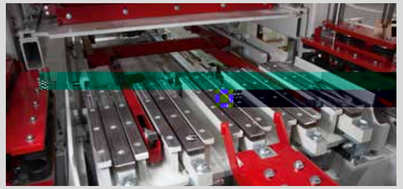
ced to meet increased demand.

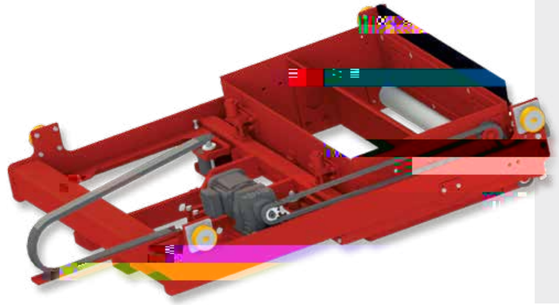
RH 600-3 TECHNICAL DATA*

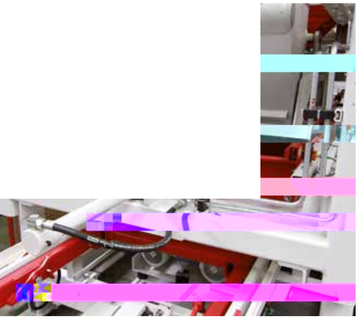
Production board [mm]	1,400 x 700
Production area [mm]	1,300 x 650
Min. product height [mm]	25

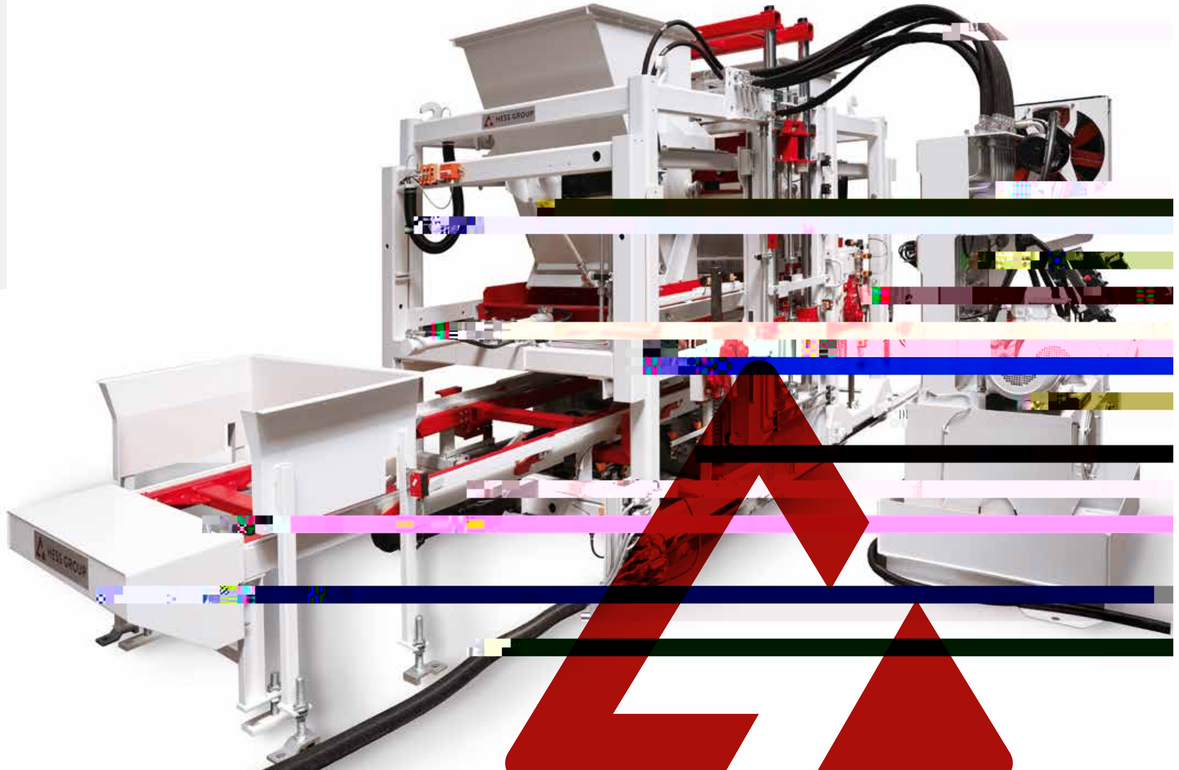
*

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.









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.

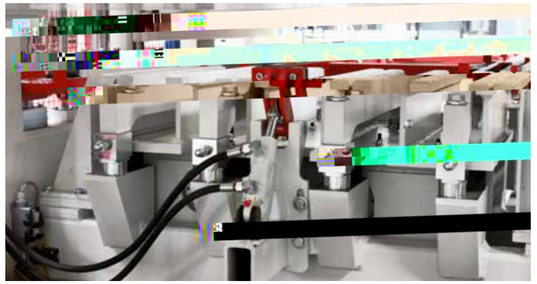
The RH 500 has been continuously developed since the

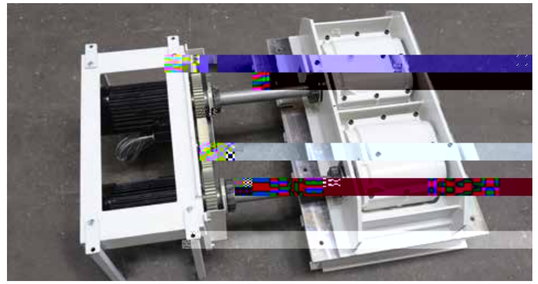
* settings, the concrete mixing recipe used, the quality of raw materials, the performance of other related plant equipment, mold characteristics, the stone format, and the production pallets used. Techequipment,

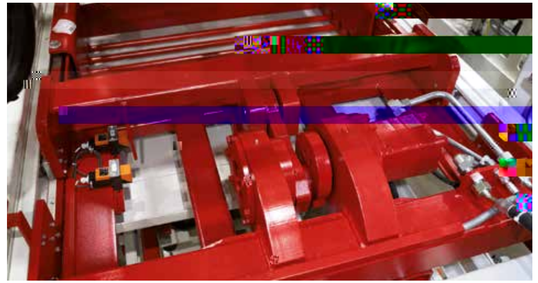
RH 500-3

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	○
	○
Colormix device draw plate, base mix	○
Face mix part	○
	○
Colormix device draw plate, face mix	○
Draw plate device mounted to board transport	○

Standard equipment ● selectable as an option ○

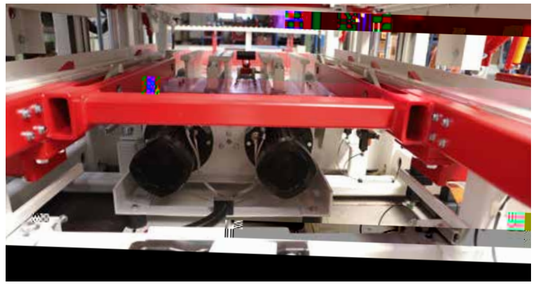






Hydraulically driven filler boxes in the RH 500-3 for highest quality even in small production areas

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



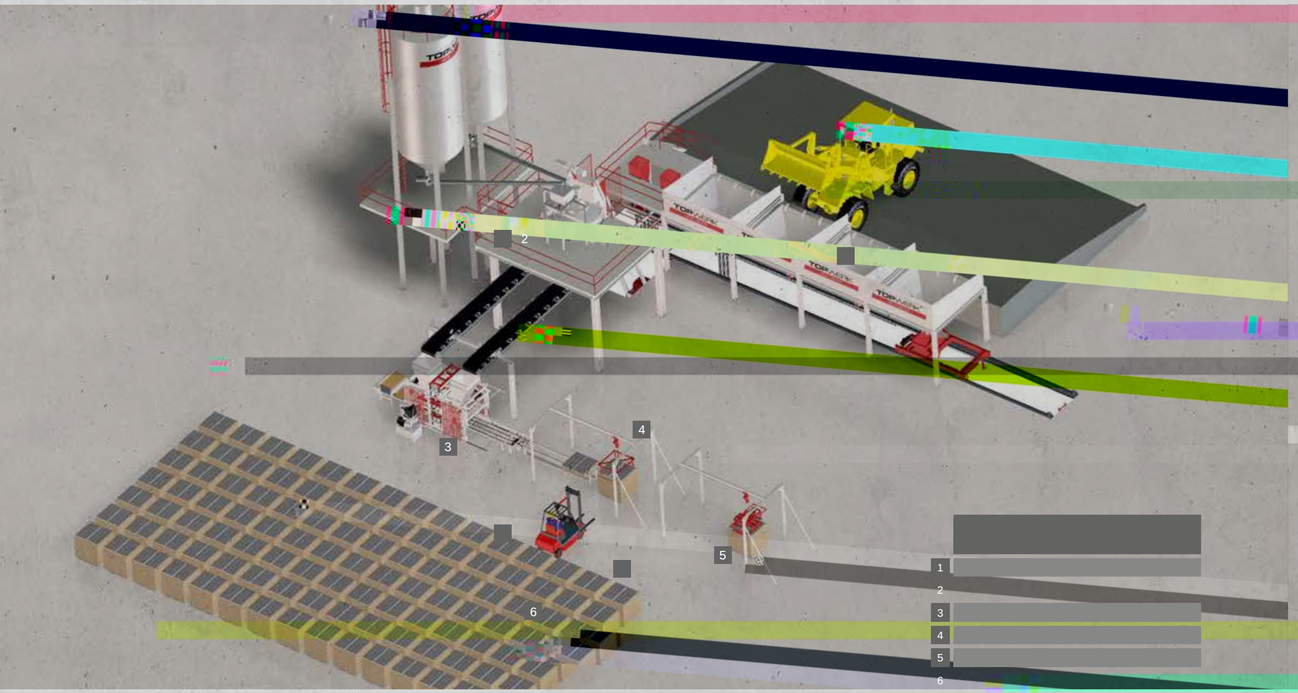
Servo-driven vibration for reproducible production of concrete products

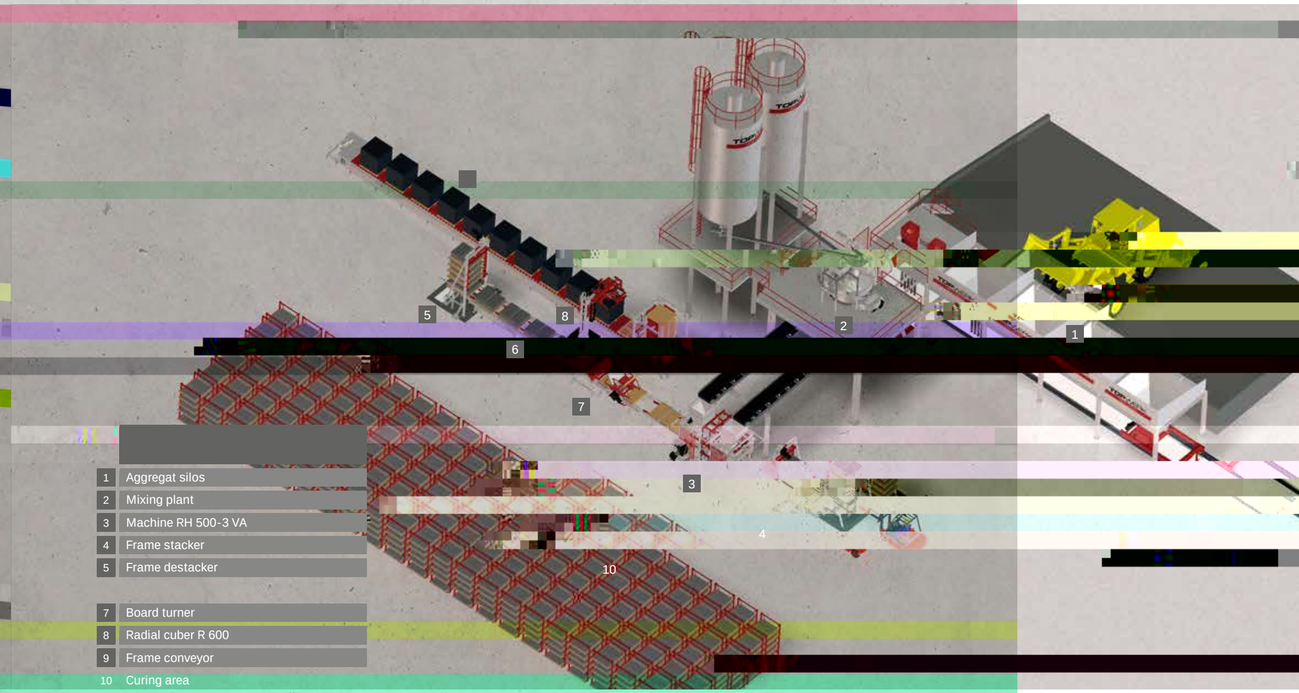
TECHNICAL OVERVIEW CONCRETE BLOCK AND PAVER MACHINES*

		RH 500	RH 600	RH 1450	RH 1500 VA	RH 2000 M version – standard production area	RH 2000 M version – large production area
**		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
**		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

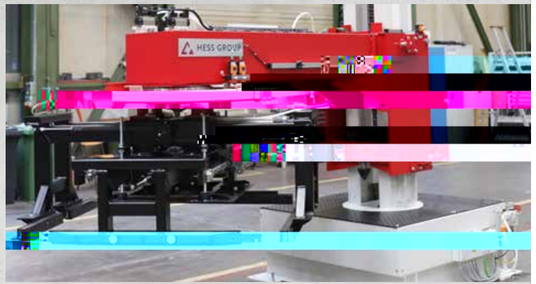
* the performance of other related plant equipment, mold characteristics, the stone format, and the production pallets used. Technical Data are subject to change.
** Other production board sizes available.

COMPLETE PLANTS





1 Aggregat silos
2 Mixing plant
3 Machine RH 500-3 VA
4 Frame stacker
5 Frame destacker
6
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

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.

cuber takes the concrete products from two production boards and transfers them as a large layer to the packaging line.

HESS

PILOTING ALL MACHINE FUNCTIONS

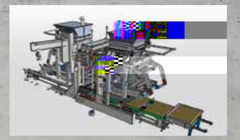
Concrete block and paver machines and plants are equipped with a control panel that can be adjusted in height and screen angle. With the clear touch panel, you have full control over all machine functions of the linked system.

-

nated 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

www.hessgroup.com

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