A member of TOPWERK

HESS GROUP

RH 1400-3

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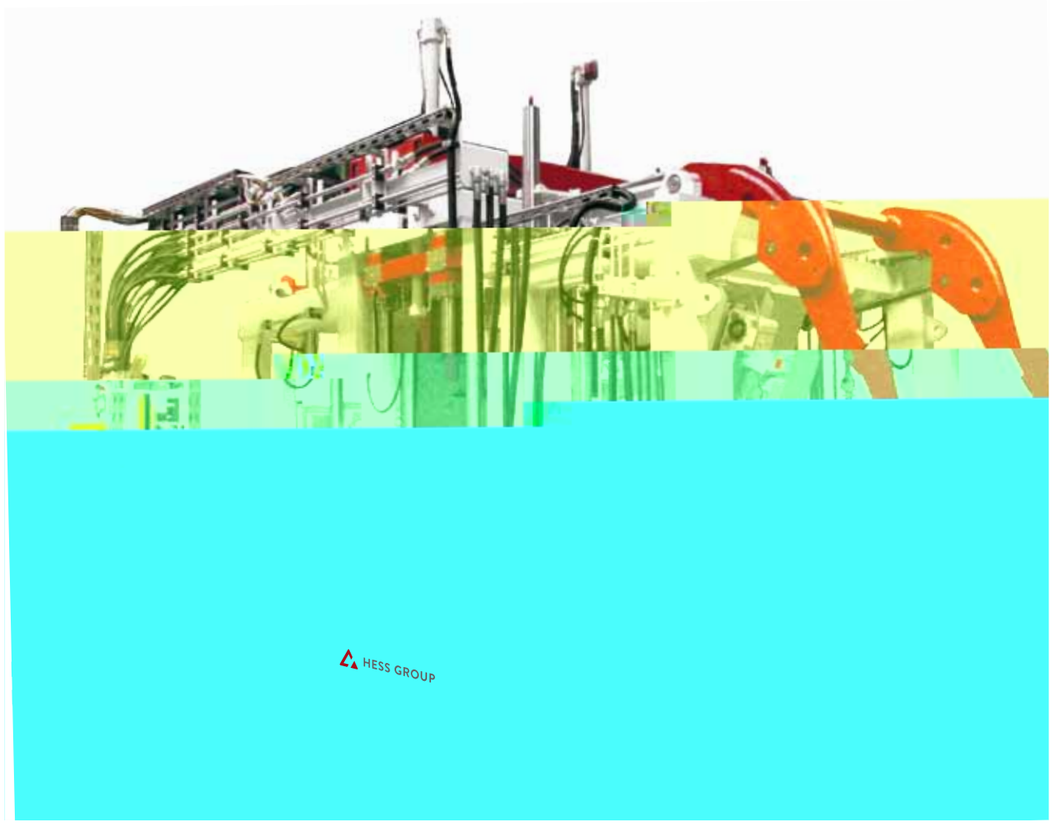


Output. Quality. Cost-effective.
MULTIMAT RH 1400 .

The RH 1400 optimzes cost-efficiency with performance for an Intelligent Investment in the production of high quality concrete products. Complete with its own handling system, it is now possible for customers to grow or expand their market through the advantages of a big board plant at a manageable investment level.

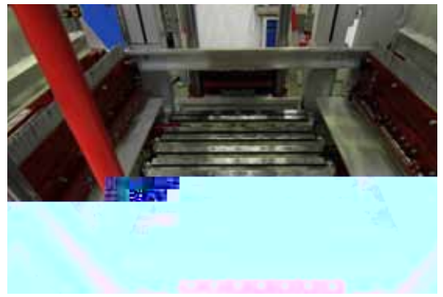
Technical data*

production board (mm)**		1.400 x 1.100
production area (mm)**		1.300 x 1.050
min. product height (mm)		25
max. product height (mm)		400
dead weight approx. (kg)		22.500
paver 10x20x6 without face mix	cycle time (s)	13
	m^2 in 8h	2.033
	qty stones/form	54
paver 10x20x6 with face mix	cycle time (s)	17
	m^2 in 8h	1.555
	qty stones/form	54
hollow block 20x40x20	cycle time (s)	16
	quantity in 8h	18.360
	qty stones/form	12

Pallet depth maximum (mm)	1100
Pallet width maximum (mm)	1400
Minimum manufacturing height (mm)	25
Maximum manufacturing height (mm)	400
Mechatronic, frequency control	●
Tamper head block height stops 4 pcs.	○
Tamper head clamping, screwed	●
Tamper head clamping, pneumatic	○
Tamper head cross cleaner, straight	○
Mold clamping, pneumatic	●
Hydraulic function for mold flaps	○
Mold change, manual	●
Mold change crane	○
Coarse mix Colormix drawer	○
Coarse mix silo, silo lining PA/Hardox	○
Coarse mix filler box with agitator cylinder drive	●
Pneumatic scraper face mix filler box	○
Face mix filler cart with planing roller	○
Face mix Colormix drawer	○
Face mix silo, silo lining PA/Hardox	○
Electrical vertical adjustment charger	○
Drawplate device at pallet transport	○
Core pulling device, separately	○
Styrofoam inserter, swiveling	○
Cooling tower for hydraulics	○

● = Standard equipment ○= selectable as an option

Filler box with level indicator and driven agitator



Vibration table

Pneumatic mold clamping (optional)

Pneumatic tamper head clamping (optional)

Control panel

*Production capacities are calculated on 85% basis and depend on machine configuration, used recipes, raw materials, pallet handling, mold characteristics as well as utilized production boards. Technical Data are subject to change. **other production board sizes available.

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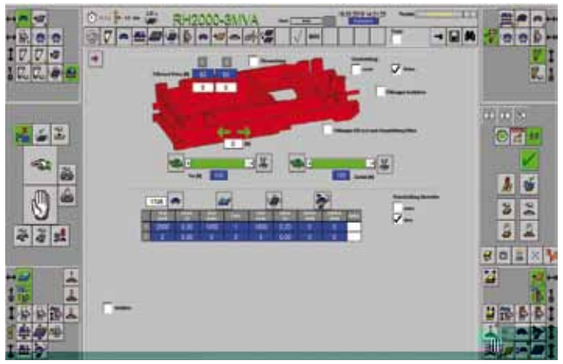
HESS Control system

- Control Panel adjustable for height and screen angle to match operator's preference or need
- User Interface has touched panel clearly arranged with intuitive graphics
- Symbolic buttons manage specific parameters to improve understanding within shortest time
- Adjusting one parameter automatically and correctly changes corresponding pre-set parameters without further complex input of many parameters
- Many adjustments are set by a simple slider to allow newer operators to become familiar with logic and operating knowledge

Further features of operator controls:

- Automatic mold change can be supervised by a remote control directly at the machine
- Settings for molds and product groups are saved and automatically retrieved
- Operator control extends throughout entire plant work centers (Mixing/Batching; Production; Curing; Handling; Treatment; and Packaging)



Filler box controlled by sliders

HESS Production Statistics (Industry 4.0)

It is important for operators and supervisors to have access to critical production data to assess the performance status of the product orders to better serve customers and manage profitability. All relevant information is collected in a Microsoft SQL database is retrievable by authorized managers on their monitors, or remotely via web-based visualization screens.

Features of the HESS Production Statistics:

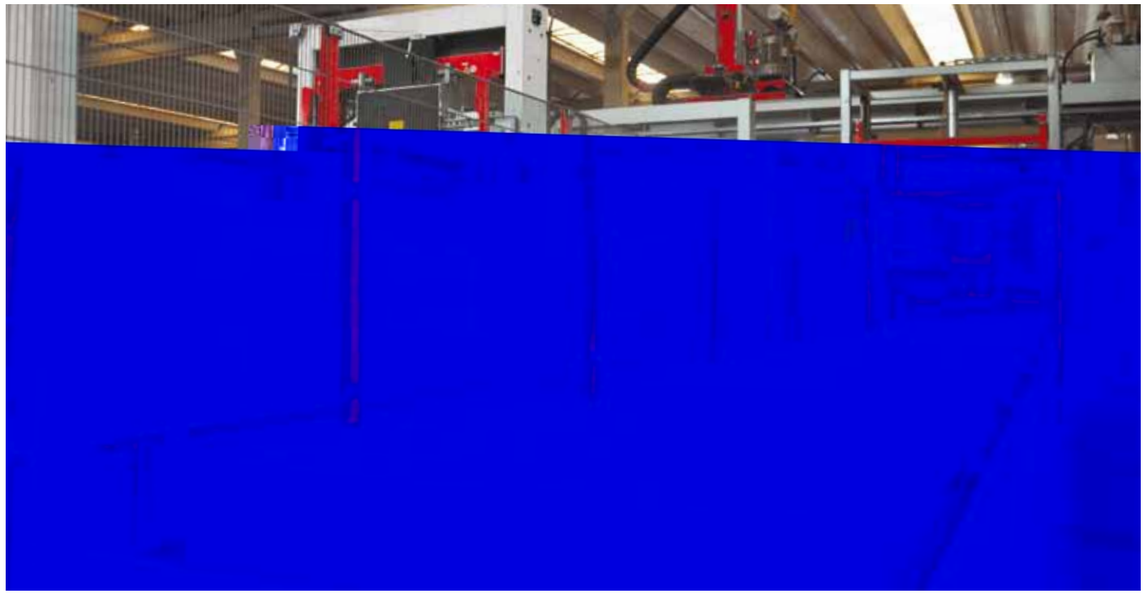
- Data is sorted by location, plant, and plant equipment
- Multiple facilities can be monitored and evaluated
- Data is accessible via mobile devices (smartphones or tablets) anytime and anywhere
- Included as standard with new installations. Retrofits are possible
- Data for each work center (mixers; production machines; finger cars; curing chambers; splitters; etc.) are collected and tracked
- Data is available for import into business system

As the industry demonstrates increasing digitalization of production processes (Industry 4.0) the HESS Production Statistics supports continuous improvement programs and other manufacturing excellence initiatives.

- Digital chamber and storage administration
- Link to ERP Systems (SAP, Navision, Oracle)
- Integration of parametric value data for quality control
- Product tracking
- Integration into customer-specific order management

Fully automated production with value adding

1. Mixing plant
2. Concrete block machine
3. Elevator
4. Finger car
5. Curing chamber
6. Lowerator
7. Value adding line
8. Cubing
9. Board return / -buffer
10. Transport of finished cubes



Dry Side

Balance. Speed. Ideal.
Transfer and handling systems.

HESS supports the efficiency of their high quality and high volume mixing and production systems with matching proficiency in the transfer and handling systems. The necessity to transfer, buffer, and store fresh and cured product is essential to sustaining a balanced flow rate while maximizing the throughput pace of finished product.

More and more, manufactures need to harmonize the wet side and dry side cycle times across a wider range of product requirements. HESS has the know-how and equipment technology to optimize these balancing logistics to deliver the highest quality, greatest output, and lowest unit cost.

Our fully-automated transfer, handling, treatment and packaging lines communicate with each other and are intuitively displayed on the operator control screen for smarter insights and understanding.

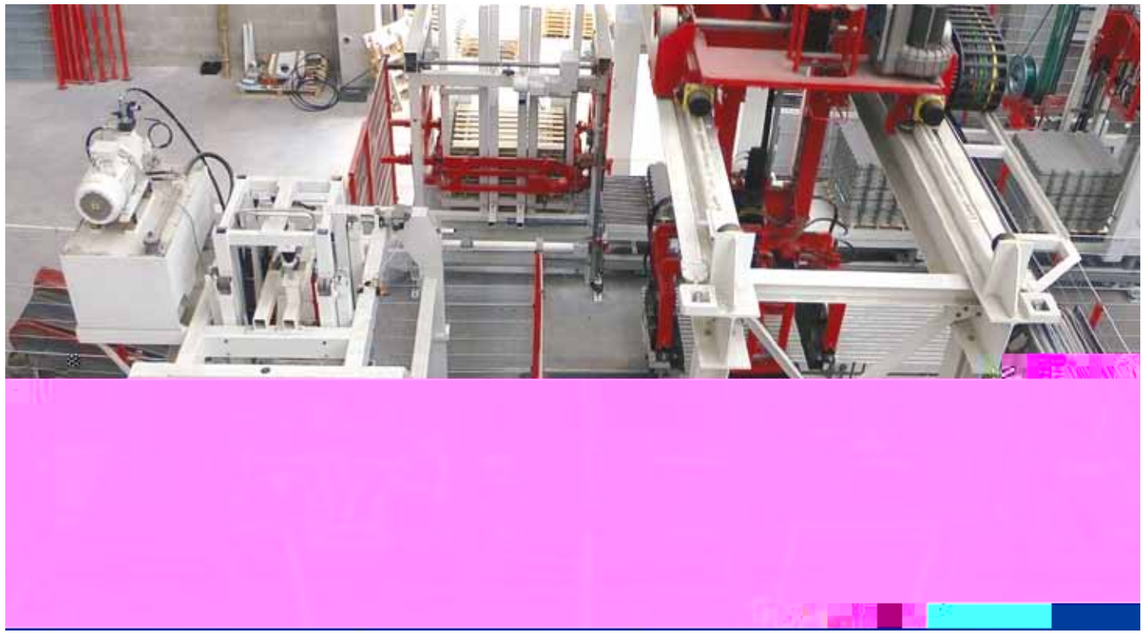
Buffer rack

Ejection station

Lowerator with bypass

Finger car

Washing system



Stone layer doubling unit and cuber

Available. Extensive. Expert. HESS After Sales Service.

Our expert service team is available anytime to answer any question you may have. Our primary goal is to support your operation as if it were our very own. We are proud to share the expertise gained from our global experience for your benefit. This industry knowledge supports the following areas of our supply chain departments:

Spare parts

ec d mq hepu ol na l rpo ki l apa ppa d e h r e a s knh s e a

Help-Desk

nk hai okhr e c s epd l ha ooeop a nk q pda hk g

Teleservice

Efficient assistance and technical support via teleservice

Monitoring

a qna b op e bk ni pek r eh ha ar anus dana

Consulting

nkbaooek hc qe a k hhmqaopek o nac n e c l nk aoo a ce aane c

Retrofit

Optimized retrofits due to continuous developments

HDPS

HDPS Software - Your benefits: Information is available, wherever it is needed!

- In production and maintenance
- In logistics regarding the optimization of parts inventory
- In material scheduling to procure necessary spare- and wear parts
- Customized information
- More efficient communication between operator and service technician
- Customer-specific language possible

Training Academy

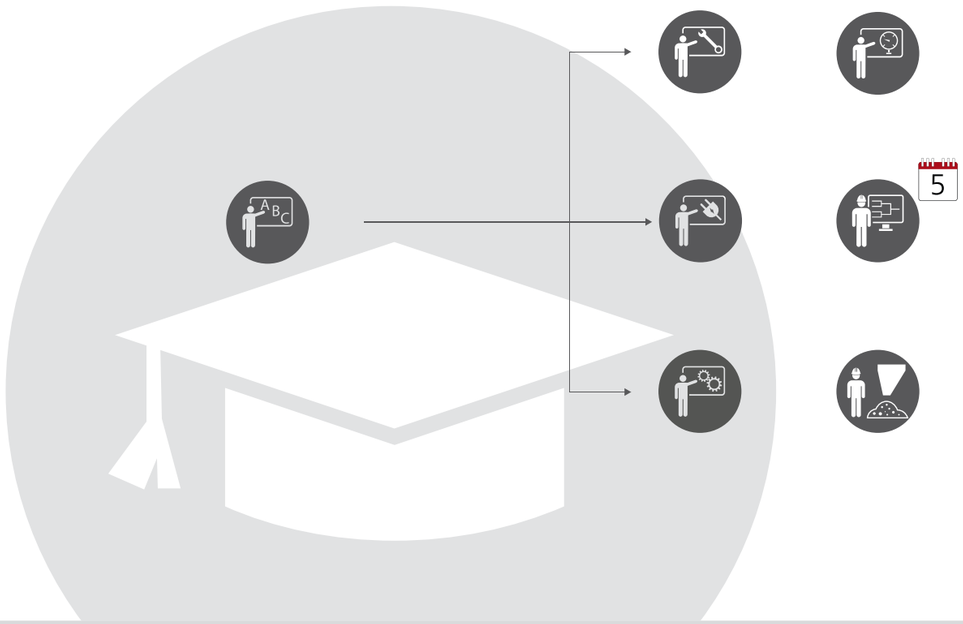
The HESS After Sales Service offers training programs for your staff near the headquarters in Burbach:

- Consecutive training courses
- Gradual training in: Machine operation, maintenance and concrete technology

Benefit from our know-how and many years of experience :

- Practical exercises with specific designed models or machinery parts
- Visualization of complex motion sequences using animations and videos
- Digital transmission of training material by tablet
- Aquired knowledge available anywhere and anytime
- Optimum training and know-how transfer from the beginning
- Systematic gain of expertise by intensive training

Productivity increase by Best Practice, prevention of drop outs and reduction of setup times through an expertwise work approach are just a few advantages resulting from the training.



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