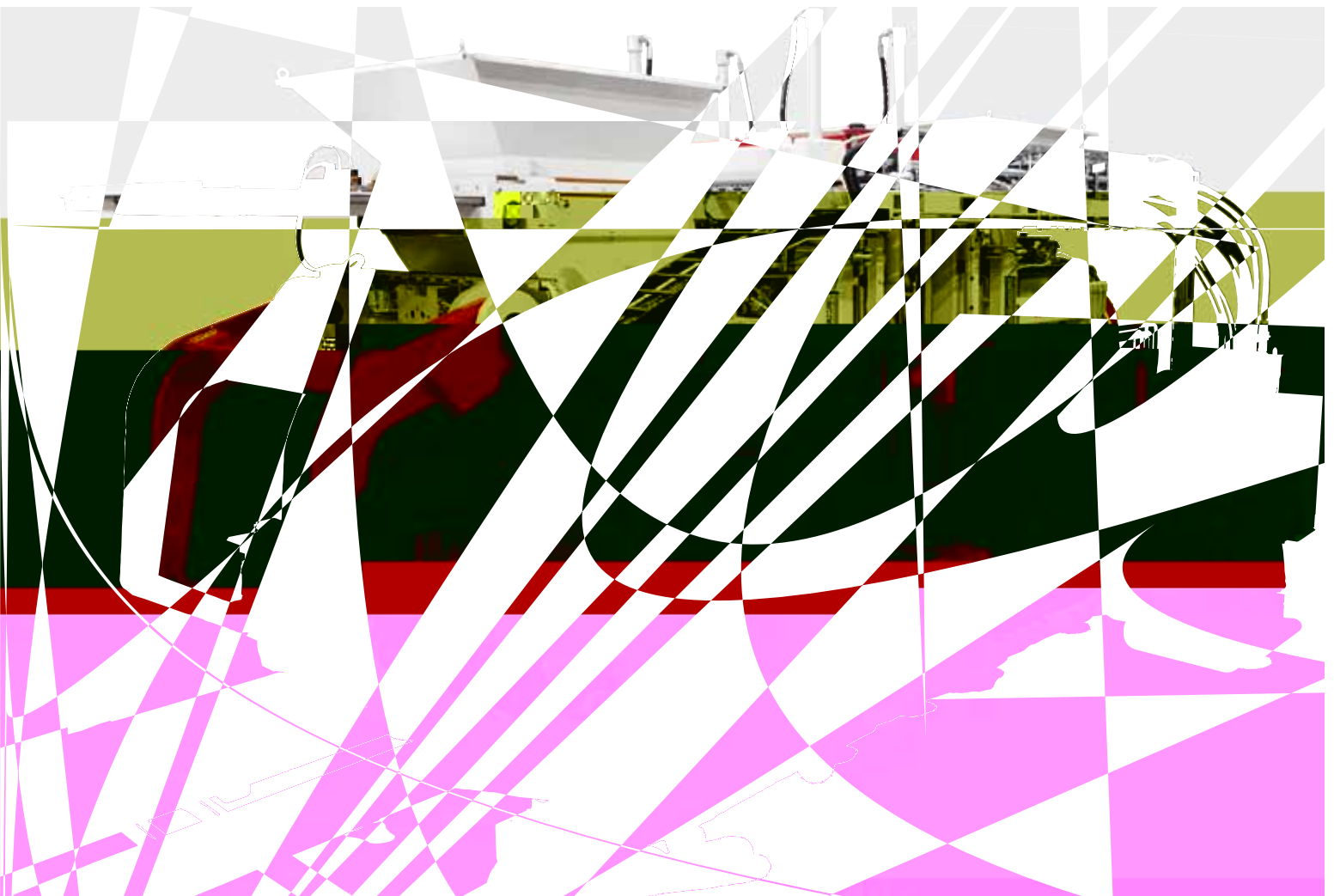


A member of **TOPWERK**

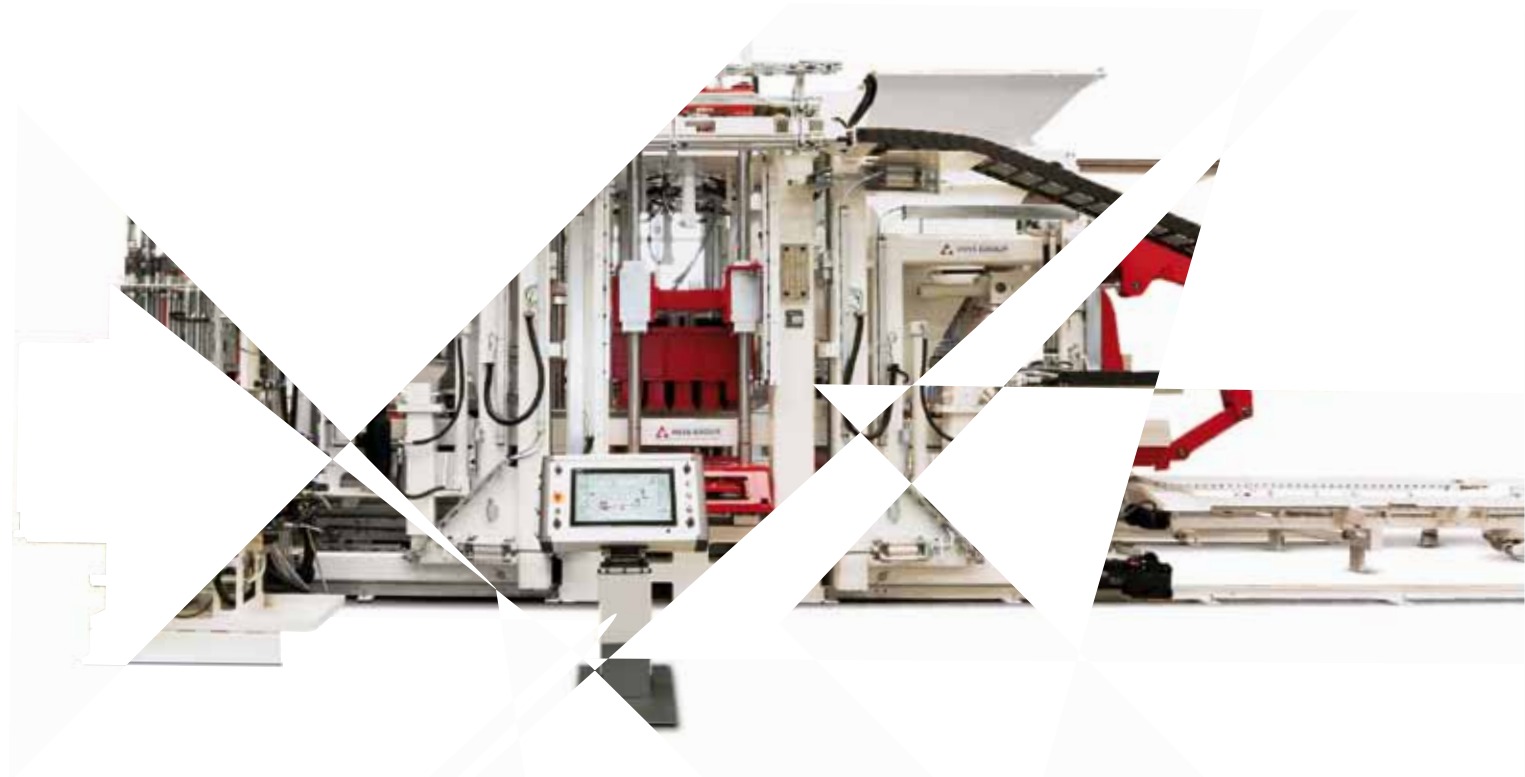


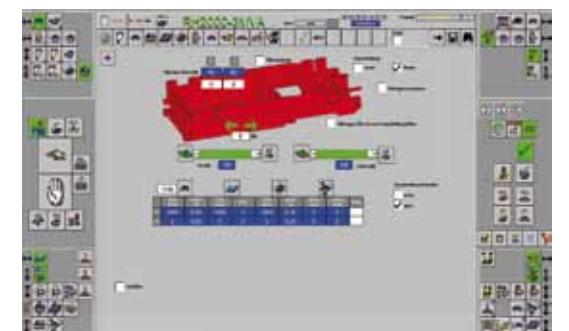
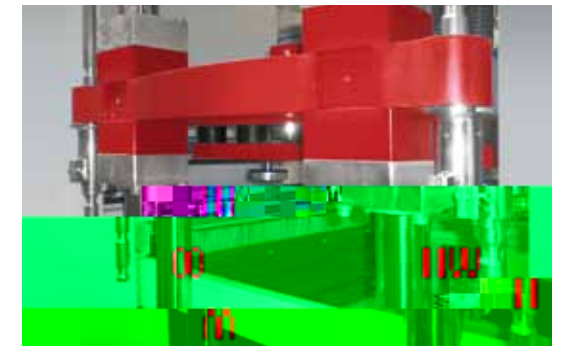
RH 2000-4 RH 1500-4

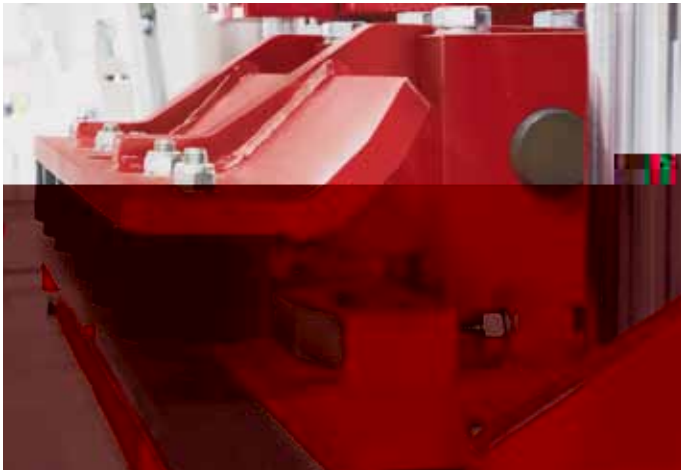


WE PUT CONCRETE INTO SHAPE









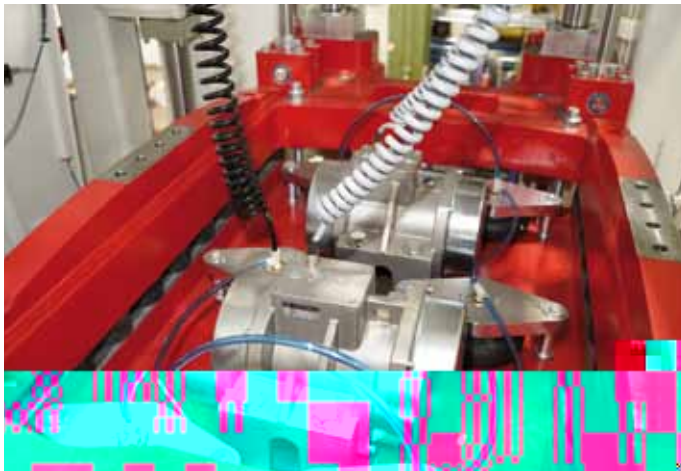
Mold side guide in mold clamping (standard)



Lockable 2-silo outlet at second silo flap (optional with second flap)



Rubber-coated tamper head plate (standard)



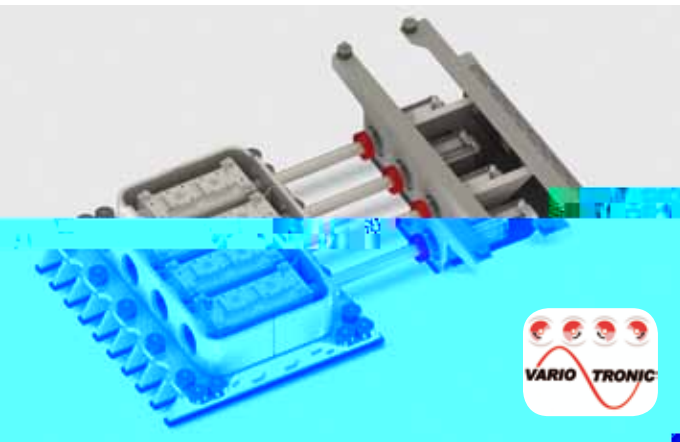
Tamper head vibrator (optional)



Hydraulic fast lift charger fast mold change (optional)



Colormix drawplate (optional)



HESS Oil-bath Vibration System.

HESS maintains the most advanced vibration system to deliver the following benefits:

- Fully electronic control which is reliable and extremely accurate
- The rotation speed and amplitude can be adjusted and programmed for optimal results during mold filling and main compaction operations
- Ideal compaction for complete range of products achieved in short cycle times
- Vibrating Shafts are mounted in closed casings filled with oil.

This provides significant advantages:

- This provides significant advantages:
- Permanent lubrication of bearings- running dry inside casings impossible
- Three Year Warranty on imbalance bearings
- Reduced downtime with lower maintenance



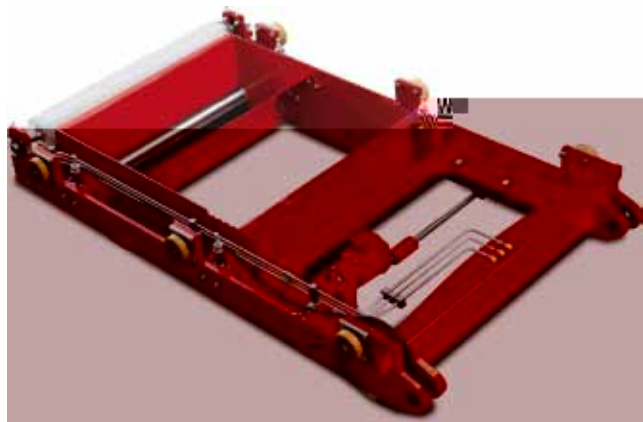
HESS Filler Box Planing Roller.

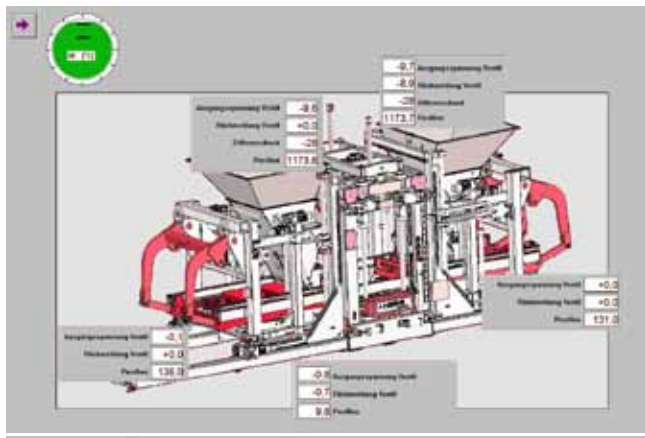
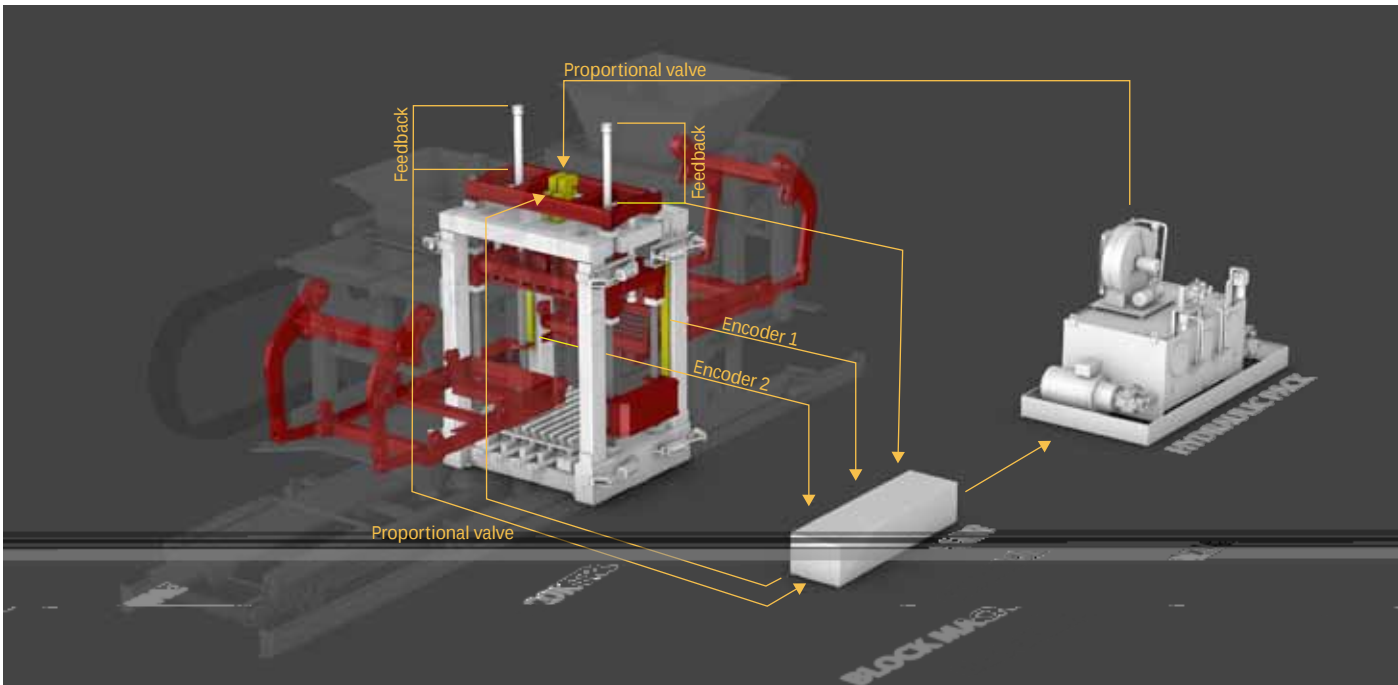
This patented system utilizes a steel roller which replaces the front stripper frame of the filler box assembly. The roller is regulated by a chain-driven, frequency-controlled motor that is independent from the movement mechanisms of the filler box. The Filler Box Planing Roller provides significant advantages for production of Face Mix Pavers:

- The Roller prevents the digging out of concrete mix from top surface during the production cycle
- Color blend finish has sharper resolution and definition
- Larger paving slabs of high quality now possible

The production with wetter mix design for face mix pavers now possible in efficient cycle times:

- Higher color brightness and intensity
- Better bond between base mix and Face Mix for a stronger paver
- Faster cycle times as less movements of the filler are required





Technical data block machines*

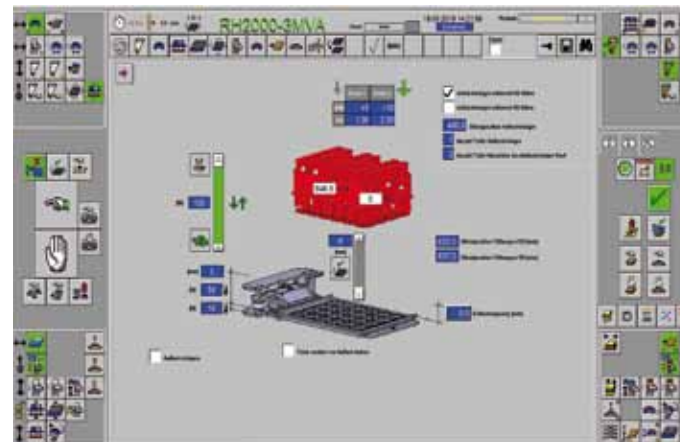
		RH 500	RH 600	RH 1400	RH 1500	RH 2000 (M-Version)
production board (mm)**		1.200 x 670	1.400 x 700	1.400 x 1.100	1.400 x 1.100	1.400 x 1.300
production area (mm)**		1.100 x 620	1.300 x 650	1.300 x 1.050	1.300 x 1.050	1.300 x 1.250
min. product height (mm)		25	25	25	25	25
max. product height (mm)		300	300	400	500	500
dead weight approx. (kg)		7.700	14.000	22.500	46.000	48.000
paver 10x20x6 without face mix	cycle time (s)	17	14	13	10,5	10
	m² in 8h	863	1.258	2.033	2.517	3.230
	qty stones/ form	30	36	54	54	66
paver 10x20x6 with face mix	cycle time (s)	22	18	17	12,5	11,5
	m² in 8h	667	979	1.554	2.114	2.809
	qty stones/ form	30	36	54	54	66
hollow block 20x40x20	cycle time (s)	20	16	16	14,5	13,5
	qty in 8h	6.120	13.770	18.360	20.258	32.640
	qty stones/ form	5	9	12	12	18

Technical data mixers*



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 inexperienced operators become quickly familiar with logic and operating knowledge



Mould and Tamper head control by sliders



Remote control

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)



HESS Production Statistics (Industry 4.0)

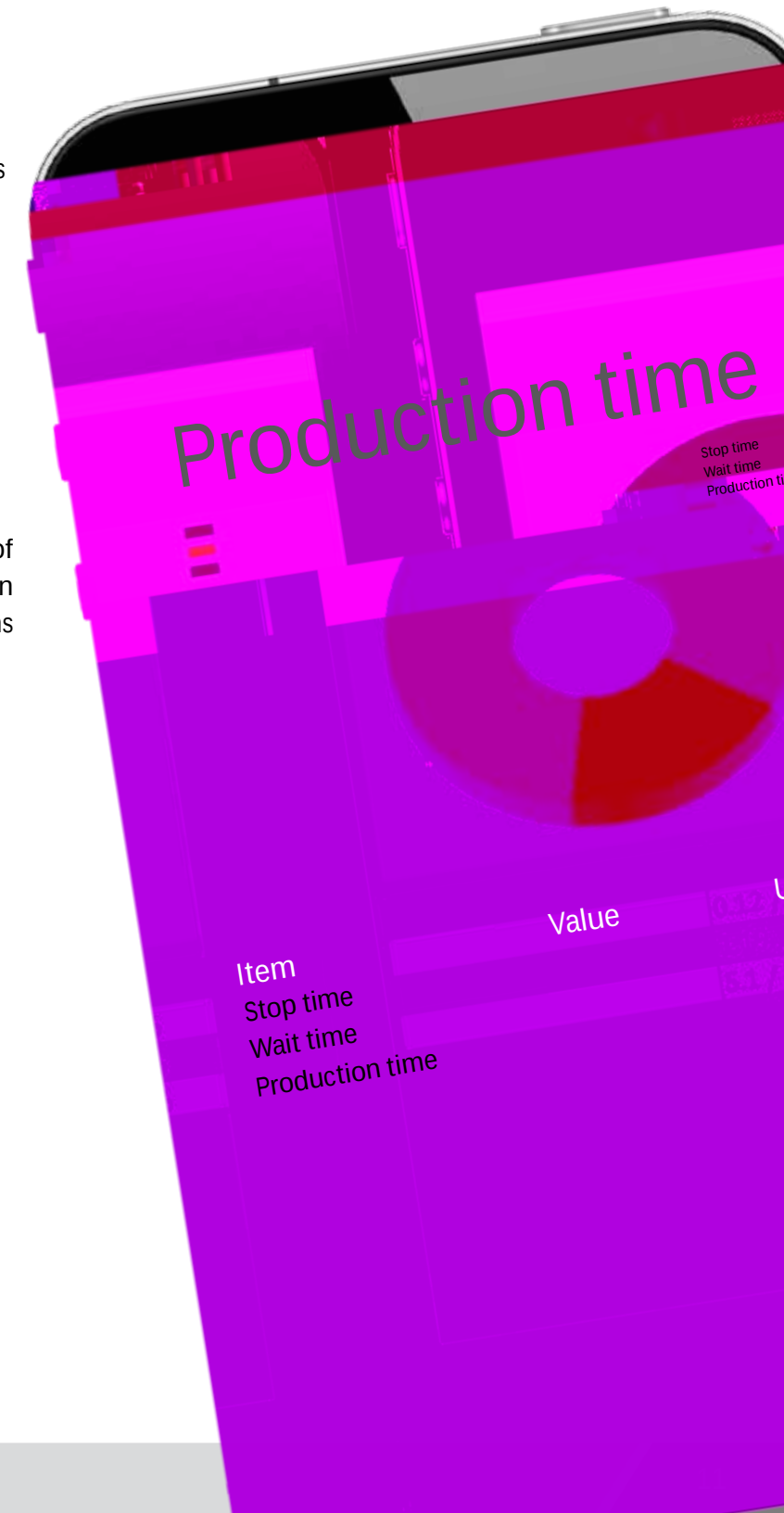
It is important for operators and supervisors to have access to critical production data to assess the performance status of the product orders to better serve customers and manage profitability. All relevant information is collected in a Microsoft SQL database is retrievable by authorized managers on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

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; trolley 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 / -builer
10. Transport of finished cubes



1

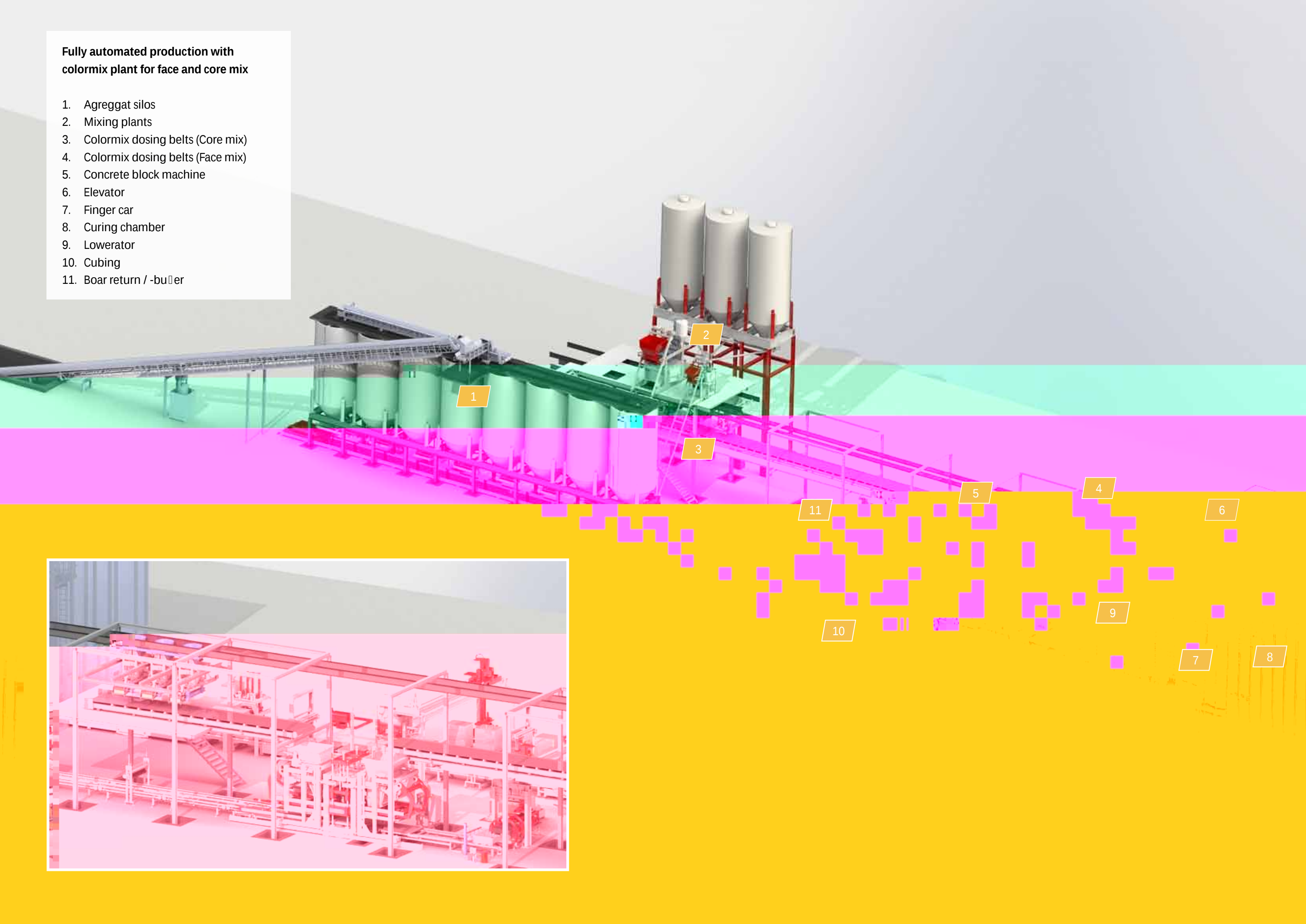
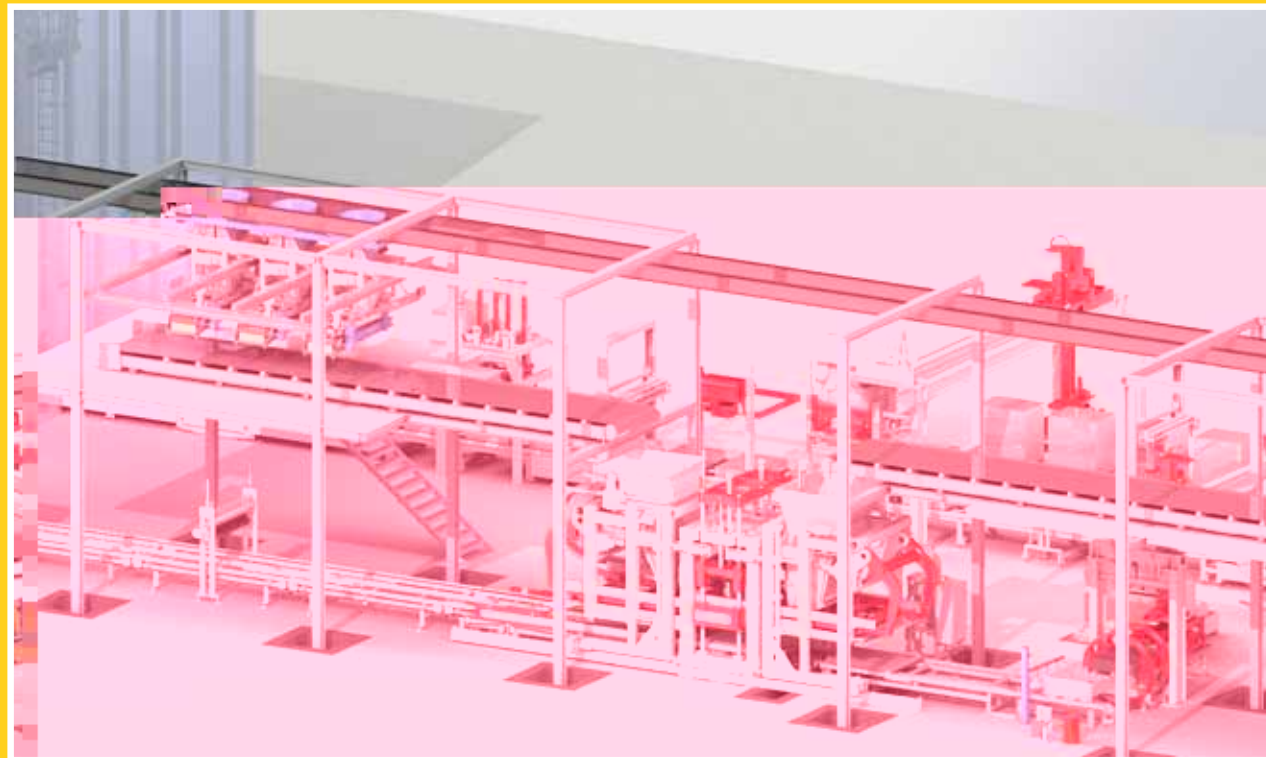
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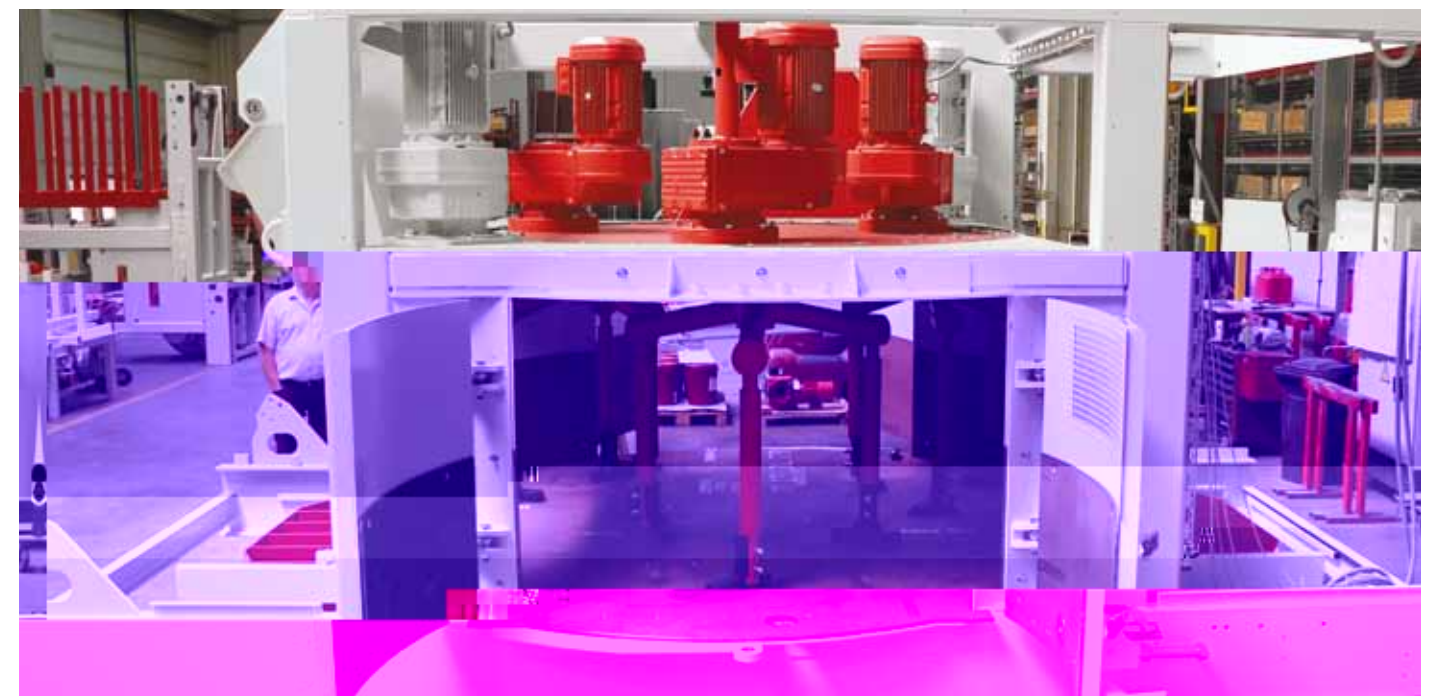
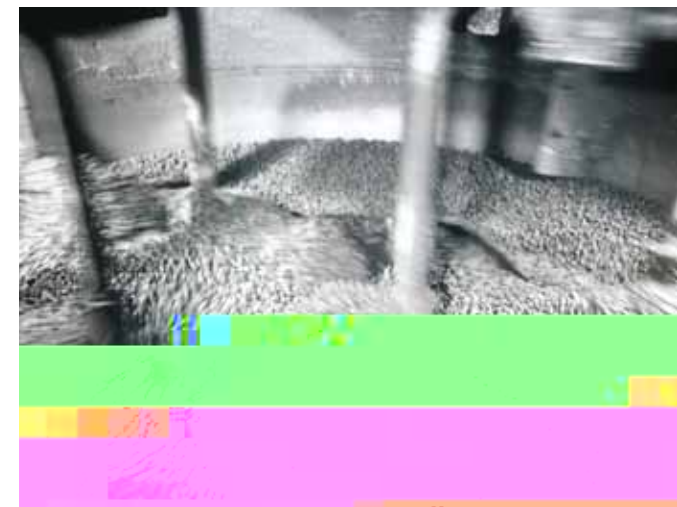
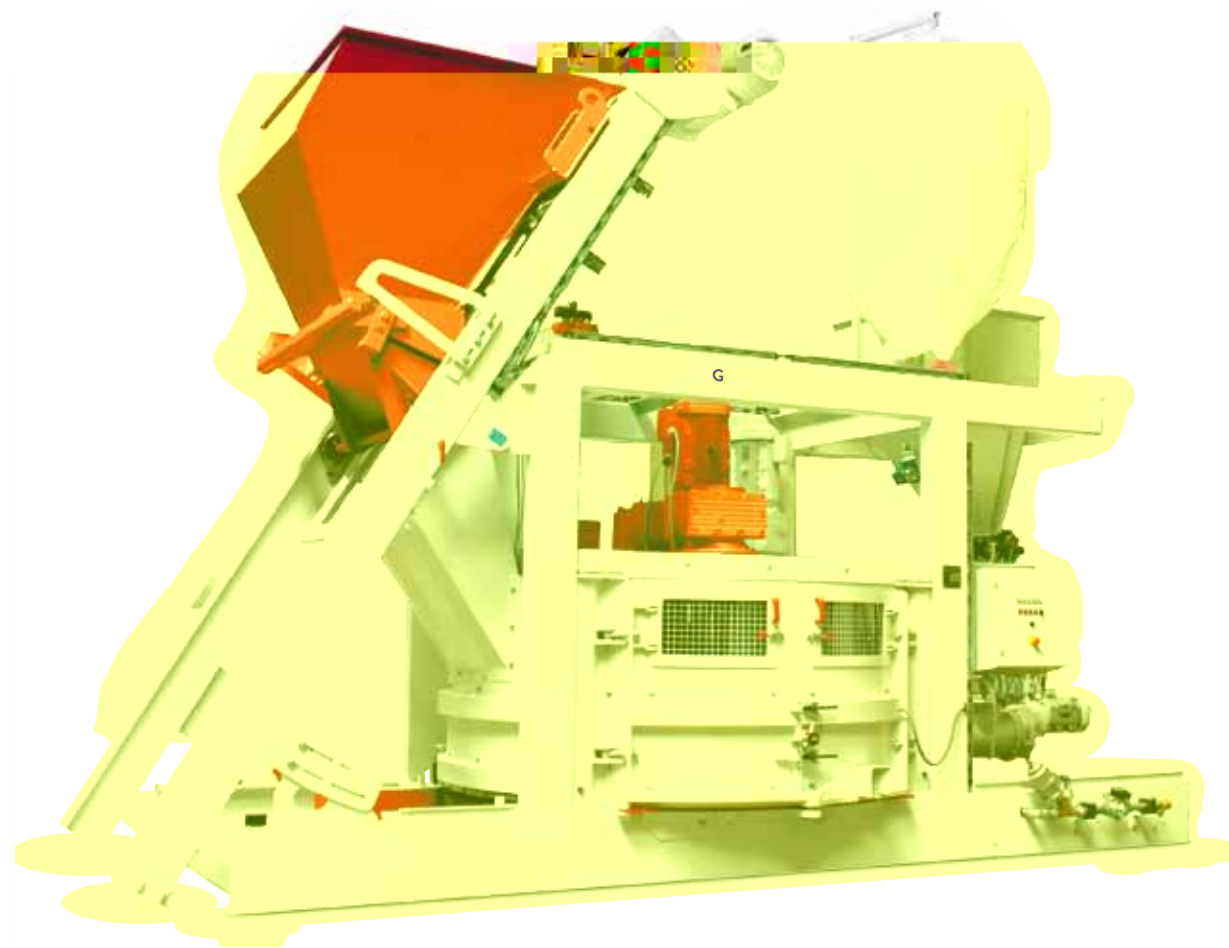
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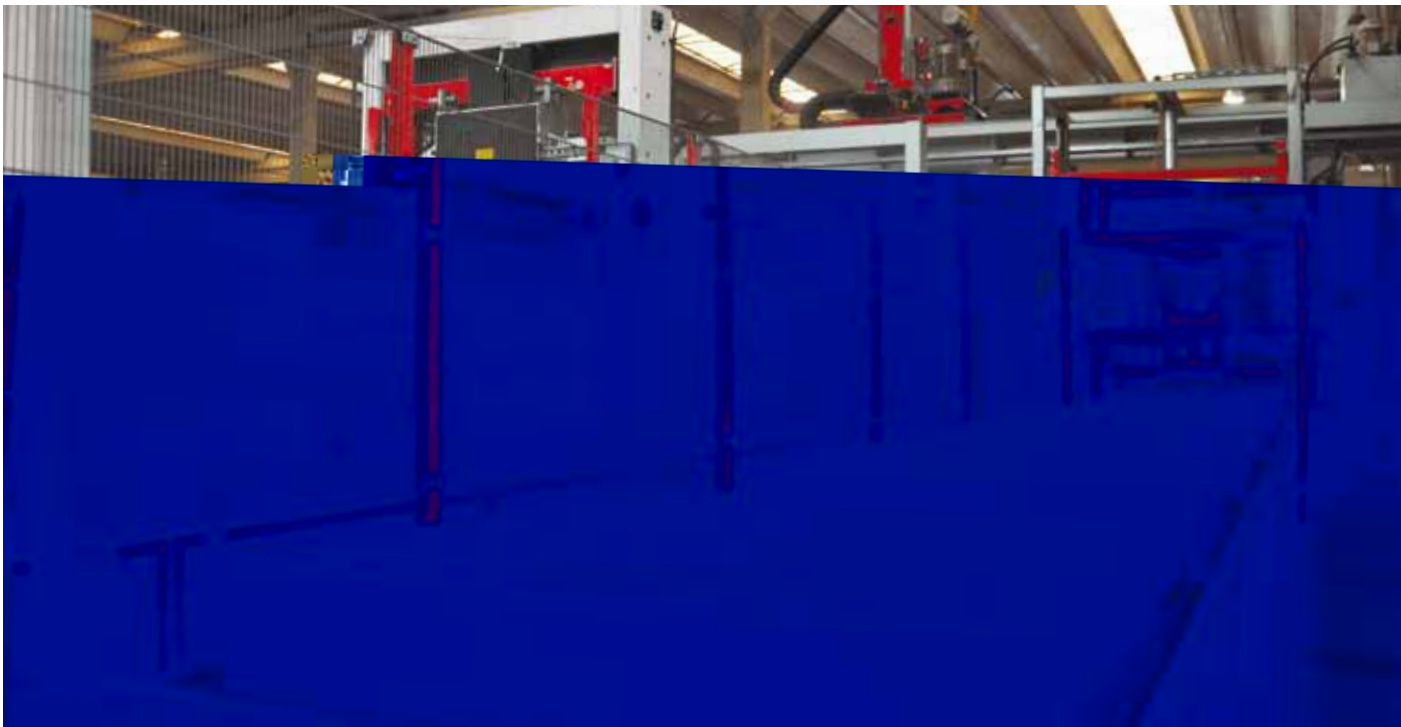
9

**Fully automated production with
colormix plant for face and core mix**

1. Agreggat silos
2. Mixing plants
3. Colormix dosing belts (Core mix)
4. Colormix dosing belts (Face mix)
5. Concrete block machine
6. Elevator
7. Finger car
8. Curing chamber
9. Lowerator
10. Cubing
11. Boar return / -bußer







Dry Side

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



Quality control station



Lowerator with bypass



Finger car



Board buffer finger cart



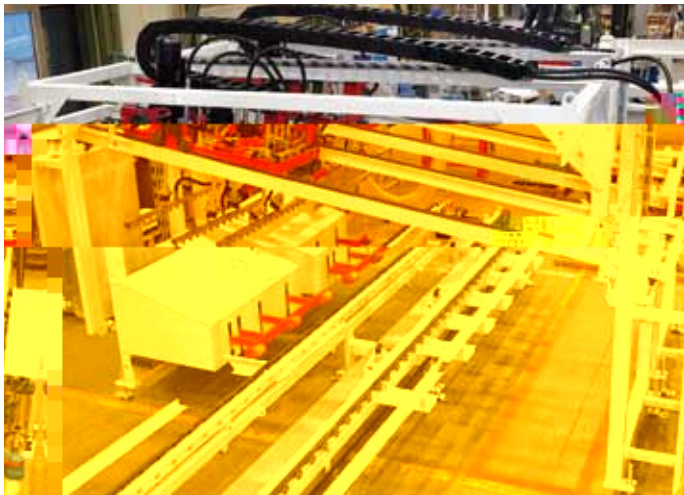
Stone layer doubling unit and cuber



Aging, curling, and coating system



Coating line



Washing system

Surface Treatment.

The market demand for enhanced surface finishes continues to grow, and offers producers an opportunity to grow in market share and profitability. TOPWERK GROUP stands alone in offering the most complete line of surface treatment systems that deliver architectural-grade finishes with integrity, refinement, and unmatched in capability and output.

Surface treatment of concrete products can be implemented in two different methods: Wet side treatment between the production machine elevator device; or, dry side treatment which is applied before cubing with a bypass solution.

- Aging / bush-hammering / abrasion rumbling
- Coloring
- Curling
- Chamfering and edge treatment
- Calibration
- Surface protection
- Grinding
- Splitting
- Blasting
- Washing



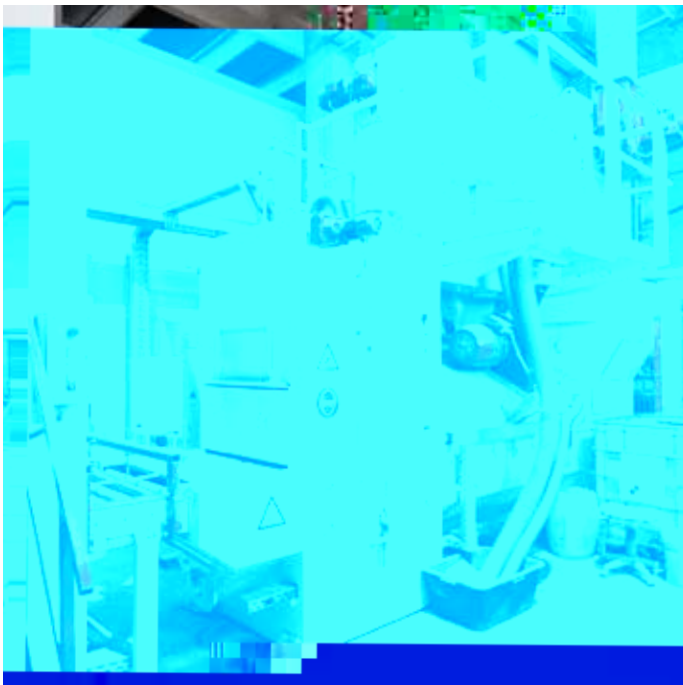
Colored and bushhammered pavers



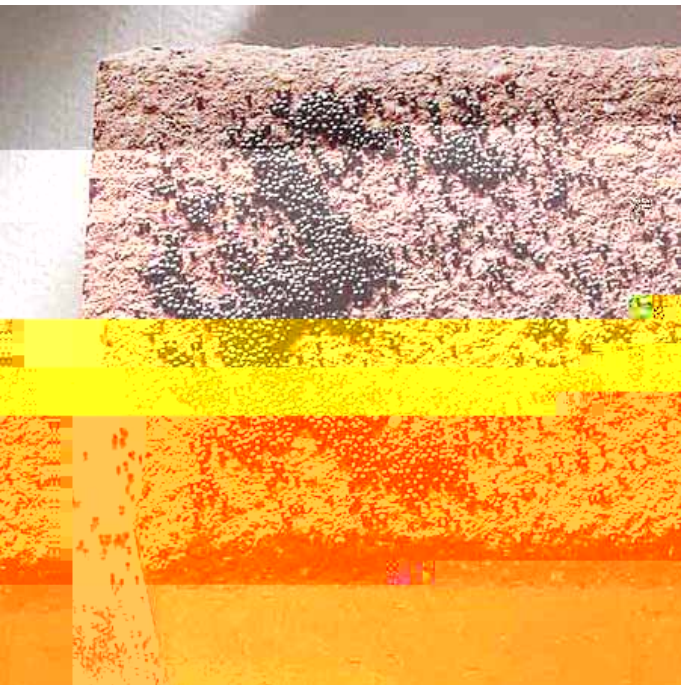
Bushhammering technology



Shot blasted slabs



Blasting machine



Shot blasting technology



Curling machine



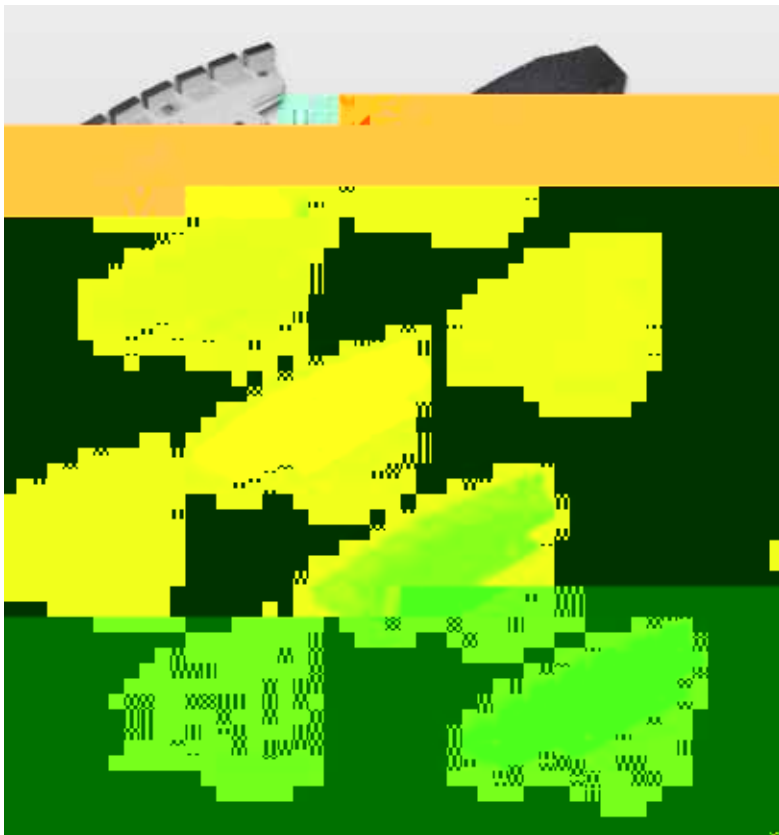
Curled slabs



Vertical milling machine



Split masonry bricks



Grinding tools



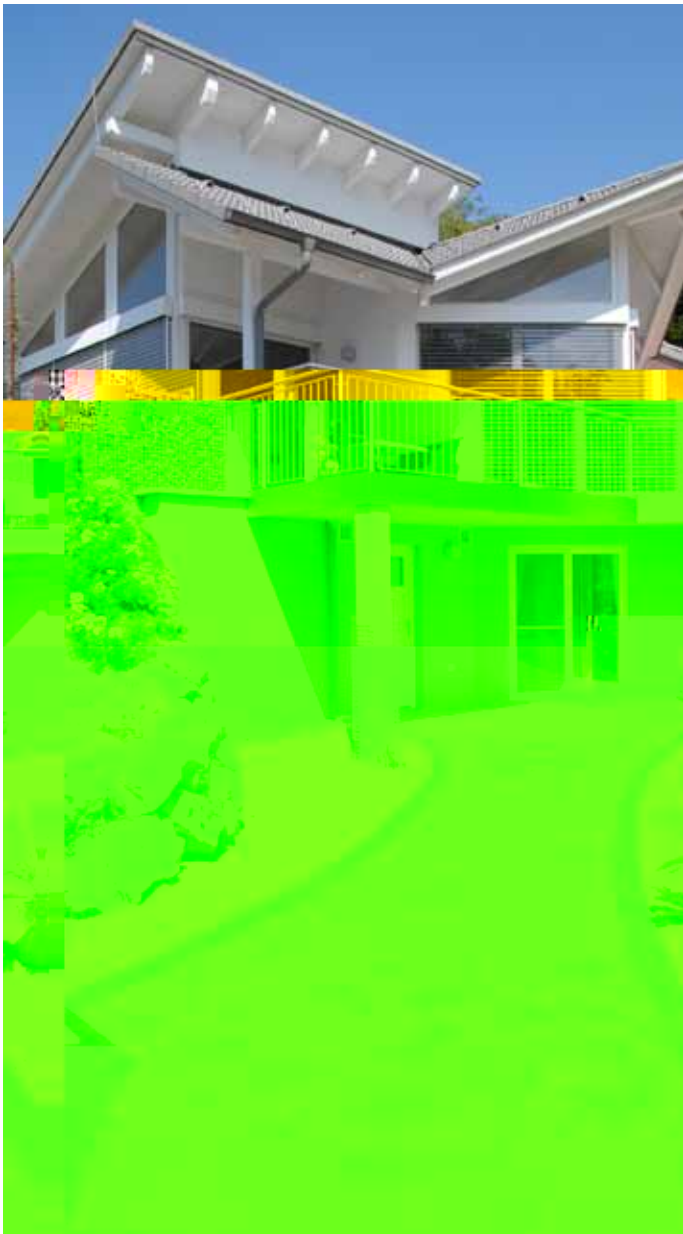
Grinding machine



Grinded slabs

Our patented equipment technology is combined with specifically designed handling systems which can be integrated into the fully automated production plant via a bypass line, or a secondary off-line to support producer preference.

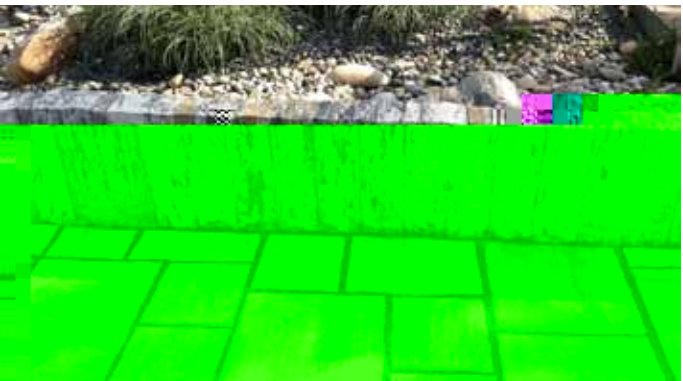
All surface treatment technology is designed to optimize output and reduce unit production cost to enable our producer customer to profitably capture market share and gain a faster return on investment.



Colored pavers



Splitting machine



Colored pavers / colored palisades

