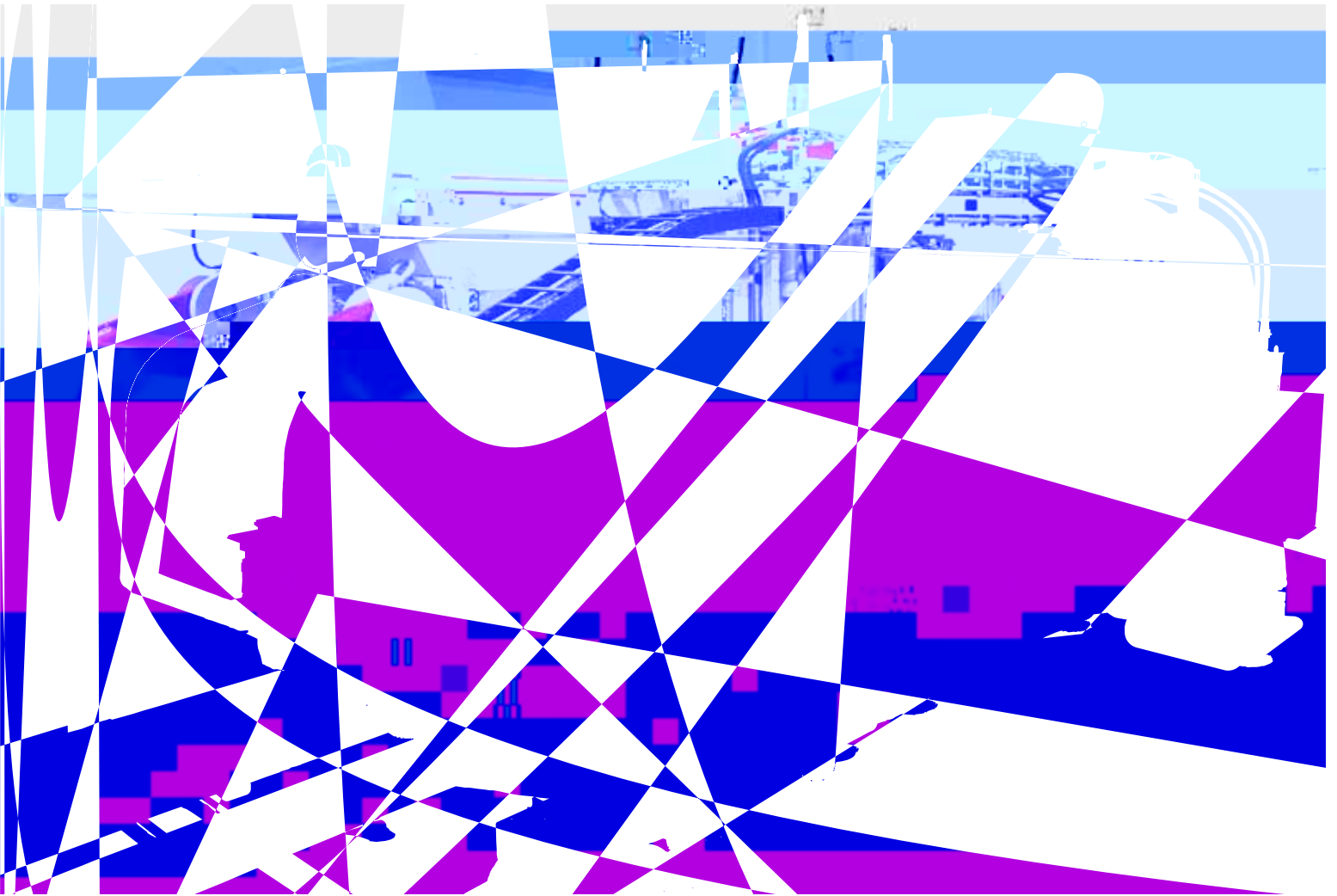
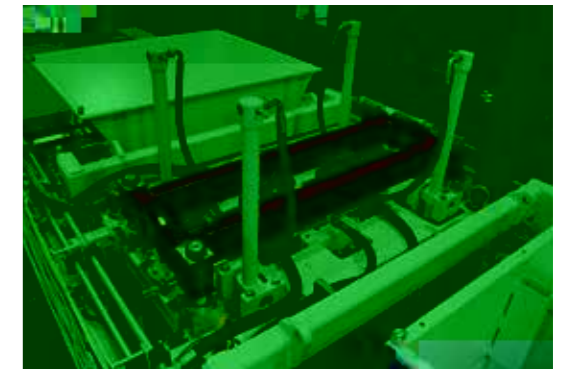
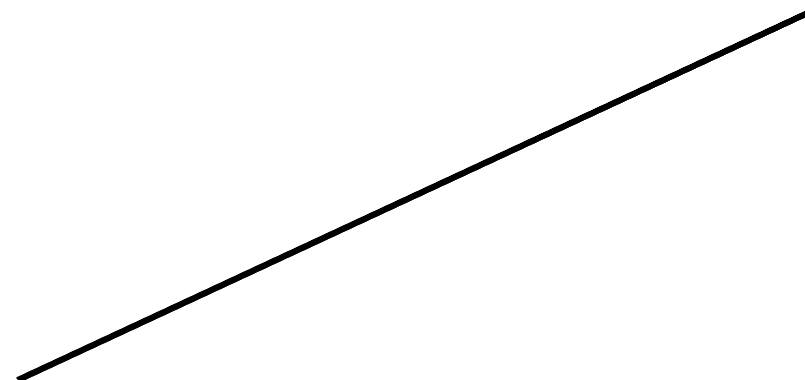
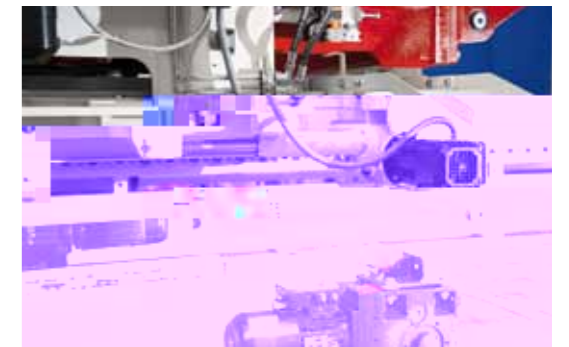
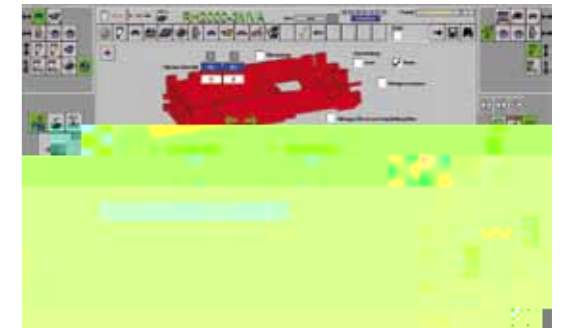
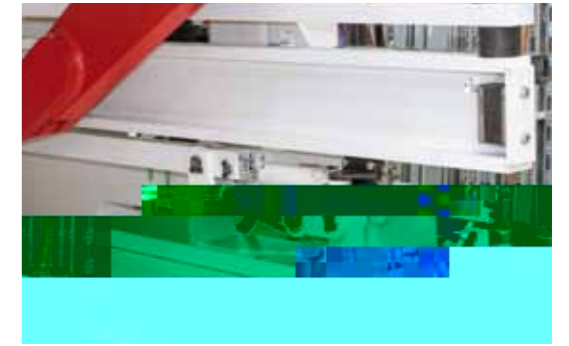
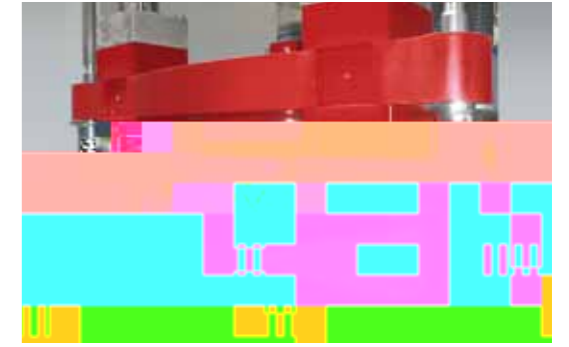




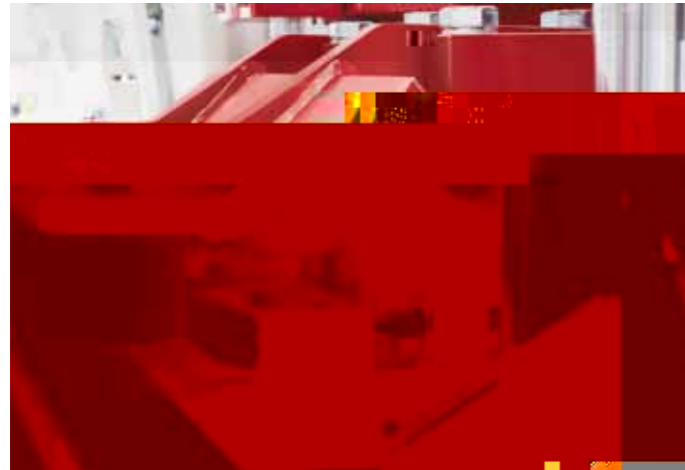
RH 2000-4 RH 1500-4







Machine options



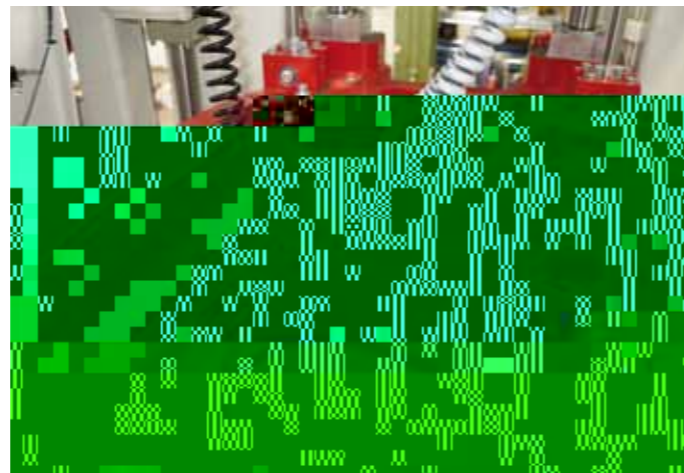
Mold side guide in mold clamping (standard)



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



Rubber-coated tamper head plate (standard)



Tamper head vibrator (optional)



Hydraulic fast lift charger fast mold change (optional)



Colormix drawplate (optional)

HESS Technology



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



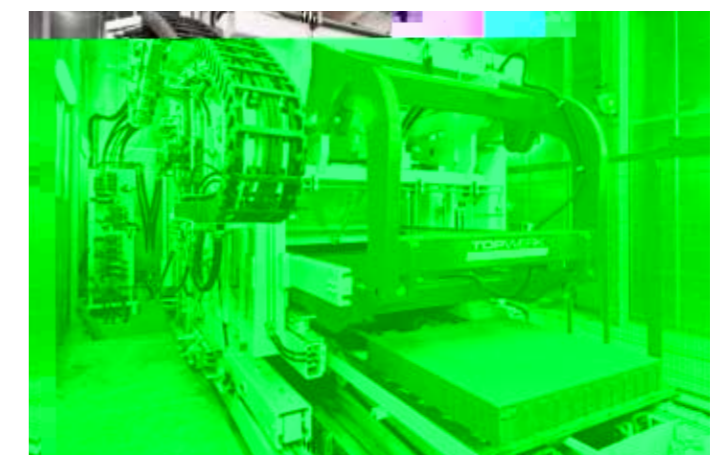
HESS Filler Box Planing Roller.

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:

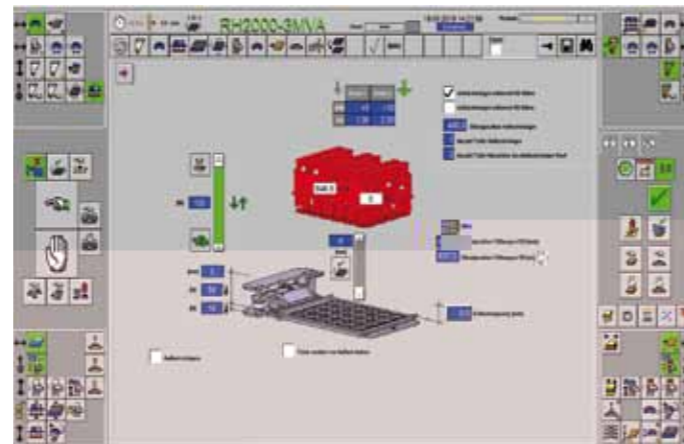
- Higher color brightness and intensity
- Better bond between base mix and Face Mix for a stronger paver
- Faster cycle times as less movements of the Filler are required



HESS control system / HESS Production Statistics

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



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)

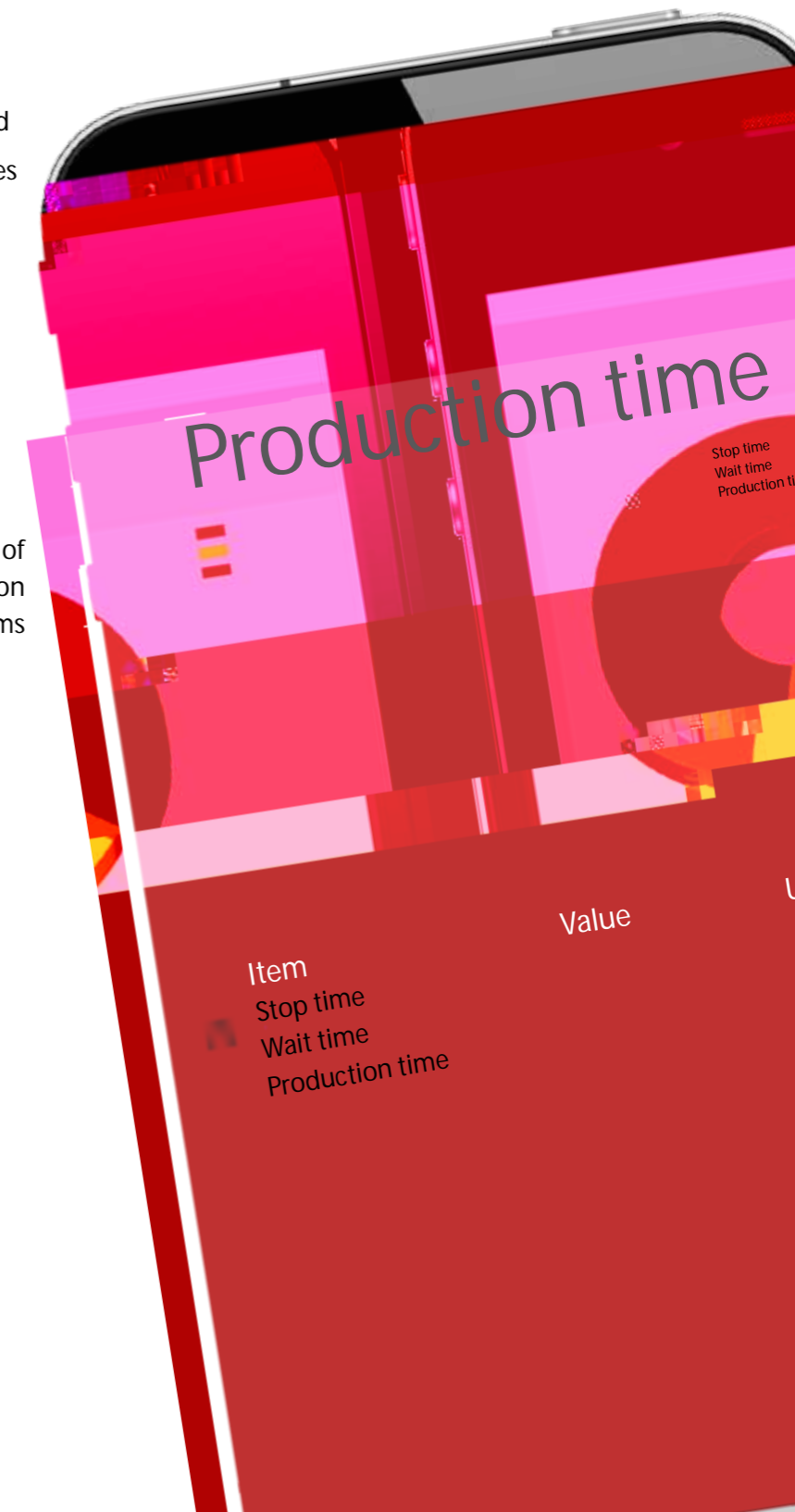
It is important for operators and supervisors to have access to critical production data to assess the performance status of the product orders to better serve customers and manage profitability. All relevant information is collected in a Microsoft SQL database is retrievable by authorized managers on 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

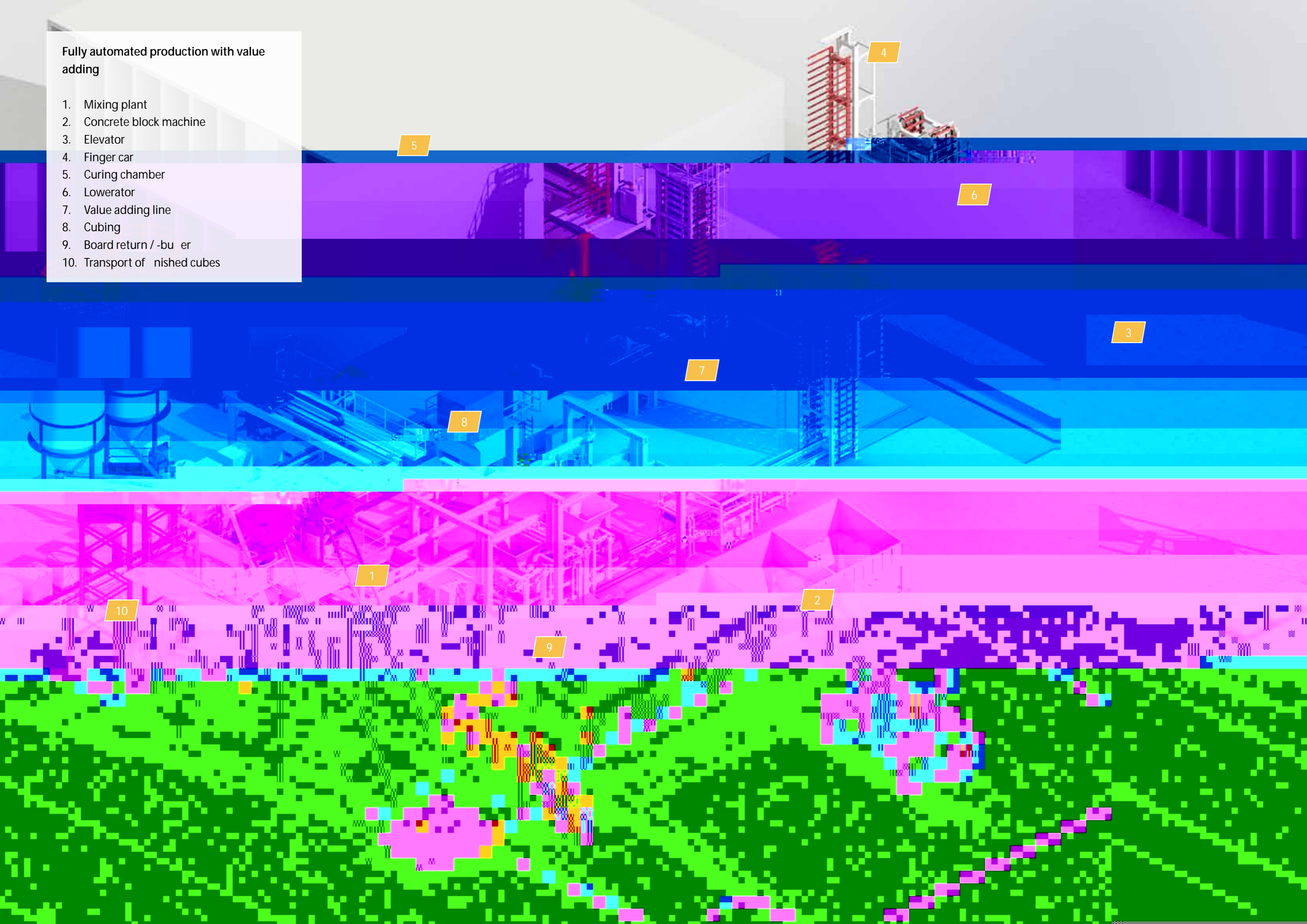
As the industry demonstrates increasing digitalization of production processes (Industry 4.0) the HESS Production Statistics supports continuous improvement programs and other manufacturing excellence initiatives.

- 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 / -buffer
10. Transport of finished cubes



4

5

6

3

7

8

1

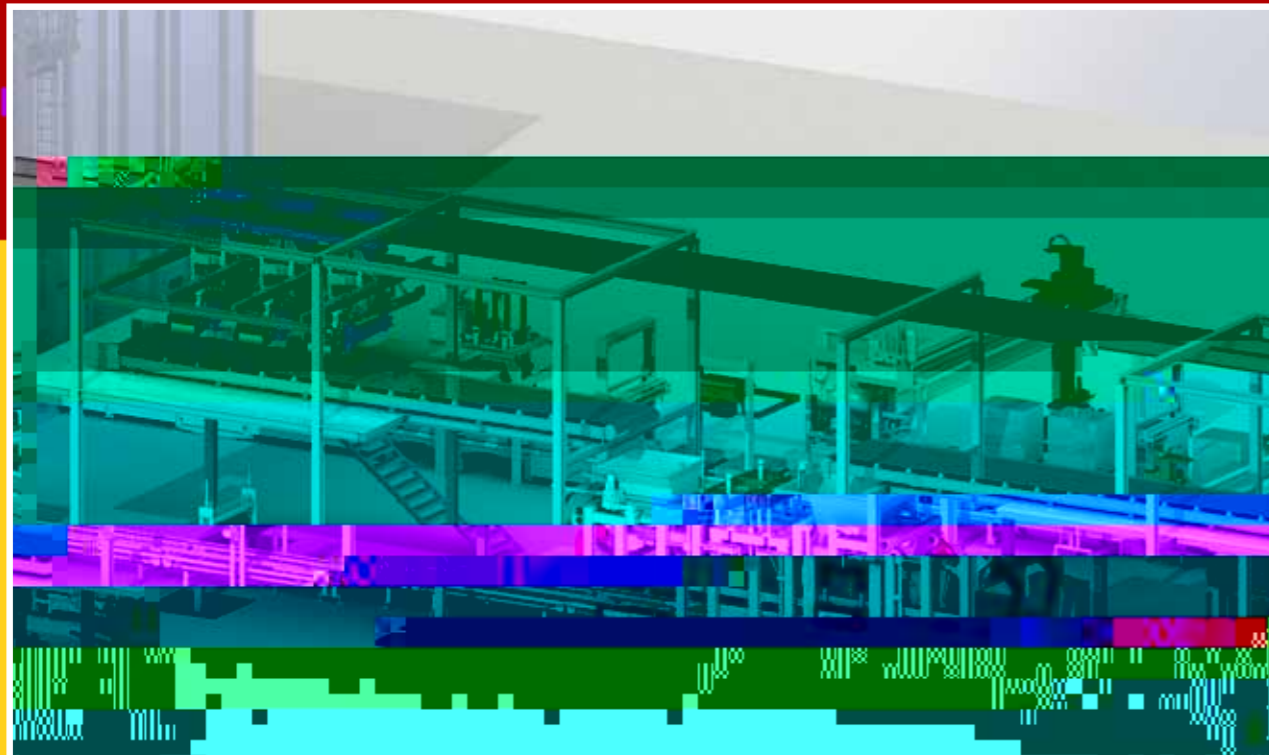
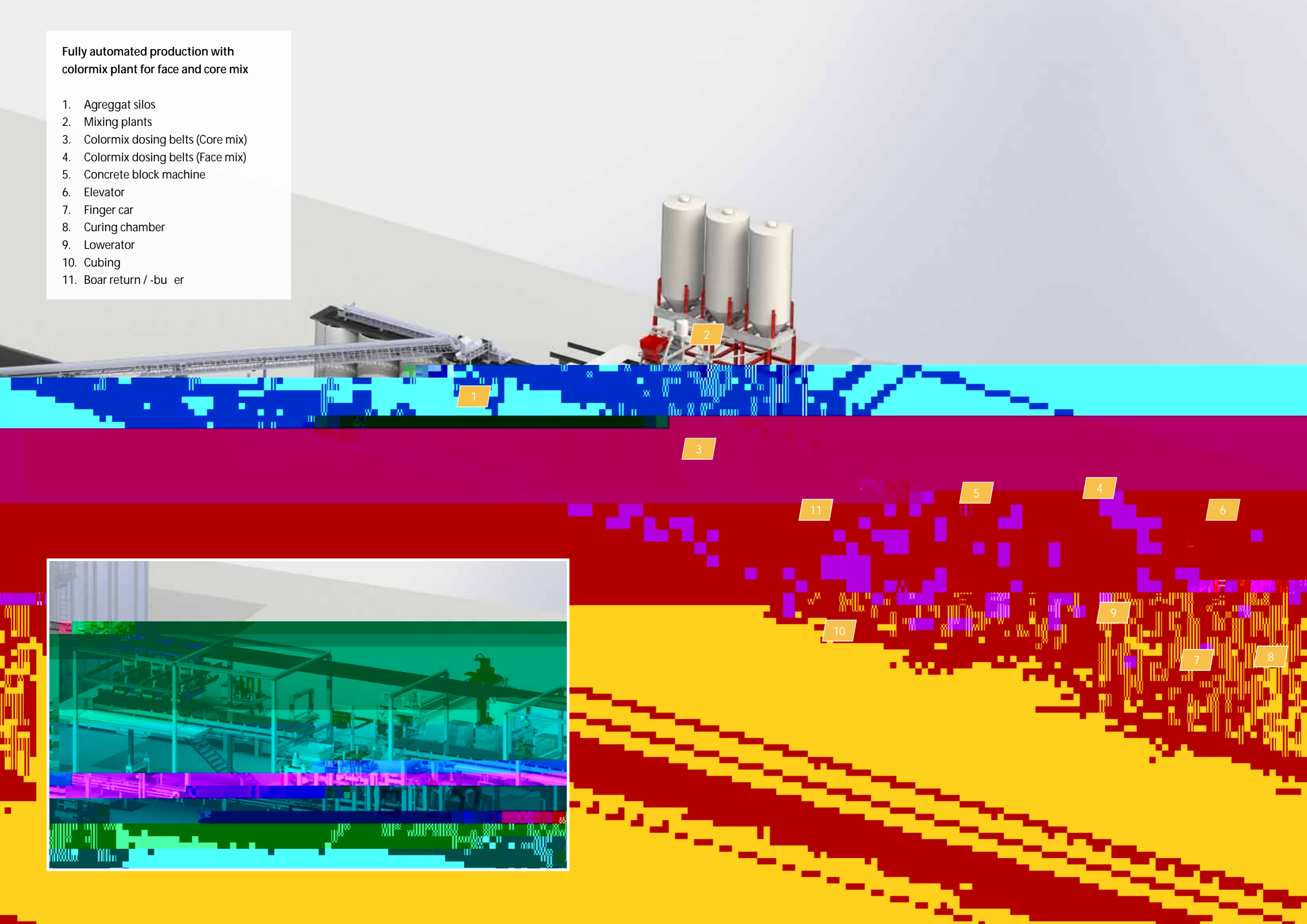
2

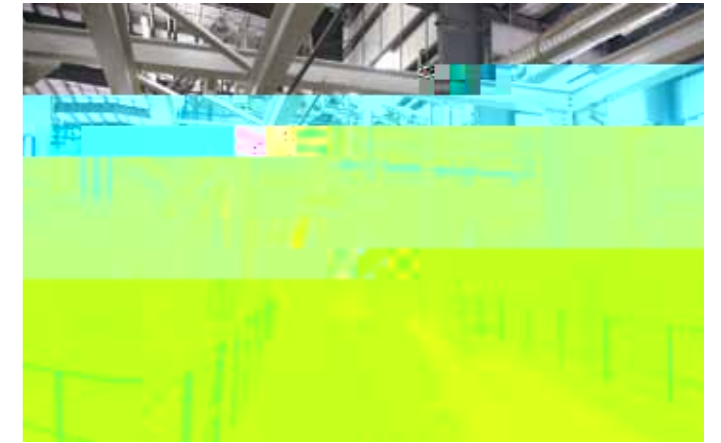
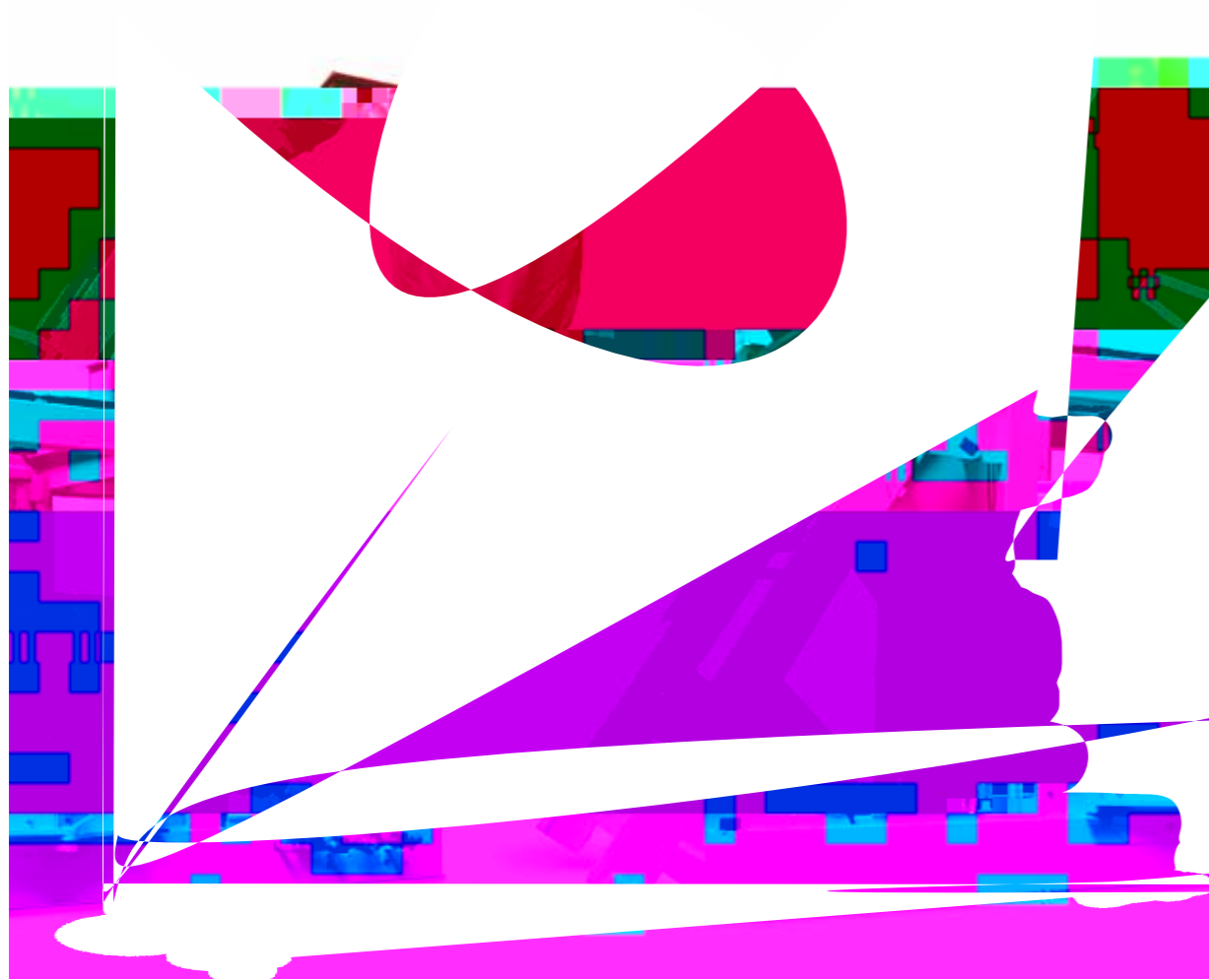
10

9

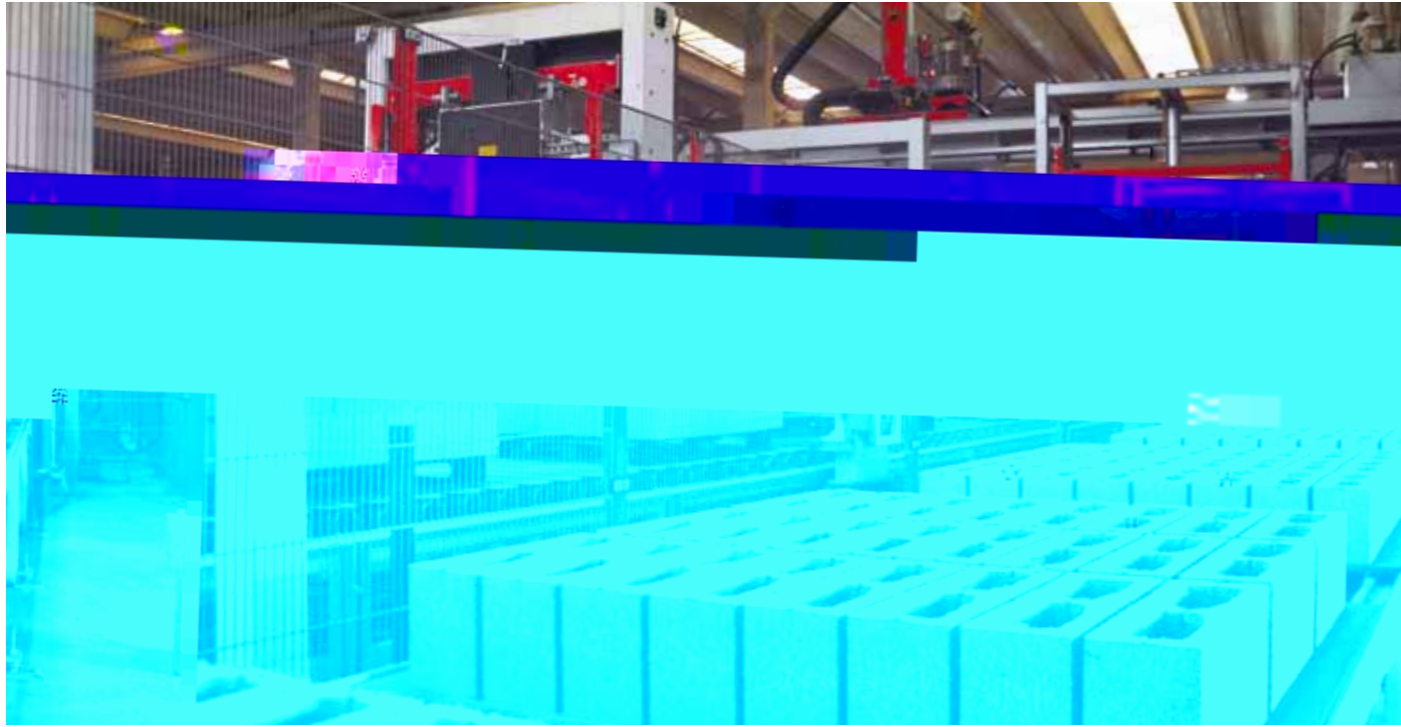
Fully automated production with colormix plant for face and core mix

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 / -bu er





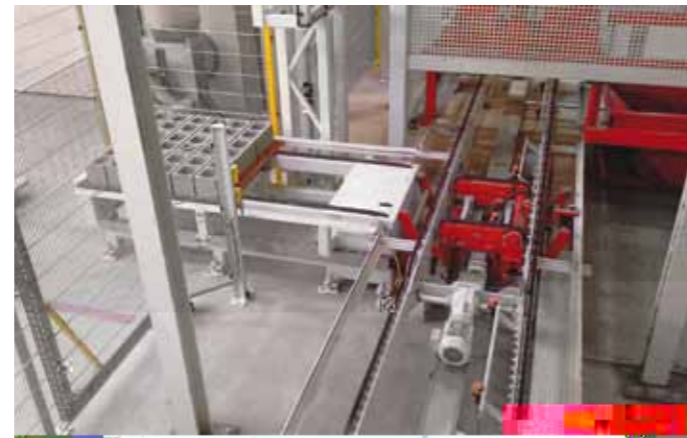
Transfer and handling systems



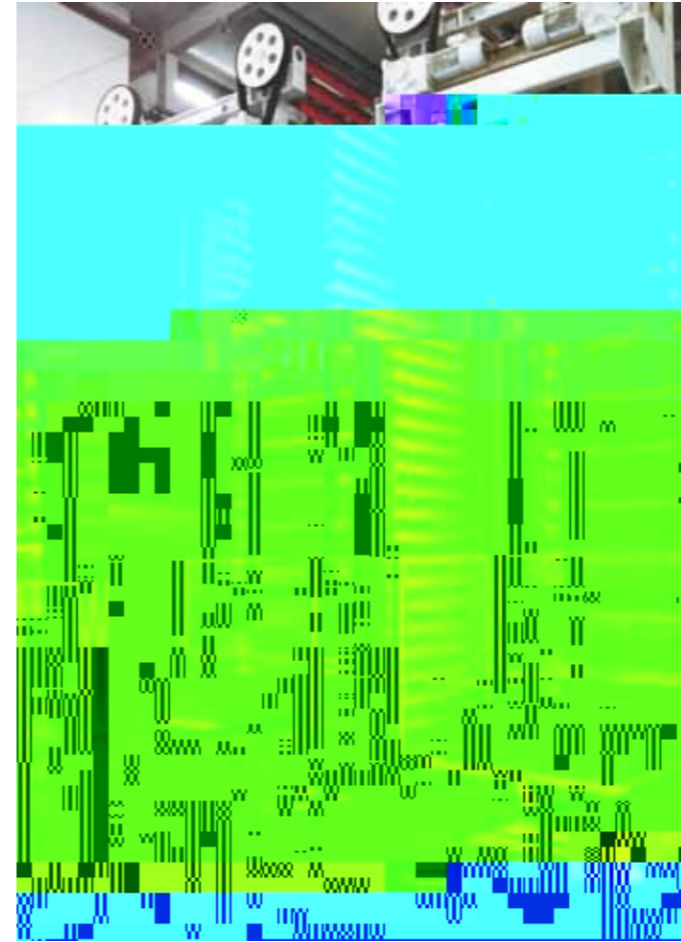
Dry Side



Buffer rack



Quality control station



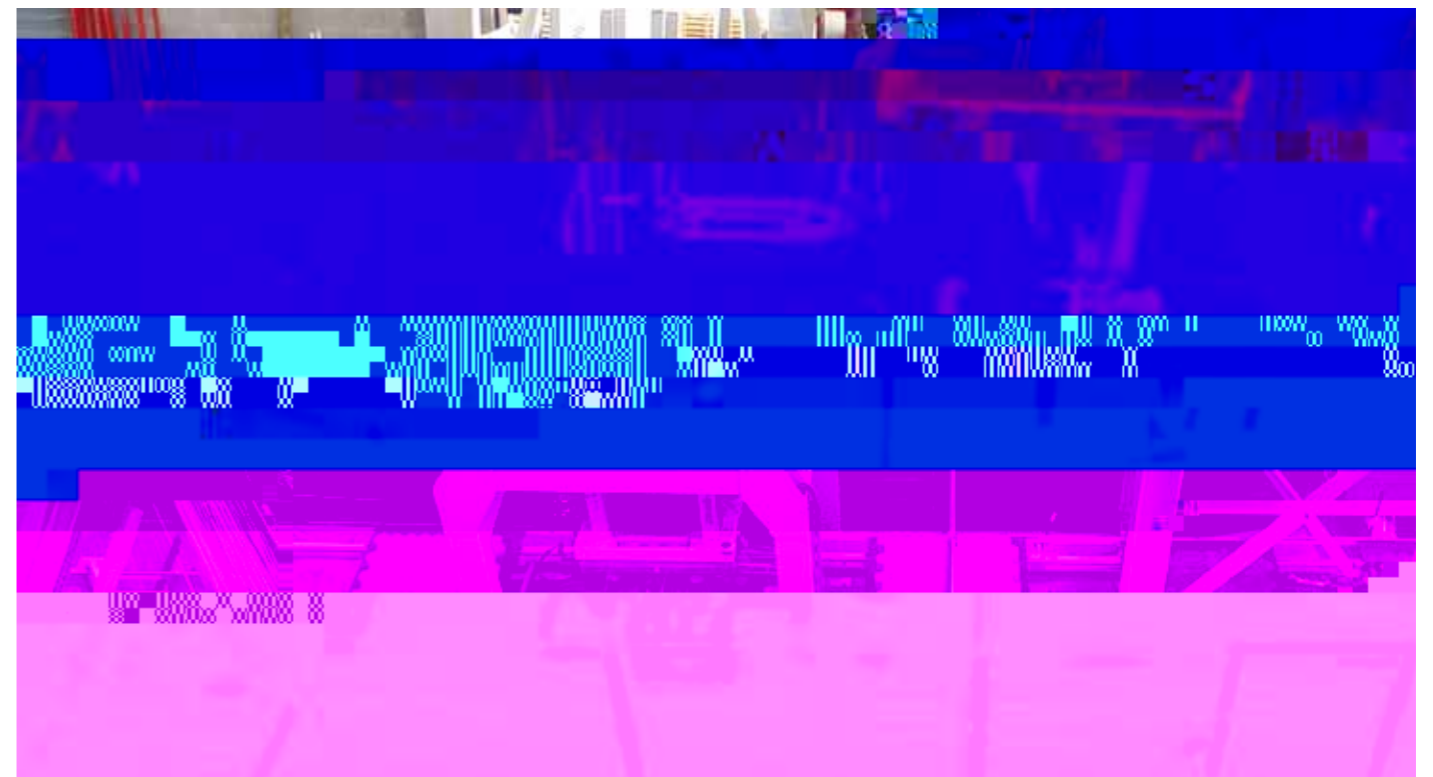
Lowerator with bypass



Finger car



Board buffer finger cart



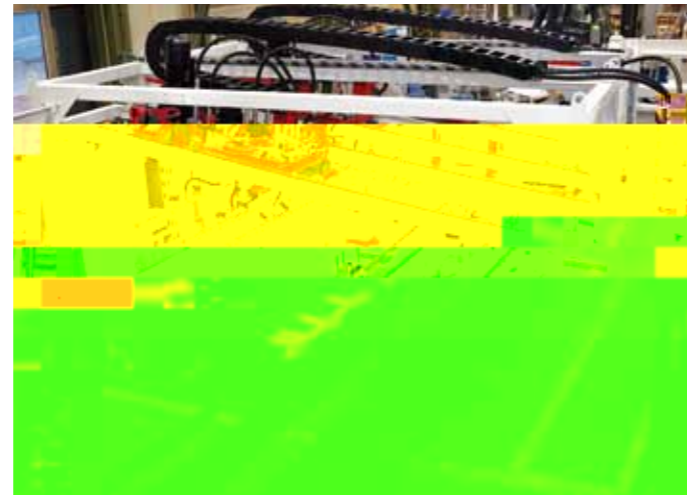
Surface treatment



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



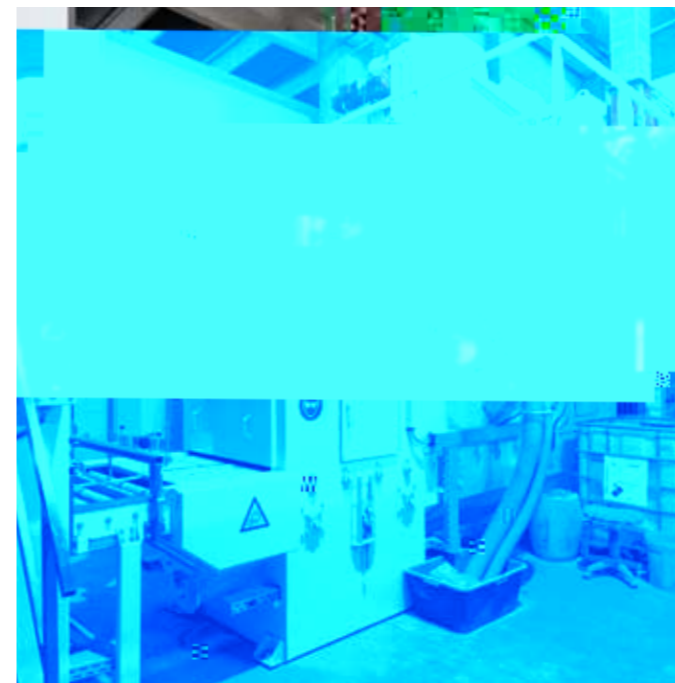
Colored and bushhammered pavers



Bushhammering technology



Shot blasted slabs

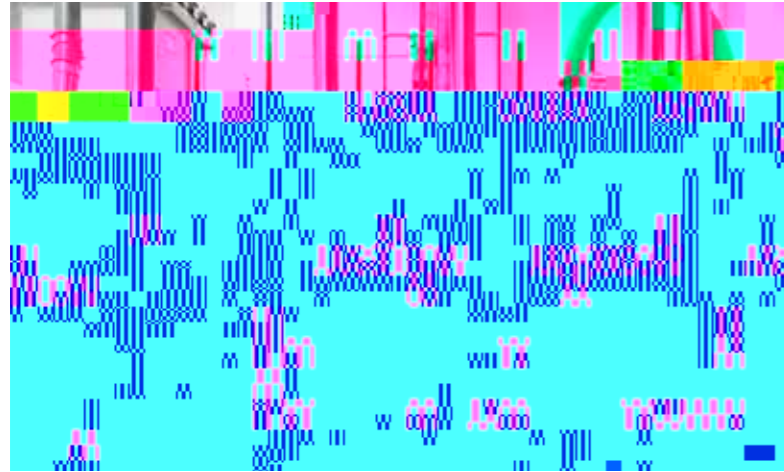


Blasting machine



Shot blasting technology

Surface treatment



Curling machine



Curled slabs



Vertical milling machine



Split masonry bricks



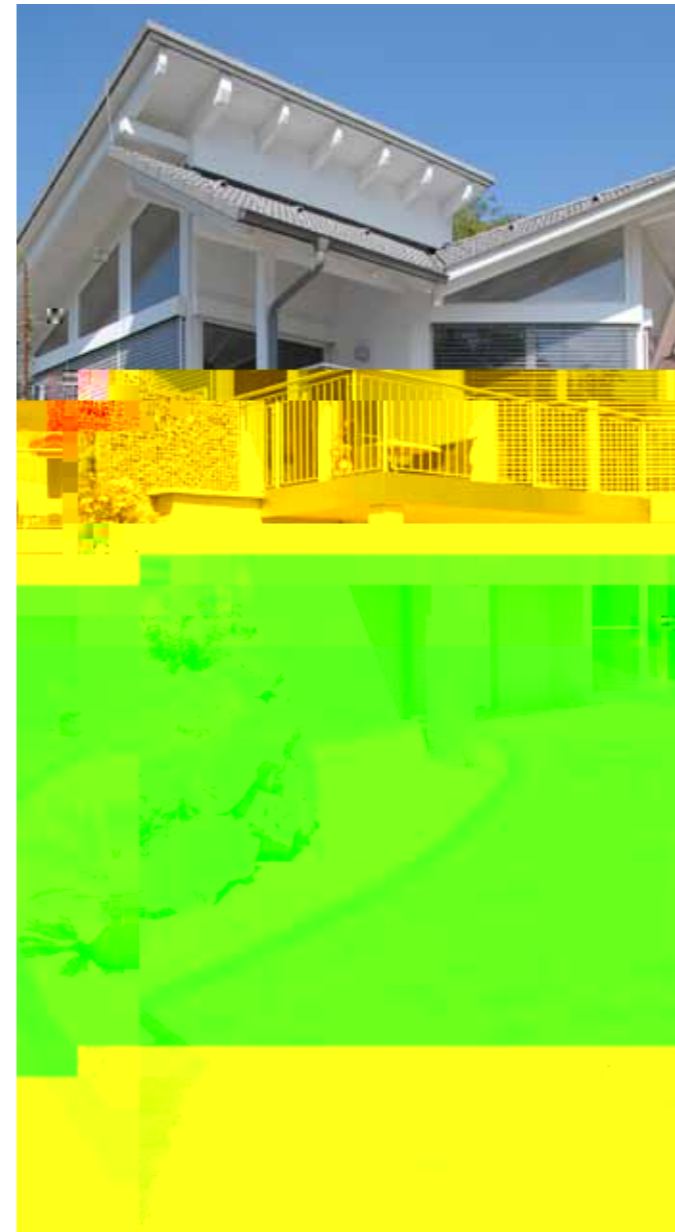
Grinding tools



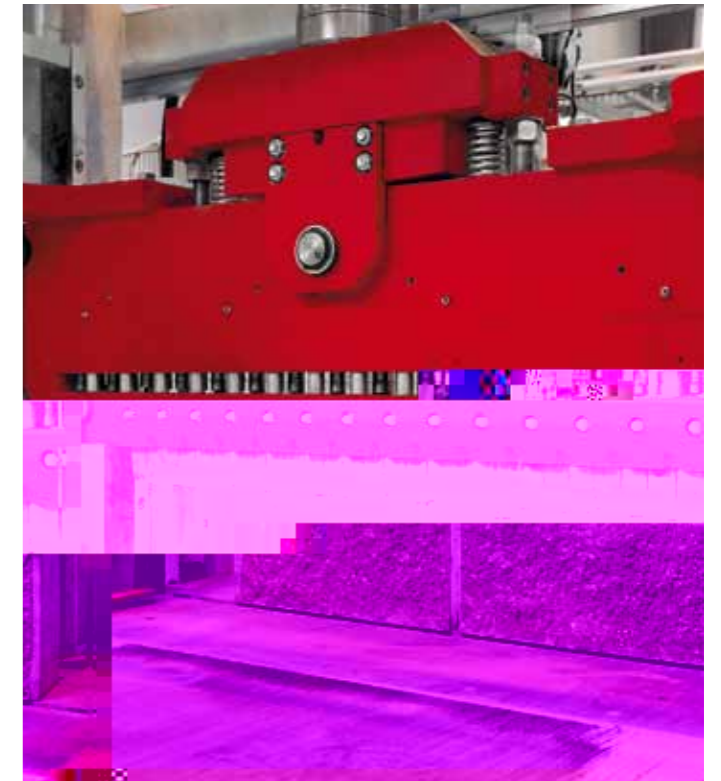
Grinding machine



Grinded slabs



Colored pavers



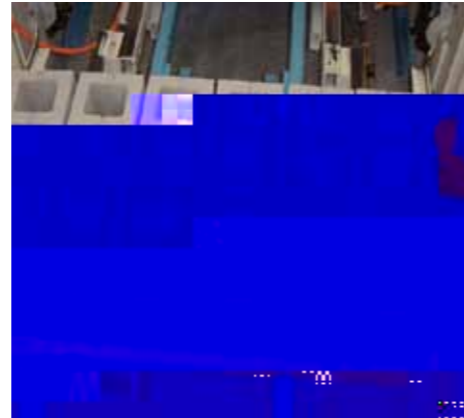
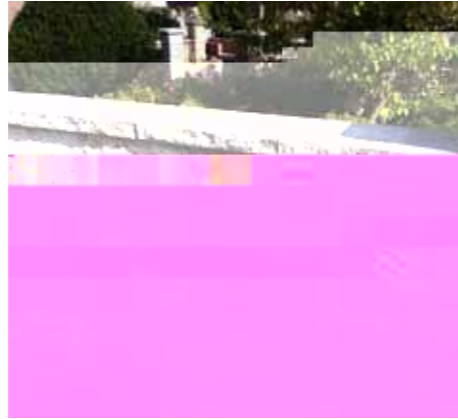
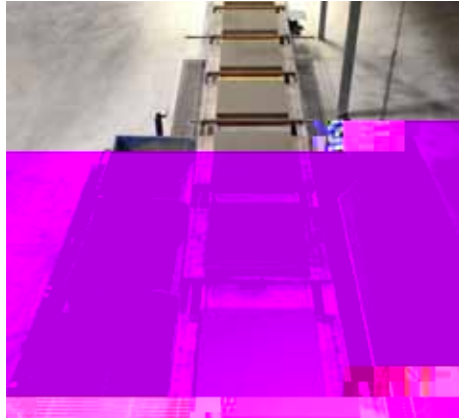
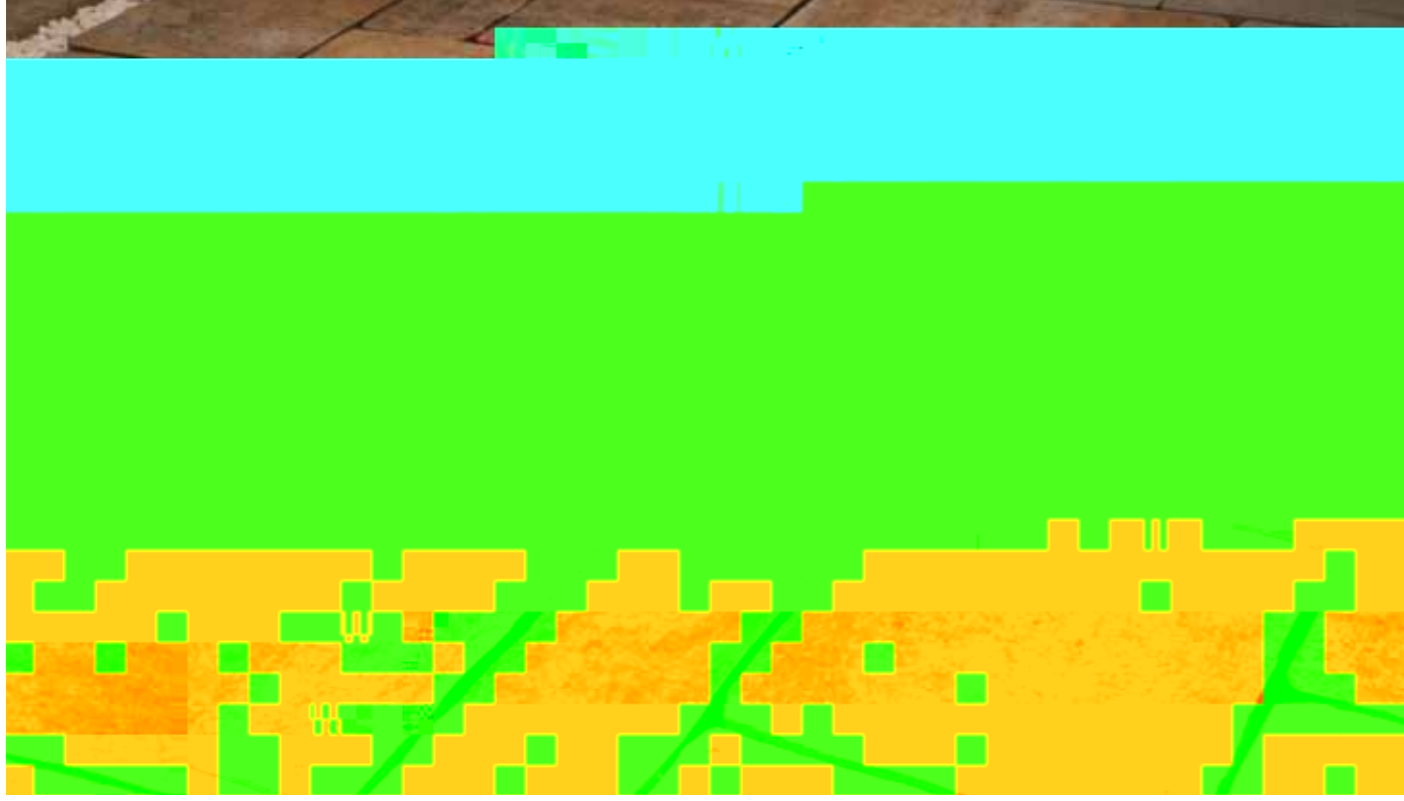
Splitting machine



Colored pavers / colored palisades

Our patented equipment technology is combined with specially 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.



W E P U T C O N C R E T E