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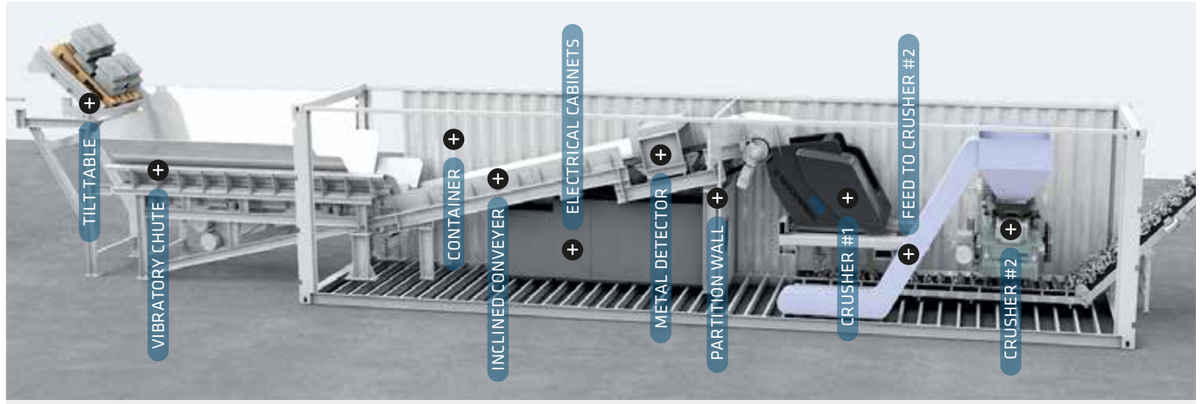
KBH VALUE ADDED SOLUTIONS

>> KBH CRUSHER



+ QUICK FACTS

- **Recycling Process: Direct recycling from the quality control station without intermediate storage**
- **Integration: Seamless reintroduction of crushed material into the manufacturing process**
- **Design: Compact container solution with separate compartments for feeding and crushing**
- **Material Handling: Accommodates various feeding methods, including forklift trucks and shovel loaders**
- **Flexibility: Available in single or dual crusher configurations for customizable grain size output**
- **Efficiency: Operates with low energy consumption and wear costs**

+ WORKING PRINCIPLE

The KBH CRUSHER uses a specialized jaw crusher to process concrete waste directly from the quality control station, avoiding the need for intermediate storage. The machine can be configured in a single or dual crusher setup to accommodate varying grain size requirements, from 0-13 mm to as fine as 0-4 mm. The crushed material is then immediately available to be reused in the paver production. The system can process all kinds of stones from small sizes up to curb stones or step stones It is compact and containerized, with a dust suppression system or an optional dust extraction system to maintain a clean working environment. With its flexible feeding options, including tilt tables and vibratory chutes, the KBH CRUSHER ensures continuous operation and high throughput, all while keeping energy and wear costs low.

+ WHY CHOOSE KBH CRUSHER

- Direct Recycling: Streamlines the recycling process by eliminating intermediate storage, reducing waste management complexity.
- Compact Design: Containerized solution that fits easily into existing plant configurations.
- Versatility: Can process a wide range of materials with adjustable grain size output for various applications.
- Cost-Efficiency: Low energy and wear costs ensure sustainable operation.
- Minimal Labor: Designed for automated operation, reducing the need for additional labor.

>> KBH QC IMAGER

+ QUICK FACTS

- **Installation: On Wet and/or Dry side**
- **Technology: Utilizes 2D cameras for color and crack detection and 3D cameras for geometry, height and volume measurement**
- **Operation: Fully automatic quality control with option of robotic sorting system**
- **Algorithms: Combines AI and non-AI algorithms detecting any irregularities powered by Quatromatic**
- **Space Requirement: minimal occupation between two board positions**
- **Adaptability: Ideal for both new installations and retrofits**
- **Commissioning: System with pre-trained intelligence ready for immediate use, including automatic product geometry detection**
- **External data integration**
- **Modular Upgrade: Detection of product density**

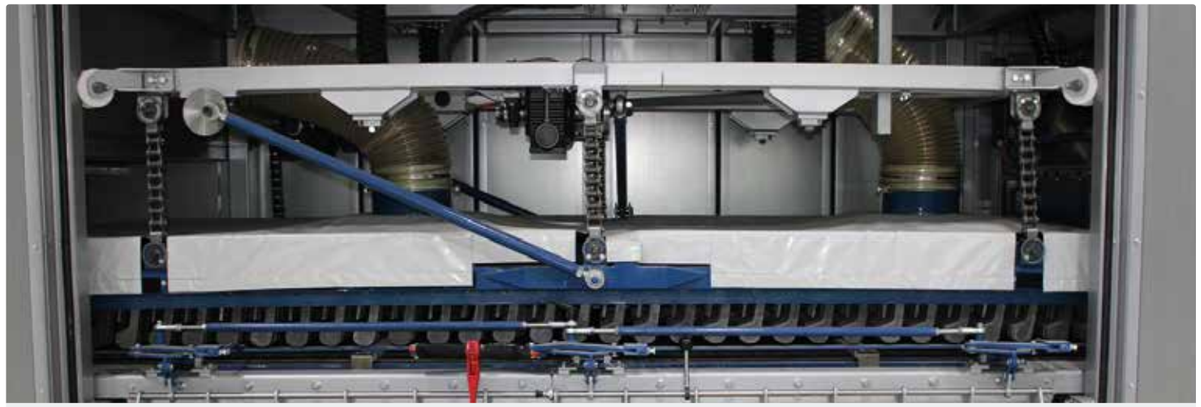
+ WORKING PRINCIPLE

The KBH QC IMAGER straddles a conveyor transporting the production boards through the operation area. The camera system detects faults such as hairline cracks, structural defects, and color mismatches. When a defect is identified, and the robot sorting system is in place, the system lifts the entire board and exposes it to a QC robot, which replaces defective products with flawless ones. The production board is then returned to the transport conveyor, allowing continuous operation without significant downtime. The sensitivity of the IMAGER can be adjusted according to specific quality control requirements, ensuring tailored precision for every production line. The wet side system stops the machine after a defined number of boards with any irregularities leaving the machine in succession.

+ WHY CHOOSE KBH QC IMAGER

- Präzise Qualitätskontrolle: Erfasst zuverlässig eine Vielzahl von Defekten, einschließlich Haarrissen und Farbabweichungen, und gewährleistet, dass nur einwandfreie Produkte ausgeliefert werden.
- Vielseitige Installation: Geeignet für Neuinstallationen oder als Nachrüstlösung, um die Flexibilität bestehender Anlagen zu erhöhen.
- Hochmoderne Technologie: Kombination aus 2D- und 3D-Kameratechnologie mit KI- und Nicht-KI-Algorithmen für eine umfassende und präzise Fehlererkennung.
- Kostensenkung: Automatisierte Fehlerbearbeitung reduziert Arbeitskosten und erhöht die betriebliche Effizienz.

>> KBH STATIONARY AGING MACHINE – DANCING WEIGHT



+ QUICK FACTS

- **Installation: Can be installed IN-LINE and OFF-LINE**
- **Innovation: Replaces conventional tumbling drums**
- **Hands-Off Operation: Product layers stay in the mold pattern for fully automated aging**
- **Tool-Free Design: No actively driven tools for increased flexibility**
- **Aging Intensity: Individually set by tool composition and machine settings, all recipe-controlled**
- **Product Compatibility: No limitations in size and geometry, accommodates holland stone layers or slabs up to 1300 x 1300 mm or 51" x 51"**
- **Dust Removal: Ensures removal of debris and dust, minimizing silica dust threat and chokes the appearance of efflorescence**
- **NEW Curling Light: as an additional treatment, it is now possible to replace the dirt brush with a Curling Light brush to enhance the surface quality**

+ WORKING PRINCIPLE

Product layers are placed on the throughput conveyor and indexed through the operation area of the Dancing Weight Machine. The vibration table accommodates various product layers, allowing individual stones to dance and hit free-floating aging tools. Aging intensity is precisely controlled through different tool compositions and machine settings, all managed through recipe controls. The machine's encapsulation with large, operator-friendly access doors ensures ease of maintenance and preventative measures.

+ WHY CHOOSE KBH DANCING WEIGHT AGING MACHINE

- Versatility in product size and shape
- Tool-free design for increased flexibility
- Unparalleled aging intensity control with recipe-based precision
- Virtually 0% cull
- Fully hands off operation outpacing the board machine in case of inline operation
- Reliable debris and dust removal system for an environmentally friendly operation
- 3-year warranty on the vibration system's structural design

+ PRODUCT SAMPLE

>> KBH PORTABLE AGING MACHINE – DANCING WEIGHT

+QUICK FACTS

- **Installation: Can be installed IN-LINE and OFF-LINE**
- **Innovation: Replaces conventional tumbling drums**
- **Hands-Off Operation: Product layers stay in the mold pattern for fully automated aging**
- **Tool-Free Design: No actively driven tools for increased flexibility**
- **Aging Intensity: Individually set by tool composition and machine settings, all recipe-controlled**
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+ PRODUCT SAMPLE

>> KBH SHOT BLAST MACHINE

+ QUICK FACTS

- **Method: Shot blasting with turbines using steel shot material**
- **Enhancement: Exposes face mix grain for a mature appearance**
- **Versatility: Wide range of steel shot materials supported**
- **Turbine Design: Special tool-less blade changes for a homogeneous shot flow**
- **Cost Efficiency: Lowest operational costs with a multi-functional design**
- **Throughput Options: Different operation width options available based on requested throughput**

+ WORKING PRINCIPLE

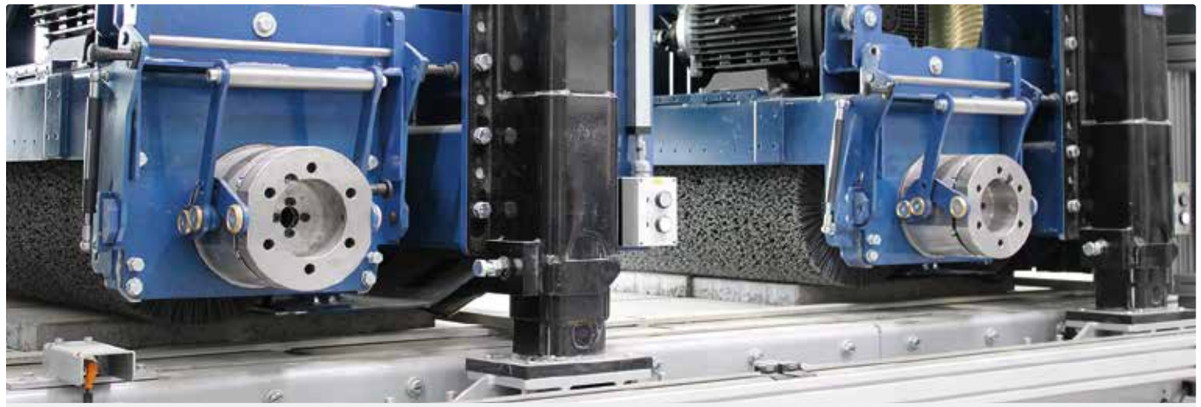
The Shot Blast Machine utilizes turbines to propel steel shot material onto the product surface, revealing the face mix grain and imparting a mature aesthetic. This machine's adaptability shines through its recipe-controlled adjustments, allowing customization of turbine and belt speed, as well as electro-controlled abrasive flow. The special turbines, featuring tool-less blade change, ensure a consistent and homogeneous shot flow for uniformly blasted product surfaces. Multiple turbines extend the functionality, enabling treatment of a broad product range, including a reverse operation for step stones' front and rear side blasting.

+ WHY CHOOSE KBH SHOT BLAST MACHINE

- Adaptable design for diverse recipe-controlled adjustments
- Special turbines with tool-less blade change for homogeneous shot flow
- Multiple turbines for versatile product treatment
- Cost-efficient operations and lowest operational costs
- Different operation width options for varying throughput requirements

+ PRODUCT SAMPLE

>> KBH CURLING SYSTEM



+ QUICK FACTS

- **Surface Enhancement: Achieved through abrasives coated rotatory brushes**
- **Axle System: Equipped with a swiveling axle system for flexible brush movement**
- **Compensation: Deviation of product height is compensated for uniform curling and extended brush life**
- **PLC Control: Special PLC system ensures constant curling intensity with repeated operations**
- **Dust Enclosure: Special enclosure with operator-friendly openings for dust extraction systems**
- **Quick release: Special quick release mounting for the brush to reduce maintenance time**

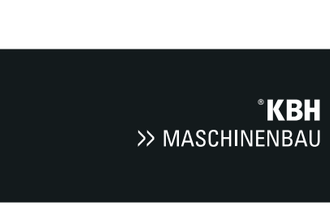
+ WORKING PRINCIPLE

KBH Curling Brush Systems utilize abrasives coated rotatory brushes to achieve an attractive and smooth surface. The swiveling axle system allows brushes to follow the product contour, ensuring a seamless finish. Brushes float on product layers, providing a freely adjustable weight force. Compensation for any deviation in product height leads to uniform curling, significantly extending brush life. The special PLC control system guarantees consistent curling intensity over the whole ware time and with repeated deliveries. Nesting plates ensure reliable layer transportation, and the Dust Enclosure facilitates clean product removal.

+ WHY CHOOSE KBH CURLING SYSTEM

- Single product layer operation for zero brush marks during stoppages (unless an emergency stop is necessary)
- Easy Quality Control (QC) due to single-layer operation
- Compensation for product height deviation extends brush life
- Capability to curl regular pavers but also tapered curbstones
- Minimal space requirements for installation flexibility

+ PRODUCT SAMPLE



>> KBH CAP (COAT APPLICATOR)

+ QUICK FACTS

- **Installation: Stationary machine over the product conveyor**
- **Operation: Comes with own PLC and signal exchange and large, operator-friendly interface for easy recipe settings**
- **Encapsulation: Fully encapsulated system to prevent spray gun clogging**
- **Nozzle Installation: Pressurized drawer for ease of maintenance**
- **Adjustment: Automatic nozzle adjustment (vertically and horizontally) based on product layer configuration**
- **Pressure Control: Individual pressure and pulse/break ratio settings for each spray gun**
- **Operator Features: Filter system, extraction systems, tool-less gun change, and filter change**

+ WORKING PRINCIPLE

The CAP's reliability lies in its precision coating mechanism. Positioned over the product conveyor, it prevents clogging by encapsulating the spray guns, ensuring an uninterrupted application of coating, and sealing materials. The pressurized drawer houses the nozzle bar, allowing for easy maintenance and preventative measures. Automatic adjustments, both vertically and horizontally, are made based on the product layer configuration, all controlled by a fully automatic recipe system. Individual settings for pressure and pulse/break ratio per spray gun provide tailored coating solutions.

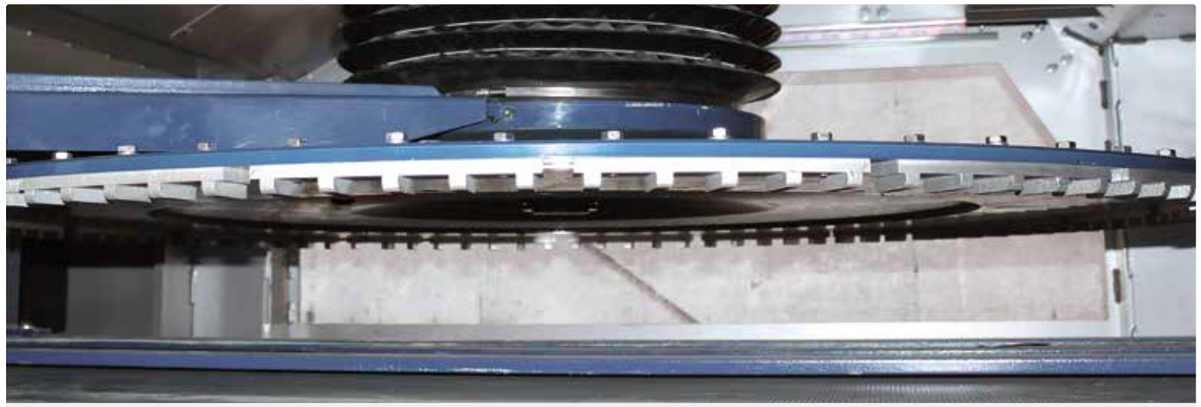
Intermediate spray jet and clean-out are efficiently collected by a shuttling trough, directing them to a storage container. Operator-friendly features such as filter systems, extraction systems, and tool-less gun and filter changes make the CAP a user-centric machine. The large HMI simplifies recipe settings, providing a seamless operational experience. Internet remote service functionality adds a layer of convenience to this state-of-the-art coating applicator.

+ WHY CHOOSE KBH CAP

- Quality equipment designed for the highest demands in product finishing
- Pressurized drawer, individually adjustable spray guns, tool-less maintenance
- Shuttling trough and operator-friendly interface for efficiency and ease of use
- Internet remote service as standard functionality

+ PRODUCT SAMPLE

>> KBH GRINDING AND CALIBRATION SYSTEM



+ QUICK FACTS

- **Processing width: 600 – 1200 mm (24“ to 48“)**
- **Versatility: Suitable for concrete slabs, paving blocks, lightweight and heavy weight concrete elements**
- **Sensor system: Integrated sensors for precise control of grinding intensity**
- **Optional Upgrade: Quick tool change system for ease of tool change**

+ WORKING PRINCIPLE

Grinding creates special surface finishes. The process begins with product back calibration to eliminate deviation of product height. After calibration, the stone layer is rotated backwards to bring up the face side for treatment. A very thin layer is removed in this step to slightly grind or expose the surface aggregate.

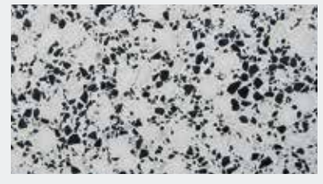
The system uses precisely guided grinding tools. Special sensors allow for very sensitive tool adjust – for each grinding head.

This ensures consistent and repeatable grinding results – regardless of product format or material density. The optional tool quick-change system minimizes setup times and maximizes machine availability.

+ WHY CHOOSE KBH GRINDING AND CALIBRATION SYSTEM

- Precision meets flexibility: Sensor-controlled grinding ensures a perfect finish at all times.
- Ready for any challenge: Whether light or heavy weight concrete elements – our system adapts to your product range, with processing widths of up to 1200 mm (48“)
- Time-saving & efficient: The tool quick-change system boosts your productivity significantly.
- Integration with multi-finishing lines: Seamless connection with other KBH finishing technologies possible.

+ PRODUCT SAMPLE



>> KBH SPLITTER

+ QUICK FACTS

- **Imitation Goal: Create a "broken" surface simulating natural stone**
- **Knife Variety: Special split knives, including straight and Y-splits**
- **Segmental Blades: Compensate for deviation in product height**
- **Quick Blade Change: Efficient solutions for the shortest change-over time**
- **Hydraulics: High-capacity hydraulics and pressure accumulators for controlled splitting patterns and fast cycles with up to 120 tons (132 UST) of split force**
- **Operational Width: Ranges from 24" to 48"**

+ WORKING PRINCIPLE

KBH Split Lines are designed to achieve precision in splitting concrete products, providing a natural and authentic appearance like split natural stone. The machines offer a range of special split knives, including straight and Y-splits, catering to the diverse needs of architects and engineers. Segmental blades compensate for any deviation in product height, while special solutions prevent clogging in the assembly of segmental bottom knives. Quick blade change solutions facilitate rapid adaptation to market demands, ensuring efficiency and versatility.

+ WHY CHOOSE KBH SPLITTERS

- Solid design for long-term operation
- Accurate split patterns with the lowest reject rate
- Fast and efficient blade changeovers to meet dynamic market demands

+ PRODUCT SAMPLE

>> KBH AGING MACHINE FOR WALL PRODUCTS - SNAKE TUMBLER

+ QUICK FACTS

- **Installation: installed IN-LINE and OFF-LINE ideally with a Split Line**
- **Innovation: Replaces conventional tumbling drums for labor savings and reduced cull rates**
- **Cubing Advantage: Adjacent split faces remain together, accommodating Siamese split products based on tier configuration**
- **Product Range: Wide range including straight edge or wedged products**
- **Space Requirements: Very little space required**
- **Throughput: High throughput under lowest operational costs**
- **Dust Removal: Ensures clean product bundles and ease of cubing**

+ WORKING PRINCIPLE

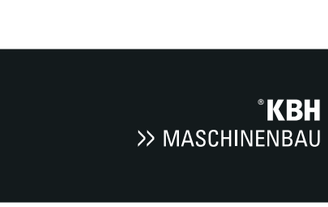
Installed IN-LINE or OFF-LINE ideally with a Split Line for SRW operation, the Aging Machine for Wall Product employs a vibration system with no actively driven tools, reducing operational costs. Dust and debris are efficiently removed post-aging, ensuring a clean product bundle and ease of cubing. One of the unique features is its ability to maintain adjacent split faces together, accommodating Siamese split products based on tier configuration.

This system is designed to meet market demands, offering versatility in product range while requiring minimal space and delivering high throughput at the lowest operational costs.

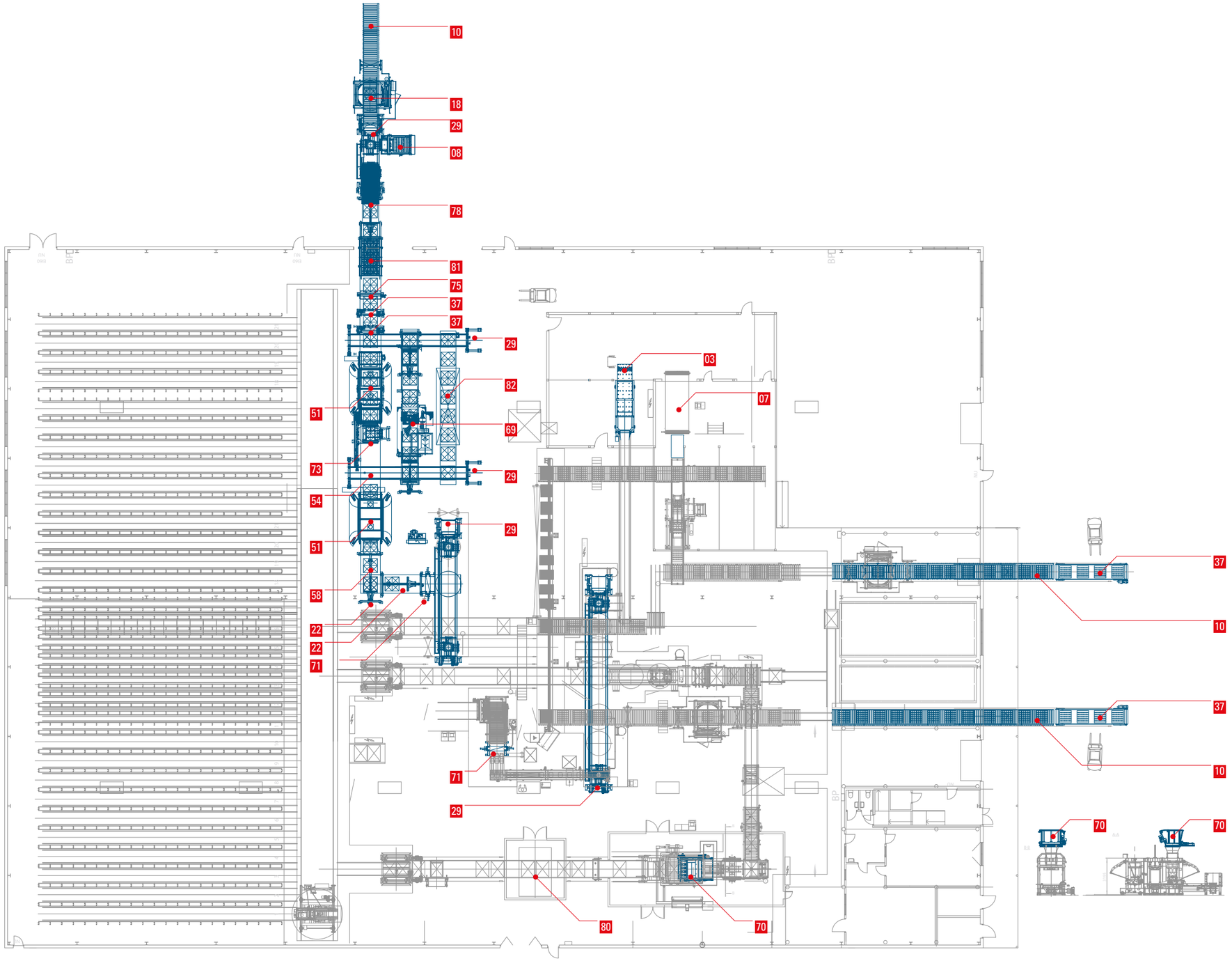
+ WHY CHOOSE KBH AGING MACHINE FOR WALL PRODUCT (RW AND SRW) SNAKE / COBRA

- Reduces cull rates and provides labor savings
- Ideal for SRW operation, offering seamless integration with Split Lines
- Vibration system with no actively driven tools for cost efficiency
- Unique ability to keep adjacent split faces together
- Versatile product range with high throughput under minimal operational costs

+ PRODUCT SAMPLE



>> KBH MACHINERY AND SYSTEMS INTEGRATED IN A PLANT LAYOUT



Positions

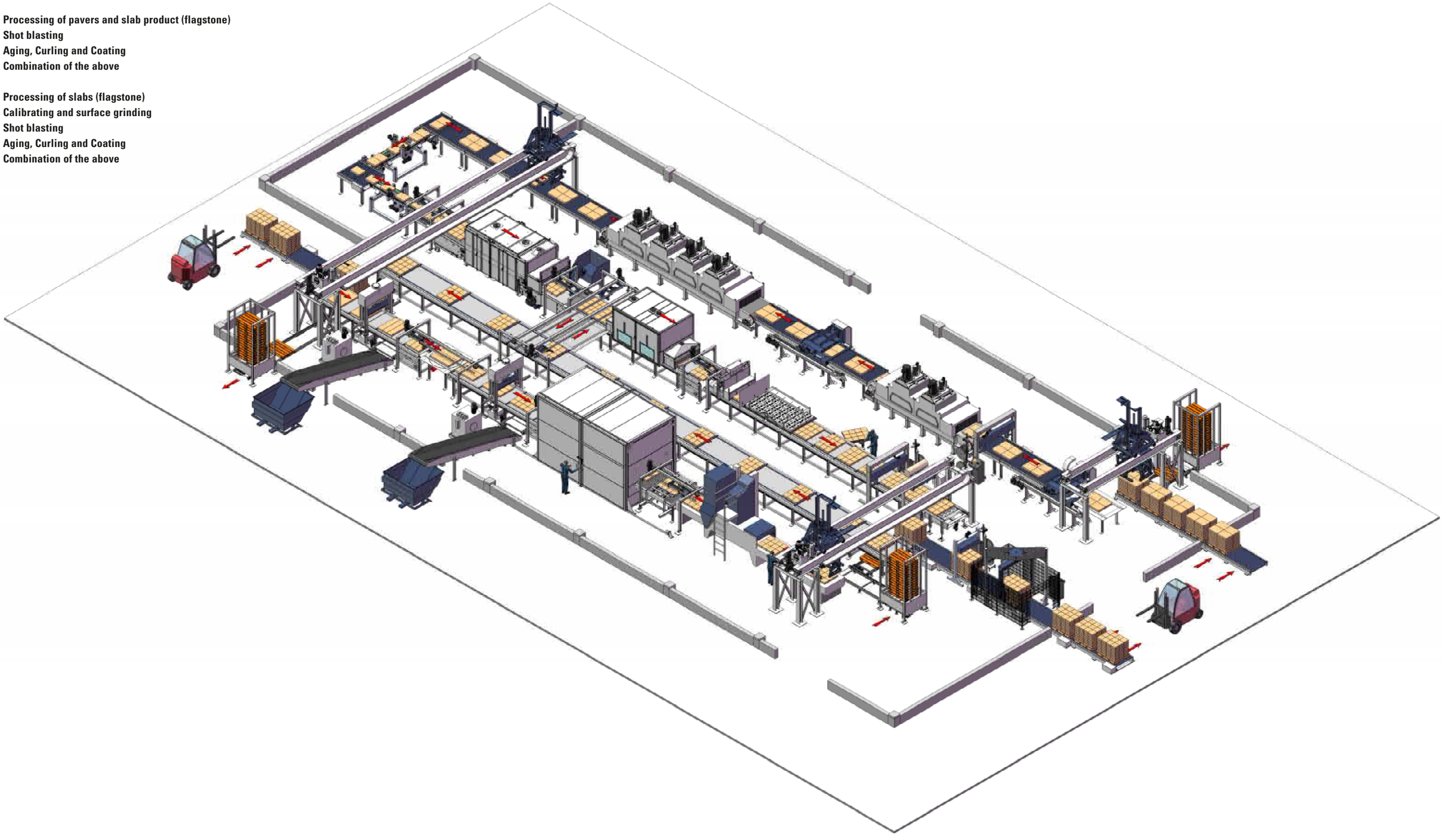
03 Drum
07 Sorting table
08 Pallet magazin
10 Roller conveyor
18 Foil wrapper
22 Overhead pusher
29 Cuber
37 Belt conveyor
43 Curling brush
51 Dancing Weight System
54 Transfer conveyor
56 Flip unit
58 chain conveyor with turn unit
69 Shot Blaster
70 Colorist
71 Splitter
73 side pusher
75 Spraying System CAP
78 Mesh dispenser
80 Washing machine
81 IR radiator
82 Grinding System

>> KBH ALL PURPOSE PROCESSING LINE (3D LAYOUT)

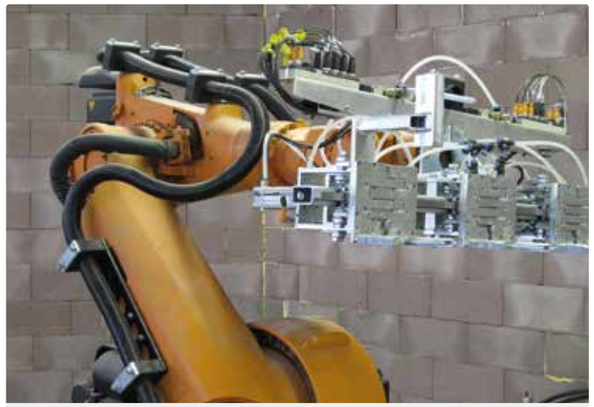
- Splitting and distressing of split product

Processing of pavers and slab product (flagstone)
- Shot blasting
- Aging, Curling and Coating
- Combination of the above

Processing of slabs (flagstone)
- Calibrating and surface grinding
- Shot blasting
- Aging, Curling and Coating
- Combination of the above



>> KBH ROBOTIC SOLUTIONS



+ OUR CUSTOM ROBOTIC SOLUTIONS

KBH is capable of developing and delivering custom robotic solutions for any concrete production challenge. Whether your project requires specialized handling, pick-and-place operations, or complex, fully automated tasks, KBH can provide the right solution.

With a history of successful implementations, from simple material handling to intricate automated systems, we bring the flexibility and expertise needed for your unique requirements.

+ WHY CHOOSE KBH FOR YOUR ROBOTIC PROJECTS

- Flexible Design: Tailored solutions for handling and automation tasks
- Wide Range: Supports elements from 3 kg to 1000 kg
- Custom Automation: Expertise in both simple and complex robotic systems
- Industry Support: Compatible with all major robot suppliers, ensuring seamless integration
- Project Variety: Experience with various applications, from simple jobs to fully automated production tasks

>> KBH HANDLING SOLUTIONS

+ CUSTOMIZED SOLUTIONS

KBH provides a wide range of handling equipment, including automatic cubers, semi-automatic cubers, manual cubers, pushers, overhead pushers, side pushers, and robots. Every system is built according to the project's specific requirements and the customer's preferences.

+ WHY CHOOSE KBH HANDLING SOLUTIONS

- Tailored Design: Customizable handling equipment built to meet individual project needs
- Versatility: From simple manual cubers to advanced robotic systems
- Efficiency: Noise-free, maintenance-free technology for smooth operation
- Flexibility: Modular systems that integrate easily into existing production lines

>> KBH COLORIST

+ QUICK FACTS

- **Types: FACE MIX, BASE MIX**
- **Installation: Tailored to the Block Machine (Replaces machine hopper extension)**
- **Compatibility: Ideal for new installations and retrofits to existing plant configurations**
- **Operation: Comes with own PLC and signal exchange to paver block machine**
- **Replenishment Mode: Automatic initiation after releasing the colored concretes**
- **Synchronization: Maintains continuous machine operation through real-time monitoring**
- **Advantages: Low operational costs, ease of maintenance**

+ WORKING PRINCIPLE

COLORIST operates with precision and efficiency at its core. Differently pigmented concretes are layered into the main compartment, ensuring a controlled and consistent blending process. Upon completion, the system releases these concretes to the machine hopper using an advanced opener/shutter mechanism and a bottom pull plate. These two units allow small concrete avalanches dropping down in the main concrete silo.

This meticulous process prevents the dominance of a single color in the initial pallet cycles. As the machine consumes concrete, COLORIST seamlessly enters replenishment mode, ready to receive a fresh supply of pigmented concretes. This continuous cycle of blending and replenishment ensures uninterrupted paver machine operation, making COLORIST an essential component for new installations and retrofits alike.g.

+ WHY CHOOSE KBH COLORIST

- Precision blending for flawless concrete appearance
- Immediate production of consistently blended concretes
- Tailored to specific machine and concrete supply specifications
- Continuous operation through real-time monitoring and replenishment mode
- Patented by KBH, successfully installed worldwide
- Low operational costs and ease of maintenance

+ PRODUCT SAMPLE

>> KBH SURFACE WASHING MACHINE

+ QUICK FACTS

- **Installation: Positioned over the wet side pallet conveyor**
- **Compatibility: Ideal for new installations and retrofits to existing plant configurations**
- **Operation: Comes with own PLC and signal exchange to paver block machine**
- **Efficiency: Operates over two production boards at once – Single board operation upon request**
- **Nozzle Bars: Multiple and adjustable oscillating bars for even water spray with air blowers for removal of residual wash water to prevent water drips**
- **Design: Solid and robust KBH design for durability**
- **Environmental Focus: Efficient use of fresh water for environmental conservation**

+ WORKING PRINCIPLE

The SURFACE WASHING MACHINE operates with precision and effectiveness. Regardless of the pallet conveyor's make, production pallets are indexed in the machine's operation area. A lifting station tilts two production pallets, exposing the product layer to oscillating nozzle bars. Wash water is sprayed onto the product surface, revealing the face mix grain. Upon request single board operation is available.

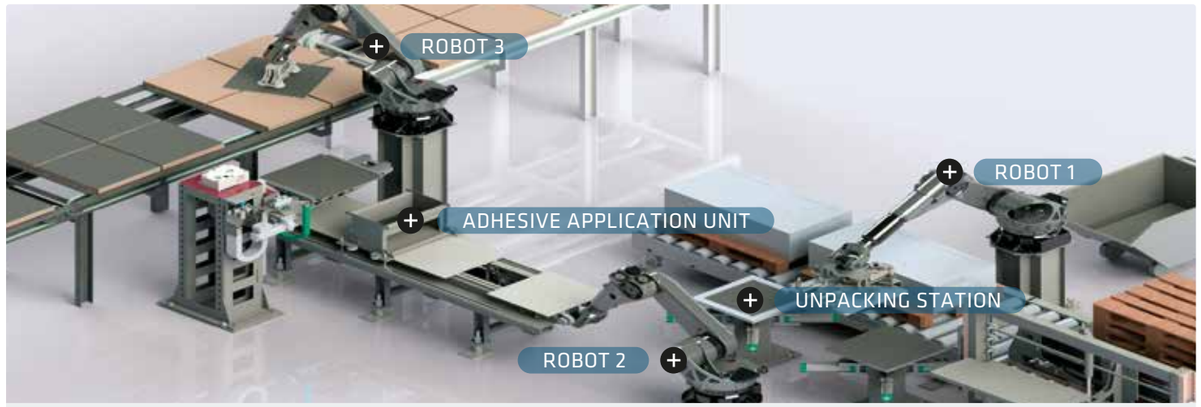
The adjustable nozzle clearance to the product layer ensures an evenly distributed water spray across the product layer. Following washing, an integrated air blower system removes residual wash water to prevent stains in the curing rack system. The machine's movements are electrically VFD controlled, reflecting KBH's commitment to precision and efficiency. For retrofit solutions, KBH offers a system designed for integration into existing plant solutions, ensuring adaptability to different configurations.

+ WHY CHOOSE KBH SURFACE WASHING MACHINE

- Washing of two production pallets in one run
- With a focus on efficient water use, KBH contributes to environmental conservation
- Versatile for new installations or retrofits, KBH machines suit various plant configurations
- Integrated air blower, adjustable nozzle clearance, and VFD-controlled movements showcase KBH's commitment to innovation

+ PRODUCT SAMPLE

>> KBH CERAMIC CONNECT



+ QUICK FACTS

- **Innovation: Bonds thin ceramic slabs to durable concrete bases for cost efficiency**
- **Compatibility: Suitable for greenfield sites and retrofits in existing plant configurations**
- **Production: Utilizes standard paver machines to produce concrete base**
- **Bonding Process: Takes place on the wet side using a special adhesive developed in collaboration with KBH**
- **Handling Options: Available in semi-automatic and fully automatic versions**
- **Cost Efficiency: Provides a 30% - 40% cost saving compared to solid ceramic slabs**

+ WORKING PRINCIPLE

The KBH CERAMIC CONNECT system operates by transporting a ceramic slab face down through an adhesive application unit, where a special glue is applied. The slab is then rotated to present the adhesive side up for bonding with the concrete base. A robot picks up the prepared slab and places it onto the fresh concrete base. The innovative bonding technique developed by KBH activates the adhesive, ensuring a strong bond. The bonded product then moves into the curing chamber, where the bonding process completes without time constraints, allowing for a more effective adhesion.

+ WHY CHOOSE KBH CERAMIC CONNECT

- Cost-Effective: Significantly reduces costs by combining ceramics with concrete bases, saving 30% - 40% compared to full ceramic slabs.
- Versatile Installation: Ideal for both new plant installations and retrofits, making it a flexible solution for various production environments.
- Innovative Technology: Utilizes a specialized adhesive and bonding process developed by KBH to ensure strong and durable products.
- Automated Options: Offers both semi-automatic and fully automatic handling to suit different production needs and capacities.

+ PRODUCT SAMPLE

>> KBH PRINTING SYSTEM WET SIDE

+ QUICK FACTS

- **Innovation: Prints directly on the wet side, eliminating the need for multiple surface treatments**
- **Compatibility: Suitable for integration into existing plant configurations and greenfield sites**
- **Technology: Uses state-of-the-art printers with UV-resistant inorganic ink for deeper penetration and durability**
- **Process Efficiency: Simplifies production with a single coating application on the dry side**
- **Cost-Effective: Reduces operational costs by minimizing the need for additional drying solutions**

+ WORKING PRINCIPLE

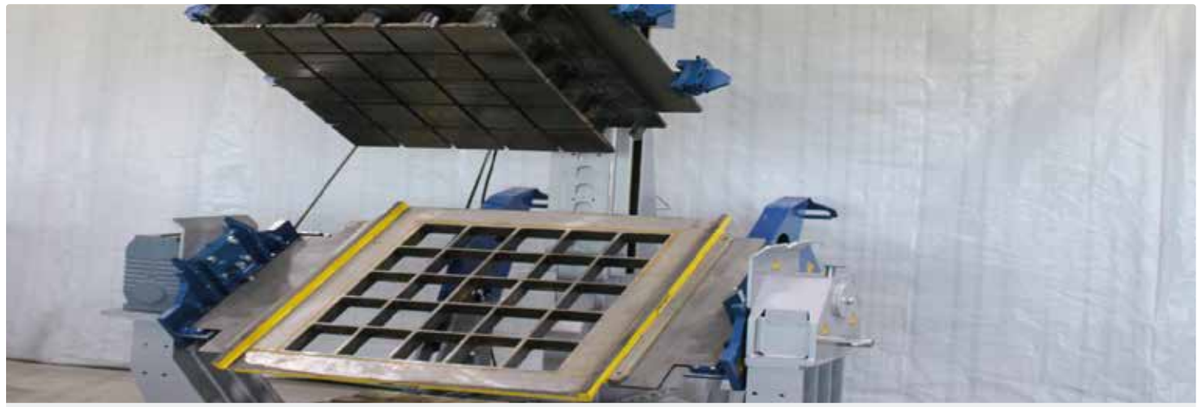
The KBH PRINTING SYSTEM WET SIDE optimizes the concrete printing process by shifting it to the wet side. Products are produced using a paver machine, and printing is performed immediately after the cement paste is neutralized. The use of UV-resistant inorganic ink allows for deeper penetration into the concrete surface, resulting in a high-quality finish. The printed products then undergo regular curing in a drying chamber, followed by a single surface protection coating on the dry side. This streamlined process reduces complexity, enhances flexibility in product design, and lowers costs.

+ WHY CHOOSE KBH PRINTING SYSTEM WET SIDE

- Simplified Production: Moves printing to the wet side, eliminating the need for complex surface treatments and reducing production steps.
- Enhanced Quality: Deeper ink penetration and high-quality finish due to UV-resistant inorganic ink specifically developed for wet side applications.
- Cost Savings: Significantly reduces costs associated with drying and surface treatments, offering a more economical solution.
- Flexible Integration: Suitable for new installations and retrofits, allowing easy integration into existing production lines.
- Innovative Technology: Incorporates advanced printing technology, ensuring a cutting-edge solution for concrete printing.

+ PRODUCT SAMPLE

>> KBH MOLD INSPECTION AND REPAIR STATION (MIRS)



+ QUICK FACTS

- **Innovation: Replaces traditional mold stripping methods for enhanced safety and mold protection resulting in increased plant efficiency**
- **Controlled Operation: Mold Head and Mold Bottom can be tilted / rotated for inspection and cleaning**
- **Safety: Mitigates safety hazards associated with forklift trucks, chains, and ropes**
- **Versatility: Suitable for a diverse range of molds, addressing modern complexity and lead time challenges**

+ WORKING PRINCIPLE

The Mold Jig from KBH transforms mold maintenance by providing a controlled mechanism for pulling and inserting the mold head. With the ability to tilt the Mold Head and rotate the Mold Bottom, the tool facilitates thorough inspection and cleaning, ensuring the longevity of molds. By replacing traditional methods that pose safety risks and potential mold damage, the Mold Jig contributes to the increased efficiency of landscape and masonry plants and simplifies the job for plant personnel.

+ WHY CHOOSE KBH MOLD JIG

- Enhanced safety in mold stripping, inspection, and maintenance
- Controlled pulling and insertion mechanism for mold heads
- Versatility to accommodate diverse molds
- Prolongs mold lifetime, contributing to increased plant efficiency
- Simplifies the job for plant personnel

>> KBH MOLD CHANGER

+ QUICK FACTS

- **Design: Compact and movable design ensures accessibility**
- **Compatibility: Suitable for new installations and retrofitting existing paver production lines**
- **Efficiency: Reduces mold change time to less than 2 minutes**
- **Installation: Integrated safety and signal exchange for easy integration**
- **Versatility: Compatible with all mold types**

+ WORKING PRINCIPLE

The KBH MOLD CHANGER operates independently from the existing machine and is equipped with two platforms. Before the mold change, the new mold can be prepared and brought into position.

The block machine pulls out the existing mold, and the telescopic arm of the KBH MOLD CHANGER takes the mold from the machine and places it on the second table. The table then moves, positioning the new mold underneath the clamp to bring it back into the machine. The machine pushes the new mold back into position, allowing production to resume – all in less than 2 minutes.

+ WHY CHOOSE KBH MOLD CHANGER

- Increased Flexibility: Allows for quick adjustments to production, accommodating real stock flow and niche products
- Time Efficiency: Significantly reduces downtime with mold changes under 2 minutes
- Easy Integration: Compact, modular design with plug-and-play controls simplifies installation without hindering machine access
- Cost-Effective: Enables economical production of small-volume products
- Universal Compatibility: Works with all mold types, enhancing versatility in production

>> KBH TOP SHEET DISPENSER

+ QUICK FACTS

- **Protection Method: Utilizes plastic sheet material, foam, or mesh in different thicknesses**
- **Operation: Collects necessary sheet size from a coil, cuts to length, and places it on the product layer**
- **Versatility: Accommodates various sheet materials to suit product requirements**
- **Efficiency: Engineered to outpace cubing actions for optimal product quality maintenance**
- **Precision: Delicately places sheets on product layers to prevent scratching**
- **Applications: Ideal for safeguarding high-quality products in secondary processing lines**

+ WORKING PRINCIPLE

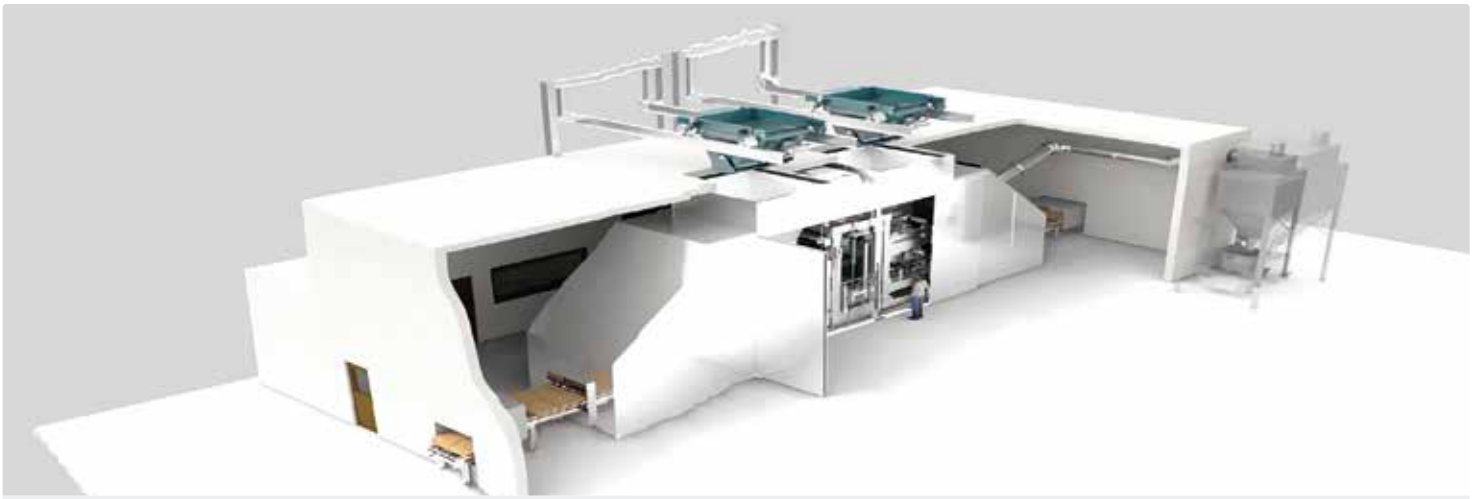
The KBH Top Sheet Dispenser operates with precision as it safeguards high-quality products during transportation. As the product layer moves through the operation area, the machine adeptly collects the required sheet size from a coil, precisely cuts it to length, and strategically places it on the product layer.

This proactive approach occurs before cubing the next layer above, ensuring that your valuable products are shielded from potential scratches. Designed to outpace cubing actions, the system maintains the highest product quality throughout cube transportation and handling.

+ WHY CHOOSE KBH TOP SHEET DISPENSER

- Precision in safeguarding high-quality products
- Versatility to accommodate a wide range of layer separation material
- Engineered for optimal efficiency, outpacing cubing actions
- Delicate placement to prevent scratching during transportation
- Application-specific design for secondary processing lines

>> KBH MULTI PURPOSE ENCLOSURE



+ QUICK FACTS

- **Design: Close-cut enclosure with plastic web or noise reduction panels**
- **Compatibility: Suitable for retrofitting existing paver production lines**
- **Efficiency: Reduces energy costs, noise, and dust pollution**
- **Safety: Eliminates the need for additional safety fencing**
- **Monitoring: Equipped with a camera system for visual accessibility and monitoring**
- **Ventilation: Includes an exhaust system to minimize fine dust**
- **ROI: Expected return on investment in 5-8 years due to electricity savings**

+ WORKING PRINCIPLE

The KBH MULTI PURPOSE ENCLOSURE works by enclosing existing paver production lines with a tightly fitted structure using plastic web panels or optional noise reduction panels. This design reduces noise and dust while lowering energy costs associated with exhaust systems. The enclosure is equipped with an exhaust ventilation system specifically designed to reduce fine dust pollution around the board machine area. The camera system provides visual access to critical machine components, enhancing safety and operational efficiency without needing additional fencing. The enclosure's modular design allows for easy installation and adaptation to various production environments.

+ WHY CHOOSE KBH MULTI PURPOSE ENCLOSURE

- Comprehensive Safety: Provides a safer working environment by reducing noise and dust, and eliminates the need for extra safety fencing.
- Cost-Efficiency: Significantly reduces energy costs and provides a quick return on investment.
- Versatile Application: Can be retrofitted to existing production lines, accommodating various plant configurations.
- Enhanced Monitoring: Integrated camera system allows for real-time visual access and monitoring of machine components, improving maintenance and operational efficiency.
- Tailored Design: Customizable to fit specific local circumstances, ensuring optimal performance and efficiency.