

SR Schindler, 93057 Regensburg, Germany

Alserkal and Assarain Expands Finishing Capabilities in the UAE

For more than fifteen years, Alserkal and Assarain Concrete Products LLC has relied on SR Schindler solutions to expand and modernize its finishing operations. The most recent upgrade, ordered in September 2024, continues this partnership with the extension of an existing line – this time under exceptionally tight spatial constraints.

Inside a compact 20 × 28-meter production hall, SR Schindler engineered and installed a highly flexible U-shaped finishing line that seamlessly integrates with Alserkal’s existing shot-blasting system. The configuration supports a wide product spectrum – from pavers and slabs to curbstones – in varying dimensions and thicknesses, while accommodating the site’s diverse loading and unloading requirements.

Smart Material Handling for Diverse Products

Product packages arrive strapped and pallet-free: paving stones stacked in layers, slabs delivered upright. To manage this complexity, SR Schindler implemented a dual-rail transport system. The primary rail guides incoming product packages to the unloading position, while a second rail acts as a buffer to maintain continuous workflow.

A versatile robot equipped with three interchangeable tools – a vacuum plate for upright slabs, a two-sided clamp for curbstones, and a four-sided clamp for paving layers – ensures precise, product-specific handling. Upright slab packages are stabilized by a tilting mechanism that lifts and slightly tilts the packages before de-strapping, preventing them from collapsing when the bands are removed.

Curling and Coating: Efficiency Through Integration

After shotblasting and visual inspection, a second layer pusher transfers the products to the new SR Schindler curling machine, installed at a right angle to both upstream and downstream processes. Two 90-degree turntables position each layer correctly, ensuring smooth transitions through the line.

The curling machine itself features:

- Two processing tunnels with double brushing rollers
- Integrated dust extraction via a high capacity cartridge filter
- A high performance rotating air nozzle cleaning system for dust free surfaces



Transfer carriage system with robot loading system

Space remains for a third tunnel should Alserkal decide to expand capacity in the future.

High-Quality Coating with Minimal Overspray

The downstream coating line is engineered for premium surface results and low maintenance. It supports both water-based and acrylic-based products. Primer and sealer stations include:

- Automatic cleaning systems
- Pneumatic collection trays for overspray
- A sixth spray nozzle specifically targeting the bevels of curbstones

Infrared heating modules manage both pre-heating and drying, while a powerful extraction system removes spray mist from the hall. Before final curing, another inspection point allows operators to replace defective pieces to maintain batch quality.



Loader robot placing products onto the shotblasting conveyor belt

Automated Output Mirroring the Input

At the end of the line, a second robot – identical in design to the inlet robot – restacks finished products on a transport cart for forklift removal. Packages are manually strapped and prepared in the same format as they were delivered, creating a symmetrical input-to-output flow. A secondary rail system

and tilting mechanism further optimize throughput and stability during discharge.

User-Friendly Control and Robust Infrastructure

The entire system is operated via two fixed panels and one mobile panel, enabling flexible access for operators. Control

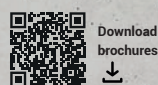


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Existing shotblasting machine - provided on the construction side and integrated into the facility



SR-Curling
CA-1200-4



Transfer from curling to coating line

is centralized through the curling machine, with communication to the existing shotblasting system handled via signal exchange. All electrical cabinets are housed outside the hall in a dedicated container, maximizing production space and simplifying maintenance.

Designed for Versatility and Built for the Future

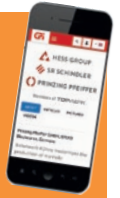
This installation illustrates SR Schindler’s ability to deliver high-performance finishing technology even under spatial and operational constraints. The expanded line provides Alserkal with:

- Outstanding flexibility in product formats
- Seamless integration into existing equipment
- Efficient, ergonomic workflows
- High repeatability and consistent surface quality

With this upgrade, Alserkal strengthens its position as a premium producer in the Middle Eastern concrete products market – while the system’s modularity ensures scalability for years to come.



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FURTHER INFORMATION



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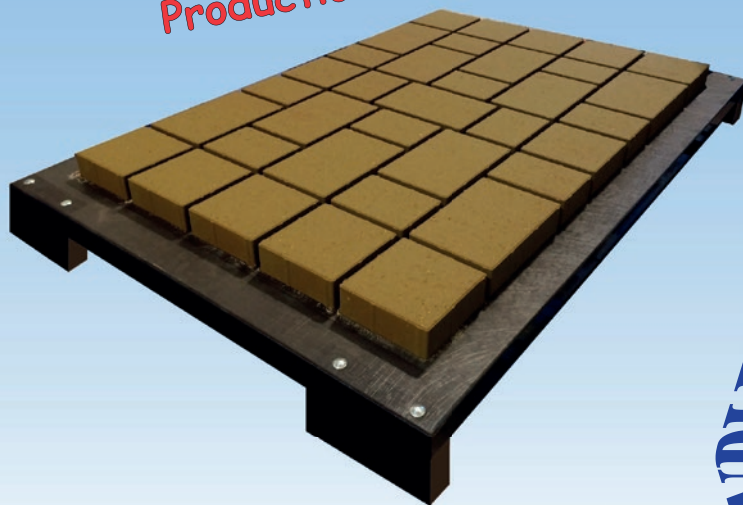


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