Trommel frames and screen media
Efficient, modular, easy-to-maintain
Market-leading design backed by superior support

Designed to meet the needs of the most productive mines around the globe, FLSmidth has fully engineered a new range of trommel frames and screen media for SAG mills, ball mills and scrubbers. As your partner in productivity, we combine our in-depth knowledge of equipment and applications, providing a comprehensive approach to improve your processes.

Key benefits

- **Efficient:** Improve screening efficiency and wear rates with a customised trommel configuration. We match feed conditions and your other application parameters to deliver the optimum trommel screen for your plant.

- **Easy and safe to handle:** Modular screen media in standardised sizes is lightweight at less than 25 Kg (55 lbs) each.

- **Easy to install, remove and maintain:** Our unique trommel frame design utilises friction-grip clip rails for installing the modular panels, as opposed to bolts or pins, reducing your downtime for screen maintenance.
Trommel frames and screen media

Increase your milling productivity with our strong and low-mass modular design.

Advanced trommel design
All mines want to reduce unexpected events and downtime. With our trommel frames, you can rest assured that your equipment is of the highest-quality – engineered to be strong and lightweight, designed to increase your uptime and provide safe handling.

We manufacture our trommel frames and screen media in FLSmidth fabrication centres around the globe, according to internationally accepted engineering standards and procedures.

Strong and durable
To extend and maximise your asset life, we verify the structural design of our trommel frames through finite element analysis (FEA). This guarantees the engineering behind all components. Complete design verification by FEA calculation includes static and fatigue/strength assessment, as well as strength assessment on the bolts.

We stress relieve your trommel frame after fabrication and before machining. We also apply protective lining on each frame in the areas that are likely to be exposed to erosive and abrasive wear.

Modular screening media
We have designed our modular screen media to be highly efficient in material screening, keeping productivity and ease of handling in mind. Available in rubber and polyurethane material, our modular screening media is suitable for all mineral-sizing applications. It is designed to optimise operational life and is easy to maintain.

To ensure rapid delivery and streamline inventory management, our screening media is available in two standard sizes and in a number of thickness combinations. Our modular screen media panel sizes are 657 mm x 400 mm (25.86-in x 15.75-in) and 726 mm x 400 mm (26.75-in x 15.78-in). These standard dimensions allow us to supply your media from any FLSmidth manufacturing centre, and guarantee your media will conform to our unparalleled quality requirements and material specifications, while providing equal fabrication reproducibility.

Trommel frame

Polyurethane

Rubber, shown with reduced thickness
Exceptional features and accessories

Improve your performance and drive down your costs with market-leading features.

Screen panel features
- Full range of panel thicknesses, in polyurethane or rubber formulations, built to suit high-top-size-impact or high-abrasion situations, and tailored to any ore type
- Optional riders bars for greater wear resistance
- Optional modular spirals manufactured in a customisable helix angle for your application, and configured for your specific “flow-advance” or “flow-retard” requirements
- Optional lifters and deflectors, to aid in material dispersion and consistency of the trommel flow
- Circumferential dams to ensure better breakdown of deleterious material
  - Separate section
  - Designed using discrete element modeling (DEM)

Screening media securing system
- Clip-on/clip-out design securely fixes screen media panels to structure rails
- No special tools or installation components required for installation or maintenance
- System reduces downtime for panel removal and replacement

Optional high-pressure spray washing system
Custom-designed and manufactured to deliver efficient washing and recovery of fines that adhere to oversize material. These fines are undesirable, as they can interfere and affect downstream processes, such as pebble crushing.
Advanced analysis

Our experienced engineers are committed to finding the best solutions. We examine every aspect of your screening process to help ensure efficient pulp flow characteristics, proper separation, and maximum equipment uptime.

**Pulp flow**
We use our state-of-the art discrete element modeling (DEM) software to simulate your trommel performance. We then model, predict, optimise and enhance your assets for the highest recoveries and efficiencies possible.

**Screening media configuration**
Using DEM software, we analyse your trommel’s material distribution in order to optimise your screening media configuration.

**Optional deflectors**
Installed between the mill discharge trunnion and the trommel, deflectors provide a homogenous and controlled feed of the mill discharge pulp onto the trommel screening surface. This allows maximum use of the available surface area. The deflectors assist in improving pulp distribution thereby improving screening efficiency. Deflectors also contribute to improved screening media life.
We approach your project not as suppliers, but as partners invested in your success, ready to provide the equipment, software, and advisory services to help your plant achieve its full potential. With FLSmidth trommel frames and screen media, not only do you receive all of the benefits that come from working with the original equipment manufacturer (OEM), you also have the backing of a global market-leading company that is committed to your goals.

Our solutions are based on the process and operational know-how that we’ve gained from designing and supplying minerals plants around the globe, and on our continued focus toward driving innovation in milling. We look forward to building you the most effective, efficient and reliable trommel available, and providing our expert personnel and service offerings for a complete solution that is customised just for you.
Optimise your milling operations

Our milling experts are ready to help.

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Learn from our experts

Subscribe to our Discover Mining magazine on www.flsmidth.com

Learn more about our milling solutions

www.flsmidth.com
Bringing better solutions to light

in the cement and mining industries

The future is full of possibilities and you are leading the way. But it’s never a straight journey and it’s easy to lose sight of true potential. With an ally by your side, who shares your ambitions and who sees your world from different angles, we will find the right way together.

For more than 135 years, we have challenged conventions and explored opportunities. Across more than 50 countries, we are 13,000 employees who combine our unique process-knowledge on projects, products and services to drive success. We develop the most advanced technology in our industries and offer market-leading product and service ranges.

Rooted in Danish values, we activate our knowledge and experience to navigate your complexity and bring better solutions to light. So no matter where in the world you are, we are here to help you discover new ground and achieve sustainable productivity enhancement.

We are the market-leading supplier of engineering, equipment and service solutions to customers in the global mining and cement industries.

We discover potential.