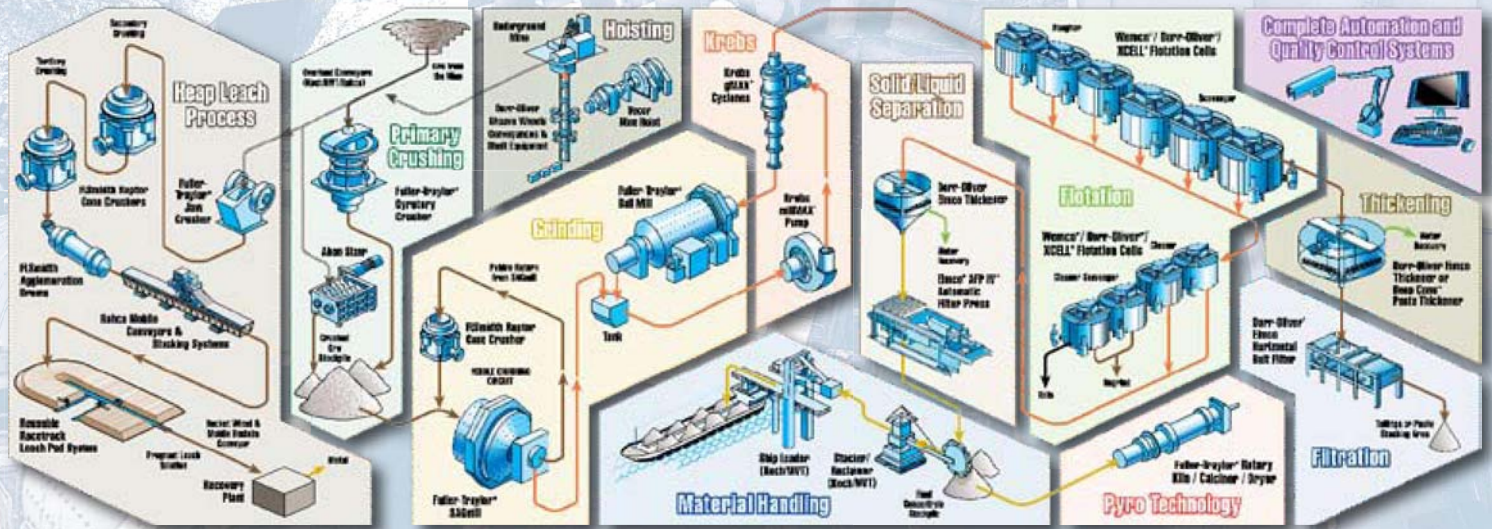


FLSmidth Minerals One Source, One Partner



1 One Source
One Partner

As a single-source supplier, we integrate testing, design engineering, fabrication, and services to ensure customized total packages. We provide a complete range of products for the minerals processing industries.

FLSMIDTH
MINERALS

FLSMIDTH MINERALS

FLSmidth Minerals is your One Source for the world's largest installed base of original equipment, enhanced products, technologies, and services unmatched in the mining and minerals processing industries. FLSmidth Minerals offers a broad range of equipment and processes including: testing, design, engineering, crushing, grinding, classifying, flotation, thickening and clarifying, vacuum and pressure filtration, pyroprocessing, material handling, slurry handling, automation, along with OEM quality replacement parts, modernization services and other after-sale services.

To successfully compete in today's challenging world economy, companies often require innovative solutions to make their plant operating systems function at peak efficiency. Utilizing the latest in equipment technology, resources, and materials, we deliver the optimum design, equipment, and process support needed. When you select FLSmidth Minerals as your partner, you also bring this solid foundation and support to your business.



Our Global Leading Brands

FLSmidth ABON - Commencing operations in the 1920's, ABON manufactures feeding, sizing, crushing and screening equipment.

FLSmidth Buffalo - a world class supplier of feeding and crushing equipment for mining and general industries since 1975.

Dawson Metallurgical Laboratories has provided metallurgical testing for ore amenability, process development, flowsheet layout and plant design since the 1930's. The ore testing laboratory and facilities has expertise in precious metals, base metals and industrial minerals.

FLSmidth Dorr-Oliver EIMCO - with over 100 years of technical innovation, Dorr-Oliver and EIMCO have long been major pioneers and leaders in liquid/solid separation solutions including product offerings from WEMCO, Shriver and more recently, Pneumapress Filters and Dawson labs and testing.

Fuller-Traylor/FFE - once separate brands dating back to 1903, Fuller-Traylor mills, crushers and pumps have a reputation for ruggedness and reliability. From these core products and acquisitions, the company has grown to be a leader in engineering, manufacturing and design.

FLSmidth Excel - offers a complete line of high performance cone crushers including the Raptor® Cone Crusher. These well-designed, robust and durable machines offer outstanding productivity.

FLSmidth KREBS - the world's leading provider of hydrocyclone separation and severe-duty slurry pumping solutions and has been serving process industries since 1952. Krebs also supplies Technequip Valves.

FLSmidth Material Handling – Koch, MVT, RAHCO, and Conveyor Engineering combine to provide a broad range of material handling equipment and systems for the mining, aggregate, and bulk solids industries. We design, manufacture, and service bulk handling systems including mobile conveyors, radial stackers, portable conveyors, fixed/overland conveyors, and at-the-face mining conveyors, as well as supplying coke oven plant technology, rolling mill systems, and steel construction for hydraulic engineering.

FLSmidth Möller - Established in 1934, Möller specializes in the design, engineering, procurement, erection, and commissioning of pneumatic conveying systems and silos equipped with pneumatic facilities.

FLSmidth VECOR - The Vecor arm of the company has its origins in the late 1940s and brings a leading position in the field of mine hoist technology.

FLSmidth Automation - Among the world's most experienced corporations in the development and installation of automation and quality control systems and total electrifications projects for the cement and minerals industries.



CRUSHING

FLSmidth Minerals has over a century of experience in crushing and is known as a world-class supplier of crushing equipment for the mining, cement and aggregate industries. This expertise is supported by more than 1,700 installed crushers, feeder-breakers and sizers.

All of our crushing and sizing equipment is available for surface or underground installation, for stationary or mobile applications, and for climatic conditions that range from tropical to arctic.



Crushing Products

- Gyrotory Crushers
- Cone Crushers
- Low Speed Sizers
- Roll Crushers
- Jaw Crushers
- Feeder-Breakers
- Hammermills
- Vertical Shaft Impactors
- Plants & Systems
- Crusher Gears

GRINDING

FLSmidth Minerals is your One Source for grinding products and systems. Since 1902, we have supplied over 2,500 mills, and many of the largest plants operating today use our world-renowned SAG and ball mills, both gearless and gear driven, and in some of the most extreme environments.

Our understanding of the mining, industrial minerals, and power industries has resulted in a complete line of grinding mills and systems for wet and dry processing of metallic and non-metallic materials.



Grinding Products

- Ball Mills
- SAG/ AG Mills
- Rod Mills
- Mill Gears
- Limestone Preparation Systems
- Mill Performance Enhancements

CLASSIFICATION

FLSmidth Minerals manufactures durable and flexible classifying and degritting equipment to settle, dewater, concentrate, remove and recover solids. From advanced Krebs® gMAX™ series hydrocyclones

to heavy media separation systems, we deliver cutting-edge solid-particle recovery and classification technology backed by the powerful and reliable brand names of Krebs®, WEMCO®, Dorr-Oliver®, EIMCO®, and Technequip®.

Classification Products

- Hydrocyclones for a variety of applications
- Screw & Rake Classifiers
- Multiphase Desanders
- Solids Handling Systems
- MonoSizers & HydroSizers
- HMS Drums & Cyclones
- Wemco Remer Jigs



FILTRATION

Filtration Products

Pressure Filtration

- AFP IV™ Filter Presses
- Shriver® Filter Presses
- Pneumapress Automatic Pressure Filters
- Vertical Pressure Filters
- Beltpress Filters
- Granular Media Filters

Vacuum Filtration

- Horizontal Belt Filters
- Vacuum Drum Filters
- Horizontal Pan Filters
- Vacuum Disc Filters
- Indexing Belt Filters
- Press Belt Drum Filters
- SOD & Precoat Filters



Since 1910, FLSmidth Minerals has manufactured pressure and vacuum filters and continues to supply filtration technology for minerals and industrial processing flowsheets throughout the world.

Whether using for concurrent or countercurrent cake formation, cake discharge, washing, dewatering, settling, or drying, you can rely on years of experience with industry leading brands (Dorr-Oliver, EIMCO, Pneumapress, and Shriver) to gain the most efficient and cost-effective filtration equipment solutions tailored to your requirements.



FLOTATION

Flotation Products

- 300-330m³ SuperCell™
- Wemco® SmartCell™ Flotation Cells
- Dorr-Oliver® Flotation Cells
- XCell™ Flotation Cells
- Self-Aspirated Flotation
- Forced-Air Flotation
- Flash Flotation
- Column Flotation

FLSmidth Minerals is the world's largest supplier of flotation equipment, combining the strength of WEMCO, Dorr-Oliver, and XCell flotation technology, which accounts for more than two-thirds of all annual flotation sales globally. We attribute this success to our ability to provide either self-aspirated or forced-air flotation technology or a combination of the two.

FLSmidth Minerals is at the forefront of the industry's trend to install fewer, but larger units rather

than multiple smaller cells, to save space, power, maintenance, and auxiliaries. FLSmidth Dorr-Oliver Eimco pioneered the way for large cell technology. From its first Wemco 257m³ cell installed in 2003, to now even bigger 300m³ cells being installed in Chile: These 26 x 300m³ Wemco cells are the first major installation of 300's for a new plant and the first used in rougher/scavenger duty!



SEDIMENTATION

FLSmidth Minerals supplies the world's largest thickeners with the highest torque ratings! From the well-known brands of EIMCO and Dorr-Oliver, our sedimentation equipment is utilized around the world and recognized as the leader in minerals-duty thickening applications such as concentrate, tailings, preleach, and CCD.

We offer a wide range of thickening and clarification equipment with enhanced flocculation to accelerate settling, and higher flow and loading rates to help reduce space requirements.

Our engineers will work with you to determine correct heavy-duty thickener and clarifier sizing to determine the most cost-effective mechanism for your application, without compromising quality or dependability.



Sedimentation Products

- Hi-Rate Thickeners
- Hi-Density Thickeners
- Deep Cone® Paste Thickeners
- Paste Production Storage Mechanisms
- Conventional Clarifiers & Thickeners
- Delta-Stak® Clarifiers
- E-CAT® Clarifier/Thickener
- Reactor-Clarifiers™ Solids Contacts Units
- Tray Thickeners
- Superthickeners / Caisson Thickeners
- Cable-Torq / SwingLift Thickeners and Clarifiers
- Feed Dilution Systems
- Sedimentation Drives

PUMPS & VALVES

FLSmidth Minerals is a leading supplier of high performance slurry handling equipment offering complete slurry pump, vertical pump, centrifugal pump, pneumatic pump, valve, and gate valve assemblies under industry-leading brand names such as Krebs, Technequip, Dorr-Oliver, and EIMCO.

We specialize in equipment that is rugged and durable, able to handle heavy slurries, or even

extremely corrosive or abrasive materials. Our products include the popular Krebs millMAX™ severe-duty slurry pumps, Dorr-Oliver ODS pumps, and Technequip Knife Gate Valves.

When your objective is to increase wear life, lower power consumption, increase mill throughput, or enjoy less downtime, we develop slurry handling products exclusively to your particular requirements.

Pumps

- Krebs® millMAX™ Severe-Duty Slurry Pumps
- Filtrate Pumps
- Gorator Pumps
- Air-Operated (ODS) Diaphragm Pumps

Valves

- Technequip™ Knife Gate Valves
- Tech-Taylor™ Valves
- T1 Vacuum Breaker™ Valves

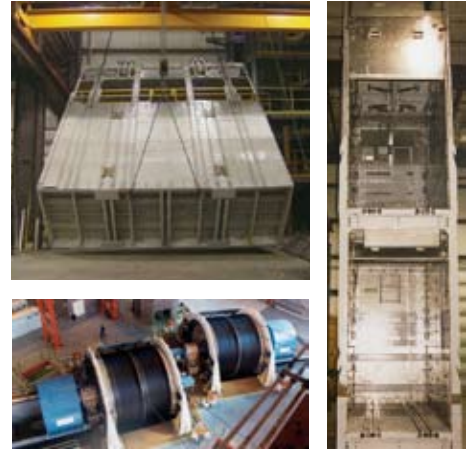


UNDERGROUND MINING

Underground Mining

- Mine Hoists
- Head Sheaves
- Cages
- Skips
- Mine Cars
- Loading Stations
- Spill Pockets
- Conveyance Suspension

For over 80 years, FLSmidth Minerals has applied its specialized expertise to provide innovative solutions to all facets of ore handling in underground mining operations and maintains a leading position in the field of mine hoist technology through the well known Vecor brand. Our products are used worldwide and have long been considered "the standard" of the industry.



SPECIALTY PRODUCTS

Canal Diggers

FLSmidth RAHCO Canal Diggers are so versatile that they can meet your every need - operating on canal slopes, on slope and bottom combinations, or only on the canal bottom.

- Trimmers
- Slipform & Pavers
- Workman Jumbos
- Full-section Solutions
- Half-section Solutions

Excavators

- Continuous Excavators
- Wet Salt Harvesters
- Dry Salt Harvesters

Coking Plants

The core of our coking plant technology is our patented stamp charging technology, the most currently available, cost-effective procedure for the production of either low-quality coal or high-quality coke.

Rolling Mill Technologies

Today our rolling mill technology group designs and produces individual units, plant sections such as finishing lines or rolling mill trains, and complete turnkey plants.



Rotary Agglomerators

FLSmidth Minerals has designed rotary kilns and dryers since 1898 with over 2100 units sold and with kilns as large as 7.6m diameter x 232m long successfully operating. Our Rotary Agglomeration Drum technology is based upon proven and robust kiln and dryer components.

Due to their extra heavy-duty design, FLSmidth Minerals agglomeration drums are very low maintenance and offer high mechanical availability.

PYROPROCESSING

Pyroprocessing Products

- Rotary Kilns & Dryers
- Preheaters
- Coolers
- Fluid Bed Systems
- Gas Suspension Systems
- Incinerators
- Smelting
- Combustion Systems
- Pilot Processing Plants
- Pyro Gears

FLSmidth Minerals provides a wide range of thermal treatment systems for the minerals industries. Each system and technology provided by FLSmidth Minerals is based on extensive raw material analysis and careful review of product quality requirements. This ensures the optimum process flowsheet is developed from our extensive line of proprietary technologies.



MATERIAL HANDLING

FLSmidth Minerals is your One Source for both mechanical transport equipment and systems and pneumatic conveying technologies with over 60 years of experience from trusted brand names like Möller, KOCH, MVT, RAHCO, Conveyor Engineering and FLSmidth Pneumatic Transport.

Our material handling products and systems include traditional trough-type belt conveyors, fixed/overland conveyors, portable conveyors, at-the-face mining conveyors, stacker/reclaimer systems, mobile conveyors, radial stackers, bulk material and bag loading and unloading systems for barges and ships, shuttle conveyors, chain feeders, belt feeders, apron feeders, spreading technologies, complete crushing and screening plants, and ancillary equipment such as high capacity tripper cars.



Furthermore, we deliver advanced expertise in fully enclosed pipe conveyors in both in-plant and overland applications and are considered the worldwide market leader with hundreds of installations, including the world's longest pipe conveyor, spanning 8.2 km in Peru.

Material Handling Products

- Pipe Conveyors
- Belt Conveyors
- At-the-Face Mining Conveyors
- Feeders
- Stackers-Reclaimers
- Pneumatic Conveying
- Reusable Leach Pads
- Loading & Unloading Systems
- Heap Leach Stacking



AUTOMATION

FLSmidth Automation has more than 30 years of experience in total plant automation and quality control systems. As a leader in automation, we have supplied more than 700 control systems and 500 laboratory automation systems worldwide.

With comprehensive services for modernization, optimization, and maintenance, we deliver state-of-the-art technology solutions for cost effective operation and increased plant availability.

Our solutions range from local panels to large plant-wide control system solutions, from sample



preparation equipment to integrated and fully robotized laboratory automation solutions as well as complete service offerings from parts to real-time training simulators.

High Level Automation Products

- HMI & Supervisory Systems
- Enhanced Engineering Workstations
- SAG and Ball Mill Grinding Circuit High Level Control
- Kiln High Level Control
- Kiln Temperature Scanning Systems
- Process Reporting

Automated Laboratory Products

- Robotics Automation
- Sampling and Sample Transport
- Laboratory / LIMS
- Conventional Automation
- Blending Controls
- On-line Analysis



SERVICES

Technical Services

- **Erection & Commissioning**
- **Operations & Maintenance**
- **Expert Services**
- **Technical Assistance**
- **Training**

Products

- **Original OEM Spares**
- **Product Review & Improvement**
- **Life Cycle Analysis**
- **Repair**
- **Retrofits**

Engineering Services

- **Equipment Audits**
- **Process Audits**
- **Testing**
- **Erection Supervision**
- **Training**
- **Detailed Engineering**
- **Constructability Analysis**

Operations and Maintenance

- **Mill Management**
- **Plant Maintenance**
- **Asset Management**

Metallurgical Testing

- **Ore Amenability Testing**
- **Process Development**
- **Flowsheet Layout**
- **Plant Design**

Customer Services

FLSmidth Minerals is your One Source for spare parts, service, maintenance, asset management, and operational services. Our Customer Services provide a wide range of services for mineral processing equipment and systems including raw material testing, process design, equipment installation, troubleshooting, process and mechanical analysis, and commissioning of new plants.

Customers are our most important assets. Once we have designed and installed your processing systems, we do everything possible to provide the tools to ensure that those systems continue to operate at optimum levels, all the time. It is by no means a radical concept. Indeed, everyone promises it; we deliver it!

Operations and Maintenance

Our Customer Services experts have the know-how to optimize your maintenance and shutdown management programs. We can help plan your preventive maintenance programs, manage scheduled repairs, and even implement these programs for you.

Rebuilds & Modernizations

Keep your equipment current with the latest advancements to enhance your operations and provide for better efficiencies. FLSmidth Minerals can rebuild your equipment or provide the most current state-of-the-art equipment improvements and/or system upgrades for operational efficiency and enhanced functionality.

Quality & Reliable OEM Parts

Contact our trained service personnel to get authentic, high quality, original equipment manufacturer (OEM) spare and replacement parts for your FLSmidth, Fuller, Traylor, ABON, EIMCO, Excel, Conveyor Engineering, Krebs, KOCH, Möller, MVT, Pneumapress, RAHCO, WEMCO, Dorr-Oliver, Shriver, and FLSmidth Minerals supplied equipment. FLSmidth Minerals is the only place to find field engineers and technicians trained specifically to deal with the unique characteristics of this equipment.



Test Centers

Research and Development (R&D) has always been an important part of FLSmidth Minerals operations. We offer analysis of a broad range of materials and processes, and can conduct pilot plant feasibility studies ranging from simple milling and drying to more integrated pyroprocessing systems, based on rotary kilns and gas suspension calcining. We also have the capability and expertise to design your pilot plant, build it, and optimize it for profitability.

Engineering Services

FLSmidth Minerals provides the services required to engineer, procure and construct in virtually every major industrial market – from Mining, Metals & Minerals to Hydrocarbon Processing and Hazardous Incineration.

We have multiple full-time engineering teams trained in each discipline. These personnel use the most current resources, training and software to provide the best available solutions to your project.



www.FLSmidthMinerals.com



For more information,
Contact your One Source today!
www.FLSmidthMinerals.com

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