KOCH® Drag Chain Conveyors

High operational reliability and long service life
Enclosed Conveying Systems / Systems for Alternative Fuels

Our standard scope of supply includes:

- KOCH® Drag Chain Conveyors
- KOCH Pipe Conveyor®
- Air-supported Belt Conveyors
- Truck Docking Stations
- Truck Unloading Stations
- Bulk Materials Receiving Stations
- KOCH Feedex™ Reclaimer
- Silo Storage and Discharging Systems
- Screw Conveyors
- Apron Feeders
- Ash Removal Systems and Submerged Scraper Conveyors
- Bulk Fuel Spreaders
- Complete Bulk Materials Handling Plants with enclosed Conveying Systems
- KOCH Conveyor Chains
- Spare Parts

Business Segment: Enclosed Conveying Systems / Alternative Fuels

Based on the proven KOCH® technology FLSmidth® offers more than 60 years of experience in the planning, fabrication and erection of enclosed conveying systems combined with extensive know-how in plant engineering and manufacturing technology. Enclosed conveying systems from FLSmidth represent a unique profile of outstanding performance.

FLSmith provides you with solutions for all challenges in bulk materials handling, from design and fabrication of single machines up to the refurbishment, upgrading and construction of complete plants. Reliability, quality according to DIN EN ISO 9001 and on-time delivery are core values of our policy.

With more than 6,500 installed systems FLSmidth is the market leader in Europe for enclosed conveying systems.

The worldwide extensive FLSmidth range of supplies and services for enclosed conveying systems is completed by comprehensive services for the professional assembly and commissioning on site, the training of operators and for operation and maintenance.

We offer our customers a skilled and experienced service team for plant upgrades, extensions, spare parts, inspections and maintenance.

KOCH Drag Chain Conveyors are manufactured at the FLSmidth factory in Wadgassen, Germany, thus ensuring highest quality and short delivery times.

We offer the solution that perfectly suits your requirements – put us to the test.
KOCH Drag Chain Conveyor: The multi-functional, modular system

KOCH Drag Chain Conveyor: With more than 6,500 installed conveyors, FLSmidth’s success system for economic, enclosed conveying of all kinds of bulk materials.

Coal, sorted domestic waste, sewage sludge, filter dust, fly ash, wood chips, RDF, cement, clinker, limestone, biomass or other alternative fuels - KOCH Drag Chain Conveyors transport almost any type of bulk material, safely, gently, environmentally friendly and with low space requirements.

KOCH Drag Chain Conveyors convince through flexibility, high operational reliability, economic efficiency and top performance:

- Conveying distances of up to 70 metres,
- Handling rates of up to 1.000 m³/h or
- Product temperatures of up to 800°C
- if required, under ATEX conditions

FLSmidth continues to hold a significant design advantage based on more than 60 years of experience in the transport of bulk materials.

**Convinging transport solutions:**

- Enclosed transport, odor-free and environmentally friendly
- Flexible solutions for most diverse requirements
- High operational reliability, long service life
- Low space requirements and high handling rates
- ATEX certified
A solution for each application

KOCH Drag Chain Conveyors can be integrated at various stages of the production or disposal process, thus providing ample possibilities for solving different transport tasks.

In addition, FLSmidth offers a carefully selected range of supplementary components, which integrate the bulk material transport by drag chain conveyors into a closed system – from the receipt of the bulk material up to the storage, dosing and discharge.

For complex conveying tasks we combine KOCH Drag Chain Conveyors with a wide range of other FLSmidth conveying components, such as bulk material receiving stations, storages with Feedex™ reclaimer, KOCH Pipe Conveyor systems, air-supported belt conveyors, screw conveyors, silos with discharging systems, Pfister® rotor weighfeeders, Möller® pneumatic conveying systems, bulk fuel spreaders and conventional conveying systems.

For enclosed conveying systems and alternative fuel systems FLSmidth offers design, engineering, fabrication, assembly, commissioning and after-sales service – all from one source.
Basic design types of KOCH Drag Chain Conveyors

There are two basic design types for the multifunctional range of KOCH Drag Chain Conveyors:
• Type H with horizontal arrangement
• Type V with vertical arrangement up to 90°

Both types are usually available with any number of feed and discharge points over the length of the intermediate troughs. A special design of the KOCH Drag Chain Conveyors can be used for volumetric dosing as feeders, especially as mill feeders.

All KOCH Drag Chain Conveyors can be designed as dust-proof, water-tight, pressure tight and explosion-proof. Due to their self-supporting structure they can easily be integrated into existing installations, requiring minimum space.

Based on the two basic designs and by using a multitude of individual components, FLSmidth designs and supplies drag chain conveyors and conveying systems for almost any kind of application:
• Sludge conveyors
• Cooling conveyors
• Extracting conveyors
• Filter conveyors
• Circular conveyors
• Submerged scraper conveyors and ash removal systems
• Mill feeders
• Sedimentation scraper conveyors
The system with outstanding reliability

Quality from our own factory
KOCH Drag Chain Conveyors are mostly manufactured at the FLSmidth factory in Wadgassen, Germany, in accordance with highest technical standards. Mechanical tests as well as non-destructive inspections during and after production ensure constant high quality.

Selected materials
The modular system components are available in standard steel with various plate thicknesses. For special requirements and applications we fabricate individually designed systems using specially selected materials such as heat-resistant steel or stainless steel. The housing can be lined with wear plates, cast basalt or synthetic material. The chain guides can either be arranged on the floor or on wear rails.

Super strong with the special KOCH conveyor chain
The heart of the KOCH Drag Chain Conveyor is the special KOCH conveyor chain - the links are drop-forged with the welding lug (1) integrated into the forged piece. The flights are welded to the lug by means of a special flash-butt welding process. This special welding process protects the flights from breaking off – the functionality and tensile strength of the conveyor chains are fully preserved even under extreme loads, thus ensuring high availability and a long service life of the system. Flights are available in a wide range of designs to suit each type of material and application.
Service and spare parts: To keep your systems running for a long time

You can count on us.

Spare parts: All from one source
- Complete range of original spare parts
- Ample spare parts stock for short delivery times
- Tailor-made spare part packages for smooth, continuous operation
- Serve life optimization

Inspection: Actual state inventory
- Condition assessment and technical review of plants, machines, plant units and components
- Functional tests
- Inventory checking of spare parts and wear parts

Rehabilitation and Maintenance: Maintaining the value of your plants
- Maintaining or restoring the operation and performance of existing plants
- Smooth maintenance works by qualified personnel
- We offer the expertise required for
  - the right chain tension
  - the professional replacement of spare and wear parts
  - the optimum lubrication etc.

Evaluation: More safety for your systems
- Identification of defects and risks as well as remedial actions
- Support in production, investment and maintenance planning
- Increase in plant safety and efficiency by repair and upgrading measures

Upgrading: Increase in value
- Economic upgrades of existing plants to increase capacity and efficiency
- Eliminating weaknesses, interferences and causes for increased wear

Your expert contact for:
- Staff training
- Permanent support service for your plant and equipment as part of maintenance contracts
- Whatever your requirements may be - you can rely on us!