

# SKIOLD FEED MILLING PLANT

*Your supplier of complete solutions for feed production*



## SKIOLD MAKES THE DIFFERENCE!

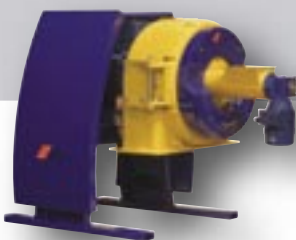
*Simple, dependable and durable - these are the characteristics of the feeding, ventilation, and milling plants from SKIOLD. Since the beginning in 1877 we have done our best to make SKIOLD the trustworthy choice whenever it comes to high quality and good business economics*

SKIOLD A/S is among the largest European manufacturers of equipment for indoor mechanisation of modern farming, and has long experience with production and advisory services regarding feeding systems, ventilation, and plants for feed production and grain storage. The target group is animal producers.

Many years as supplier for Danish as well as foreign customers have provided SKIOLD with a wide experience in satisfying the different requirements from animal

producers worldwide, on the basis of different statutory requirements regarding animal welfare, etc.

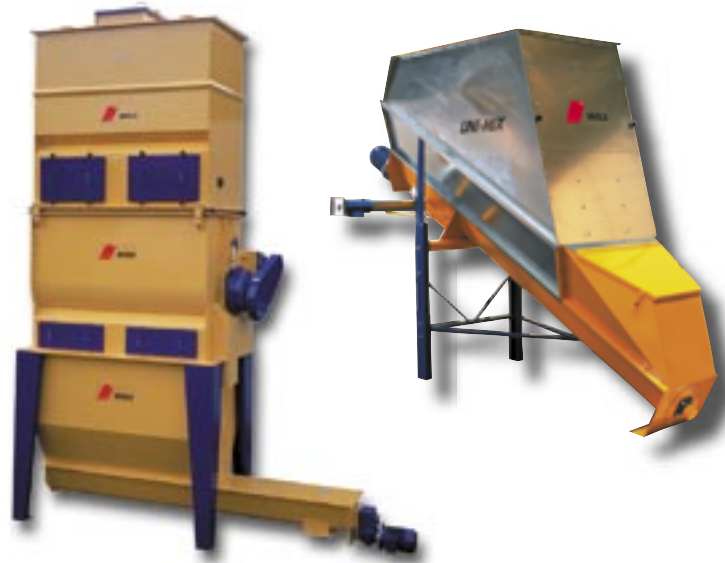
The SKIOLD group consists of various companies, which are all suppliers to the primary farming, or related businesses, which strengthen their position through a close cooperation the individual companies in between; by way of example development tasks are often solved across the group.



**SKIOLD**

# SKIOLD FEED MILLING

*The Feed Milling Process & Equipment*



## **DOSING / WEIGHING**

SKIOLD offers a complete program of equipment for dosing and weighing of raw materials and other components. The program includes among other things weighing bins, micro proportioning plant, mineral hoppers, etc., with capacities of up to 2 tonnes per batch.

## **MILLING**

Traditional hammer mills with or without a built-in fan and capacities from 300 to 5000 kg/h. Many accessories incl. reinforced wearing parts in PROF-LINE quality are available as options.

The SKIOLD disc mill is available in three sizes, SK2500, SK5000 and SK10T with capacities up to 12000 kg/h. Motor sizes from 7.5 to 75 kW. The disc mill has adjustable milling degree, has a low energy consumption, minimal dust emission and an extremely low noise level.

## **MIXING**

The UNI-MIX inclined mixer (available in three sizes of 500, 1000 and 1500 kg) is a reliable, gentle feed mixer with a high mixing accuracy due to the auger with large diameter and low number of revolutions.

Where high capacity and mixing accuracy are required we offer the horizontal mixer that can be equipped with pre-bin and post-bin. The horizontal mixer is tested to a mixing accuracy of 1:100,000, which is sufficient for commercial feed production.

## **PELLETING**

If pelleted feed is required, SKIOLD can supply customized pelleting plants as an integrated part of the feed factory. We have great experience in supplying and installing pelleting plants throughout the world in sizes ranging from 2 to 25 t/h.



# SKIOLD FEED MILLING

*Projecting of Complete Feed Milling Plants & Silo Plants*



## SILO PLANTS

SKIOLD also projects and supplies complete solutions for grain storage facilities including high quality fully galvanized steel silos, flat storage plants, continuous flow grain dryers, intake pits, grain cleaners and conveying equipment, Capacities from a few hundred up to many thousands tonnes.



## TRANSPORT

SKIOLD offers a complete program of equipment for mechanical transportation, including flex augers, tubular augers, trough augers, bucket elevators, and chain conveyors. We offer a wide range of accessories for all types, and great reliability of operation.

**Flex augers**, 75 and 90 mm, are suitable for transportation of meal products and granulates over distances of up to 50 metres.

**Tubular augers**, available in the dimensions 100 and 150 mm, are used for versatile transportation, with capacities of up to 30 t/h. The auger program is extended with components for unproblematic conveying of meal products as well.

**Trough augers** are used for horizontal transportation of grain as well as meal products. The program covers the dimensions 100, 150 and 200 mm, with capacities of up to 80 t/h. The single auger can be mounted with several outlets, which can be remote-controlled electrically.

**Chain conveyors** are used in major feed factories and silo plants for horizontal for transportation of granulates, grain

and meal products.

**Bucket elevators** are used in major feed factories and silo plants for vertical transportation of granulates, grain and meal products.

SKIOLD's wide range of industrial conveying equipment is manufactured in heavy-duty galvanized material, ensuring lasting quality and great reliability of operation. All types are supplied with gearmotor drive, and a wide selection of accessories and safety systems are available as options.



## COMPLETE PLANTS

SKIOLD projects and supplies complete feed factories in both tailor made and standard design with capacities of up to 20 t/h, and also with bigger capacities on request. We offer the whole package of equipment and accessories for the complete feed mill:

- Dosing/weighing/micro-dosing
- Milling
- Mixing
- Pelleting
- Grain cleaners
- Hoppers
- Liquid tanks and pumps
- Silos
- Conveying equipment
- Ducting, valves etc.



# CONTROL SYSTEMS

*... everything is automatically controlled by the SKIOLD FlexMix & FlexMix Pro Computers!*

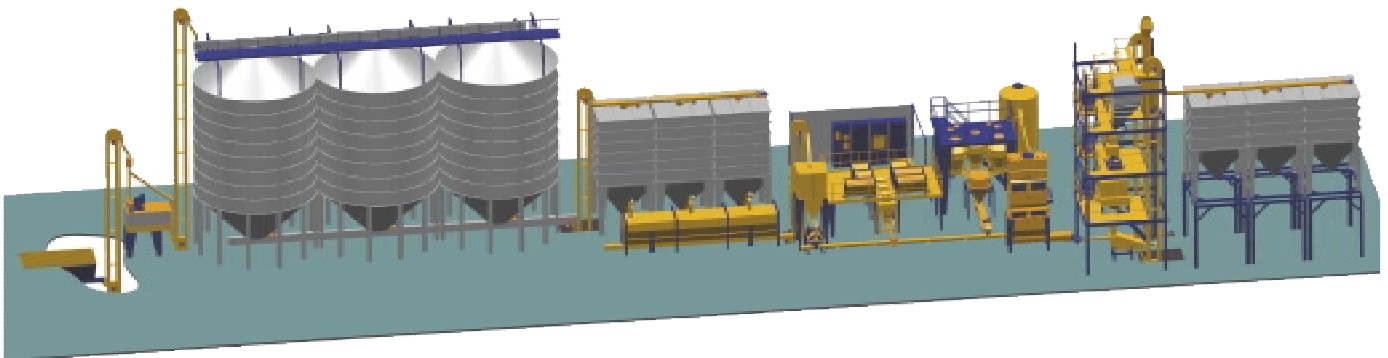


- Handles up to 50 raw materials
- Handles up to 50 recipes including up to 20 raw materials per recipe
- Handles up to 40 feed delivery points (silos)
- Improved management of historic production data and alarms
- Flexible handling of section feeding with up to 5 feed programmes with up to 10 different recipes
- Feed analysis of up to 10 raw materials (e.g. price, protein etc.) per recipe
- Controls up to three mills with individually adjusted grinding degree/capacity adjustment
- Simultaneous control of up to three weighing systems
- Micro and macro proportioning via weight, time or pulse measuring
- Manual start via keyboard, automatic via 24-hour clock or via sensor in silo
- Connection of printer or PC control with graphic software

- Service of the plant directly from SKIOLD via an internet connection

Using the PC controlled FlexMix you have a full real-time overview of your production shown on the individually adjusted flow diagram. By clicking on the monitor, operations such as changing raw materials and recipes, checking of production data, stock of raw materials etc. are easily done.

FlexMix Pro is the industrial version of the FlexMix controller with better user interface, possibility of traceability, and operation of a larger number of silos, mills, and weighing systems.



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