

ENGSKO

ENGSKO was established in 1900 and is specialized in development, production, erection and after sales service of a wide range of quality products.

ENGSKO took over all export of flour milling plants from SKIOLD A/S and ABC Hansen A/S in January 2004. Both companies have a long tradition within flour milling.

ENGSKOs main areas are:

- Wheat flour plants
- Whole meal flour plants
- Maize flour and grits plants
- Rye flour plants
- Spelt flour plants
- Blended food units
(extruding and roasting)
- Milling fortification units
- Sorghum grinding
- Coffee grinding
- Grinding of spices
- Stone mills
- Rice mills
- UMS Discmills
- Rollermills
- Hammermills
- Sifters
- Engineering
- Erection
- Training of plant staff
- After sales service
- Accessories:
 - Modular pipe systems
 - Rotary valves
 - Accessories for sifting
 - Spare parts

Ensuring Food Quality

United Milling Systems and ENGSKO have merged in 2005 and can supply a complete range of plants from small scale to industrial plants.

A flour plant from ENGSKO and UMS is more than just some machines. To us flour is not only a question of production but also a question of nutrition.

ENGSKO and UMS flour plants are complete with components for the whole process from raw material handling to flour packing. We experience an increasing demand for provisions of high food quality, and our plants are used in bakeries, mills and regional communities all over the world.

Complete, Capable and Cost Effective

A flour plant from ENGSKO and UMS is equipped with the right equipment to achieve a product of high quality. In this way we ensure the highest possible yield from the lowest possible investment.

The grinding process takes place on a principle of simplicity and high capacity, and the plants are developed with a view to the flour being produced where it is to be used. Quality has been given pride of place, and we ensure highest possible yield from any raw material.

UNITED MILLING SYSTEMS

United Milling Systems was established in 1978 by Carlsberg in order to commercialise the agro-industrial know-how developed by the Carlsberg Research Centre.

Under its present ownership UMS has continued to pioneer new milling technologies suitable for processing cereal crops such as wheat, maize, rye, sorghum, rice and millet.

UMS, headquartered in Copenhagen, has supplied complete milling systems to a substantial number of clients - private as well as public - in Europe, Africa and the Far East. These systems, for the production of flour for human consumption and for industrial use, are based on the Discmill®, a unique machine that effectively and controllably grinds cereal grains into flour, and meal.

UMS furthermore acts as agent for *Olocco Mario & C Snc*, Italy, specialising in airlocks and pneumatics, and for *Fr. Jacob Söhne GmbH & Co.*, Germany, specializing in pipes and pipe systems.

Flour Milling Plants Milling Equipment

UNITED MILLING SYSTEMS & ENGSKO

UNITED MILLING SYSTEMS

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Your Milling Partner

BOOSTING CAPACITY

UMS - Boosting Your Mill Capacity

By installing the UMS Discmill® to supplement the break system or the reductions in your mill you get the following benefits:

Up to 25% more capacity with no detrimental effect on mill performance or product quality.

Minimal disruption to the existing plant and the possibility that no additional sifter capacity is required.

The Discmill® occupies about half the space of a roller mill and can be located at ground floor level.

Easily accessible and durable wear parts, ensuring low maintenance cost.



Discmills grinding rice in Mexico

RICE MILLING

RICE MILLING

In recent years it has become popular to grind different types of rice into flour.

The Discmill® grinds all types of rice.



Discmills grinding flour in Germany

ACCESSORIES

Modular Pipe Systems

UMS acts as agent for Fr. Jacob Söhne GmbH & Co., Germany, specializing in pipes and pipe systems.

A simple and fast assembly, innovative developments, and high quality standards guarantee the quality within all industries requiring metal pipe work.



Rotary Valves and Accessories

UMS acts as agent for Olocco Mario & C Snc, Italy, specializing in airlocks and pneumatics.

Rotary valves and accessories are used in any kind of pneumatic conveying lines mounted under a cyclone or at the filter exhaust.



Want to INCREASE PRODUCTION of whole wheat flour ?

Choose the DISCMILL® for the most compact, most efficient and lowest cost Whole Wheat Flour production.

From a single pass system for coarse whole wheat flour to multi-pass systems for a complete range of whole wheat products it pays to consider the DISCMILL®.

- Highly productive in terms of consumed power and space occupied.
- Wide selection of fluting styles and configurations to suite specific requirements.
- Completely controllable grinding gap with micrometer adjustment.
- Well proven in many installations worldwide.
- Low maintenance cost.

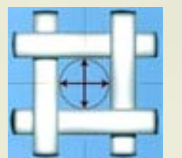
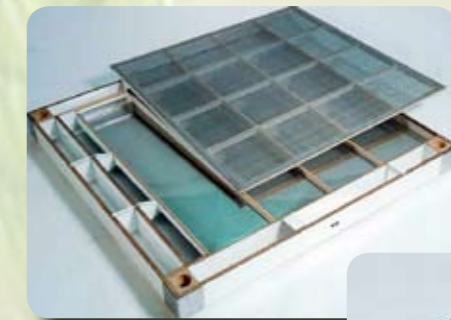
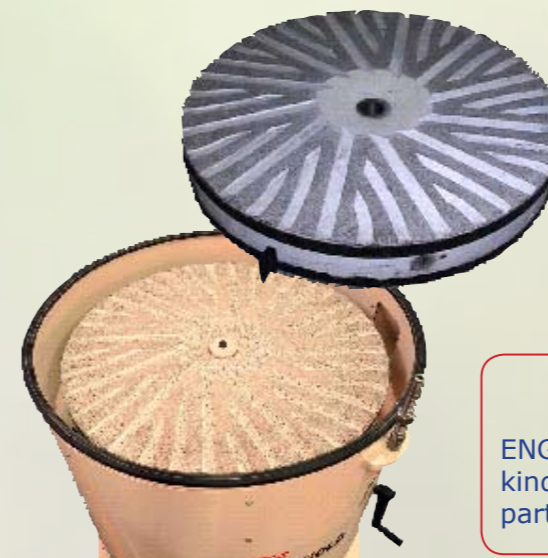


The DISCMILL® from United Milling Systems can enhance your existing grain processing systems or be at the heart of a new process. It's the most productive way to meet the growing demand for whole wheat flour.



Grinding elements

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ACCESSORIES

ENGSKO and UMS supply any kind of accessories and spare parts.

WHOLE MEAL and SPELT MILLING

ENGSKO Spelt Milling Plant

Capacity 300 kg/hour and up.

Mainly for spelt but can also be used for whole meal flour.

Includes spelt peeler and uses stone grinding mills.

Options available for all plants.



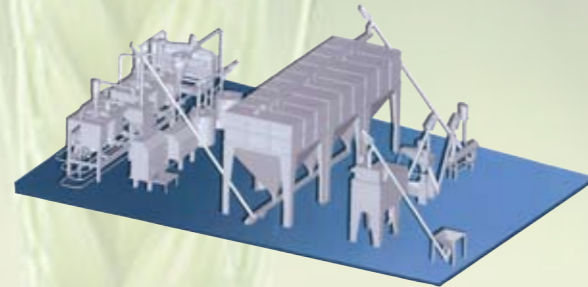
BLENDED FOOD

ENGSKO Milling Fortification Unit

Capacity 1000 kg/hour.

Food fortification means improved health and productivity in developing countries.

Includes hammermill and batch dosing unit as well as batch mixer.



GRINDING MILLS

Horizontal Grinding Mills Sizes 500–950 mm

Capacities from 150 to 1000 kg/hour depending on fineness of finished product.

For whole meal and a wide range of spices, coffee etc.



Vertical Grinding Mills Sizes 300–500 mm

Capacities from 250 to 700 kg/hour depending on fineness of finished product.

For whole meal and a wide range of spices etc.



INDUSTRIAL FEED PLANTS



UMS Discmill® MGA 1000

Capacities up to 15.000 kg/hour.

Mainly for industrial feed plants.

MGA-1000 is the largest mill in the Discmill® range and has the following advantages:

- Optimum product composition for high nutritional value.
- Controllable degree of grinding to maximize suitability of finished product.
- Low power consumption to minimize production cost.
- Low noise provides a more user friendly environment.
- Minimum dust emission reduces the complexity of exhaust systems.
- Compact design saves space and simplifies installation.

MAIZE

SKIOLD Grindmaster 1500, MAIZE

Capacity 1500 kg/hour, extraction rate min. 75%

For maize only.

Standard supply includes degerminator.

Options available for all plants.

Flexible and suited for installation in most existing buildings.



UMS Degerminated Maize Products

The UMS Discmill® is used in conjunction with degerminators, sifters, and roller mills to produce high quality maize grits and meals. Products are low in oil and of bright speckfree appearance.

The extent of the milling system after degermination is determined by the required granulation of the finished product. Where a precision degerminator is installed, the degerminated product leaving the machine may be ground into a coarse finished meal in a single pass on the UMS Discmill® type MHA 600D. Where fine meals are required, two or more passes may be used with intermediate sifting.

To achieve higher levels of extraction, the mix of germ, bran, and endosperm discharged from the degerminator is treated by roller mills, sifters and aspirators to recover usable endosperm for grinding into meal by the Discmills.



WHEAT

SKIOLD FRP 500 Wheat Flour Plant

Capacities range from 500 to 3.000 kg/hour, extraction rate min. 65%.

Mainly for wheat but can be modified for other types of grain incl. maize.

Available in a Basic or an Extended Version.

Options available for all plants.

All plants use stone grinding mills and the standard SKIOLD rollermill.

Plants are very flexible and can be installed in most existing buildings.



ENGSKO Flour Milling Plant, Type 7

Capacity 1000 kg/hour, extraction rate min. 65%

Mainly for wheat.

Options available for all plants.

All plants use stone grinding mills.

Plants are very flexible and can be installed in most existing buildings.

SKIOLD Grindmaster 1500 Wheat Flour Plant

Capacity 1.500 kg/hour, extraction rate min. 65%

Mainly for wheat.

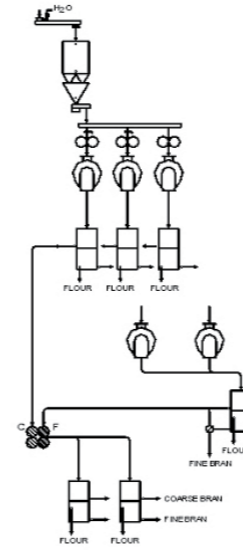
Options available for all plants.

Compared to the FRP 500 plants this is the more industrial version using heavy duty roller mills. Also operates with stone grinding mills.

Plants are very flexible and can be installed in most existing buildings.



UMS SHORT MILL FLOW



YIELDS	%
FLOUR	82
BRAN	18
Σ FLOW	100

UMS Short Milling System

Where high extraction rate is required the Discmill based on **Short Milling System** provides an economical and effective option. The flour is produced at an extraction rate of up to 82% and has a maximum ash content of 1.0% dry basis. Granulation is quite coarse, the flour must pass through a screen. Utilizing the ability of the Discmill to produce high endosperm releases in a single operation, the system is kept very short in comparison to a conventional mill, leading to substantial economies in capital cost and building space.

Pre-crushing the wheat improves the effectiveness of the Discmill grind and a roller mill is used after the Discmill passages to scrape any adhering endosperm from the bran. Bran finishers can be installed to supplement this function.

The UMS Short Milling System can be tailored to suit the production of other long-extraction flours or whole meal.



UMS Discmill® MHA 600

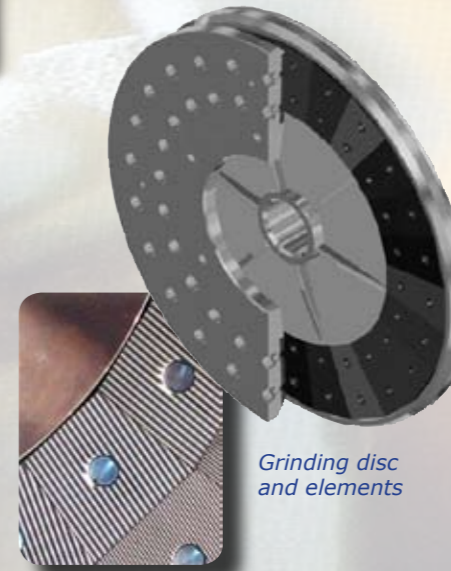
Capacities up to 3.000 kg/hour.

Mainly for grinding cereal grains.

The Discmill grinds the product between discs upon which corrugated grinding elements are mounted. The profile and size of the corrugated grinding elements are much like the fluting used on roller mills. This is one factor which determines the characteristics of the ground product. Two other important factors influencing the grind characteristics are speed of rotation and the gap between the grinding elements. The gap can easily be adjusted during operation.

The Discmill is used for size reduction and intermediate processing of a wide variety of materials including wheat, maize, rice, barley, oats, screenings, and animal feeds.

The Discmill bridges the gap between roller mills and hammer mills.



Grinding disc and elements



Cross-York plansifter