








# MAIZE MILLING PLANT

## Technical Specifications

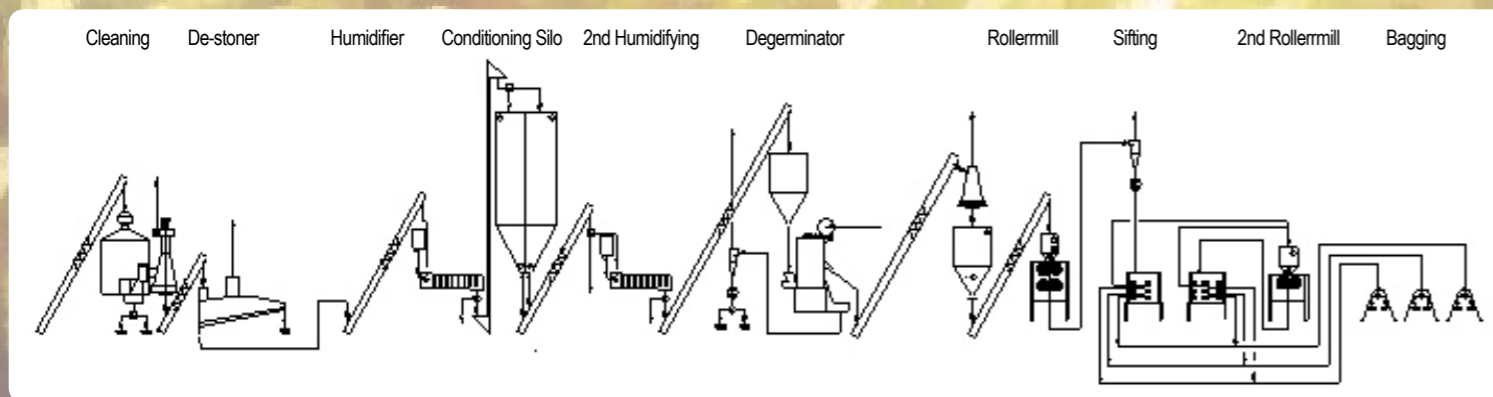
# MAIZE MILLING PLANT

## The Shortest Way from Maize to Flour

Additional Equipment	
 <p><b>Cleaner – Scourer - Aspirator</b></p> <p>Capacity: 10 t/h            Power consumption: 11 kW            Cleaner/scourer: 0.37 kW            Spreader: 5.5 kW            Fan: 0.37 kW            Sluice: 0.37 kW            Air consumption: 3000 – 5000 m3/h</p>	 <p><b>Destoner</b></p> <p>Capacity: 4 – 6 t/h            Power consumption: 0.55 kW            Fan: 11 kW            Air consumption: 80 m3/h</p>
 <p><b>Humidifier</b></p> <p>Capacity: 7 t/h            Power consumption: 3 kW</p>	 <p><b>Double Roller Mill Break</b></p> <p>Capacity: 1.5 t/h            Power consumption: 2 x 15 kW            Feeding Auger: 0.55 kW</p>
 <p><b>Degerminator</b></p> <p>Capacity: 4 – 6 t/h            Power consumption: 45–55 kW            Degerminator: 0.37 kW            Feeding Auger: 2.2 kW            Turbo Fan: 7.5 kW            Suction Fan: 0.37 kW</p>	 <p><b>Plansifter</b></p> <p>Capacity: 1.8 t/h            Power: 0.75 kW</p>
<p><b>TECHNICAL SPECIFICATIONS:</b></p> <p>Installed power: 171 kW            Power consumption: 65–75% of installed kW</p>	 <p><b>TransFlour Conveying System</b></p> <p>Capacity: 1.8 t/h            Power consumption: 1.5 kW</p>



**High extraction rate and flour quality**  
**Professional industrial equipment**  
**Horizontal – one level plant**  
**Capacity from 1500 – 3000 kg /hour**



**ENGSKO**  
 &  
**UNITED MILLING SYSTEMS**  
**Your Milling Partner**

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# THE BEST WAY OF MILLING

## Ensuring Food Quality

ENGSKO and United Milling Systems 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.

## The Complete Process Line

The basic maize flour milling plant is a complete process line with all the necessary machines and components for processing the maize into finished grits and/or flour.

The plant, however, can be extended with additional equipment in order to meet individual demands.

As standard the plant is configured for milling maize flour, with a capacity of 1500 kg / hour of grain.

More equipment can, however, be combined to extend the capacity to 3000 kg or more. Multiple process lines will utilize common cleaning and conditioning equipment as well as common flour bagging and storage facilities.

The plant is designed with a horizontal one-level layout minimizing the building requirements and costs.

The height demand is as low as 6 metres free space, and thus many existing buildings can be used for the plant installation.



## Grain Cleaning and Conditioning

The cleaning and conditioning of the grain before milling is of vital importance, and ENGSKO/UMS has all the equipment needed for this purpose.

The most common and essential equipment is already included in the basic maize flour milling plants, but others can be included according to actual needs.

The range of cleaning and conditioning equipment includes:

- Grain cleaner
- Dust separating cyclone/conveying fan
- Destone separator

- Humidifier
- Conditioning silo
- Second humidifier

The maize milling plants is as standard supplied with one conditioning silo with separation walls and a secondary conditioning system with humidifier and bin for secondary dampening of the maize.

## Degermination

The ENGSKO/UMS maize milling plant is as standard supplied with a degerminator with intake capacity of 4-7 t/h.

## The Milling Process

The ENGSKO/UMS maize milling plant uses one double roller mill break and one single roller mill break.

After each break stage the flour is sifted in multi-deck plan sifters, where grit, flour and bran are separated.

## Flour Conveying System

The flour is transported with our TransFlour System, consisting of a pipe system in which a rubber coated steel wire and plastic scrapers.

