# **Prime Masa Nixtamal**

Specialty Grains and Pulses

Innovations for a **better world**.

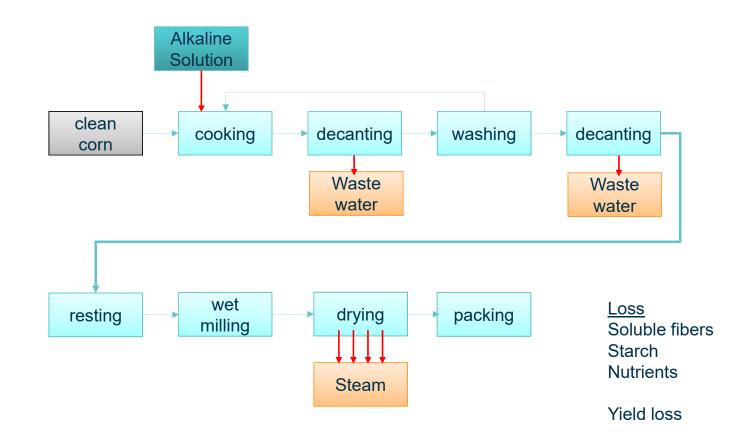


# Aztec process of cooking corn with ashes



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**Traditional industrial process.** 





# Market demand.

#### Waste water free production:

- 1.5 tons of waste water per ton of flour
- Loss of corn through waste
- Loss of energy
- Waste treatment required
- Reliable process control



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## Market demand.

#### **Reliable and precise control of:**

- Water addition
- Lime addition
- Cooking degree
- Granulation
- Process sensors
- Data collection



# Market potential.

Tortilla markets have flourished over the past five years, making it the **fastest growing segment** within the baking industry.





# Tortilla Consumption in NAM.

### 13 million tons

**Tortilla Market in North and Central America** 

### 8.4 million tons

of tortilla are consumed in **Mexico**.

> 280 billion tortillas are consumed yearly in the US, with an experienced 10% rate of growth over the past decade





**Tortilla Trends Worldwide.** More Dynamics – More Potential.



# Prime Masa Nixtamal Waste water free



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Innovative process

Innovations for a better world.



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#### **Prime Masa Nixtamal Process.**

Sustainable and innovative solution for masa flour.

- Typical flavour of nixtamal in the finished products.
- Flour color
- Texture and taste of tortillas, tacos and corn chips.

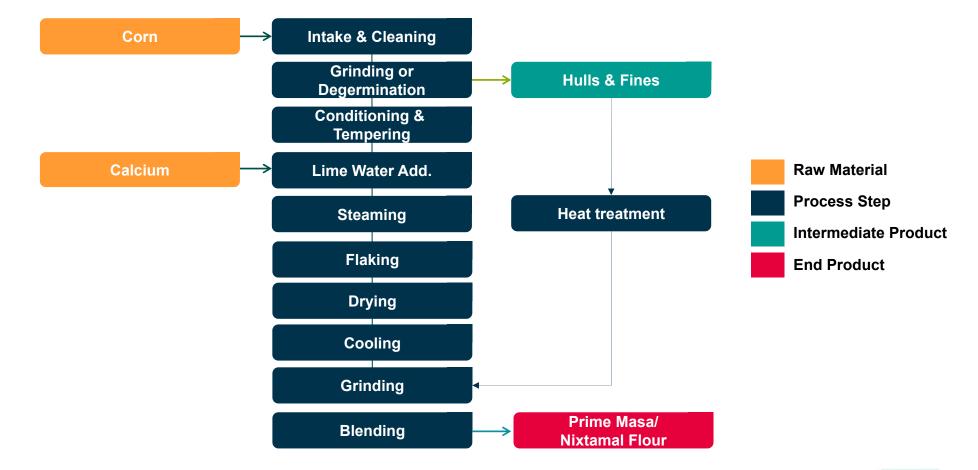






# **Prime Masa Nixtamal Process.**

Sustainable and innovative solution for masa flour.



12 For internal use only Prime Masa Nixtamal | Special Grains and Pulses | 2018



## **Core piece: Flaker BCFB**

#### **Modern Nixtamalization**

- High sanitation
- State of the art automation
- Energy efficient
- Process monitoring
- Versatile process



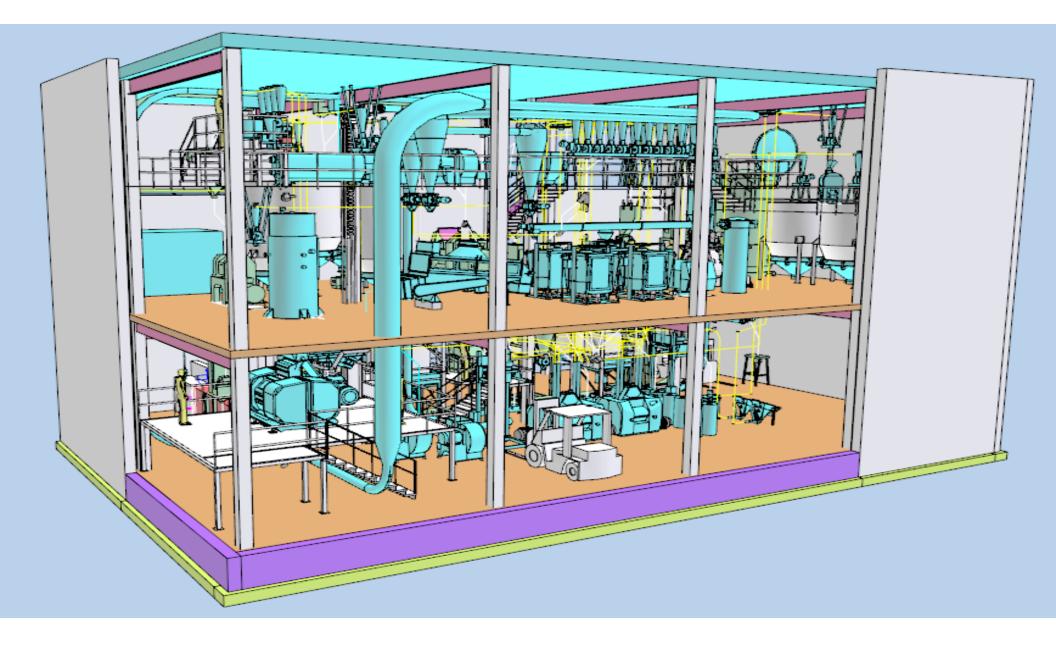


# **Cost savings compared to traditional process**



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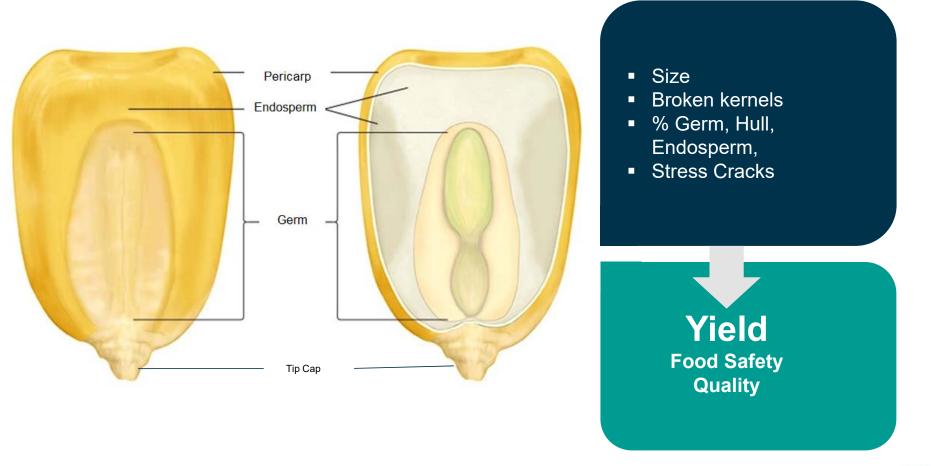




<u>GrainiGo</u><sup>™</sup> - Unveiling yield through image analysis.

# GrainiGo

18



# **GrainiGo<sup>™</sup>.** Quick assessment of yield by objectively analyzing the kernel quality.

Bühler's new quality control tool GrainiGo<sup>™</sup> brings you the advantages of **instant quality analysis** and **Internet of Things**.

The cloud-based service ensures **flexibility**, tracks product performances as well as provides a **low cost solution** for reliable and **consistent quality assurance**.

Its **portable design** and **ease of operation** allow the deployment at **any point of the production chain**.

#### **Benefits**

- Objective, fast results
- Increased quality control and traceability
- Maximum flexibility thanks to portable design and ease of operation
- Low-cost solution

# Got a question? Let's talk about it at our Buhler booth 222.

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