

# How to Process Maize and Manufacture Maize products? This Comprehensive guide has everything you need for startup

Handbook on Maize (Corn) Processing and Manufacture of Maize Products Oil, Starch, Corn Steep Liquor, Syrup, Cornmeal, Popcorn, Flakes, Gluten, Husk, Anhydrous Dextrose, High Maltose Syrup, Maltodextrin Powder, Monohydrate Dextrose, Sorbitol, Ethanol



Delhi, India May 30, 2022 ([Issuewire.com](http://Issuewire.com)) - Today, we will discuss the [maize \(corn\) manufacturing industry](#). Are you excited?

So, let's get started.

[Maize](#) has become the third significant crop in India. It is important because it is not only utilized for human food or animal feed but is also used for corn starch manufacturing, corn oil production, and baby corn production. Maize is also utilized or used for forage, biofuel production, and chemical production.

## Corn Processing or Packaging

Corn starch is a yellow powder that is made from finely ground and dried corn. High fructose corn syrup is processed through very sweet corn. Corn oil contains components like vitamin E and phytosterols. There are many methods where corn is processed. It is also processed through industrial products like dextrose anhydrous, corn starch, corn oil, high fructose corn syrup, maltose, and sorbitol. It is said that the global market can grow at 3.8% CAGR. It affects the demand for starch like in population growth and industrial development. According to the U.S. Department of Agriculture, 35% of bushels have projected 15.062 billion bushels of corn harvested, will be processed through ethanol.

In [Handbook on Maize \(Corn\) Processing and Manufacture of Maize Products \(Oil, Starch, Corn Steep Liquor, Syrup, Cornmeal, Popcorn, Flakes, Gluten, Husk, Anhydrous Dextrose, High Maltose Syrup, Maltodextrin Powder, Monohydrate Dextrose, Sorbitol, Ethanol, Cattle Feed with Manufacturing Processes, Equipment Details and Plant Layout\)](#) the author is explaining about the maize processing and manufacturing of maize products. This handbook of [Corn products](#) is about how it is being processed and how these sectors are coming forward.

The use of Anhydrous Dextrose is mainly in the production of bioethanol and biogas, besides as a food additive. It can also be used in the pharmaceutical industry and as an ingredient in toothpaste. High Maltose Syrup is widely used as a sweetener and preservative, besides being an ingredient of bakery goods and confectionery. The Maltodextrin Powder is mainly used as a thickening agent or flavor enhancer of foods and beverages. Monohydrate Dextrose is used as a sweetener in soft drinks, candy, baked goods, etc. Sorbitol is used as a humectant (keeps moisture) and thickening agent in many food applications such as chewing gum, ice cream, etc.

In this book, you will cover some amazing topics such as:-

- Introduction
- Taxonomy, origin, and evolution
- Taxonomy botanical features
- Pollination and fertilization
- Speed dispersal
- Corn seed anatomy
- Flour corn
- Sweet corn
- High amylose corn

- How to start a maize business
- Register the business
- Create a business plan
- Secure Funding
- Choose a land
- Prepare the land
- Plant the seed
- Control pests and diseases
- Harvest
- Make the product
- Maize industrial outlook
- Post-harvest handling and supply chain scenario
- Demand and consumption trends
- Government initiative and policies
- Growth drivers and challenges
- How to export
- Introduction
- Starting exports
- Processing an export order
- Classification of maize
- Dent corn
- Flint corn
- Flour corn
- Sweet corn
- Popcorn
- Waxy corn
- High-amylose corn
- High-lysine corn
- Pod corn
- Ornamental corn
- Maize hybrid seed production
- What is maize hybrid?
- Hybrid composition
- Seed classes
- Planning seed production requirements
- Flow diagram of seed production
- Maize seed production technique
- Improved technologies for higher maize production
- Crop establishment
- Water management
- Weed management
- Nutrient management
- Insect and pest production
- Harvesting
- Multiple cropping
- Techniques to get higher market price
- Maize production
- Root system
- Leaves
- Stem

- Inflorescence
- Maize's size ear
- Maize kernel
- Growth and development
- Adaptation and production potential
- Climatic requirements
- Cultural practices
- Implements and soil tillage
- Cultivar choice
- Fertilization of maize
- Harvesting process
- Integrated pest management
- Mechanical harvesting
- Corn oil
- Corn starch
- Corn steep liquor
- Corn syrup
- Cornick
- Cornmeal
- Cornstalk fiddle
- Hominy corn
- Popcorn
- Corn flakes
- Maize gluten
- Cornsilk
- Cornhusk
- Anhydrous dextrose
- High maltose syrup
- Maltodextrin powder
- Monohydrate dextrose
- Sorbitol
- Vitamin c
- Ethanol production using corn
- What is corn ethanol
- Uses
- Benefits
- Production processes
- Dry grind ethanol process
- Wet milling process
- Cattle feed on corn
- Methods of preparing compost
- Farmyard manure
- Introduction
- Advantages of well-decomposed farmyard manure
- Material required for making farmyard manure
- The condition required for good decomposition of farmyard manure
- Things to be considered while making farmyard manure
- Compost manure
- Introduction
- Advantages of compost manure

- The materials required for making compost manure
- The place for making compost manure
- Methods of preparing compost manure
- Sweet corn packaging
- Introduction
- Need for packaging
- Types of packaging
- Selection of packaging material
- Packaging material
- Glass
- Aluminum
- Polyvinyl chloride
- Some recent trends in packaging
- Modified atmosphere packaging
- Active and intelligent packaging
- Aseptic packaging
- Labeling
- Starch applications
- Introduction
- Granular structure
- Starch gelatinization
- Sources and producers of starch
- Starch applications
- Food applications
- Non-Food applications
- Starch production
- Introduction
- Glucose syrup
- Protein removal
- Carbon refining
- Ion exchange chromatography
- Starch
- Origin of use
- Occurrence and appearance
- Raw material composition
- Starch composition
- Industrial starch recovery
- Maize starch
- Industrial marketing
- What is industrial marketing
- Industrial marketing vs traditional B2B & B2C marketing
- Challenges facing industrial marketing
- Industrial marketing strategies to increase traffic
- Industrial marketing strategies to build demand
- Industrial marketing strategies to generate online leads
- Packaging
- Consider a multiple packaging
- Cost-effective packaging solution
- Pack small
- Inventory management

- Create a purposeful packaging
- Go green
- Post-intervention value chain
- Introduction to the FPC model
- FPC development approach
- Policy and management
- FPC revenue model
- Outcomes of value chain study
- Testing of all India coordinated research project
- Stages of testing
- Trials of initial evaluation
- Advance evaluation trials 1
- Advance evaluation trials 2
- BIS specifications
- Plant layout and process flow chart and diagrams
- Photographs of machinery with the supplier's contact

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You will also get to know about some topics like maize plant, maize degerminator machine, corn oil processing machine, maize flour milling machine, maize grinding machine, maize pulverizer, corn starch bag machine, sweet corn peeling, sweet corn processing plant, syrup manufacturing plant, liquid filling machine, corn snacks extruder machine, dextrose plant, corn flakes machine, water compost machine, food waste composting machine, automatic ethanol plant, corn flakes roaster machine, and cattle feed machine. These are all topics you will cover in detail in this handbook.

This book aims to spread more awareness about [maize processing](#) and manufacturing of maize products and what are its methods/processes and how it is affecting the country.

This book is the perfect example of how the agriculture sector has become the most important sector in every industry.

Apart from this, you will know about maize manufacturing and its production. How this maize industry is growing with the help of processing and manufacturing.

It is a complete guide for those who want to come into this industry. It only covers maize processing and the manufacture of maize products in depth.

This book covers major parts of [maize products and their processing](#) and is highly recommended for new entrepreneurs, merchants, professionals, and food technologists.

Hit on the BUY button and get your book NOW!

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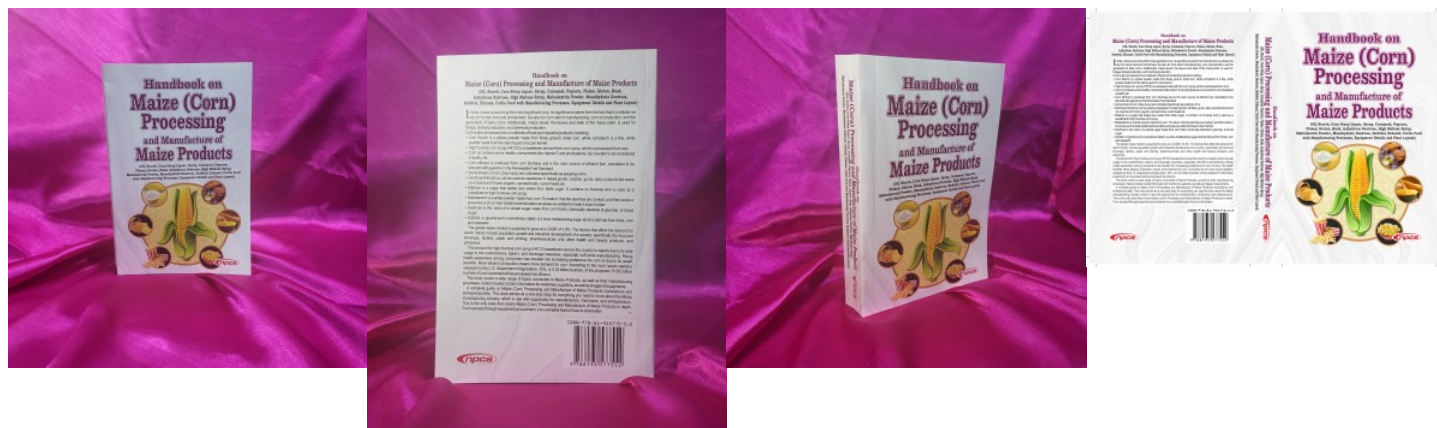
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