



**CROWN**  
MACHINERY



New Innovation Technology for Coconut Milk and Water  
from Crown Machinery



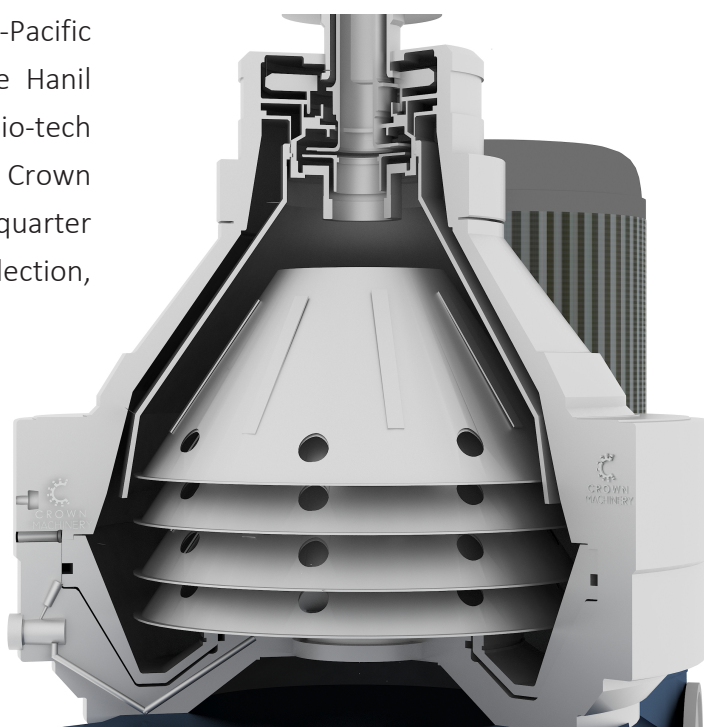
## Crown Machinery Enterprise Introduction

Crown Machinery Inc. is a modern innovative high-tech centrifuge R&D and manufacture enterprise with four main branches in global work located in USA , South Korea, Philippine and China. Adhering to the concept of quality is the enterprise life, innovation is the driving force for the development, Conform to the trend of the development of modern industry, Fusion concept of global economic integration, Creative thinking, Integrate liquid separation processing industry leading enterprise in the upstream and downstream resources; Gather technical force; Together with the power of the global enterprise for business purposes; Dedicated to supply the clients complete separation solution.

Our company assemble a number of skillful, talented professionals, introduction advanced of international centrifuge technology with 30 years experiences of the development and design, through adopting international advanced management method, we have developed very professional separator and centrifuge for edible oil , pharmaceutical , chemical , waste project and various liquid industry. Until now we have accumulated more than 500 clients in global world market and get wide good feedback for our products and service, as our enterprise name "Crown Machinery" described we would like to supply the products like the crown quality and service.

Nowadays, our USA branch mainly forwards the waste-water market; Manila branch mainly prompts the coconut products machinery in Asia-Pacific market; Our Korean branch also named the Hanil Science Medical Co.,Ltd. is focusing on the Bio-tech and Bio-pharmaceutical market; And Liaoyang Crown Machinery Co.,Ltd. in China works as the head-quarter of four branches to serve the machinery selection, sale, technology support and after-service job.

Up to now, we have successfully introduced many clients' final products such as coconut oil into Chinese market to achieve a mutually beneficial win-win situation. We do hope serving the client not only the products but also the wonderful experience to cooperate with us.



**Welcome to contact and visit us.**



## Coconut Milk and Water Processing line

With everyone's attention to healthy eating, coconut gradually fire all over the world, in recent years at the SIAL international beverage Expo held in Paris shine, it was called "super food" by the media". Coconut milk and coconut water also received more and more people's favorite by the peculiar flavor and nutrition.

Generally, the coconut water is the liquid found directly inside a coconut and the coconut milk is the liquid that comes from the grated meat of a mature coconut with high oil content, most of which is saturated fat.

Now, Crown Machinery supply the modern industrial scale coconut water and milk processing line as turn-key project to help the client to expand production scale to meet the growing consumer demand for the market

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# Coconut Dewatering Section

## Coconut Dehusker



This machine serves the purpose of removing the old coconut husk (coir) with the fine knife teeth install on two rotational screw rollers, the husk discharge from a slide way at bottom.

## Coconut Dewatering Machine



The coconut water sucking machine drills a hole on the surface of the coconut shell first, fine pipe with drill insert the interior of coconut and then vacuum pump sucks out the coconut water, whole process completely automatic. Preserve the original taste of coconut.

## Holding Tank



The tank can store coconut water

# Centrifugal Pump



This Pump serves the purpose of transporting cleaning and sanitary coconut water

# Duplex Filter



This filter is a multi-purpose filter device, which has the advantage of small bag side leakage probability, ensure the accuracy of filtration, and quickly replace the filter bag, the filter process without material loss.

# Paper Frame Filter



The paper frame filter is mainly suitable for filtering particles with a diameter of  $\mu\text{m}$ , to get the purest coconut water



# Coconut Meat Extraction Section

This machine can removes the hard shell via a rotating disc cutter, at least one operator is required to hold the coconut during the process.

## Coconut Desheller



This machine mainly used to wash coconut meat, under the combined operation of air bubble, surfing, hoisting and spray-ing. The flushing water can be reused after being filtered.

## Coconut Meat Washer



This machine serves the purpose of crushing coconut meat into small pieces, the high-speed rotational knife cut the coconut meat under powerful impact force crushing size as per request).

## Coconut Meat Crusher





## Screw Hoist

This screw hoist serves the purpose of hoisting and conveying the ground coconut meat for extracted coconut milk.



This machine can extract milk from white coconut meat by squeezing the meat via a rotating screw to obtain coconut milk that flow out of the bottom hopper and the coconut flour slides out from front slide way.



## Vibration Filter

This filter can remove big size solid particles from coconut milk.







## Holding Tank

The tank is used to store coconut milk



# Coconut Milk Purification Section

## Centrifugal Pump



This Pump serves the purpose of transporting cleaning and sanitary coconut milk.

## Centrifugal Separator



This separator has two types for different using purpose, one is separation type can harvest skim milk from raw milk and further remove the fine impurity particles, another is clarification type can only achieve the purification purpose to remove the residual fine particles.

## Holding Tank



This tank is used to store the purified milk

# Milk Beverage Blending System

## Centrifugal Pump

This Pump serves the purpose of transporting cleaning and sanitary coconut milk.



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## Mixing Tank

This tank is set to ensure the continuity of operation



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## Sugar Melting System

This system includes filter, pump, melting tank of which use to melt sugar and other accessories.



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This tank is used for shearing head for emulsify, quantity is determined by actual production needs

## Preparing Tank



This degassor can remove air while blending

## Degassor



This tank is used to store the milk beverage

## Holding Tank





# UHT Sterilizer Section

## Centrifugal Pump



This Pump serves the purpose of transporting the sanitary coconut milk or milk beverage.

## Holding Tank



This tank is used to store the milk or milk beverage.

## Homogenizer



The function of the homogenizer is to make the ingredients in coconut milk disperse more evenly and dissolve more fully

# Tubular Sterilizer



This equipment function is to kill bacteria and other harmful microorganisms in coconut milk.

# PLC controller for Sterilizer



This PLC controller can achieve the sterilizer automatic operation function by set the running parameters.

# Filling System

## ASCEPTIC FILLER



The purpose of this filler is to pack the sterilized coconut milk in a sterile environment so as to obtain a longer shelf life without preservatives and without refrigeration.

## Foil Sealing Machine



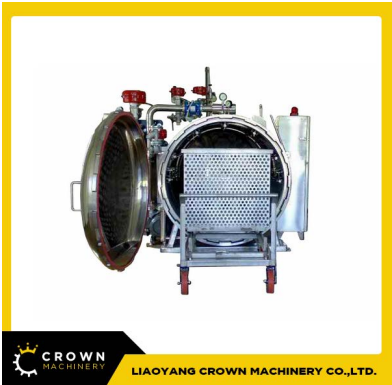
This sealing machine can seal the bottle with aluminum foil cover, to prevent air or liquid products overflow

## Bottle Conveyor



This conveyor can transfer the bottled milk product to next step.

# Retort



The function of this retort is to achieve the sterilization of the finished product.







# Auxiliary Equipments

## CIP Cleaning System

This system is used to clean all the tanks, all pumps and all pipelines.



## RO water treatment

The device can remove bacteria, viruses, colloids, organic matter and more than 98% dissolved salts through reverse osmosis



## Air compressor

This compressor can provide power by compressing the air to the associated equipment



## Steam Boiler

The boiler heat the water to produce steam which used in the sterilization process.



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## Conveyors

All kinds of conveyors are used to transport the coconut fruit



## Pipes and Valves Connectors

They are assembled to make the milk liquid flow in a closed space to keep sanitary.





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