Coconut Processing Technology
The Bepex S-press is industry-proven for continuous separation of coconut milk from solids. Fresh ground kernel enters the press and is conveyed using a double helix variable pitch screw to achieve liquid and solid separation through continuous volume reduction. The pressed coconut milk discharges from two drain ports located along the length of the press. As seasonal or geographical shifts impact the physical characteristics of coconuts an adjustable pressure resistance cone guarantees optimal back pressure is applied to the kernel for milk extraction.

The liberated coconut milk is typically pumped to a centrifuge for separation into skim milk and virgin coconut oil. After pressing, the remaining coconut kernel is discharged from the S-Press into either a secondary press for additional coconut milk removal or it is collected, dried and ground to the desired particle size.

Maximum milk yield is an important consideration for coconut processors. The Bepex RP Disintegrator is designed to offer the optimal product size for liquid and solid separation. It is a fixed hammer screen mill using closely held tolerances to ensure accurate and consistent particle size control. This results in material with an optimal surface area required for efficient removal of coconut milk.

Processing food grade ingredients requires purpose-built equipment that simplifies routine maintenance and cleaning. The Disintegrator is designed for fast disassembly and access to internal components. It is also manufactured to meet specific process demands including liquid-tight, pressure-tight and unique materials of construction. The efficient coconut kernel intake provides a pre-chopping step as the material enters the primary grinding chamber. A wide variety of screen sizes are available to optimize the milk extraction process.

Four model sizes with capacities ranging from 200 pounds to 50 tons per hour are available to meet your process demands.
**FINE GRINDING**

If the final product is coconut flour, the Belex Pulvocron is the best technology for your application. The Pulvocron is a high-speed impact mill with internal classification. Product characteristics are determined by operator adjustment of several mechanical parameters including rotor speed, air flow, and classifier speed.

Process air is often heated to simultaneously dry throughout the size reduction step. Chilled air is used if necessary to accommodate application requirements or to prepare the final product for packaging.

**RD DISINTEGRATOR**

The heavy-duty Belex RD Disintegrator excels in size reduction of copra prior to entry into a press for secondary oil removal. Size reduction before pressing exposes maximum surface area to increase secondary oil yields.

Coconut shells and dried fiber can also be ground in the RD Disintegrator. The optional secondary outlet discharges contaminants that can enter the RD along with the feed. Hinged doors ensure straightforward access to the RD screens and hammer stack.