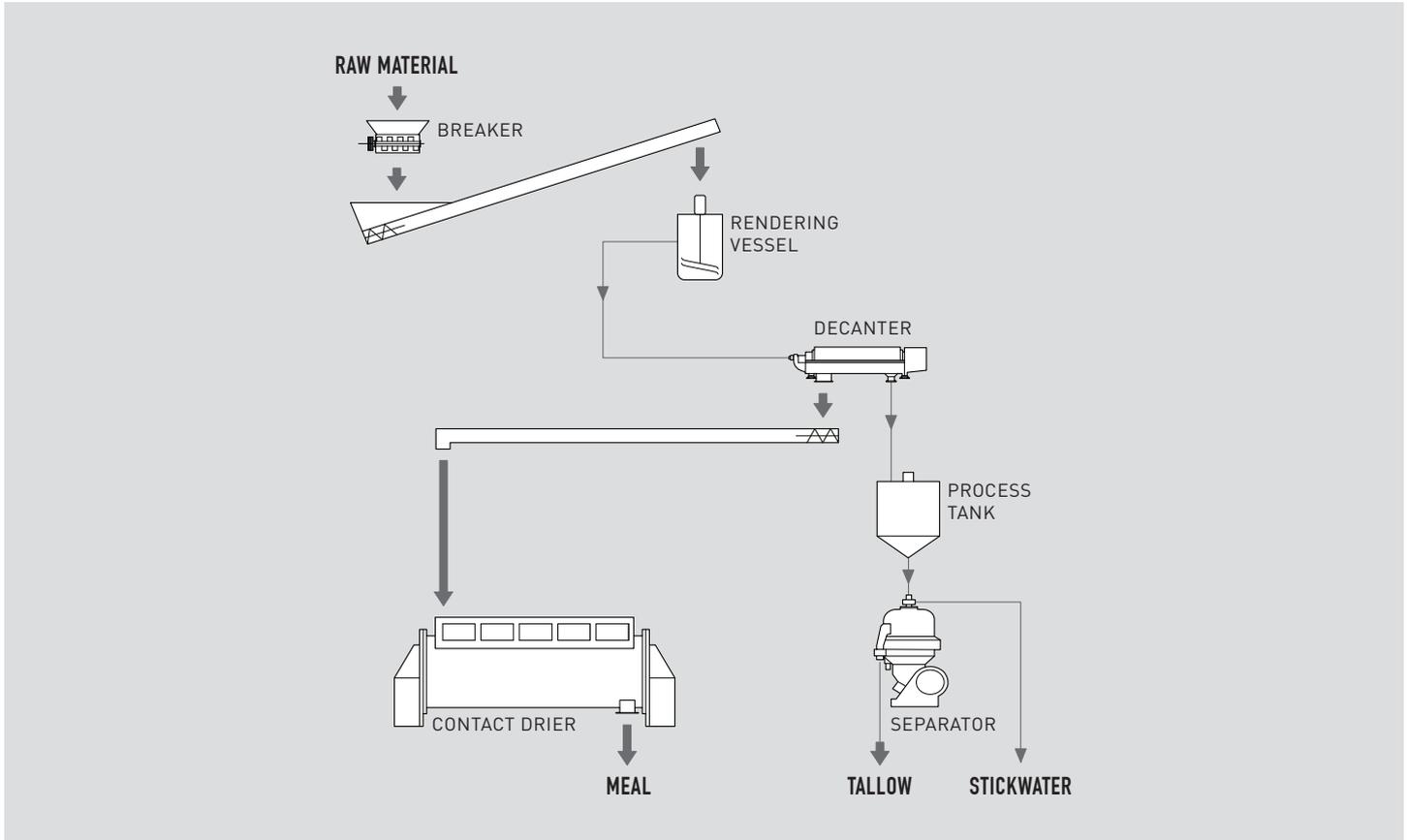


# CENTRIFUGE DEWATERING SYSTEM



RENDETECH



The Rendertech Centrifuge Dewatering System (CDS) is a low-temperature wet rendering process suitable for plant raw material capacities up to 8 tonnes/hr. The system produces quality products, has low energy consumption, and is simple to operate. The compact, versatile plant can process a wide range of raw materials. When fitted with a Rendertech Waste Heat Evaporator for stickwater recovery, the process is virtually 'zero waste', resulting in high product yield and low wastewater loads.

## FEATURES AND BENEFITS

A high-quality end-product with low energy consumption.

A compact plant that is well suited to lower production volumes.

A continuous automated process.

## PROCESS DESCRIPTION

### Raw material preparation

Pre-broken raw material is passed through a metal detector and fed into the Grinder. The minced material is then pumped to the Rendering Vessel.

### Rendering Vessel

The Rendering Vessel is a continuous indirect heat exchanger with an internal steam-heated coil. Heat transfer is through direct contact between the raw material and heating surface. Raw material feeds continuously into the Rendering Vessel, where rapid heating to 90–100°C coagulates the proteins and breaks down the fat cells. Temperature is controlled automatically by regulation of the steam supply pressure.



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### **Solid-liquid separation**

From the Rendering Vessel, material is pumped to a Decanter to have solids separated from the liquid phase. The liquid (fat and water) flows to the Separator Feed Tank. Acid is automatically added to the liquid, which is then reheated before final polishing in a disc Separator. The stickwater then flows to the Waste Heat Evaporator for further product recovery.

### **Drying**

The solids separated in the Decanter – which contain 50–60% moisture – are conveyed to the Contact Drier for drying. The meal leaving the Drier is ready for milling and screening.

### **Ancillary equipment**

Rendertech can provide ancillary equipment to suit the specific requirements of your site, including raw material preparation and storage, conveying, meal milling and storage, tallow storage, steam generation, heat recovery, odour control, and wastewater treatment.

### **OPTIONS**

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Standard designs from 3 to 10 tonne/hr

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Flexible layouts to suit available space

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Complete turnkey installation

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## **YOUR PROCESS PARTNER**

We are specialists in process and storage solutions, providing the products and technical expertise to get the best from your plant. For more information call for a no obligation chat about your processing needs.

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