



Conveying Solutions

Screw Conveyors for the Rendering Industry



Replacement Parts

In stock for immediate shipment



New Equipment

Lowest Total Cost of Ownership



Technical Service

Plant surveys and troubleshooting

Turning Byproducts Into Value

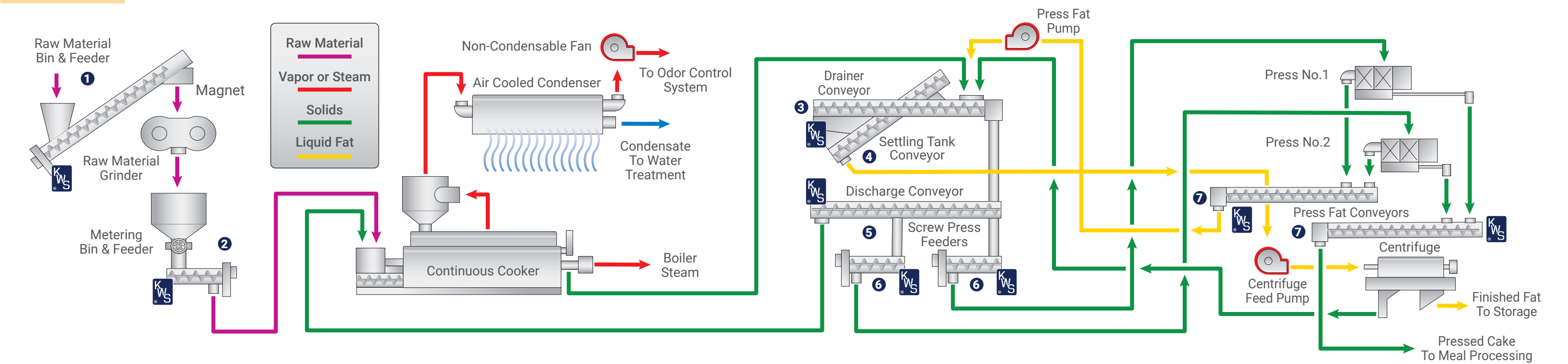
Rendering is a sustainable process that converts animal byproducts into valuable fats and proteins. Raw materials are collected, ground, conveyed and cooked to remove moisture and destroy pathogens. Fat and proteins are processed into ingredients for animal feed, pet food, biofuels, fertilizers and industrial products.

- **Reduces Waste** – Diverts animal byproducts from landfills.
- **Recovers Valuable Resources** – Converts fats and proteins into useful products.
- **Creates Renewable Fuels** – Rendered fats serve as feedstocks for biodiesel.
- **Supplies Industrial Markets** – Rendered fats are used in soaps, lubricants, and chemicals.
- **Creates Economic Value** – Turns low-value byproducts into marketable commodities.



From initial site visit to final commissioning, KWS provides **engineered solutions** that improve reliability, reduce downtime, and maximize parts and performance.

Rendering Process Equipment



Industry Leadership

KWS provides high-quality replacement parts and engineered solutions built for the abrasive, corrosive conditions common in the rendering industry.

KWS is an ISO 9001-certified manufacturer, with all components and assemblies made in the USA by highly skilled craftspeople. All KWS welders are certified to American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) standards.



Raw Material Bin & Feeder

Provides storage and metering of raw materials to Grinders.

Design and Construction

- Key-hole style troughs for large pieces such as heads or carcasses.
- Heavy-duty construction and high-torque drive units for handling upset conditions.

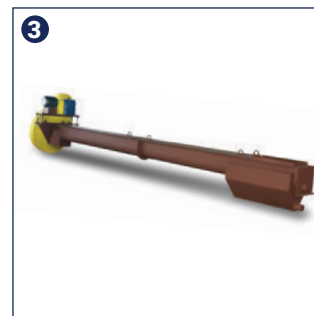


Metering Bin & Feeder

Provides storage and metering of ground raw material to Cookers.

Design and Construction

- Mass-flow screw design with variable-speed to provide accurate metering.
- Heavy-duty construction with special flared or U-trough design.

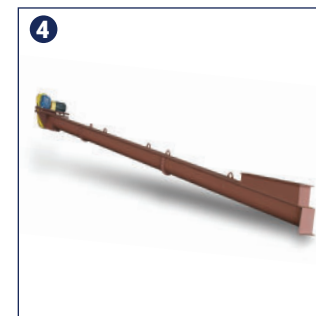


Drainer Conveyor

Separates liquids and conveys solids to Discharge Conveyor.

Design and Construction

- Special perforated trough separation of solids and liquids.
- Close-tolerance screw with short pitch to scrape solids from perforated trough bottoms.

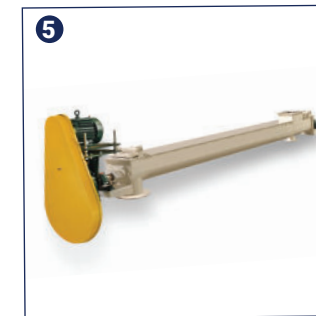


Settling Tank Conveyor

Further separates liquids and conveys solid fines to Discharge Conveyor.

Design and Construction

- Special hopper tank to separate liquid fat from solid fines.
- Low speed screw for efficient extraction of solid fines from tank.



Discharge Conveyor

Conveys solids from Drainer and Settling Tank to Screw Presses

Design and Construction

- Heavy-duty screw design with close-coupled and clocked screws on wear liners.
- High-torque drive units for handling upset conditions.



Screw Press Feeders

Meters solids from Discharge Conveyor to Screw Presses.

Design and Construction

- Mass-flow screw design with variable-speed to provide accurate metering.
- Heavy-duty construction with special tubular or U-trough design.



Press Fat Conveyors

Convey solids to meal processing. Solids are now called pressed cake.

Design and Construction

- Special perforated troughs for separating of solids and liquids.
- Heavy-duty screw design with close-coupled and clocked screws on wear liners.

Conveying Solutions

Screw Conveyors for the Rendering Industry

Stock Inventory

Large inventory of stock components for the Rendering Industry



Rendering Screws

Rendering Screws have 3/8-inch thick sectional flights continuously welded on both sides to schedule 80 pipe. 3-bolt drilling is included on both ends.

Part Numbers

9S424R80CW23B
12S624R80CW23B
14S624R80CW23B
16S624R80CW23B



Rendering U-Troughs

Rendering U-Troughs are 3/16-inch thick formed flange troughs with 1/4-inch thick AR-400 wear liners. The wear liners are stitch welded to the troughs for easy removal and replacement.

Part Numbers

TUF9316ARWL
TUF12316ARWL
TUF14316ARWL
TUF16316ARWL



3-Bolt Shafts

3-Bolt Coupling Shafts are precision cut and drilled to provide an exact fit with Rendering screws. A space is provided between the screw sections for a hanger and hanger bearing to support additional screw sections.

Part Numbers

CS23B
CS27163B
CS33B
CS37163B



3-Bolt Close Coupling Shafts are precision cut and drilled to provide an exact fit with Rendering screws. Screw sections can be butted together to form a continuous helix.

Part Numbers

CCS23B
CCS27163B
CCS33B
CCS37163B



3-Bolt End Shafts are precision cut and drilled to provide an exact fit with Rendering screws. End shafts are designed to accommodate a variety of shaft seal and flange bearing arrangements.

Part Numbers

ES23B
ES27163B
ES33B
ES37163B



Planning a retrofit, replacement conveyor, or plant expansion?
Schedule a KWS Consultation Today.



KWS Manufacturing Company, LLC
Conveying Solutions



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