

tailor-made engineering;
packaging & processing solutions



technical
brochure



OWL Innovative Technologies is a sub-brand of Aymaksan Ayla Makina Sanayi Inc.



1. Drum Decanting System;

The Drum Decanting System is a specially designed machine for transferring medium and high-viscosity oils, soaps, or similar raw materials from drums. A fully open circular drum filled with raw material is brought next to the machine's base using a pallet jack. The operator pushes the drum onto the drum platform, ensuring it sits on the platform aligned with the pressing mirror's axis. The machine is activated by the operator pressing the dual-hand safety start button. The silicone-sealed pressing mirror plate is then pressed against the raw material inside the drum by high-pressure hydraulic cylinders. To facilitate the decanting of the drum, a monobloc pump is installed on the pressing mirror for discharging the product. As the pressing mirror is pushed down, the product is fed into the pump inlet from above, while simultaneously being discharged out of the pump. Once the drum is completely emptied, the pressing mirror automatically retracts from the drum. Upon completion of the return stroke, the machine signals the operator, who then removes the empty drum from the platform and places a new filled drum in its place.



Machine Features

- ▽ **Robust Cage Structure Machine Frame:** The machine's sturdy and balanced main frame is made from epoxy-painted carbon steel NPU and platinum materials, designed to withstand high pressure.
- ▽ **Powerful Hydraulic System:** The drum decanting pressing mirror operates with high-pressure, multiple hydraulic cylinders, enabling it to discharge even high-viscosity raw materials smoothly.
- ▽ **Adjustable Operating Pressure and Product Discharge Rate:** The machine allows for discharge rates to be adjusted based on the viscosity and density of the raw material being processed.
- ▽ **Fully Safe Operation:** The machine's frame and operating system are designed in compliance with EHS standards, ensuring that it minimizes the potential for operator errors.
- ▽ **CE Certification Compliance:** The machine is manufactured in accordance with CE certification standards.
- ▽ **Reliable Spare Parts Support:** Standardized and quickly obtainable spare parts, backed by years of experience, ensure efficient after-sales service (ASS) and long-term, trouble-free operation.



Configurations

- ▽ Roller Drum Sliding Platform
- ▽ Toggle-Locked Metal Drum Wrapping Jacket for Decanting Viscous Raw Materials
- ▽ AC Driver for Adjusting Pump Discharge Volume
- ▽ Protective Cabinet with EHS-Compliant Safety Cage
- ▽ PLC-Controlled Automation Console with 7" HMI Operator Panel
- ▽ Smart PC (Industrial PC) for ERP-Communicating Formulation-Supported Automation
- ▽ Interchangeable Pressing Mirror for Different Diameter Drums
- ▽ AISI 304 SS Frame According to Operating and Usage Conditions
- ▽ AISI 316 SS Material in Areas in Contact with the Product
- ▽ Reinforced Protection for Ex-proof Areas
- ▽ Explosion-Proof Equipment
- ▽ ATEX Certification
- ▽ Other Custom Configurations Based on Project Requirements
- ▽ Compliance with Standards for Different Sectors and Products