

MURZAN

DRUM UNLOADING SYSTEM



The Murzan DUS-50 is the ultimate solution for emptying the most viscous materials from 55-gallon drums or containers of any shape. When used in applications which no pump alone could handle, the system empties the containers quickly and cleanly without adding any pressure to the product or the container. The system is FDA listed and USDA approved.

Construction

The Murzan DUS-50 system utilizes a T-316L stainless steel, sanitary Double-Suction Murzan Diaphragm pump. This pump is mounted on a food grade plastic base plate and is fitted with a food grade scraper ring which cleans the inside of the drum or container as it is emptied. The pump and base are supported by a frame constructed of T-304 stainless steel.

The system is equipped with two air cylinders which lift the pump and base out of the drum or container once it is empty. At the end of the stainless steel roller feed conveyor, there is a bi-directional roller that aligns the drum. The system has capacity for two drums. Sanitary casters are installed for portability to allow use in different unloading areas. A Nema 4X stainless steel Control Panel is supplied with this unit.

Operation

The operation of the system is very simple. With the drum in place, the compressed air in the bottom of the air cylinders is released, and the pump is lowered into the drum. The pump and base plate will float on the surface of the product. As the product is pumped out of the container, the pump and base plate travel down into the drum wiping the wall of the drum. Once the drum is empty, air is directed back into the bottom of the air cylinders and the pump is lifted out.

Capacity

Capacities up to 60 gallons per minute may be achieved, depending on the specific gravity, viscosity, consistency of the product, and the total dynamic head (TDH) of the application.

Advantages of the Murzan DUS-50

- Empties 55-gallon drums of the heaviest and most viscous products, such as 33° Brix tomato paste, in less than 3 minutes, without adding water.
- Unloads drums with liners or aseptic bags.
- Provides completely sanitary, hands-off method of drum unloading.
- Simultaneously meters or weighs product during unloading, if desired.
- Fully portable or stationary.
- Is designed for CIP capability.

Applications

Food

- Tomato Paste
- Peanut Butter
- Mayonnaise
- Chocolate Fudge
- Cream Cheese
- Lecithin
- Fruit Filling
- Raw Honey
- Corn Syrup
- Shortening
- Jams & Jellies
- Cookie Filling
- Almond Paste
- Raisin Paste
- Soup Base
- Eggnog Concentrate

Cosmetic

- Facial Creams
- Toothpaste
- Gels
- Mascara Base
- Skin Cream
- Suntan Lotion Base

Pharmaceuticals

- Lanolin
- Vaseline
- Ointments
- Magnesium Hydroxide
- Petroleum Jellies
- Barium Materials
- Pharmaceutical Perfumes

For more information or to inquire about a customized system, contact the factory or your local Murzan distributor.

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