

# MURZAN

BIN UNLOADING SYSTEM, TUS-50



**The Murzan TUS-50 is the ideal solution for emptying up to 300 gallon containers of highly viscous, and/or heavy materials, applications which no pump alone can handle. This system quickly empties and cleans TOMATO PASTE containers without putting any pressure on the product or the container.**

## Construction

The Murzan TUS-50 system consists of two T-316L stainless steel, double-suction sanitary Murzan PI50 diaphragm pumps. These pumps are mounted on a food grade plastic base and fitted with a food grade wiper that cleans the inside of the container as it is emptied. The pumps and base are supported by a polished T-304 stainless steel frame. The system is equipped with four air cylinders which lift the pumps and base out of the container once it is empty. All pneumatic/electric controls are contained in a Nema 4X stainless steel control panel.

## Capacity

Capacities up to 30 gallons per minute may be achieved, depending on the specific gravity, viscosity and consistency of the product and the total dynamic head (TDH) of the system.

## Operation

The operation of the system is very simple. With the container in place, the compressed air in the bottom of the cylinders is released, and the pumps are lowered into the container. The pumps and base plate float on the surface of the product. As the product is pumped out of the container, the pumps and base plate float down with the level of the product remaining in the container. Once the container is empty, air is directed back into the bottom of the air cylinders and the pumps are lifted out.

## Advantages of the Murzan TUS-50

- Empties 300 gallons of the heaviest and most viscous products, such as 33° Brix Tomato Paste in less than 12 minutes without adding any water, offering perfect control of the Tomato Paste Unloading.
- Completely sanitary, hands-off method of bin unloading.
- USDA listed.
- 3A Components.
- Unit is offered with optional metering capabilities.
- Customize the unit to the shape of your containers.

## MURZAN IN-LINE DILUTION SYSTEM

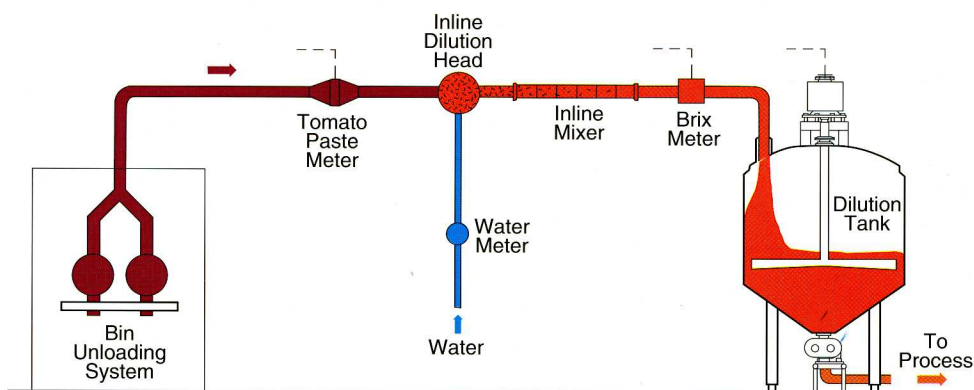
Incorporate the Murzan TUS-50 with the Murzan In-Line Dilution System

**Increase your profit** and reduce your capital investment by installing a Murzan In-line Dilution System, eliminating the necessity of numerous batch tanks with expensive agitators. At the same time, you are saving plant space as well as maintenance and daily cleaning costs.

**Increase your Tomato Paste yield:** with a Murzan Automatic In-line Brix Control System. Any excess refractive index (Brix Value) over the required °Brix is money lost and represents decreased profits per case.

**Increase plant capacity:** Tomato Paste dilution and standardization is accomplished at the same time as the unloading process is done, thus, reducing your batch cycle time by half. A perfect standardization of the final product is obtained. **NO LUMPS.**

For more information contact Murzan's Engineering Department.



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