



Automated

Discharge Systems

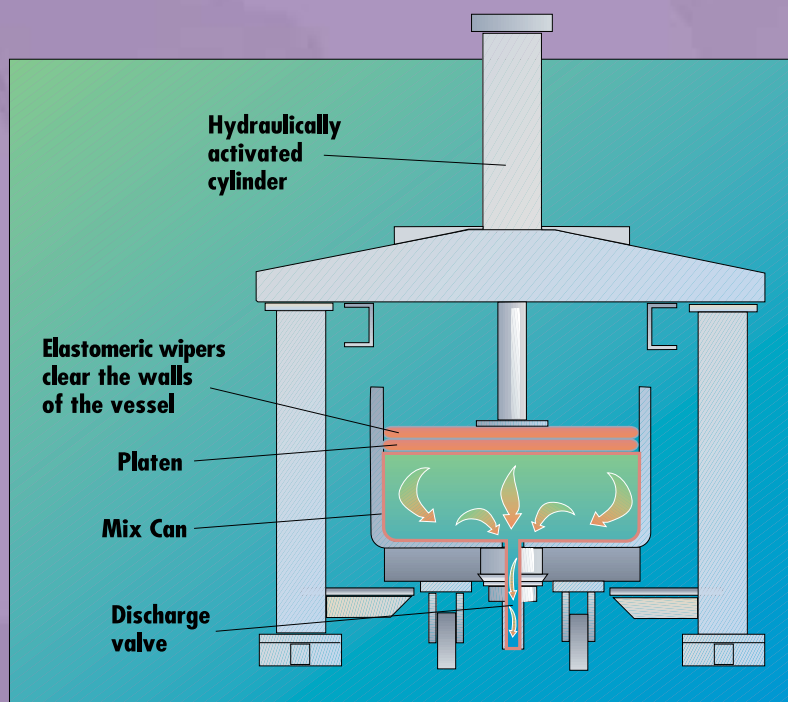
# Ross Discharge Systems

## THE WORLDWIDE STANDARD FOR DESIGN AND INNOVATION

Ross is a leading manufacturer of Automated Discharge Systems for use with Change Can Mixers. We operate five plants in the USA, along with Ross owned and licensed plants in Europe, Asia, the Indian Sub Continent and Africa. Our Discharge Systems are built from 1 quart to 1000 gallon capacity and all models can be fully automated.

## AVAILABLE FOR FAST DELIVERY

We maintain a large inventory of mixers and discharge systems to provide you with the equipment you need, when you need it.



With the Change Can positioned beneath the Discharge System, a stainless steel platen is lowered hydraulically into the vessel. The product is forced out through a valve in the side or bottom of the vessel, or through the top of the platen. For the discharging of thermoplastic materials, the platen may be jacketed for heating.





# Automated Discharge of Viscous Products

A Ross Discharge System can eliminate wasted hours scraping heavy or sticky materials from a mix vessel. With push-button simplicity, the system can automatically discharge a 1000-gallon batch in minutes — into bulk containers, filling or packaging equipment, an extruder, or a two or three-roll mill. The system easily handles non-flowing products up to several million centipoise. By combining the Discharge System with a set of interchangeable mix vessels, you can make your operation even more productive. Change Cans from multiple mixers can be rolled to the Discharge System for fast discharge, then rolled away for cleaning as the next Change Can is positioned for discharge. This flexibility can boost production on several process lines, all working with a single Discharge System.

The Ross Discharge System improves plant safety, because it lowers the risk of injury while scraping heavy materials from the mix vessel. It also reduces the operators exposure to the batch material, while it helps to minimize the release of vapors into the plant atmosphere. Ross Discharge Systems are available for use with Ross mixers and for mixers built by many other manufacturers. Many options are available to suit the special requirements of virtually any application.



### **Sanitary 4 gallon Lab Model –**

*For applications involving pharmaceuticals, cosmetics, personal care or food products, we offer a Sanitary design for full GMP compliance with an all-stainless-steel support structure.*



### **Standard 2 gallon Lab Model with Mixer on common bench –**

*The lab models are often mounted with a dedicated mixer system on a common bench.*



**Elevated Production Model –** Ross provides Discharge Systems in a variety of configurations. Our Elevated Discharge System raises the change can for discharge and allows room for a receiver to be positioned beneath the vessel. Standard sizes are available from 10 through 1000 gallons.

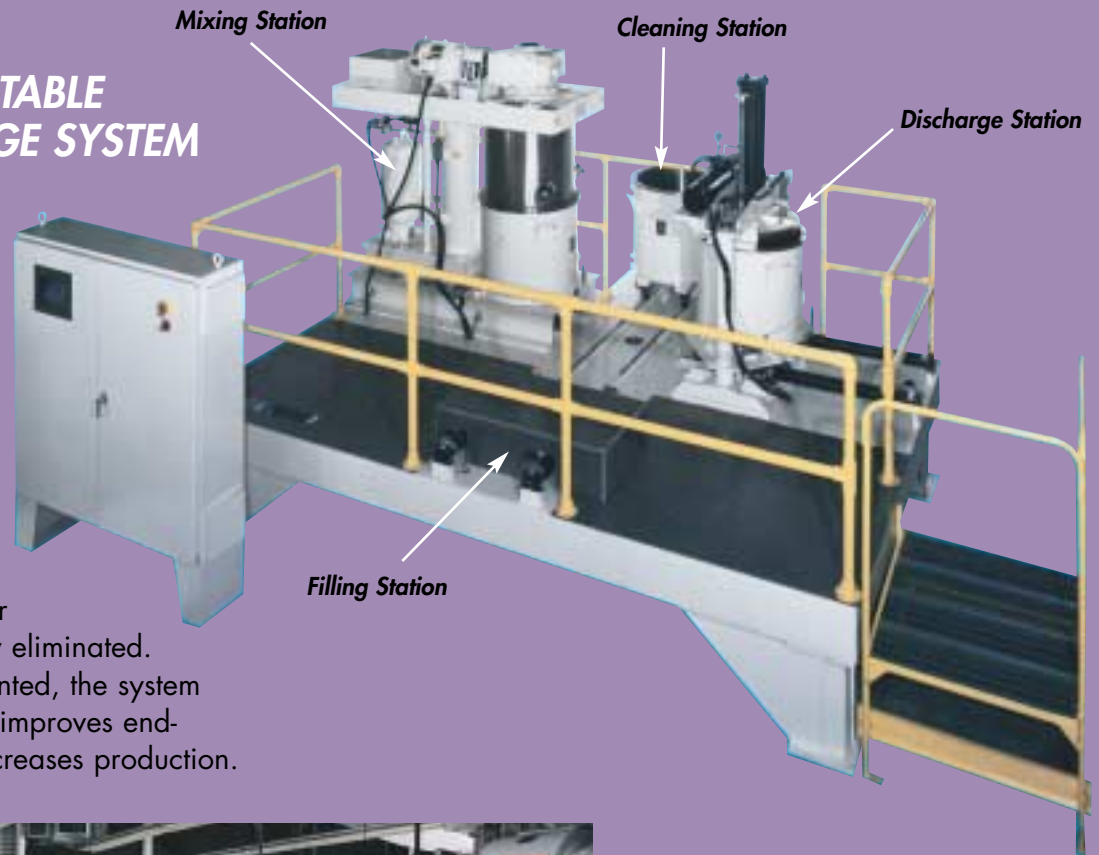


### **Cartridge Filling Adapters with Cove Plug valve –**

*Laboratory Discharge Systems, are available in sizes from 1 quart to 4 gallons. Mix cans are available with either a flush bottom ball valve or a Ross cove cut plug for direct-filling into cartridges or syringes.*

## INTEGRATED TURNTABLE MIXING/DISCHARGE SYSTEM

An automated turntable mixing system can make your change can mixing process more productive. As the turntable indexes, the change cans cycle through a sequence of charging, mixing, discharging and cleaning. With a complete control system and material handling package, operator intervention can be virtually eliminated. Compact and platform-mounted, the system can cut labor costs while it improves end-product consistency and increases production.



## CUSTOMER TEST CENTER

Before you buy a discharge system take advantage of our Test and Development Center to run your ingredients in the mixer/discharge system of your choice, and simulate actual conditions on your own process line.



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## TYPICAL APPLICATIONS

- Plastics
- Pharmaceuticals
- Cosmetics
- Adhesives
- Sealants
- Dental Composites

Learn more about the Ross Discharge System – and all the other equipment Ross offers for mixing and blending – by visiting our website: [www.mixers.com](http://www.mixers.com)