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SPECIFICATIONS FOR AUTO LOADERS

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ITEM

An Auto Loader to be mounted on selected Crafco EZ Pour and Super Shot Melters*.

INTENT

These specifications describe features that shall be required in an Auto Loader. The unit shall be pre-assembled and ready for easy installation with minimal hook ups.

PURPOSE

This equipment shall be used to convey Crafco sealant blocks to the Crafco Melter from the back of a tow vehicle.

GENERAL

A powered Auto Loader runs from the loading hatch on a Melter over the front of the trailer to the towing vehicle. The Auto Loader will have a weather proof-operating switch at the vehicle end and at ground level on the curbside of the melter. Sealant blocks are placed on the Auto Loader and fed to the melter as needed. The loading hatch will be equipped with a splash resistant loading tower that will automatically close as sealant blocks are dropped. The system may be field installed on selected Melters. The Auto Loader kit should be capable of conveying standard Crafco sealant blocks without any further equipment modifications. Sealant blocks weighing a maximum of 30 pounds is recommended when using the Auto Loader system. Crafco will maintain a complete inventory of repair parts as well as having experienced service personnel for technical assistance. An authorized Crafco employee and/or distributor will be made available for initial start-up and training in the operation of the Auto Loader.

ELECTRICAL

The Auto Loader will have an operator control at the loading end and at curbside. The loading end control has a momentary "ON" switch, emergency stop button, and a "FOR-REV" switch. The "ON" switch must be held in the on position to power the Auto Loader. The "EMERGENCY STOP" button is provided to prevent the Auto Loader from being activated with the curbside switch while it is being loaded. The sealant blocks are placed on the Auto Loader and the momentary switch activated to move the sealant blocks forward. The curbside control is equipped with a momentary "ON" switch and an "ON-OFF" switch. The curbside "ON-OFF" switch must be in the "ON" position for the Auto Loader to operate. The curbside momentary "ON" switch is used for dispensing the sealant block after the Auto Loader is fully loaded. The electrical enclosures are waterproof to protect the electrical components from the environment. The electrical circuit will be protected by a circuit breaker for added protection to the equipment. The Auto Loader is hydraulically driven and controlled by a four-way valve. The valve is activated by an electric solenoid.

SPLASH PROOF BOX

A low profile top loading splash prevention box shall be required at the top of the material tank and located on the curbside of the machine for operator safety. The splash prevention box will mount to the existing melter opening. Once located on the opening, the box may be stitch welded or bolted in place. The splash prevention box will be equipped with a loading tower that will automatically close as the sealant blocks are dropped from the Auto Loader. The inner doors will pivot inside the loading tower and swing closed after the sealant blocks pass. A lid shall be provided on the loading box to be closed when the Auto Loader and melter are not in use. A handle is attached to the side of the lid for safety. The operator will be able to open the lid on the splash prevention box without climbing on the melter. The splash prevention box has an adjustable mounting plate for the Auto Loader support.

AUTO LOADER BELT

The belt is white friction surface butyl material that can withstand temperatures up to 500 degrees F. The belt should be able to hold weights up to 800 lbs.

ROLLER AUTO LOADER

1. Drive pulley: 4' dia. with 1 3/16" dia. shaft crowned and fully lagged.
2. Tail pulley: 4' dia., crowned, with 1 3/16" dia. Shaft.
3. End drive: All direction operational.
4. Take-up: 12" belt screw type take-up.
5. Bearings: Precision, heavy duty, lubricated, ball bearing units with cast iron housing.
6. Belt speed: 13 F.P.M.
7. Return rollers: 1.9" dia., Adjustable.
8. Bed: Sections attached with couplings and floor supports, 10-gauge channel frame.
9. Squaring rods: Adjustable rods on underside of bed allow frame to be squared for improved belt tracking.
10. Roller chain: Drive pulley is driven by No. 60 roller chain with a take-up provided on motor base.
11. Heavy-duty supports: Supports are lagged to the mounting plate on the melter, 12" adjustable supports for fine-tuning.
12. Motor drive: Hydraulic motor.
13. Chain guard: Chain guard bolted to the hydraulic motor for more support.
14. Guard rails: 3/4" tubing rolled formed.

FRONT MOUNTING PINTLE PLATE

The front mounting pintle plate will bolt to the trailer hitch plate. By bolting the plate on to the hitch plate, no welding or drilling to the trailer frame is necessary. The deflection of the plate shall not exceed 0.0017 inch and structurally hold a 600-pound load.

*See individual specifications.