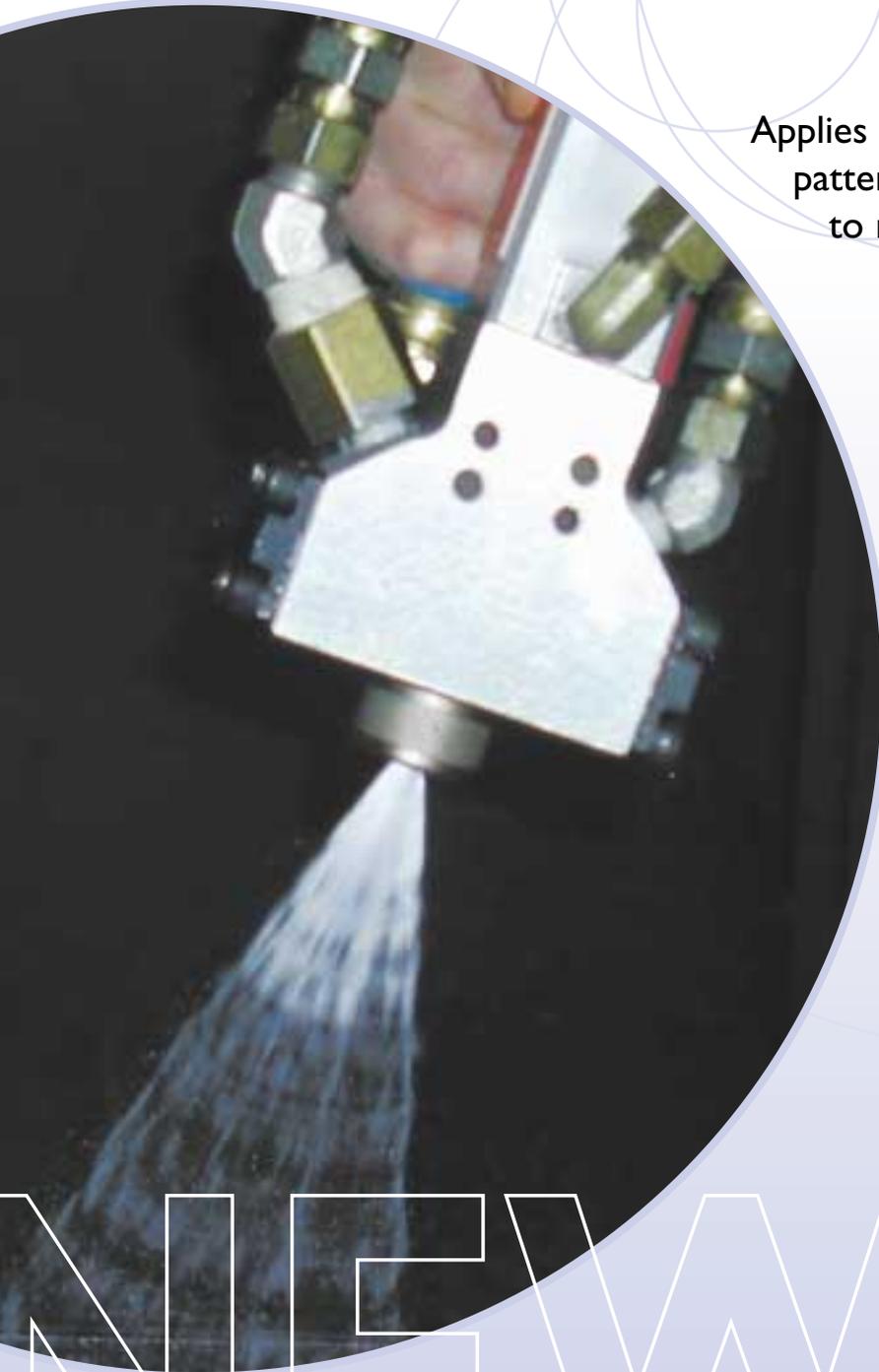




MiniRim Spray Mixheads



Applies a wide path instead of a narrow pour pattern for rapid coverage of polyurethane to mold surface.

Maintains accurate temperature control by recirculating chemicals back to source.

Mechanically self-cleans after each application.

For most open molding applications.



NEW!

Recirculating RIM Spray MixHeads

Recirculating RIM Spray Heads can be used with Gusmer-Admiral's RIM Metering Systems.



Closed or open-pour molding of broad-shaped polyurethane parts currently requires multiple or complex pour paths in order to fill with enough mixed material to reach the extremities of the mold. The time required for material expansion adds to the pour-path time.

Spraying a wide pattern instead of pouring a stream covers far more surface area per inch of robot travel. However, the method currently in use (an altered version of a standard mixhead designed for pouring) requires flushing with water or air.

Gusmer-Admiral has developed a new line of recirculating spray heads. The first head incorporates a 6mm rod diameter. These heads are designed to mechanically self-clean, eliminating the need for flushing. Fluids are continually recirculating through the mixing rod slots identically to RIM pour heads to assure accurate conditioning and eliminate cold shots at start-up. In the future, all Admiral standard high-pressure metering systems will accommodate these new spray heads.

The spray tip is designed to be assembled or disassembled without exposing any chemical to the atmosphere. A variation of tips will be available as testing progresses to develop spray patterns of varying width in either fan or round configuration. All tips and retainers coming in

contact with mixed material are treated with a non-adhesive coating to improve cleaning.

The Gusmer-Admiral MiniRim Spray Head expunges all mixed material out of the chamber through the tip slot. The rod is actuated using a double-acting hydraulic cylinder, proven successful over the years with GAI mixheads. Means are provided for a proximity switch to sense head opening for program requirements, problem diagnosis, and alarms.

The product line fits nicely in the scope of Gusmer-Admiral available wet systems. Applications are found in the automotive, furniture, construction, and recreation industries, minimizing application time and simplifying maintenance.



INNOVATIONS:

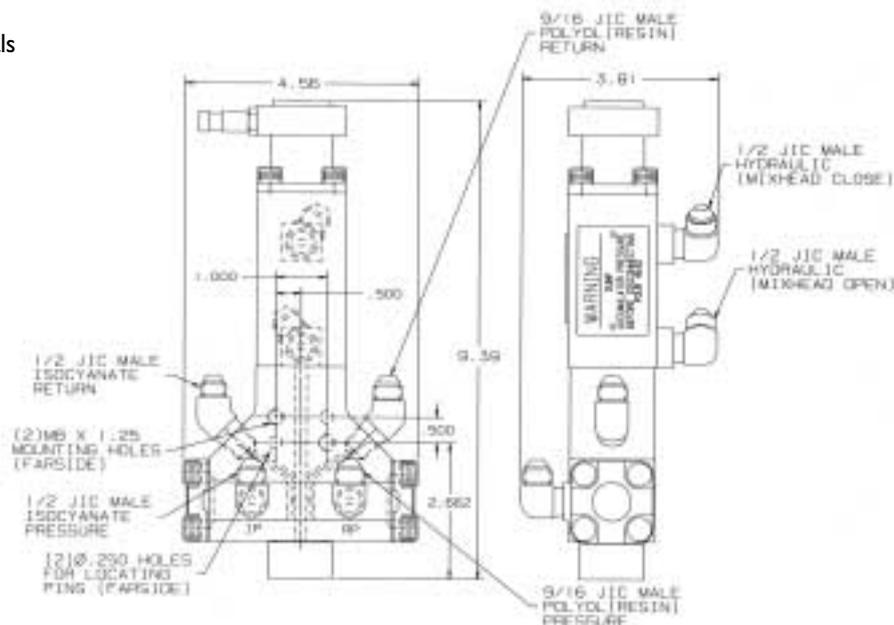
- Maintains temperature control through recirculating chemicals back to source.
- Incorporates all the characteristics of Gusmer-Admiral RIM mixheads.
- Mechanically self-cleans at the end of each application.
- Adapts to most RIM metering systems.

USE IN AUTOMATION:

- Automotive panel manufacture
- Building panel manufacture
- Elastomeric coating
- Pipe and panel lamination
- Most polyurethane open molding applications

ADVANTAGES:

- No "cold spot" upon initial actuation due to recirculation.
- Applies wide path instead of a pour pattern to effect more rapid application of polyurethane to the mold surface.
- Maintains commonality with GAI mixhead components and RIM power systems.
- Mechanically self-cleaning; no solvents required.
- Light-weight with mounting access for robot or manipulator.
- Eliminates element-heated hoses, uses standard high-pressure hoses that recirculate the chemicals through heat exchangers for accurate temperature control.
- Totally hydraulic operation to avoid valve sticking.



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