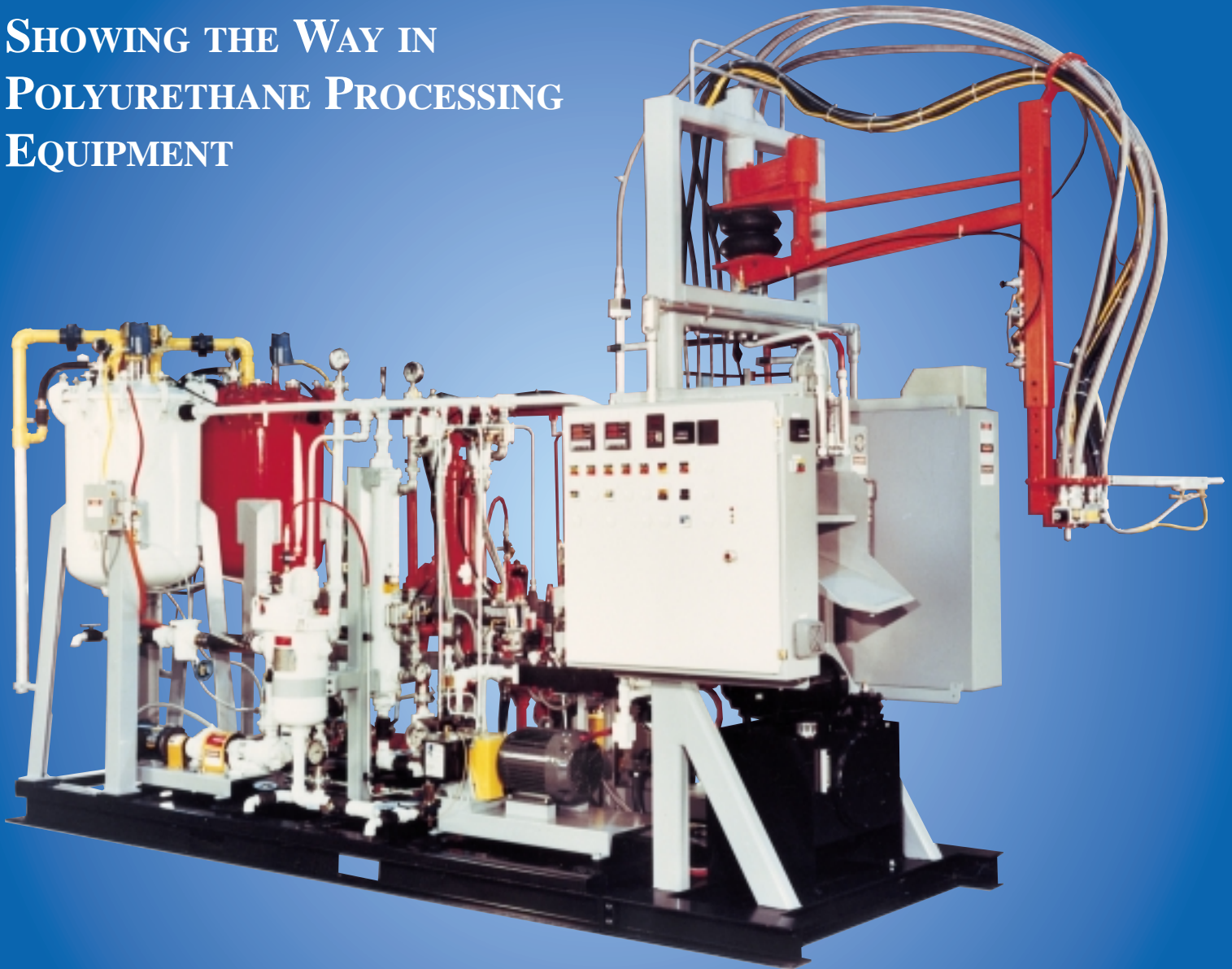




HPP Series

SHOWING THE WAY IN
POLYURETHANE PROCESSING
EQUIPMENT



Turnkey Production Lines



High Performance Mix Heads



Bulk Storage Systems

DESIGN SERIES
PUMP DISPENSING SYSTEMS



HPP Series

The "Design Series" pump dispensing system is engineered for accuracy, dependability and versatility for production of flexible and rigid polyurethane products such as:

- Bumpers
- Instrument Panels
- Energy Absorbing Foam
- Sound Deadening Foam
- Refrigerator/Freezer Cabinets and Doors
- Entry Doors
- Building Panels
- Body Panels
- Seats
- Steering Wheels
- Interior Trim Parts
- Vending Machines
- Garage Doors
- Roofing Panels
- Cooler Panels



STANDARD FEATURES

Modular Construction

- Single stream configuration allows standard modules to be assembled with options for a custom design.
- All skid mounted units fit a constructed length, width and height envelope.
- Modules fit sea containers.

Easy Installation and Maintenance

- All electrical control and air connections are quick disconnect.
- Control instruments are accessible and readable.
- All components are within an easy 21 inch reach.



Metering System

Safety Conscious Design

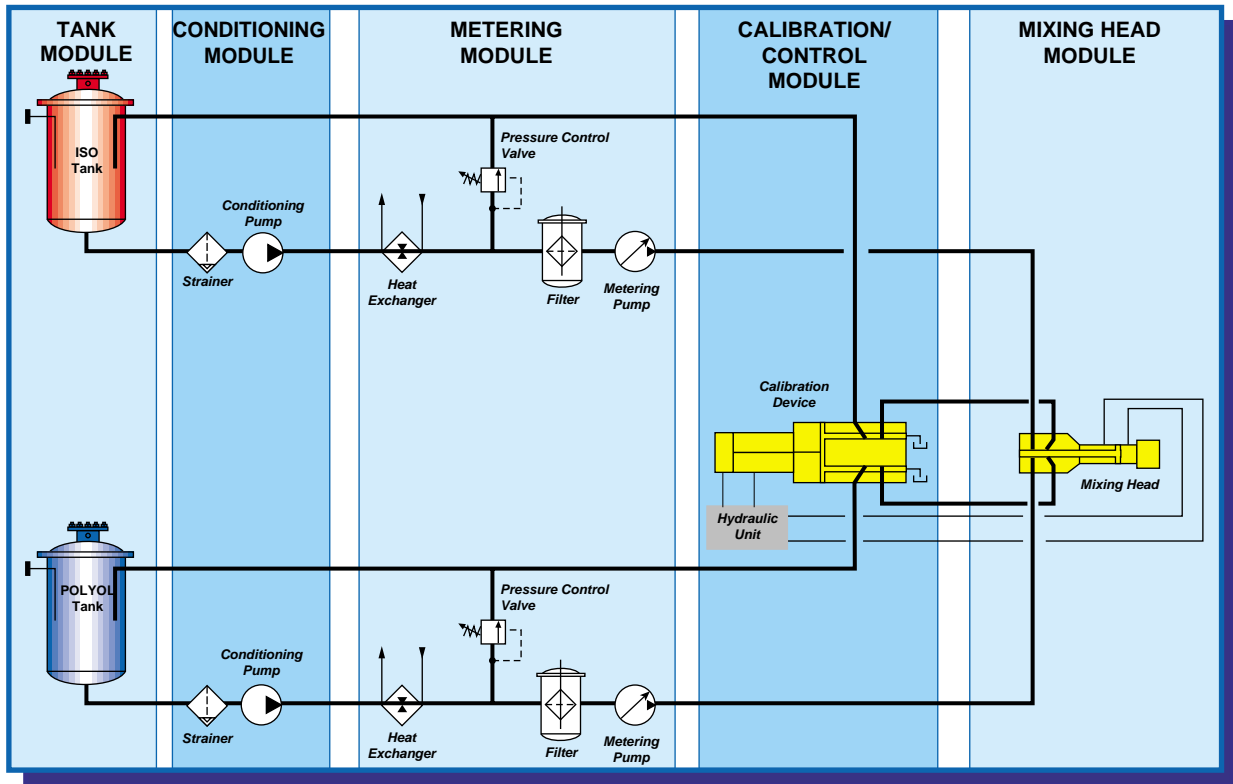
- Use of the latest seal and fitting technology reduces worker exposure to chemical leaks.
- Electrical design and fabrication complies with ANS/NFPA 79 and 80 codes.

Standard or Customer Design Flexibility

- Modules and options can be customized to meet specific customer plant space and processing requirements.
- Standard configurations can be selected to obtain economical processing capability.



Operator Interface

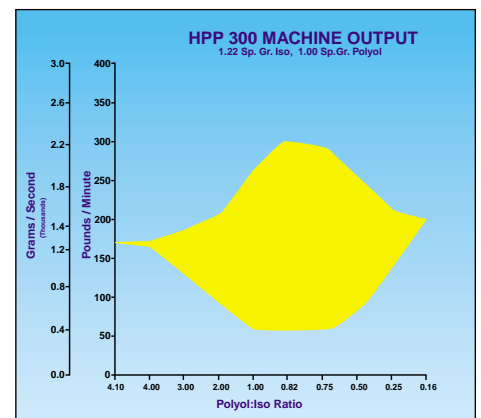
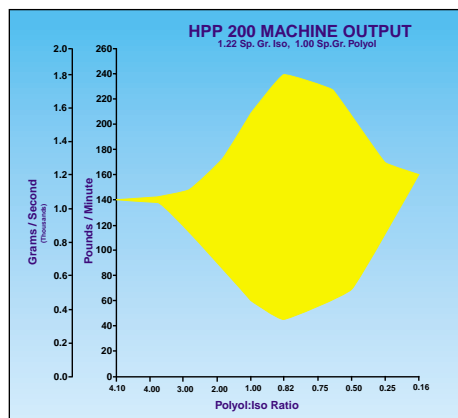
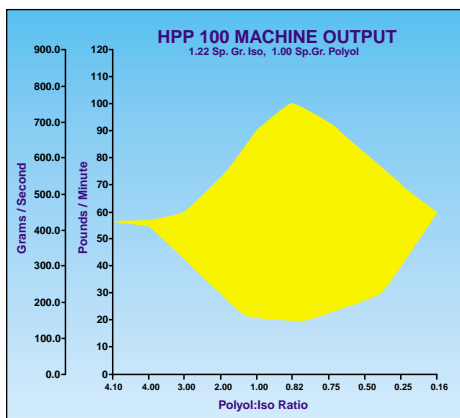


Design Series Modules

The “Design Series” features pre-engineered skid mounted modules that can be mixed and matched for throughputs ranging from 15 lbs/min to 300 lbs/min. The tank module, conditioning module, metering module, calibration/control module, and mixing head can be placed to meet customer plant dimension requirements or set in series as shown in this brochure.

Three levels of electrical controls have been developed as standards to meet a variety of customer needs. Level 10 provides basic mix and meter control at an economical price with limited options. Level 100 provides additional options such as two speed motors or variable speed metering pump drives. Level 1000 features the most sophisticated control with options such as SPC data acquisition, closed loop calibration, or control of three or more process streams.

Standard Machine Capacities



HPP Series

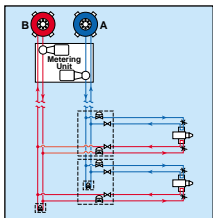
HPP Series

TECHNICAL SPECIFICATIONS

| Machine Type: | HPP 50 | HPP 100 | HPP 195 | HPP 200 | HPP 300 |
|--------------------------------|---------------------|---------------------|----------------------|----------------------|-----------------------|
| Weight: | | | | | |
| Tank/Cond. Module: | 2200 lbs/1000 kg | 2200 lbs/1000 kg | 2400 lbs/1090 kg | 2600 lbs/1180 kg | 2700 lbs/1225 kg |
| Metering Module: | 2200 lbs/1000 kg | 2200lbs/1000 kg | 2600 lbs/1180 kg | 2700 lbs/1225 kg | 3000 lbs/1360 kg |
| Calibration/Control Module: | 1200 lbs/544 kg | 1200 lbs/544 kg | 1250 lbs/567 kg | 1300 lbs/590 kg | 1350 lbs/615 kg |
| Power Requirements: | | | | | |
| | 52 amps (42 kva) | 60 amps (48 kva) | 100 amps (80 kva) | 112 amps (90 kva) | 130 amps (140 kva) |
| Plant Air Requirements: | | | | | |
| | 4 scfm @ 80 psig | 4 scfm @ 80 psig | 4 scfm @ 80 psig | 4 scfm @ 80 psig | 4scfm @ 80 psig |
| H/C Unit Recommended: | | | | | |
| | 4.5 ton 12 kw | 4.5 ton 12 kw | 10 ton 18 kw | 10 ton 18 kw | 15 ton 18 kw |



Raw Material Tanks



Multi-Station Ringline



Color Dosing Unit

OPTIONAL FEATURES AVAILABLE

- Day Tank capacity options (20,60, or 120 gal. std.)
 - Air Operated tank agitators
 - Mixing head support boom
 - Dual filters in parallel
 - Straight or L-shaped self-cleaning mixing head (10)
 - Laminator option (10)
 - Electric tank agitators (single speed) (10)
 - Remote pour box (10)
 - Universal pour interface (10)
 - Automatic refill from drums or bulk storage (10)
 - Two mixing heads
 - Magnetically driven conditioning pumps
 - Magnetically driven metering pumps
 - Delete conditioning modules (10)
 - Two hardware pour times (10)
 - Two speed motors for metering pumps (100)
 - Multiple mixing heads (one to eight) (100)
 - Up to 32 pour timers (100)
 - Variable speed metering pump drives (100)
 - Process monitoring package (1000)
 - SPC data acquisition capability (1000)
 - Automatic nucleation system
 - Closed loop calibration (1000)
 - Multiple stream (more than two) (1000)
 - Redundant conditioning and metering pumps
 - Variable speed electric's (1000)
- (Electric Control Level Shown in Parenthesis)



DeltaRim Series Metering Units are available for processing filled or high viscosity RIM, SRIM, and RRIM systems.

A subsidiary of
The Gusmer Machinery Group, Inc.



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Call Toll Free:
1-800-746-1330

WARNING: The equipment described herein must only be operated or serviced by properly trained individuals, thoroughly familiar with the operating instructions and limitations of the equipment.

NOTICE: All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty or responsibility of any kind expressed or implied. Statements or suggestions concerning possible use of GUSMER-ADMIRAL Equipment are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. NOTE: All standard and service specifications identified on the GUSMER-ADMIRAL technical sales filer are based on U.S. standards.