HFR Metering System
Hydraulic Fixed Ratio Metering System

Ashby Cross Company Inc.
PROVEN QUALITY. LEADING TECHNOLOGY.
The rules have changed

The versatility of the Graco HFR Metering System™ promises to redefine the marketplace. That’s because this hydraulic, fixed ratio metering system processes multiple materials—from rigid and flexible polyurethanes to elastomers and epoxies. And its modular design, combined with Graco technologies and precision dispensing capabilities give you a system that is advanced and reliable, yet affordable.

Accurate, on-ratio dispense means less waste, more profits

With the Graco HFR Metering System, you accurately hit a specific ratio and volume—first time, every time. As the machine dispenses material, it automatically fine-tunes and adjusts to achieve a consistent material flow or pressure. With a ±1% ratio accuracy, you reduce scrap and rework with accurate, on-ratio dispensing.

More technology for less capital investment

The Graco HFR Metering System is a high-quality meter, mix and dispense system that offers more technology and functionality—at a lower price than traditional custom RIM systems. A low initial investment allows you to participate in the marketplace where it may not have been possible before.

You benefit from a lower total cost of ownership

The system’s horizontal pumps can be rebuilt at your facility, eliminating costly rebuilds and the need for backup pumps. Less downtime, reduced maintenance costs, and lower parts inventory mean more profits for your company.
Graco HFR Metering System

- Fully configurable – simply select what you need for your material and application

**Modular design gives you exactly what you need**

A modular design gives you the freedom and flexibility to configure the components that are essential for your specific application requirements – no more, no less. Standard configured equipment can be delivered to your door much faster than a custom solution. Plus it’s easier to use and service than custom equipment because you use standard parts. And with Graco’s established global distribution network, service is there when you need it.

**Motor Control Module**

- In constant communication with the Advanced Display Module, the Motor Control Module makes real-time adjustments to deliver a highly precise dispense.

**Advanced Display Module**

- Provides easy setup, monitoring and system diagnostics
- USB drive for data reporting
- Stores 100 shot sizes and five sequences of 20 positions each

**Power Distribution Box**

- Modular assembly replaces complex wiring

**Graco Z-Series Horizontal Pumps**

- Provide precision control to eliminate pressure spikes
- Positive displacement pumps are easy to service with easy-to-replace cartridge packings, seals and pumps seats

**IsoGuard Select™ System**

- Prevents isocyanate crystallization – less maintenance, more uptime

**Compact Design**

- Small footprint saves valuable space in your plant
- 48W x 34D x 59H in (122 x 150 x 86 cm)

**Fully Configurable**

- Select what you need for your material and application – no more, no less
- Shorter lead time than custom solutions
- Standard wear parts are quickly available
## Technical Specifications

### Dimensions
- 48W x 69H x 34D in (122 x 150 x 86 cm)

### Mix ratio range
- Fixed ratio, 1:1 to 16:1, shot to continuous flow

### Ratio tolerance range
- Up to ±1%

### Fluid filtration
- 20 mesh standard

### Flow rates
- Minimum: 0.12 gpm (7.5 cc/s)
- Maximum: 5.0 gpm (316 cc/s)

### Fluid inlets without feed kits
- 3/4 npt

### Max. mixed fluid working pressure
- 3000 psi (207 bar, 20.7 MPa)

### Min. pump inlet fluid pressure
- 50 psig (0.3 bar, 0.03 MPa)

### Max. ambient temperature
- 120°F (49°C)

### Weight
- Base machine: 634 lb (287.6 kg)
- Fully configured: 868 lb (393.7 kg)

### Fluid viscosity range
- Up to 30,000 cps

### Wetted parts
- **Pumps (A and B)**: Stainless steel, PTFE, UHMWPE, tungsten carbide
- **Manifold**: Aluminum or stainless steel
- **Applicator**: Varies based on applicator chosen; see applicator manual
- **Primary heaters**: Aluminum, carbon steel