

PHOENIX EQUIPMENT COMPANY

The Polaris Polyurea System: A pneumatically powered, reciprocating pump assembly engineered for processing and dispensing polyureas, polyurethane foams, elastomers, coatings, adhesives, and other two-component urethane materials. It is a standalone unit configured specifically for polyurea applications and integrates seamlessly into spray booth and finishing environments. The system operates without heat and provides precise control for fast-curing and high-viscosity materials. The configuration includes the Polaris Chopper System, designed for spray or pour applications requiring consistent, high-pressure delivery.

After foam components cure, the Polaris Polyurea System applies protective coatings using an air-actuated impingement dispense gun. The system provides precise control for thick, fast-reacting materials, ensuring uniform coatings resistant to abrasion, UV exposure, and chemical degradation.

Dual 1 GPM self-priming reciprocating pumps deliver up to 2000 PSI (138 BAR), with a nominal flow of 2 GPM @ 60 cycles/min and a maximum flow of 15 CFM @ 30 strokes/min. Operating temperature range: 50°F–200°F (10°C–93°C). Assembly includes a 1-inch bearing, support post, hose ring, tensioning chain, ceramic eyelet, spring connector, thrust bearing, swivel joint pin, bushings, and mounting bracket.

Connections & Hose Assembly

- Two 38" x 3/4" suction assemblies
- One 3/8" pressure hose set
- #6 JIC & #12 JIC compression fittings
- Hose Length: Standard 25 ft Max. 200 ft
- Pump Ratios: 8:1, 13:1, 22:1, 40:1
- Stainless-steel/Teflon hose compatibility



Features

- Quick-pin pump disassembly
- Triple “no-leak” upper seal configuration
- Hardened internal components
- Variable output & spray pattern control
- Multiple system mountings
- Long-wearing pump piston seals

