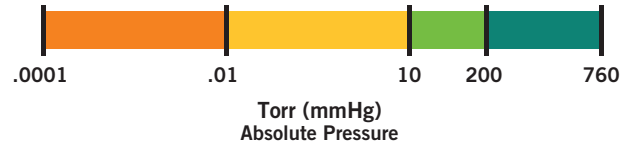


Engineered Solutions

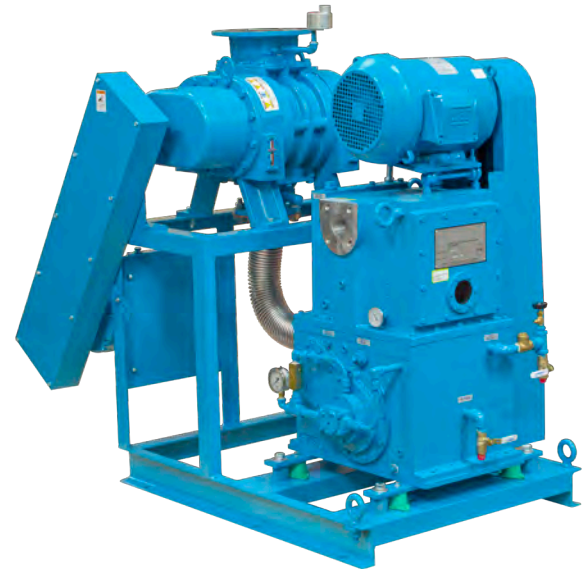
Kinney offers 100+ years of engineering experience and solid, hands-on care to every engineered project. Customers work directly with a project manager to develop custom solutions that efficiently meet the needs of the application.

Vacuum Pumps Product Key



Booster/Rotary Piston Vacuum Pumping Systems

- Pump high volumes at very low pressure
- High-capacity dry rotary lobe vacuum booster is matched to a smaller rotary piston vacuum pump
- For continuous operation below 1 Torr (1.3 mbar a), booster can increase pumping speed by a factor of 10 or more
- For operation at higher pressure with faster evacuations, booster may be approximately 2x the capacity of piston pump
- Performance ranges 200-12,000 CFM (340-20,388 m³/h) with ultimate vacuum levels as low as 0.2 microns
- Conventional system options:
 - » Direct driven or V-belt driven boosters
- Compact systems with close-coupled boosters are available
- Creates a higher capacity system with economy of scale



TYPICAL APPLICATIONS

- » Transformer Oil Drying
- » Vapor Coating
- » Vacuum Packaging
- » Vacuum Furnaces



Booster/Liquid Ring Vacuum Pumping Systems

- Ideal for pumping wet gas mixtures at low pressures
- Oil-filled systems avoid problems with corrosive contaminants and sealant liquid vapor pressures at higher temperatures
- Process liquid-filled systems prevent contamination of process gases with either water or oil

TYPICAL APPLICATIONS

- » Vapor Recovery
- » Chemical Processing
- » Dryers & Evaporators

A variety of two and three-stage systems are available, complete with instrumentation, condensers, partial or complete sealant liquid recovery and recirculation, piping, and valves.



Booster/Dry Screw Vacuum Pumping Systems

- Combine high pumping speed with deep vacuum levels and operate free of oil, water or other sealing liquids
- Flows range to 4,500 CFM (7646 m3/h) with vacuum levels to 10 microns and below

TYPICAL APPLICATIONS

- » **Pharmaceutical Processing** » **Crystallization** » **Solvent Recovery**
- » **Chemical Processing** » **Dry Etching** » **Vapor Recovery**
- » **Semiconductor Processing**

Complete engineered solutions are available and may include any combination of dry screw vacuum pumps, vacuum boosters, electric motors, direct or V-belt drive, coolant recirculation systems, instrumentation, controls, skid piping, and valves.

Bare shaft Dry Screw Vacuum Pump Shown.



Dry Screw & Booster/Piston

Custom Engineered Solutions

Kinney application engineers are ready to help you select the best system and combinations of components for your specific needs. Custom engineered system solutions to 12,000 CFM are available with a combination of vacuum boosters/air ejectors and roughing pumps for any vacuum application. Contact your Kinney distributor or call 800-825-6937 for assistance.

