





Blackmer Gear Pumps for Paint & Coatings Applications

Paint & Coatings manufacturers are looking to increase plant profitability by controlling cost, optimizing uptime, and complying with stringent regulations. Blackmer® E Series and G Series Internal Gear Pumps are reliable and affordable solutions that meet and exceed the operational and safety demands of a modern paint & coatings facility.



E Series Magnetically Coupled Seal-Less Internal Gear Pump



G Series Internal Gear Pump

Challenges of Paint & Coatings Applications

Blackmer Gear Pumps overcome unique operational challenges in the safest, most efficient and profitable way possible.

Emissions Control

CHALLENGE

 Government regulation and compliance with standards regarding control of Volatile Organic Compounds (VOCs)

BLACKMER GEAR PUMP SOLUTION

E Series

 One fluid chamber seal-less design eliminates leak points, ensuring containment of harmful VOCs

G Series:

 Universal bracket design accommodates a wide range of sealing options for improved seal integrity

Productivity

CHALLENGE

 Optimize speed and uptime to maximize plant production

BLACKMER GEAR PUMP SOLUTION

E Series:

 Robust, patented betweenthe-bearings support system eliminates the damaging effects of cantilevered loads, resulting in optimized uptime and unmatched reliability

G Series

 Built to the highest standards of quality and reliability for long life and minimal maintenance

Plant Safety

CHALLENGE

 Protect the welfare of site personnel, surrounding communities and the environment

BLACKMER GEAR PUMP SOLUTION

E Series:

 Leak-free design contains hard-toseal crystallizing, thermosetting or viscous fluids in 24/7 continuous-process applications, helping eliminate exposure of site personnel to harmful chemicals



Cost Control

CHALLENGE

- Raw Materials
- Energy
- Capital Investment
- Maintenance

BLACKMER GEAR PUMP SOLUTION E Series:

- Leak-free design protects against loss of high-value fluids
- Seven-part design allows for ease of maintenance

G Series

 Interchangeable with up to 95% of competitive models, with no need to modify piping, driver, baseplate or coupling

Paint and Coatings Fluids

Three types of fluids are most commonly handled in Paint & Coatings manufacturing:

BINDERS

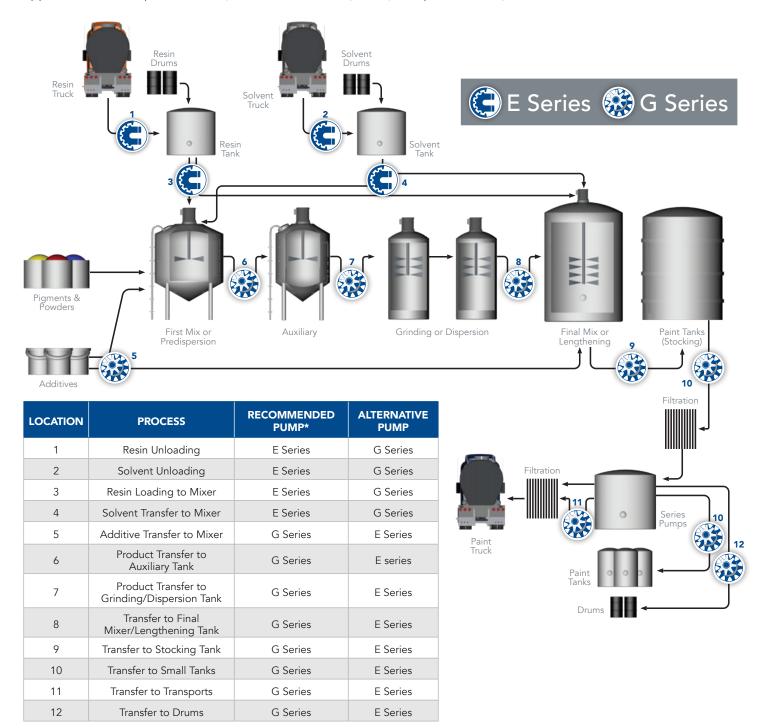
- Acrylics
- Alkyds
- Aminoplasts
- Cellulosics
- Epoxies
- Chloro- and Fluorocarbons
- Natural Plant Oils
- Phonetics
- Polyesters

- Polyurethanes
- Silicones
- Vinyls



Process Map

Blackmer® E Series and G Series Internal Gear Pumps can be used across a wide range of Paint & Coatings applications. Traditional manufacturing processes are ideal for G Series pumps, while E Series pumps are the perfect choice for use in applications where optimized safety, cost control and regulatory compliance are significant factors.



SOLVENTS

- Petroleum Hydrocarbons
 - Aliphatics, aromatics, alcohols, ketones and esters
- Chlorinated Hydrocarbons
 - Methylene chloride, 1,1,1-trichloroethane
- Water
 - Deionized

Oxygenated

- Glycol ethers: 2-ethoxyeyhanol, 2-butoxyethoxethanol
- Terpene
 - Turpentine, pine oil, dipentane

ADDITIVES

- Thickeners/Rheology Modifiers
- Surfactants
- Biocides
- Defoamers
- Co-solvents

- Catalysts
- Flame Retardants
- Friction Reducers
- Plasticizers
- Thickeners



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Where Innovation Flows

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