Internal Gear Pumps for Paint & Coatings

APPLICATION







EnviroGear[®] Pumps for Paint & Coatings Applications

Paint & Coatings manufacturers are looking to increase plant profitability by controlling cost, optimizing uptime, and complying with stringent regulations. EnviroGear[®] 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

EnviroGear overcomes 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)

ENVIROGEAR 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

ENVIROGEAR 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

Cost Control

CHALLENGE

- Raw Materials
 Capital Investment
- Energy
 Maintenance

ENVIROGEAR 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 Fluorocarbon
- Natural Plant Oils
- Phonetics
- Polyesters
- Polyurethanes
- Silicone
- Vinyls

- Plant Safety CHALLENGE
- Protect the welfare of site personnel and surrounding communities and environment

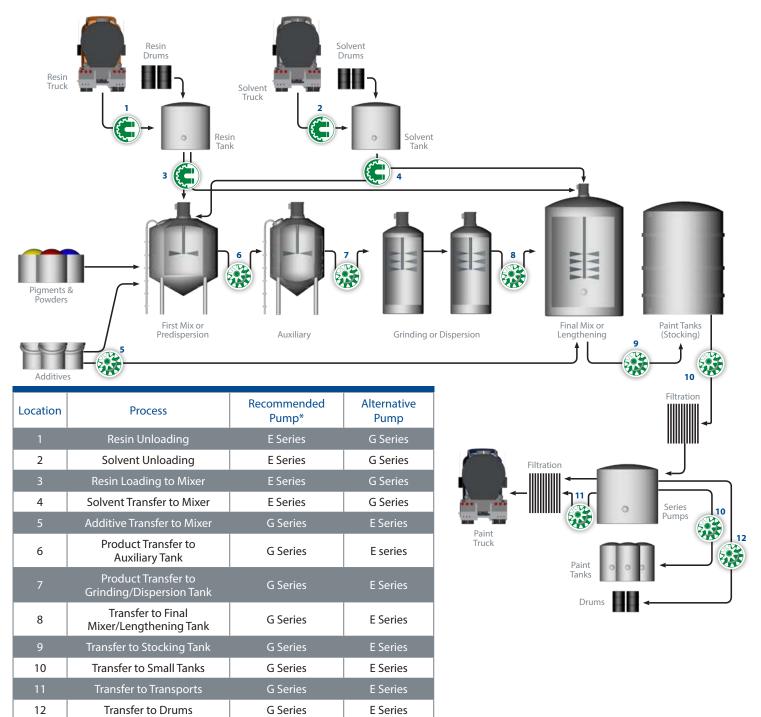
ENVIROGEAR SOLUTION

E Series: Leak-free design contains hardto-seal crystallizing, thermosetting or viscous fluids in 24/7 continuous-process applications, helping to eliminate exposure of site personnel to harmful chemicals



Process Map

EnviroGear® 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

- - Methylene chloride, 1,1,1-trichloroethane

- Terpene Turpentine, pine oil, dipentane

ADDITIVES

- Thickeners/Rheology Modifiers

- Co-solvents

Authorized PSG[®] Partner:



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