



Franklin Electric

# WASTEWATER SOLUTIONS

SUBMERSIBLE WASTEWATER PUMPS



[franklinengineered.com](http://franklinengineered.com)

**FPS**

# *YOUR PARTNER FOR* **WATER SYSTEMS**



## **ABOUT FRANKLIN ELECTRIC**

Franklin Electric is a global provider of complete systems for the movement of water.



## **HIGH PERFORMANCE PUMPS**

Our proven portfolio of submersible and surface pumps are designed for superior durability, efficiency and performance.



## **PACKAGE SYSTEMS**

Engineered for performance and reliability, our wastewater packages are designed to meet the most challenging application requirements.



## **WASTEWATER SOLUTIONS**

Franklin Electric's FPS brand offers a range of submersible wastewater pumps and packages designed to meet application needs in a variety of industries. Our range of submersible grinder and non-clog pumps are engineered for performance, with streamlined options for availability, sizing and customized configuration support.

***FPS***

# NEED HELP SELECTING A WASTEWATER PUMP?

## 1 WHAT TYPE OF JOB DO YOU HAVE?

GRINDER PUMPS				NON-CLOG PUMPS	
IGP SERIES	IGPH SERIES	IGPDS SERIES	RETROFIT KITS	NC SERIES	NCX SERIES
Standard grinder applications	Applications with total dynamic head up to 180ft	Applications that need dual seals, adding redundancy and extra protection	Direct replacements for positive displacement pumps	High flow, low head applications	High flow, low head, explosion-proof applications

## 2 ADDITIONAL JOB REQUIREMENTS TO CONSIDER:

Corrosion Protection	Epoxy Powdercoat	Epoxy Powdercoat	Epoxy Powdercoat	Epoxy Powdercoat	Epoxy Powdercoat	2 Component Non-Isocyanate Coating
Impeller Material	Brass	Brass	Brass	Brass	Ductile Iron	Ductile Iron
Upper/Lower Mechanical Seal Material	N/A / Carbon-Ceramic	N/A / Carbon-Ceramic	Carbon-Ceramic / Silicone Carbide	N/A / Carbon-Ceramic	Silicone Carbide / Silicone Carbide	Silicone Carbide / Silicone Carbide
O-Ring Material	NBR	NBR	NBR	NBR	FKM	Viton®
Horsepower Ranges	2 hp	2 hp	2 hp	2 hp	3-10 hp	3-10 hp
Capacity (up to)	33 gpm	40 gpm	33 gpm	33 gpm	610 gpm	625 gpm
Shut-off Ranges	130'	200'	130'	130-200'	30-68'	33-75'
Discharge Size Ranges	1-1/4" FNPT discharge			3-4" horizontal (125# ANSI flange)		3-4" horizontal (125# ANSI flange)
Input Voltage	208-230V, 460V & 575V	208-230V, 460V & 575V	208-230V, 460V & 575V	208-230V	230V	200/230V, 460V, 575V
Power Options	1 Ph & 3 Ph	1 Ph & 3 Ph	1 Ph & 3 Ph	1 Ph	1 Ph	3 Ph
Agency Listing	cCSAus	cCSAus	cCSAus	cCSAus	cCSAus	cCSAus, Certified for Class 1 Division 1 Groups C & D

## 3 EXPLORE YOUR PACKAGE SYSTEM OPTIONS

Packages Available	✓	✓	✓		✓	✓
Featured Series	IGP-M Series IGP-A Series	IGPH-M Series IGPH-A Series	IGPDS-M Series IGPDS-A Series	IGP Series Retrofit Kits	3NC Series 4NC Series	3NCX Series 4NCX Series

## PACKAGE SYSTEMS

	GRINDER PACKAGES			NON-CLOG PACKAGES
	HARD-PIPED PACKAGES	FIBERGLASS BASINS	POWERSEWER® SYSTEMS	CUSTOM PACKAGES
Standard Pump Offering	IGP-A	IGP-M	All IGP Series	NC & NCX Series
Capacity (up to)	33 gpm	33 gpm	40 gpm	625 gpm
Shut-off Ranges	130'	130'	200'	75'
Input Voltage	208-230V	208-230V	208-230V, 460V & 575V	208, 230, 460, 575V
Power Options	1 Ph	1 Ph	1 Ph & 3 Ph	1Ph & 3Ph
Standard Configurations	Simplex	Simplex, Duplex	Simplex	None
Custom Configurations	N/A	3 PH Models, Triplex, Quadplex	N/A	Simplex, Duplex, Triplex
Floats	(1) On/Off Tethered Wide Angle Float	(3/4) Weighted Control Floats with Float Bracket	(3) Tethered Narrow Angle Control Floats with Removable Float Pole	Weighted Control Floats or per request
Alarms	Purchased Separately	Included	Included	Per request
OSHA Confined Space Compliant	No	No	Yes	No
Ease of Installation	★	★★	★★★	Varies
Reliability	★	★★	★★★	★★
Serviceability	★	★★	★★★	Varies
Cost	★★★	★	★★	★

## KEY

Good	Better	Best
★	★★	★★★



# GRINDER PUMPS



Ideal for residential and light commercial applications, FPS grinder pumps are a reliable solution for sewage and wastewater transfer. Featuring a patented floating cutter system that holds tighter tolerances between the rotating and stationary cutters, FPS grinder pumps offer superior grinding at 414,000 cuts per minute.

## KEY BENEFITS

- A class leading 1 1/8" diameter motor shaft prevents deflection during tough grinding situations
- Designed with 30% more lock rotor (starting) torque than most grinder pumps
- Decreased run time and cycles compared to lower HP progressive cavity pumps for more efficient operation

## IGP STANDARD SERIES

The FPS standard grinder pump series is engineered for performance and reliability.

### Features\*:

- Epoxy-coated cast iron finish for corrosion resistance and durability
- Built-in overload protection to prevent over-current and over-temperature damage (1 Phase models only)



\*Features of the IGP Standard Series apply to all other IGP series pumps

## IGPH HIGH HEAD SERIES

Designed to handle the tough demands of higher head conditions found in many low-pressure sewage applications.

### Features:

- Shut-off head of 200 feet
- Increased max capacity of 40 gpm



## IGPDS DUAL SEAL SERIES

For applications that require redundancy and added protection, the IGPDS series will deliver.

### Features:

- Utilizes an added SiC lower seal in conjunction with standard carbon ceramic upper seal
- Seal leak detection circuitry in the panel offers added pump protection (manual models only)



## IGP RETROFIT KITS

Need a direct simplex replacement grinder for a positive displacement system? The IGP retrofit kit has you covered.

### Features:

- Available in standard & dual stage versions with square gray & round black plug options
- Easily replaces existing grinder systems for "plug & play" installation
- Delivers better scouring velocities than a 1 hp progressive cavity grinder to virtually eliminate sewer line cleaning requirements



# NON-CLOG PUMPS



Available in 3- and 4-inch discharge with single- and three-phase power options, FPS submersible non-clog pumps provide a rugged, maintenance-friendly wastewater transfer solution with hazardous location configurations. Control panels designed exclusively for FPS submersible non-clog pumps are also available for complete systems integration. Single-phase control panels include start and run capacitors.

## KEY BENEFITS

- Field adjustable wear plate provides simplified maintenance and eliminates the cost of replacement parts
- Dual silicon carbide seals offer up to 6 times longer seal life and wear resistance of a typical carbon ceramic seal
- Ductile iron casted impellers provide added corrosion resistance and are more robust when handling rigid debris versus competitive cast iron versions

## NC SERIES

Used for a multitude of commercial and industrial applications with flows up to 610 gpm, the NC Series sets the bar for serviceability and reliability.

### Features:

- Factory standard exclusion seal provides a first line of defense from ingress to seal chamber
- Motor enclosure sealing system utilizes FKM O-Rings which have better chemical resistance to corrosive fluids and offer better heat aging over time



## NCX SERIES

A safe and reliable solution for robust wastewater transfer in applications that require an explosion-proof rating.

### Features:

- Accommodates flows up to 625 gpm
- Quick connect power and sensor cables.
- Best in class construction: Viton(R) O-rings, and Class H, inverter-duty rated insulation system
- Certified for use in Class 1, Division 1 and Group C & D hazardous location requirements



# PACKAGE SYSTEMS



Franklin Electric offers a variety of wastewater package systems designed for efficient operation and reliable performance in commercial, industrial, municipal and residential applications. Package systems are available in standard and custom configurations for both FPS grinder and submersible non-clog pumps.

## POWERSEWER® SYSTEMS

This low-pressure sewer system is available in 60-, 72-, 84-, and 96-inch basin sizes and pumps wastewater to a collection or treatment area, making it a proven alternative to gravity sewer systems and septic tanks.

### Features:

- OSHA-compliant dry well
- C-channel assembly
- Anti-siphon check valve
- Monolithic, rugged HDPE basin
- Drop inlet with rounded bottom

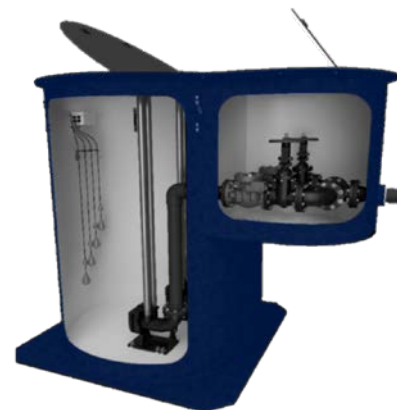


## NON-CLOG PUMP PACKAGES

Available for both the NC Series and NCX Series in any configuration – simplex, duplex, triplex or larger. All packages are custom quoted and built to order.

### Features:

- Diameters up to 120" (10')
- Depths up to 240" (20')
- Standard and custom control panels can be included upon request
- Fiberglass, steel and aluminum cover options available, including H-20 traffic rated steel covers





# TOOLS & SERVICES

## SERVICE & SUPPORT



Franklin Electric's dedicated support teams are known throughout the industry for their commitment to getting you the answers you need—in the field, over the phone or online.

## TRAINING & EDUCATION



Get your team up and running or enhance their skills. Online, in-person—on-site or off. Our educational tools are designed for a variety of learning needs.

## SELECT & PURCHASE



Whether you need to spec an entire system or replace a single part, Franklin Electric's tools and resources put convenience, product availability and order management at your fingertips.

# FE SELECT



FE Select is our industry-leading online tool that makes configuring pumps and packages easy for contractors, engineers and wholesale distributors. With 24/7 online and mobile-friendly availability, FE Select instantly helps you formalize your deliverables with printable and downloadable quotes: no waiting for a callback. Input your performance requirements or specs, and FE Select will help you find the best Franklin Electric solution to fit your needs.

### KEY CAPABILITIES

- Product sizing & system configuration
- Product literature & submittal data
- Pricing information
- Quote management

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*Franklin Electric is a global leader in the engineering, manufacturing and distribution of products and systems focused on the movement and management of water. We offer pumps, motors, drives, and controls for use in a wide variety of agricultural, commercial, industrial, mining, municipal, and residential applications.*

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