



Franklin Electric

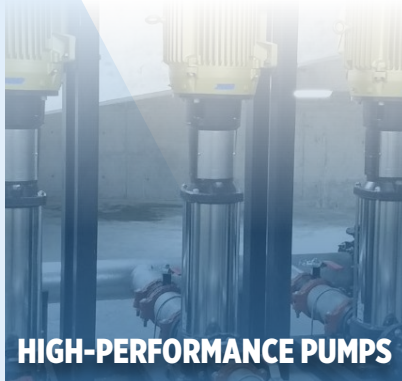
# CERUS<sup>®</sup> X-DRIVE

FULL-FEATURED DRIVE SOLUTION



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

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



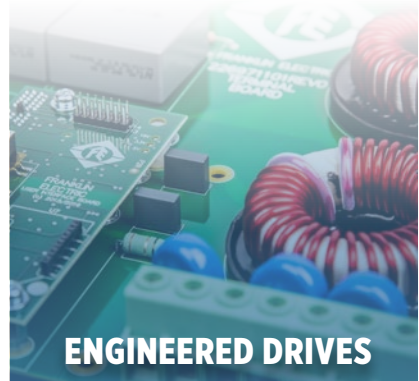
## **HIGH-PERFORMANCE PUMPS**

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



## **LEGENDARY MOTORS**

Unrivalled performance powered by our legendary submersible motors, including the MagForce™ High Efficiency Motor.



## **ENGINEERED DRIVES**

An innovative line of starter and drive panels designed specifically for ease-of-use in water pumping applications.



## **CERUS® X-DRIVE**

Designed for variable torque applications up to 600 hp (480V)\*, the Cerus® X-Drive is Franklin Electric's all-inclusive drive solution for a variety of markets. Available as a standalone drive and in multiple enclosed configurations, these panels are built to last, with every detail and component centered around your requirements.

Pair this product with our legendary motors and pumps to maximize the performance of your application. All of this is backed by the best support team in the industry, making sure our business doesn't slow yours down.

*\*Models are available for up to 700 hp for 575V applications only.*

## GET THE BEST PERFORMANCE OUT OF YOUR SYSTEM

| FEATURES                                                 | GENERAL PURPOSE DRIVES | PUMP-SPECIFIC DRIVES | CERUS X-DRIVE | HOW CERUS X-DRIVE ENHANCES YOUR WATER SYSTEM                                                                                              |
|----------------------------------------------------------|------------------------|----------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| INTUITIVE DISPLAY & NAVIGATION MENU                      | ★                      | ★★                   | ★★★           | Get your job up and running in minutes, not hours, with a large easy-to-read display and the ease-of-use offered by the navigation menu.  |
| GUIDED STARTUP EXPERIENCE & MOBILE APP                   | ✕*                     | ★★                   | ★★★           | Use your smartphone and Bluetooth® technology to setup your system with guided startup and access operation information using FE Connect. |
| ADVANCED CUSTOMIZED CONTROL                              | ★★                     | ★                    | ★★★           | Conveniently serve advanced industrial applications using the built-in Programmable Logic Controller (PLC).                               |
| INDUSTRY-LEADING POWER DENSITY                           | ★                      | ★★                   | ★★★           | Reduce your system's footprint as a result from its compact form-factor of the standalone drive and smaller panel needs.                  |
| SAFETY ENHANCEMENT                                       | ★★                     | ★★                   | ★★★           | Minimize hands-on interaction with the drive with its door mounting display and in-app setup options.                                     |
| OPTIMIZED FOR COMPATIBILITY WITH HIGH EFFICIENCY SYSTEMS | ★                      | ★                    | ★★★           | Quick, easy startups and reliable protection for projects powered by MagForce High Efficiency Motors.                                     |

GOOD: ★ BETTER: ★★ BEST: ★★★

\* Not designed for ease-of-use with pumping applications.

### VARYING SPEED, CONSTANT SAVINGS

- By running your motor to meet the demands of your application, the X-Drive can reduce energy costs by up to 50%
- Variable motor speed allows for soft start, protecting the life of your equipment and offering long-term savings
- Maximize electrical cost savings when pairing your X-Drive with MagForce™ permanent magnet motors via a 90% efficiency rating\*

\* 10-12 percent greater than standard induction motor construction

#### CERUS X-DRIVE PERFORMANCE RANGE

| HP            | VOLTAGE  | MAX. AMPS |
|---------------|----------|-----------|
| 1 hp - 100 hp | 200-208V | 322 A     |
| 1 hp - 125 hp | 230V     | 322 A     |
| 1 hp - 600 hp | 480V     | 770 A     |
| 1 hp - 700 hp | 575V     | 675 A     |

### YOUR FRANKLIN EXPERIENCE

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.



Comes fully supported by the industry's leading Technical Support professionals and Field Service Engineers.



Drives are eligible for an Extended Warranty with Franklin Electric-supplied motor and pump.



Input your performance requirements or specs, and our industry-leading online tool will help you find the right Franklin Electric solution for the job.



## FULL-FEATURED FOR YOUR APPLICATION

- Available as a standalone drive and multiple enclosed configurations including submersible and centrifugal applications
- Streamlined setup powered by application-specific firmware that pre-programs settings for quick and easy startups and reliable protection for any project
- Advanced features: Multi-VFD control up to 8 VFDs, pre-PID control (pipe fill), 2nd PID control, dual demand and pipe leak protection
- Built-in DC choke for applications starting at 50 hp (@ 230V) and 60 hp (@ 460V / 575V) for harmonics mitigation eliminates the need for a line reactor
- UL-listed phase conversion versatility allows for single-phase or three-phase input

## AUTOMATION-READY WITH INDUSTRIAL COMMUNICATION PROTOCOLS & CUSTOMIZABLE FUNCTIONS

- Built-in Programmable Logic Controller (PLC) for advanced industrial applications
- Seamless integration into SCADA and automation systems using Modbus RTU or ASCII and BACnet MS/TP communications
- Optional communication cards: Ethernet IP and Modbus TCP/IP communication OR for compatibility with FE Connect using Bluetooth® connectivity

## SEAMLESS INTEGRATION INTO A CONTROL PANEL

- UL Type 4X removable and remote mountable display using a standard CAT-5 cable
- Compact form-factor with industry-leading power density (HP/in<sup>3</sup>) aids in reducing the overall panel size
- Converts from a NEMA 1 VFD to an Open Type VFD which increases the ambient operating temperature from 113 °F to 122 °F, saving on panel cooling costs

### MARKETS & APPLICATIONS

|                       |                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AGRICULTURE           | <ul style="list-style-type: none"> <li>• Irrigation</li> <li>• Livestock</li> </ul>                                                                                                                                                  |
| MUNICIPAL             | <ul style="list-style-type: none"> <li>• Sewer Bypass</li> <li>• Lift Stations</li> </ul>                                                                                                                                            |
| MINING & CONSTRUCTION | <ul style="list-style-type: none"> <li>• Dewatering</li> <li>• Slurry &amp; Tailings Removal</li> <li>• Wastewater Reuse</li> <li>• Dust &amp; Fire Suppression</li> <li>• Evaporation Equipment</li> <li>• Process Water</li> </ul> |
| COMMERCIAL BUILDINGS  | <ul style="list-style-type: none"> <li>• Pressure Boosting</li> </ul>                                                                                                                                                                |
| INDUSTRIAL            | <ul style="list-style-type: none"> <li>• Constant Torque</li> <li>• Rotating Equipment</li> <li>• Conveyor Belts</li> <li>• Rock Crushers</li> <li>• Compressors</li> </ul>                                                          |
| HVAC                  | <ul style="list-style-type: none"> <li>• Circulating Pumps</li> <li>• Cooling Towers</li> <li>• Supply Fans</li> <li>• Exhaust Fans</li> <li>• Air Handlers</li> </ul>                                                               |
| OIL & GAS             | <ul style="list-style-type: none"> <li>• Water, Oil &amp; Mud Transfer</li> <li>• Drilling Mud Recirculation</li> <li>• Fuel Storage Tank Booster</li> <li>• Downhole Pumps (Surface Controls)</li> </ul>                            |

# DISCOVER AN INCREDIBLY INTUITIVE START-UP EXPERIENCE

Save time and enhance safety during installation and service by using an array of setup, monitoring, and troubleshooting solutions that minimize hands-on interaction with the drive.



**1. Guided Startup Experience:** Select application-specific presets in seconds with readily available industry standards for submersible pumps, centrifugal pumps, cooling tower and circulating pumps.

**2. Intuitive Display & Navigation Menu:** Get your job up and running in minutes, not hours, with a large easy-to-read display that allows you to navigate the drive's main parameters without scrolling through multiple screens.

**3. FE Connect Mobile App:**

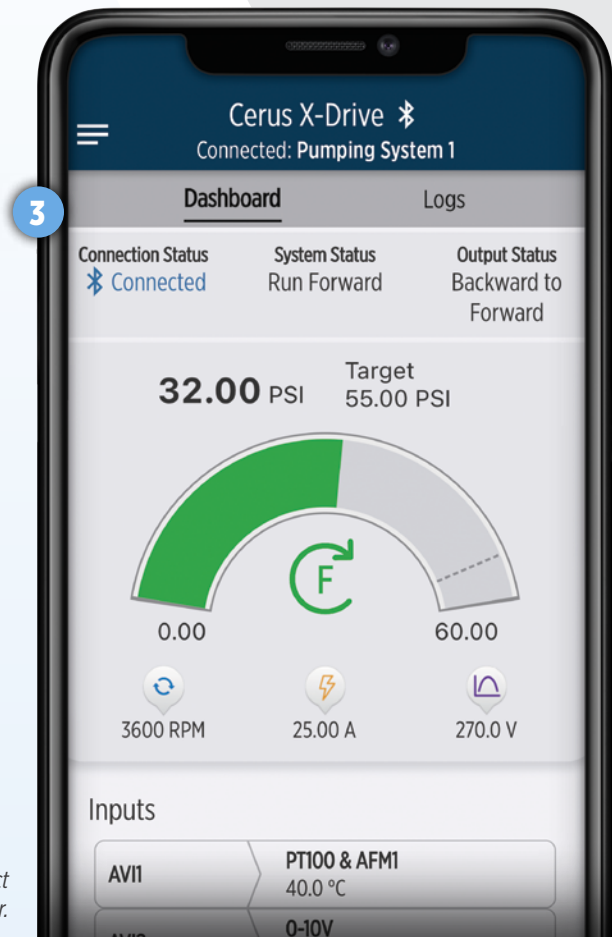
Allows you to use your mobile device and Bluetooth® connectivity for monitoring, assisted setup and troubleshooting.



**NOW AVAILABLE.** Search for "FE Connect."



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*Available with optional card for compatibility with FE Connect using Bluetooth connectivity and firmware 1.2 or later.*

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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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Connect with Us!

