



**Maximize operations  
and reduce energy costs.**

**PACMotion Variable Frequency Drives (VFD)**  
High-performance solutions streamline your startup procedures  
and help optimize your processes.





## Energy is expensive, space for new equipment is limited, and VFDs can be difficult to set up.

Energy costs make up a significant portion of plant operating expenses; VFDs (Variable Frequency Drives) can help reduce the cost by enabling motors to run at optimum speeds. However, VFDs require installation space and protection from harsh environments. Additionally, some VFDs demand complex configuration choices and startup procedures.

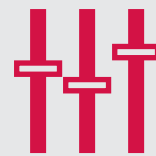
“Matching motor speed to application requirements through VFDs can achieve significant electricity savings.”  
– Consortium for Energy Efficiency



“Many times control panels are too small and confined to permit the required wiring space and wire bending space.”  
–Eddie Guidry, EC&M magazine



“Parameters provide a degree of adjustment so that the user can customize the VFD to suit specific motor & driven equipment requirements.”  
–VFDS.org



What if you had access to a VFD that delivered maximum process efficiency, reduced your energy costs, and improved control of your process in a simple, compact platform.



**Emerson PACMotion VFDs optimize your operations to reduce energy costs, are flexible to install, and are easily configured and started up.**



Because motors require significant and costly electrical power, converting them to modern VFD control is critical to your operations. But many installations require more than stand-alone VFDs. You want an integrated drive solution with your controls, to ensure the safety and integrity of your process and equipment.



Emerson's PACMotion VFD is an integrated, rugged, and modular variable frequency drive designed for a range of applications, including Water/Wastewater, Metro, Manufacturing, Mining, Food and Beverage, Packaging, and Oil and Gas

**Save energy and improve control**

In pump and blower applications VFDs eliminate energy wasted by throttling. For machine applications, VFDs improve control, productivity, and quality by matching motor speed to the load.

**Configure quickly and easily**

Seamlessly integrate VFDs with controllers using Field Agent technology, providing feedback to improve your processes and profitability, with even more integration coming in the future. Pre-programmed modes save development time for complex operations. Safe Torque Off (STO) eliminates the need for an input contactor.

**Save cabinet space**

VFDs with IP55 and IP66 enclosures can be installed without a cabinet in dirty environments or in locations subject to jet spray washdown such as found in food, beverage, and pharmaceutical applications.





## Save energy, reduce space, and make setup easier.

PACMotion VFDs solve operational problems in a wide range of applications.

### Save energy by improving motor control

- VFDs control flow by varying motor speed to match the load, greatly reducing energy consumption and motor stress.
- In machine applications, a modern VFD can provide the precise speed control usually associated with DC motors and drives, with much lower maintenance costs.

### Save space by using a smaller cabinet, or no cabinet at all.

- The PACMotion VFD is smaller than many alternatives. Not only does it take up less cabinet space, it's also available with an IP55 and IP66 rating.

### Save time by quickly configuring and starting VFDs.

- Connecting the PACMotion VFD with other Emerson products lets you monitor, record, and optimize output in real time to optimize your process and improve profitability.

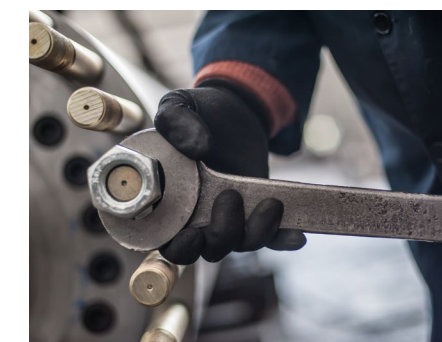
## Save energy and money



Controlling flow by varying motor speed reduces energy consumption and costs.



In machine applications a VFD can provide the speed control, without the cost and maintenance requirements for a DC motor.



Running at less than full speed reduces wear and tear on equipment, reducing maintenance costs.

## Save space with compact drives



PACMotion VFDs are compact and take up less space in a control cabinet.

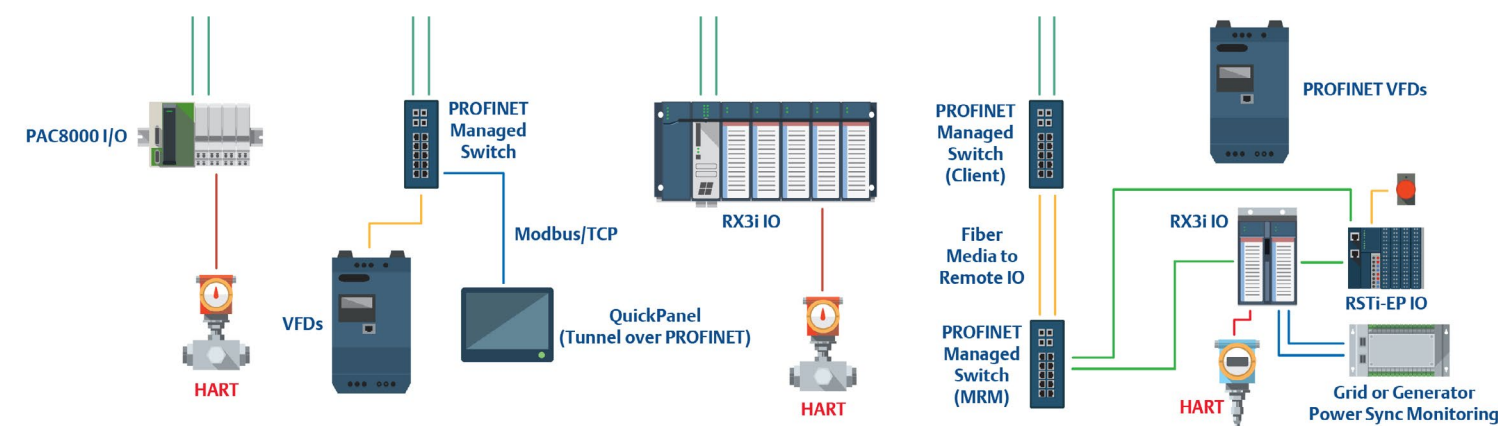


Easy access mounting slots make for quick installation.



IP55 and IP66 housings maximizes design flexibility by allowing VFD installations closer to the machine.

## Make setup easy



With the VFD, you can simplify setup and integrate the drive into the larger control system.



# PACMotion VFDs: advanced machine control to optimize your operations.



## Open Interoperability



- MODBUS TCP
- Native MODBUS RTU support

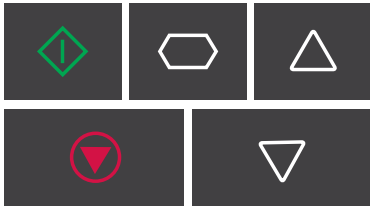
## PACMotion Variable Frequency Drives Overview

Getting your machines up and running quickly and keeping them running at peak efficiency is critical to the profitability and performance of your operations. You need a modern, compact, modular, integrated variable frequency drive. The PACMotion

VFD is designed to meet your specifications, with a range of configuration options and quick mounting with or without a cabinet. [URL .com/ProductDetails](https://www.rockwellautomation.com/URL.com/ProductDetails)

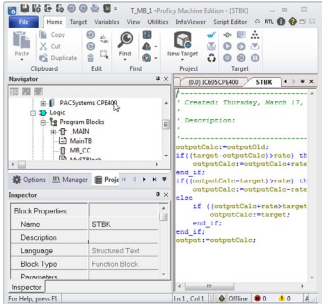
### Ease of configuration

#### Built-In Keypad



- Allow operators to validate parameters, providing instant feedback during troubleshooting.

#### PAC Machine Edition



- Product configuration embedded within PAC Machine Edition.

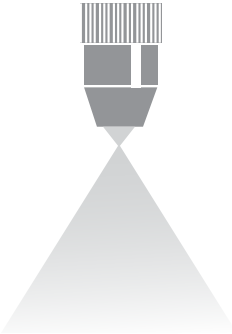
#### Bluetooth



- Bluetooth communication for operation using software and fast manual replication of parameter data.

### Rugged and reliable

#### Conformally Coated



- Conformal coating shields electronic components from harsh environments.

#### PROFINET System Redundancy



- System redundancy support eliminates the need for an intermediary device, saving up to 15% on installation costs.

#### IP55 and IP66 Housings



- Enables drives to be mounted without a control cabinet.

### Performance and safety

#### Heavy Duty Ratings



- Up to 200% current overload for 4 sec and 150% current overload for 60 sec to protect against surges.

#### Start Heavy Load



- Up to 200% torque from 0 speed ensures reliable starting and accurate speed control under all load conditions.

#### Native Safe Torque Off



- Safe Torque Off (STO) saves development time and eliminates the need for an input contactor.

# Optimize your machine operations for improved performance and profitability.



**Emerson Automation Solutions  
Intelligent Platforms, LLC**  
2500 Austin Dr  
Charlottesville, VA 22911  
USA

**Emerson Automation Solutions  
ICC Intelligent Platforms  
GmbH**  
Memminger Straße 14  
Augsburg, DE 86159

**Emerson Automation Solutions  
Intelligent Platforms  
(Shanghai) Co., Ltd**  
No.1277, Xin Jin Qiao Road,  
Pudong,  
Shanghai, China, 201206

**Emerson Automation Solutions**  
Rua Irmã Gabriela, 51 –  
Cidade Monções  
São Paulo – SP, 04571-130

**Emerson Automation Solutions  
Intelligent Platforms Asia  
Pacific Pte. Ltd.**  
1 Pandan Crescent,  
Singapore, 128461

**Emerson Automation Solutions  
Intelligent Platforms Pvt. Ltd.,**  
Building No.8, Ground Floor  
Velankani Tech Park, No.43  
Electronics City Phase I, Hosur Road  
Bangalore-560100



[Emerson.com/industrial-automation-controls](https://emerson.com/industrial-automation-controls)



[LinkedIn.com/company/Emerson-Automation-Solutions](https://www.linkedin.com/company/emerson-automation-solutions)



[Twitter.com/MachineAutoSol](https://twitter.com/MachineAutoSol)



[YouTube.com/ /MachineAutoSol](https://www.youtube.com/channel/UCMachineAutoSol)

The Emerson logo is a trademark and service mark of Emerson Electric Co. All other marks are the property of their respective owners.  
© 2020 Emerson Electric Co. All rights reserved.  
00803-0001-0109-RevAA



**CONSIDER IT SOLVED™**