

FASTPACK

Packaged AC Drive Solutions 0.25 - 400 kW

FASTPACK is a range of single and three phase industrial drives designed to provide a simple packaged solution across a wide range of variable and constant torque applications up to 400 kW.

Designed as a simple replacement to direct-on-line, star/delta or soft start control of motors, they can be configured to deliver complete control in a single ready-to-install robust industrial enclosure.

A multitude of pre-engineered, coded control options enable the FASTPACK range to be offered on short deliveries at very economical cost.

Control options such as operator keypad, start/stop pushbuttons, emergency-stops and output contactors can all be selected from a list of standard options. Integration into existing systems can be achieved through the use of one of the many fieldbus or encoder options that are also available.

Features:

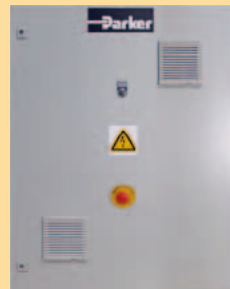
- Pre-coded control options
- CE Marked to EN60204 and ISO EN13849
- NRTL approval for North America and Canada possible
- Pre-engineered solution
- No engineering costs
- Fast Delivery
- Ready to install

Example Applications

Hydraulic Pump Control:

Improved efficiency in hydraulic systems with electronic control technologies.

The AC650V standard FASTPACK has been supplied for control in numerous hydraulic pump applications. By reducing the motor speed during low flow demand or pressure holding parts of the machine cycle, significant energy savings can be achieved. This example is a 15kW FASTPACK used in an accumulator charging application. This packaged drive was delivered in 15 days and commissioned in a single day.



Water Pump Control:

70 % Energy savings and improved reliability

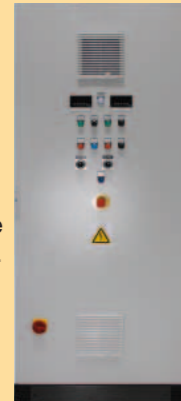
22 kW FASTPACK supplied for decentralised water pump control for the stock preparation in a paper mill. The drive was designed to replace a direct on-line (DOL) starter and was supplied in 14 days. Reducing the pump speed to match the process demand delivered an average energy saving of 70 %. This also reduced stress on the mechanical components in the system during starting, leading to improved reliability.



Extruder Control:

Drive controls update delivers improved performance.

55 kW Advance Performance AC690+ FASTPACK supplied to an end user for use in a plastic extruder application. Simple, easy to use door mounted controls matched with the advanced functionality of the AC690+ delivered a drive control system upgrade to improve overall machine control and productivity.



Standard AFE Regenerative Solutions:

The simple route to compliance with the power generation regulations.

90 kW 4 quadrant Active Front End (AFE) supplied to an OEM customer involved in delivering small scale renewable energy solutions. The AFE solution allows energy generated by renewables to be synchronised with, and exported to the supply network. The system meets all of the relevant statutory supply regulations out of the box, removing the headache of compliance from the customer.



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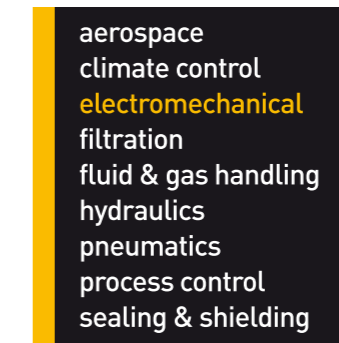
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FASTPACK AC Drives

Packaged AC Drives Solutions
0.25 - 400 kW



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US Product Information Centre
Toll-free number: 1-800-27 27 537
www.parker.com

Your local authorized Parker distributor



ENGINEERING YOUR SUCCESS.

Step 1: Define your application level

| FASTPACK | Power [kW] | Details | Typical Applications | | | | | | | | | | | | |
|------------------|-------------|---|---|-----------------|------|----------------|-----------|--------------------|-----------|----------|------------|------------------------|---|---|--|
| | | | Pumps | Hydraulic pumps | Fans | Air compressor | Conveyors | Mixers / Agitators | Extruders | Crushers | Renewables | Dynamometers/Test Rigs | | | |
| Micro | 0.25 to 7.5 | The integrated AC650 Series AC drive provides easy to use, out of the box V/F control for simple motor speed control applications. |  | • | • | • | • | | | | | | | | |
| Standard | 0.37 to 110 | The AC650V Series AC drive offers the functionality of flux vector control and variable torque ratings along with integrated application specific software macros. |  | • | • | • | • | • | • | | | | | | |
| Advanced | 1.1 to 400 | The Advanced Performance FASTPACK includes the highly capable AC690+ Integrator Series drive. Offering a host of control and communications options, the AC690+ Series can be used in open-loop, sensorless vector or closed loop vector control. |  | • | • | • | • | | | • | • | | | | |
| High Performance | 1.1 to 110 | Making use of the high performance AC890 drive to provide high levels of speed and position control of open- and closed-loop AC or servo motor applications. |  | | • | | | | | • | • | | | | |
| High Power | 110 to 400 | The AC890PX Modular Chassis provides an effective way of managing high power applications up to 400 kW. Its modularity assures the lowest possible cost of ownership. |  | | | | | | | | • | • | | • | |
| Active Front End | 11 to 400 | Packaged 4 Quadrant regenerative solution suitable for simple renewable energy applications offering unity power factor with a very low harmonic current content (THD <5 %) |  +  | | | | | | | | | | • | • | |

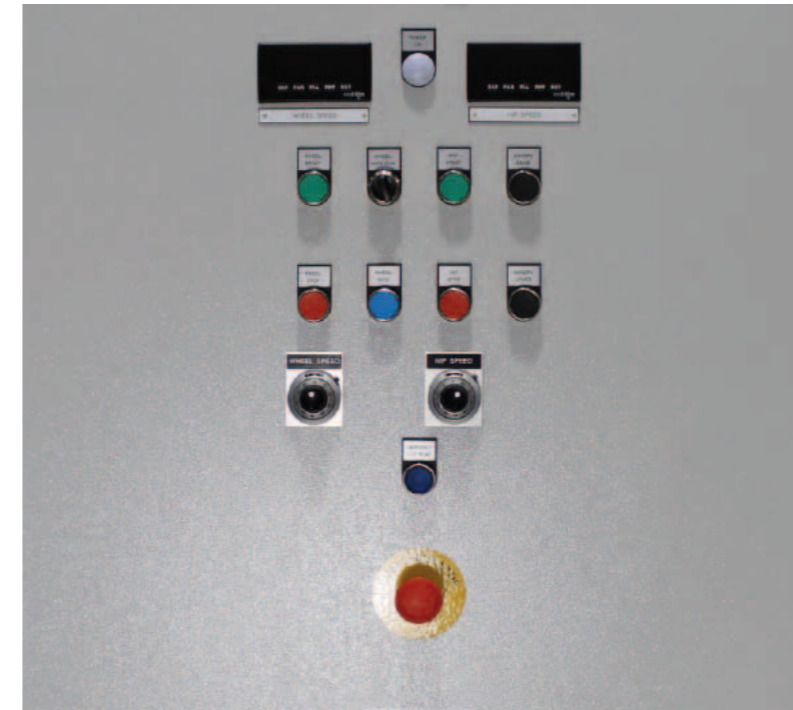
Step 2: Select your control options

Operator Controls

After selecting your FASTPACK application level, a range of standard operator control options can be selected to manage the following operations:

- Start/Stop control
- Direction control
- Inch control
- Speed control
- Speed and load meters
- Emergency stop

A range of operator devices including digital and analogue panel meters, multi-turn potentiometers, local/remote pushbuttons, selector or key switches and indicator lamps can be provided to create the required level of operator interface for your application.



Control Equipment

FASTPACK systems are frequently used for more complex machine or process control. As a result, a comprehensive selection of auxiliary control equipment is available to facilitate the drive's integration into the system. These include:

- Motor output contactor
- Additional EMC filter
- Door interlocked isolator and MCBs
- Emergency stop relay
- 110 VAC or 240 VAC Control transformer
- Input harmonic chokes
- Output chokes
- 24 VDC Power supplies
- Stainless steel enclosure
- Industrial fieldbus communications
- Customer options available on request

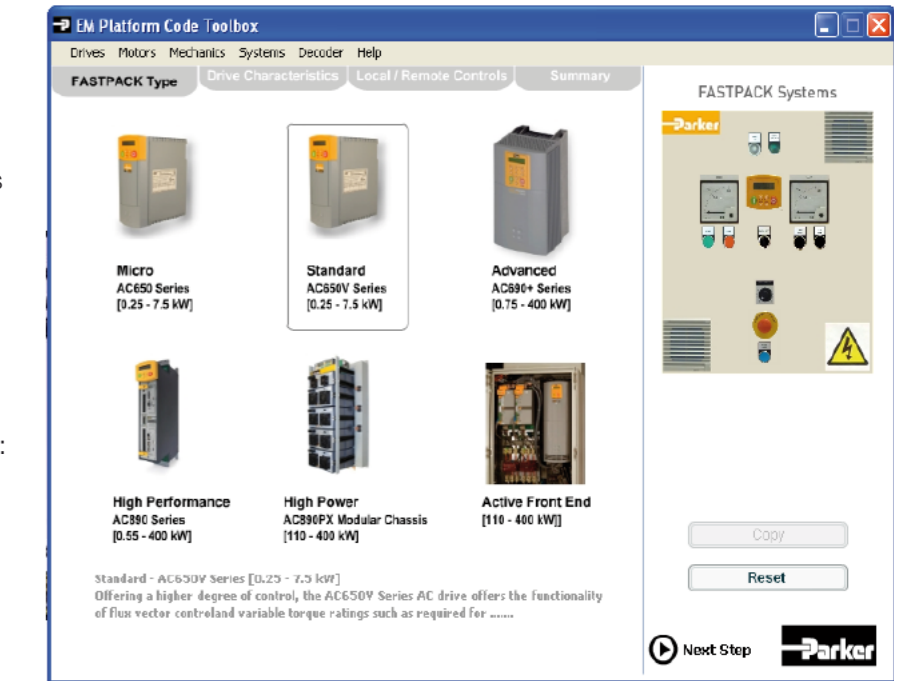


Step 3: Create your complete product code

Code Toolbox

The code toolbox software guides you through a step-by-step process to quickly and easily take your application requirements and convert them into a FASTPACK packaged drive solution that meets all of your needs. The software shows you exactly what your packaged drive will look like and also creates the full product order code.

The Code Toolbox can be found at:
www.parker.com/ssd/fastpack

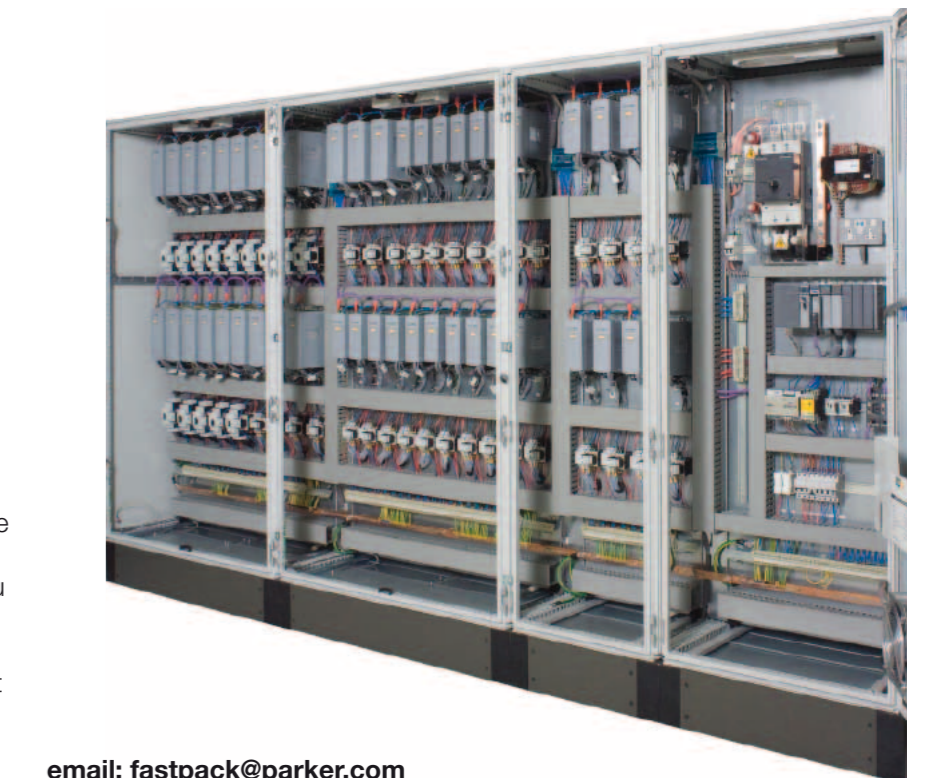


Need something a bit larger?

For customers requiring more support in the design and implementation of their control systems, Parker offers a complete in-house design, build and project management service.

Based on the principles of application expertise, quality, reliability and safety, Parker's Systems Team are able to undertake all aspects of an electrical control system project, from pre-design specification to on-site installation and cabling services.

By allowing Parker to undertake the design, build, programming and commissioning of your system, you can be assured that every aspect of the design, from environmental considerations through component selection to mounting of products has been carefully considered.



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