

# Engineered Motion Control Systems for Converting, Printing, and Plastics



Parker's Electromechanical & Drives Division provides custom AC and DC drive systems for a variety of applications used in continuous multi-section coordinated web processes. Many of these processes take place in converting, printing, and plastics manufacturing. Our reliable, high quality solutions provide manufacturers and OEM's with the latest AC and DC Drives technology. Though Parker is a global company, we take pride in working with customers in an unassuming way, engineer to engineer.

## Converting Applications:

Embossed Film Lines

Extrusion Coating & Laminating

Rotary Die Cutters

Cut-to-Length & Sheeters

Pattern Coating

Slitters

Turret Winders and Unwinds

Precision Flying Splices

With a long history of providing drives and systems to converting machinery OEMs, Parker is uniquely qualified with industry experience. Converting processes require **accurate speed and tension control** to be maintained under changing load conditions, as well as **special functionality** for tricky applications like turret winders and flying cutoffs. The combination of rock-steady speed and torque control and the flexibility of DSE software provides a system that delivers a high quality end product time after time. In addition to systems for new converting lines, Parker systems have been used to upgrade older ones. Advantages of retrofitting can include higher throughput, better control and accuracy, and the ability to interact with plant SCADA systems.



## Printing Applications:

Multi-Section Shaftless Printing

C-I Flexographic Presses

In-Line Flexographic Presses

Rotogravure Presses

Offset Presses

Turret Winders and Unwinds

Precision Flying Splices

Printing processes have stringent requirements for **accuracy and repeatability**, and Parker Drive Systems are up to the challenge. With high speed peer-to-peer communications and special functionality, complex applications are handled with ease. Multi-section presses can be efficiently powered by a common bus system, available over a wide power range, with the flexibility of powering induction motors or PMAC servo motors. In addition to powering new equipment, Parker systems have been used to re-power older presses to extend their life and improve reliability.



ENGINEERING YOUR SUCCESS.

## Plastics Applications:

**Extruders**

**Pelletizers**

**Mixers**

**Injection Molding**

**Blown Film Lines**

**Sheet Film Lines**

Applications in plastics can be challenging, and seldom are any two processes alike. Many times these processes are found in harsh environments with high ambient temperatures, but the drives are expected to perform every time, and without costly failures. Parker offers a variety of cooling technologies and conformally coated PC boards to keep the drives and controls well inside their comfort zone. With experience in handling materials from delicate blown film to heavy, high powered extruders, Parker brings expertise and industry experience to the table for all manner of processes in the plastics arena.

## High Performance AC Drives: AC890/AC890PX Series

The AC890 Series is a range of common bus capable, modular AC drives, designed to minimize space and maximize performance in multiple axis applications. AC890 can provide precise torque, speed, and position control and can be configured to control permanent magnet AC or AC induction motors. The series includes standalone or common bus DC configurations with power output to 2000 HP, at 380, 460, 575, and 690 VAC input.



## Human-Machine Interface (HMI)

Parker's HMI panels offer many of the features found only on PC based SCADA systems and provides an easy to use development environment for creating custom screens for any application. **IIoT capable...**Data collected on this device can be quickly and easily shared with your facility SCADA system over an Ethernet network or a variety of other networks like Firewire, CANopen, Profibus, DeviceNet.



## Broad Product Line

Parker's product line breadth is unparalleled in the industry. The Electro-mechanical and Drives Division alone can provide a comprehensive line of AC and DC drives, servo motors and drives, gearheads, linear actuators, and the "PAC" programmable automation control.



## Systems

Parker offers a complete in-house design and build service, enabling you to focus on your core competencies. Parker's systems team is able to undertake all aspects of a system project, from specification to commissioning and programming services. Our system design engineers are well versed in PLCs from all major manufacturers, and in SCADA communications, including Parker InteractX HMI software and programmable automation control products (PAC).



## Have an application or want to learn more?

Feel free to call or email to discuss with our applications team. Find out how Parker can help make your testing processes more efficient and more productive with our proven innovative solutions!

## Parker Hannifin

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