



# Drive Controlled Power Units

Variable Speed Drive Solutions with Energy Savings



ENGINEERING YOUR SUCCESS.

# Experience Hefty Energy Savings in a Simple Package

An unregulated pump motor running at maximum speed is a blatant waste of energy. Across the many industrial processes where this issue occurs, inefficient energy consumption equates to a loss of dollars and time, as well as contributes to the burden of meeting increasingly strict environmental regulations. In response, Parker offers **Drive Controlled Pump (DCP) technology** for variable speed hydraulic power units. Consisting of a Parker DCP unit (frequency controller and electronics), an AC electric motor and a hydraulic pump, this proven technology continuously regulates rpm and

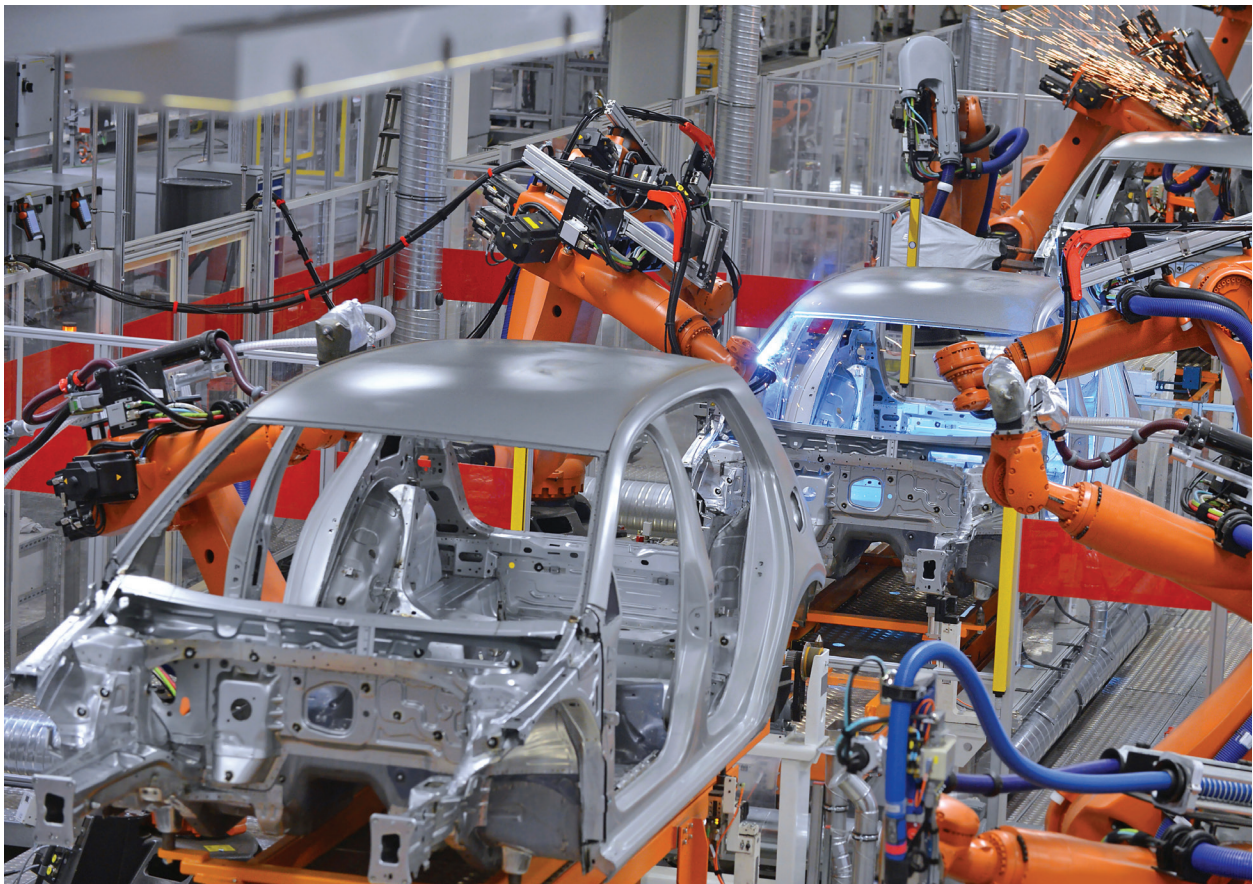
output flow. This provides the **exact power required – exactly when you need it – for a reliable, energy-efficient solution.**

Durable and efficient, DCP power units perform well in applications with long dwell times. They are ideal for a diverse range of applications including:

- In-plant automotive
- Metal-forming presses
- Die-casting machines
- Machine tools
- Plastic and rubber presses
- Wood and paper
- Steel manufacturing
- Test equipment/laboratories

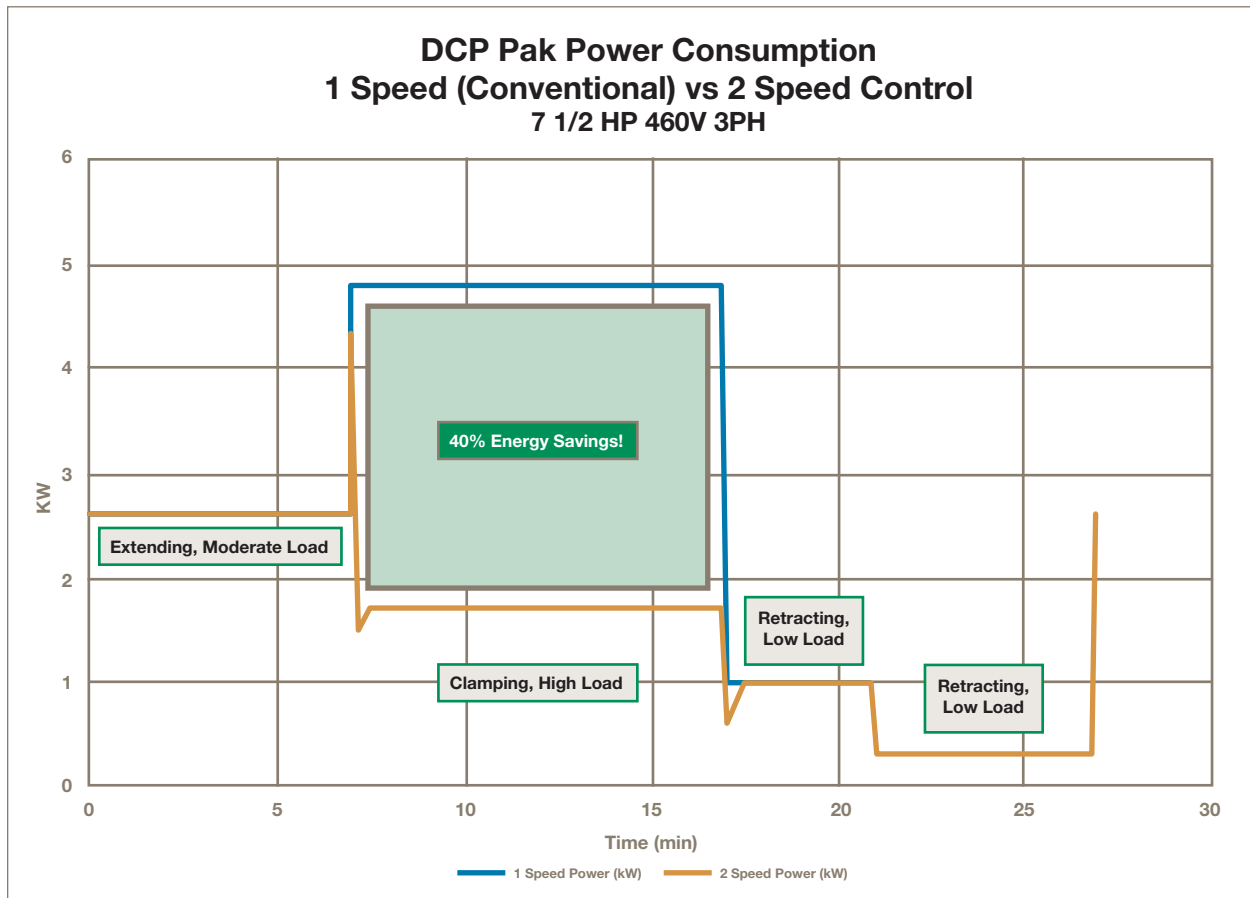
## Key Features

- Combines benefits of DCP technology into proven Pak power units
- Pre-programmed with one of five available configurations
- Fully factory tested
- Rugged UL listed, IP66 drive enclosure



### Exact Power - On Demand

By reducing motor speed during low flow demand or isolated parts of the cycle that require pressure to be held, you can achieve significant energy savings. With DCP technology, the controller continuously adjusts the electric drive motor speed so that the pump provides the required flow and pressure demanded by the system. Automatic speed adjustment means automatic energy savings, i.e. a DCP power unit starts reducing energy consumption as soon as you install it.



Example of a typical clamping circuit



time with as much as a 40% reduction in operating temperatures. This temperature decrease also results in less equipment wear and tear. DCP power units simplify hydraulic circuit complexity, eliminate external wiring and streamline PLC connectivity. By operating at only the flow rate needed, component lifespan is extended, thereby shortening downtime and the associated maintenance costs. All while automatically adjusting the pump's speed to match changes in demand.

### **Options That Meet Your Requirements**

Maximize efficiency by choosing the technology that is best suited for your unique application. Parker offers DCP power units in a variety of standard, preconfigured options including:

- **Speed control (4-20 mA)**
- **Speed control (0-10 VDC)**
- **Speed control (discrete input)**
- **2-Speed control (torque trigger)**
- **Soft start**

Additional options including CSA/CE marked motors are available. Refer to Hydraulic Power Unit catalog HY28-2661-CD-US for model codes and technical information.

**Contact your local Parker distributor to discuss your unique requirements, and start cutting energy costs today.**



### **Safer, More Economical Operating Environment**

DCP power units provide pumps with the rotational speeds needed to attain required output flow. Running at lower speeds ensures significantly lower vibration levels for reduced noise. This improves overall safety, assists in meeting noise regulations and decreases the cost of secondary measures such as additional personal protective equipment. Reduced operating temperatures and smaller footprint also enhance the operating environment.



### **Improved Machine Productivity**

A DCP power unit improves your total cost of ownership by empowering you to get more out of your machinery. It minimizes, and can even eliminate, cooling

# DCP Power Units – Benefits at a Glance

Parker DCP power units utilize proven technology that starts improving your energy costs, operating environment and uptime as soon as you install it.



## Dramatic Energy Savings

DCP power units match hydraulic system pressure and flow to provide exact power on demand – resulting in as much as 50% energy savings.



## Enhanced Efficiency

By eliminating external wiring and streamlining PLC connectivity, DCP power units simplify hydraulic circuit complexity.



## Lower Operating Temperatures

With up to 40% reduction in hydraulic operating temperatures, DCP power units minimize or eliminate cooling needs. Lower temperature also equates to longer oil life.



## Reduced Noise Levels

Quieter operation improves safety and cuts the cost associated with secondary measures to protect operators' hearing.



## Longer Component Life

Increasing component lifespan means reliable operation, decreased downtime and reduced maintenance costs.



## Improved Equipment Costs

DCP power units may allow for selection of smaller reservoirs and pump sizes for an economical, compact footprint.

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