

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

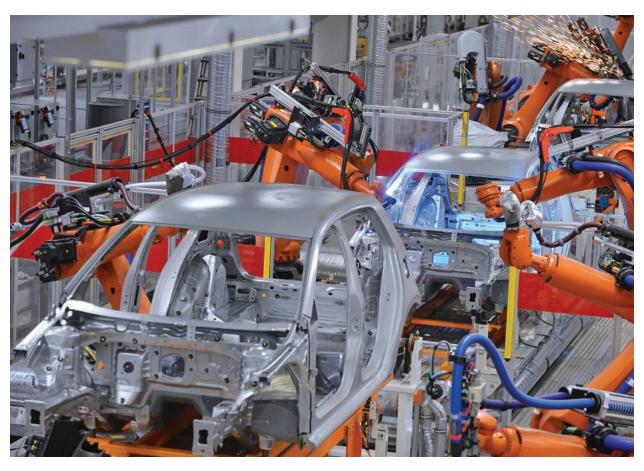
output flow. This provides the exact power required – exactly when you need it – for a reliable, energy-efficient solution.

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

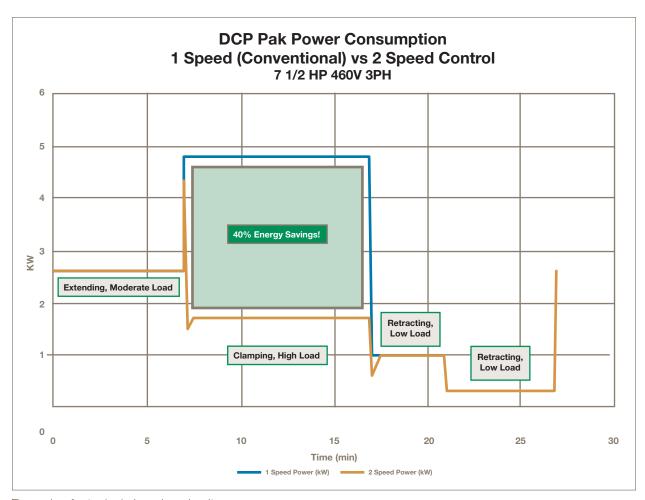
- Combines benefits of DCP technology into proven Pak power units
- Pre-programmed with one of five available configurations
- Fully factory tested
- Rugged UL listed, IP66 drive enclosure



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







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 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.

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.

Worldwide Division Headquarters

Europe, Middle East, Africa

AE – United Arab Emirates, Dubai Tel: +971 4 8127100 parker.me@parker.com

AT – Austria, Wiener Neustadt Tel: +43 (0)2622 23501-0 parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt

Tel: +43 (0)2622 23501 900 parker.easteurope@parker.com

AZ - Azerbaijan, Baku Tel: +994 50 22 33 458 parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles Tel: +32 (0)67 280 900 parker.belgium@parker.com

BG - Bulgaria, Sofia Tel: +359 2 980 1344 parker.bulgaria@parker.com

BY - Belarus, Minsk Tel: +48 (0)22 573 24 00 parker.poland@parker.com

CH - Switzerland, Etoy Tel: +41 (0)21 821 87 00 parker.switzerland@parker.com

CZ - Czech Republic, Klecany Tel: +420 284 083 111 parker.czechrepublic@parker.com

DE – Germany, Kaarst Tel: +49 (0)2131 4016 0 parker.germany@parker.com

DK - Denmark, Ballerup Tel: +45 43 56 04 00 parker.denmark@parker.com

ES - Spain, Madrid Tel: +34 902 330 001 parker.spain@parker.com

FI - Finland, Vantaa Tel: +358 (0)20 753 2500 parker.finland@parker.com

FR - France, Contamine s/Arve Tel: +33 (0)4 50 25 80 25 parker.france@parker.com

GR - Greece, Athens Tel: +30 210 933 6450 parker.greece@parker.com

HU - Hungary, Budaoers Tel: +36 23 885 470 parker.hungary@parker.com IE - Ireland, Dublin Tel: +353 (0)1 466 6370 parker.ireland@parker.com

IT – Italy, Corsico (MI) Tel: +39 02 45 19 21 parker.italy@parker.com

KZ - Kazakhstan, Almaty Tel: +7 7273 561 000 parker.easteurope@parker.com

NL - The Netherlands, Oldenzaal Tel: +31 (0)541 585 000 parker.nl@parker.com

NO - Norway, Asker Tel: +47 66 75 34 00 parker.norway@parker.com

PL - Poland, Warsaw Tel: +48 (0)22 573 24 00 parker.poland@parker.com

PT - Portugal, Leca da Palmeira Tel: +351 22 999 7360 parker.portugal@parker.com

RO – Romania, Bucharest Tel: +40 21 252 1382 parker.romania@parker.com

RU - Russia, Moscow Tel: +7 495 645-2156 parker.russia@parker.com

SE - Sweden, Spånga Tel: +46 (0)8 59 79 50 00 parker.sweden@parker.com

SK – Slovakia, Banská Bystrica Tel: +421 484 162 252 parker.slovakia@parker.com

SL – Slovenia, Novo Mesto Tel: +386 7 337 6650 parker.slovenia@parker.com

TR - Turkey, Istanbul Tel: +90 216 4997081 parker.turkey@parker.com

UA - Ukraine, Kiev Tel: +48 (0)22 573 24 00 parker.poland@parker.com

UK - United Kingdom, Warwick Tel: +44 (0)1926 317 878 parker.uk@parker.com

ZA – South Africa, Kempton Park Tel: +27 (0)11 961 0700 parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario Tel: +1 905 693 3000

US - USA, Cleveland (industrial)

Tel: +1 216 896 3000

US – USA, Elk Grove Village (mobile)

Tel: +1 847 258 6200

Asia Pacific

AU – Australia, Castle Hill Tel: +61 (0)2-9634 7777

CN – China, Shanghai Tel: +86 21 2899 5000

HK – Hong Kong Tel: +852 2428 8008

ID – Indonesia, Tangerang Tel: +62 21 7588 1906

IN - India, Mumbai Tel: +91 22 6513 7081-85

JP - Japan, Fujisawa Tel: +81 (0)4 6635 3050

KR – South Korea, Seoul Tel: +82 2 559 0400

MY - Malaysia, Shah Alam Tel: +60 3 7849 0800

NZ - New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore Tel: +65 6887 6300

TH – Thailand, Bangkok Tel: +662 186 7000

TW – Taiwan, New Taipei City Tel: +886 2 2298 8987

VN – Vietnam, Ho Chi Minh City Tel: +84 8 3999 1600

South America

AR – Argentina, Buenos Aires Tel: +54 3327 44 4129

BR - Brazil, Cachoeirinha RS Tel: +55 51 3470 9144

CL – Chile, Santiago Tel: +56 2 623 1216

MX - Mexico, Toluca Tel: +52 72 2275 4200

© 2016 Parker Hannifin Corporation, all rights reserved

HY28-2701-01/SYS/US



Parker Hannifin Corporation **Hydraulic Pump Division** 14249 Industrial Parkway Marysville, OH 43040 USA phone 937 644 4435 fax 937 642 3639 www.parker.com