

ENGINEERING
TOMORROW

Danfoss

Danfoss Best Point Control

Greater **efficiency** through
intelligent engine speed control

Reduce machine fuel
consumption by up to

25%



Maximize power, efficiency, and user comfort

Danfoss Best Point Control (BPC) is a software technology that can dramatically increase the efficiency of a machine. By detecting the power required for the operating conditions and automatically adjusting the engine speed to meet optimum efficiency points, BPC adds instant value to virtually any application.

As a PLUS+1® compliant software block, BPC offers plug-and-perform integration into existing work flows. Regardless of the application, BPC helps to reduce development time and almost instantly increases machine control.



Leverage existing PLUS+1 technology
Best Point Control is just one of the latest additions to the Danfoss portfolio of software blocks that can be quickly integrated using PLUS+1. Danfoss can customize BPC or any other software block to meet any OEM's unique needs.



How BPC can boost your bottom line
In traditional hydrostatic transmissions, the operator uses a foot pedal to control engine speed. With BPC, the operator controls only the machine's forward and reverse movements via the drive pedal and directional command. The BPC software instantly adjusts the engine and hydrostatic transmission to deliver maximum efficiency — regardless of how the machine is being operated.



Fuel savings of up to 25%. The integration of BPC technology can create average fuel savings of up to 25% depending on the application type, duty cycle, and system configuration. Danfoss BPC delivers fuel savings at almost every operating point, including transport driving, acceleration, deceleration, and work functions.



Increase driver comfort and productivity. In microseconds, the system determines the lowest possible engine speed to accomplish any work function. This not only takes the burden of controlling engine speed off operators, but also improves productivity by increasing machine responsiveness and control.



Decrease noise and emissions in the work area. Keep engine work at the appropriate level for every task while reducing overall noise and emissions. Lower engine noise is easier on operators and also critical when working on sites that have noise restrictions, such as residential areas.



Get the most work out of your engines. The ultra-efficient use of power for each task frees engine power to operate other sub-systems, such as work functions, fan drives, steering, and more. This also has the potential to reduce OEM costs and help with Tier IV and eventual Tier V compliance.

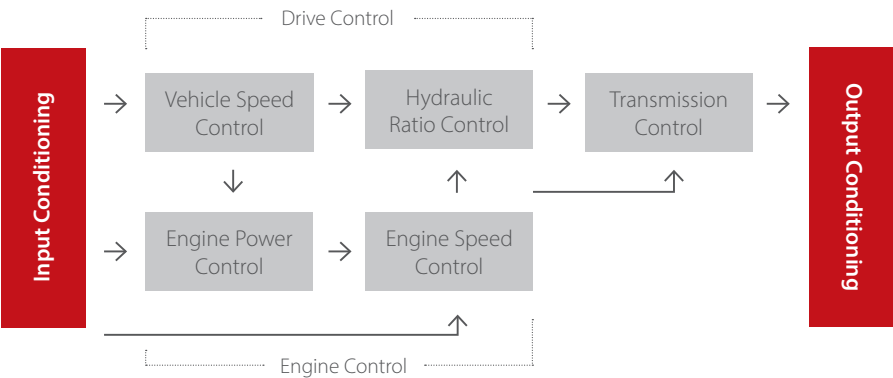


Consistent operator performance. By making instant adjustments to engine speed and the hydrostatic transmission, BPC technology allows you to get the most out of your machine or your fleet — regardless of operator skill level.



Immediate value, regardless of the application. BPC technology provides immediate efficiency gains for almost any application. From agriculture to forestry, tractors to telehandlers, BPC can create tangible results for your business.

Typical scenario:



CUSTOMER PROFILE

Creating greater efficiency through partnership and application expertise.

When a telehandler manufacturer recently embarked on a product redesign, they set some aggressive efficiency and performance goals. After consulting with Danfoss Power Solutions system application experts on the advantages of an integrated electronic approach to machine efficiency, they established a strong partnership with Danfoss Power Solutions throughout the telehandler development process.

By utilizing the engine speed control efficiencies provided by integrating Danfoss Best Point Control with PLUS+1 compliant Danfoss H1 pumps and motors, the telehandler manufacturer was able to achieve an average machine fuel savings of almost 18%.



Plug and perform

integration regardless of the application.

About Danfoss Power Solutions

Danfoss Power Solutions is a global manufacturer and supplier of high-quality hydraulic and electronic components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of off-highway vehicles. We help OEMs around the world speed up system development, reduce costs, and bring vehicles to market faster.

Danfoss Power Solutions — your strongest partner in mobile hydraulics.

Products we offer:

- Bent Axis Motors
- Closed Circuit Axial Piston Pumps and Motors
- Displays
- Electrohydraulic Power Steering
- Electrohydraulics
- Hydraulic Power Steering
- Integrated Systems
- Joysticks and Control Handles
- Microcontrollers and Software
- Open Circuit Axial Piston Pumps
- Orbital Motors
- PLUS+1® GUIDE
- Proportional Valves
- Sensors
- Steering
- Transit Mixer Drives

Wherever off-highway vehicles are at work, so is Danfoss Power Solutions. We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Go to powersolutions.danfoss.com for further product information.

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