

Up to

Up to

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## Hydraulic motors MHP 20 and MHP 27

Thanks to their innovative design, the MHP20 and MHP27 But besides their performance, the MHP 20 and MHP 27 motors will offer superior performances (Higher speed and power, working pressure of 500 bar [7,252PSI]) compared to conventional cam-lobe motors. These characteristics make these components suitable for any applications requiring highly performing hydraulic drives, such as agricultural machines, drilling rigs or industrial.

motors will also allow improvement of the overall efficiency of the transmission resulting in lower fuel consumption for the machine, while ensuring long and reliable life time, required for the most demanding applications.







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draulic	motors
HP 20	
HP 27	

		MHP 20	MHP 27
Displacement	Displacement range cm³/rev [in³/rev]	1 430 - 2 430 [87 - 148]	1 890 - 3 520 [115 - 215]
Speed	Continuous max. speed rpm	up to 505	up to 340
Torque	Max. torque N.m [lb.ft]	up to 16 700 [12,317]	up to 24 000 [17,701]
Power	Max. power kW [HP]	up to 200 [268]	up to 280 [375]
Pressure	Max. pressure bar [PSI]	500 [7,252]	500 [7,252]
Weight*	kg [lb]	170 [275]	170 [275]

<sup>\*</sup> Weight for MHP20 and MHP27 wheel flange motors

## Various output shaft design

Wheel flange



Male splined shaft

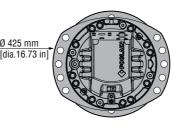


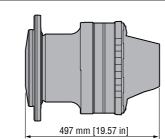
Shaft for shrink disc



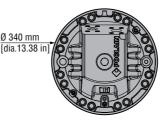
### **Main dimensions**

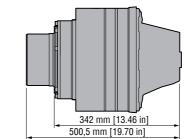
Wheel flange motor



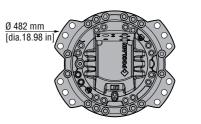


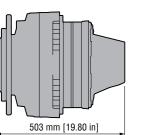
Shrink disc motor



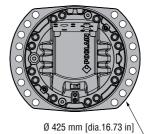


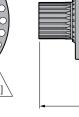
Wheel flange motor with C27 combined brake

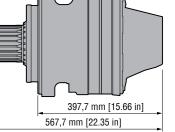




Splined shaft motor







## Flanged valve



Designed with a flat porting surface, the MHP 20 and MHP 27 motors can receive valves blocks, which will can flanged on top of their cover in order to enhance the control (electrical command for shifting) and facilitate the plumbing.

Hydraulic motors MHP 20 MHP 27

#### Brake offer

The C27 combined brake available on MHP 20 and MHP 27 motors, combines dynamic and parking brake ability and offers powerful and reliable braking performance thanks to its closed design (wet discs technology) not sensitive to external pollution.

		C27 combined brake
Dynamic brake	Max. torque N.m [lb.ft]	33 000 [24,340]
	Control pressure bar [PSI]	80 [1160]
	Max. permissible energy kJ [kcal]	1 000 [239]
Parking brake	Parking brake torque (new brake) N.m [lb.ft]	18 000 [13,276]
	Max. / mini. debraking brake bar [PSI]	135 / 100 [1,958 / 1,450]

With the C27 combined brake, the MHP20 and MHP27 motors are available with two different mountings position

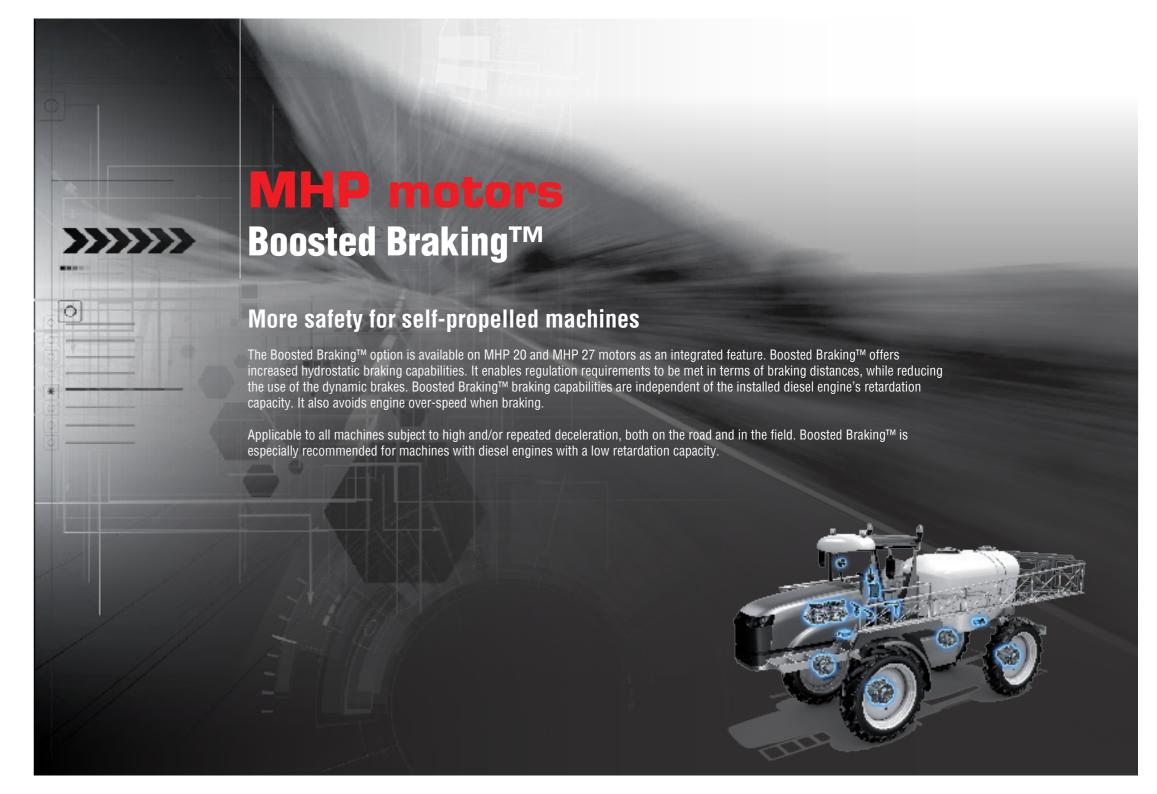
to offer more flexibility.

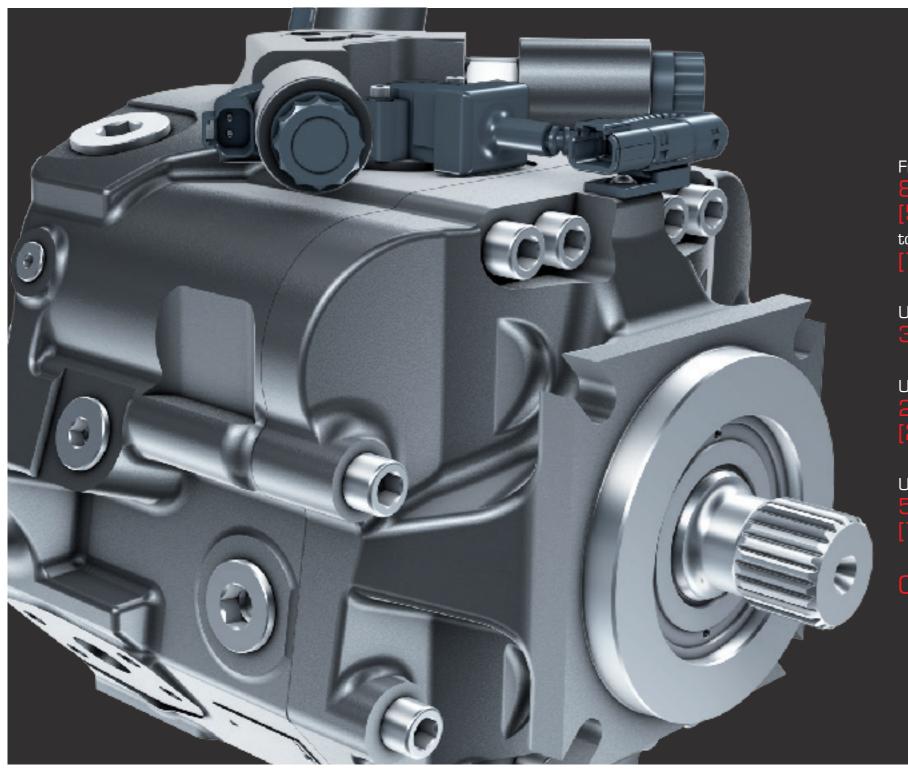
#### Mounting on bearing support



Mounting on cover







Up to

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# Hydraulic pumps PW/PWe 085 and PW/PWe 096

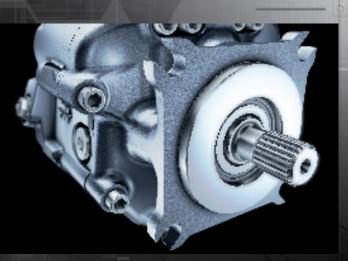
Users of your machines expect reliability, precision and performance that minimize energy costs and maximize productivity and user comfort.

The PW/PWe pump range has been designed by Poclain Hydraulics with great attention to reliability, compactness, energy efficiency and high power density. This range of pumps will contribute to the commercial success of your machines by providing maximum added value, which is sure to satisfy your customers.

The PWe pump, with its embedded electronics, contains all the software functions required for a high-performance machine. Its Plug & Drive ™ system simplifies integration and reduces your development times and costs.







Hydraulic pumps PW/PWe 085 PW/PWe 096

## Efficiency

Machines' ecological and economic impacts are key concerns for you and your customers.

The PW/PWe range has been designed with the aim of providing a pump offering a high level of efficiency, synonymous with a reduction in fuel consumption.

## 92% efficiency

## **Axial compactness**

The technical solutions required by the new anti-pollution standards reduce the space available in engine compartments.

The PW/PWe range meets these new integration constraints perfectly by offering the best axial compactness on the market.

278 mm [10.94 in] (axial length)

Robustness & Reliability

500 bar [7,252 PSI]



## High Power

Overall efficiency is one of your machines' characteristics. By augmenting pressure and speed to unrivalled levels, the PW/PWe range will boost your machines' productivity, to your customers' great satisfaction.

## 3850 rpm

## Accuracy

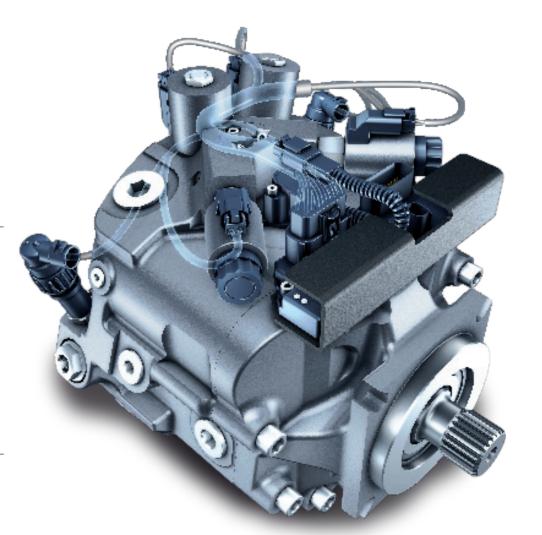
User comfort and safety are selection criteria for your customers. The PW/PWe range has an exclusive electronic control that ensures it behaves precisely, dynamically and safely.

Coupled with dedicated Electronic Control Units, your machines can meet current and future demands for comfort, safety and performance.

## Control SA

## High value added

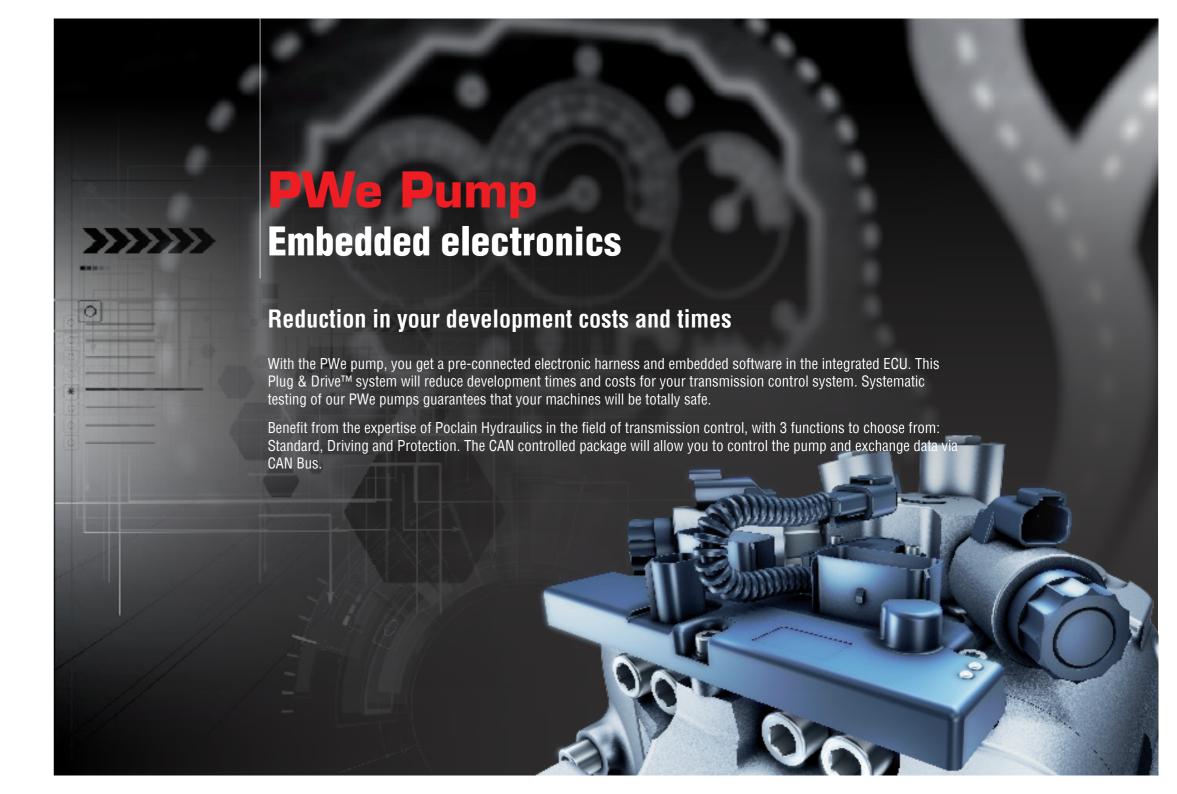
Plug & Drive™

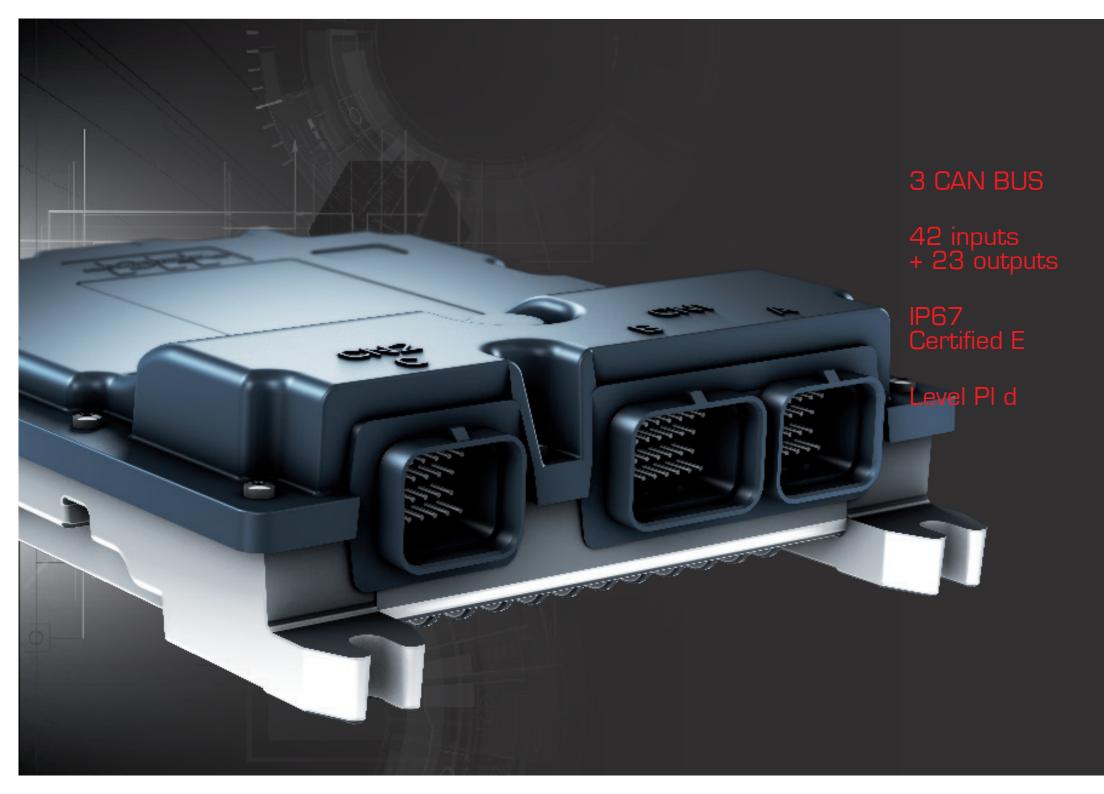


Hydraulic pumps PW/PWe 085 PW/PWe 096

		PW/PWe 085	PW/PWe 096	PW/PWe 115	PW/PWe 130
Displacement	cm³/rev [in³/rev]	85,2 [5.20]	96,4 [5.88]	-	-
Spood	Continuous max. speed rpm	3 650	3 650	-	-
Speed	Intermittent max. speed rpm	3 850	3 850	-	-
Pressure	Continuous max. pressure bar [PSI]	450 [6,527]	400 [5,802]	-	-
riessuie	Intermittent max. pressure bar [PSI]	500 [7,252]	450 [6,527]	-	-
Weight	kg [lb]	71 [157]	71 [157]	-	-

		PW/PWe 085	PW/PWe 096	PW/PWe 115	PW/PWe 130
	Speed sensor	•		-	-
	Temperature sensor	•	-	-	-
Main options	Pressure sensor	•	•	-	-
•	Exchange valve	•	•	-	-
	Integrated filter with pollution indicator	•	•	-	-





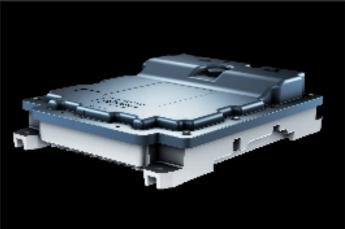
## Electronic Control Units SD-CT 200 and SD-CT 300

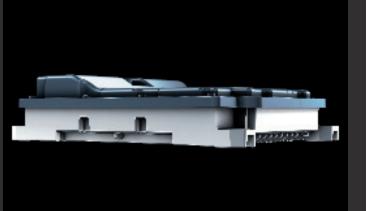
Your customers expect simple machines that are comfortable to use, and adapt to different work and road conditions while achieving high performances and reduced energy costs.

The SD-CT 200 and SD-CT 300 ECUs bring the added value of high-performance electronic controls, resulting in an increase in productivity, energy efficiency and user comfort.

The available software function library enables the SD-CT 200 and SD-CT 300 ECUs to bring you safety, comfort, productivity and protection of the machine and the environment. You can then customize the control of your hydrostatic transmission to meet your customers' expectations as fully as possible, which will help to make your machines a commercial success.







Electronic Control Units SD-CT 200 SD-CT 300

## Software functions ready to use





#### Protection

Your machines' life span is one of your main concerns and is an increasingly pressing demand. With the SD-CT ECU range and the associated protection functions, the transmission's hydraulic components are used under the best possible conditions and do not deteriorate prematurely.

## **Productivity / Environment**

To meet productivity and environmental criteria, it's not enough to just have high-performance components: electronics have become essential to achieve the performance levels your customers demand.

The SD-CT ECUs range and associated functions bring you all the benefits of Poclain Hydraulics' experience in the field of hydrostatic transmissions.

### Comfort

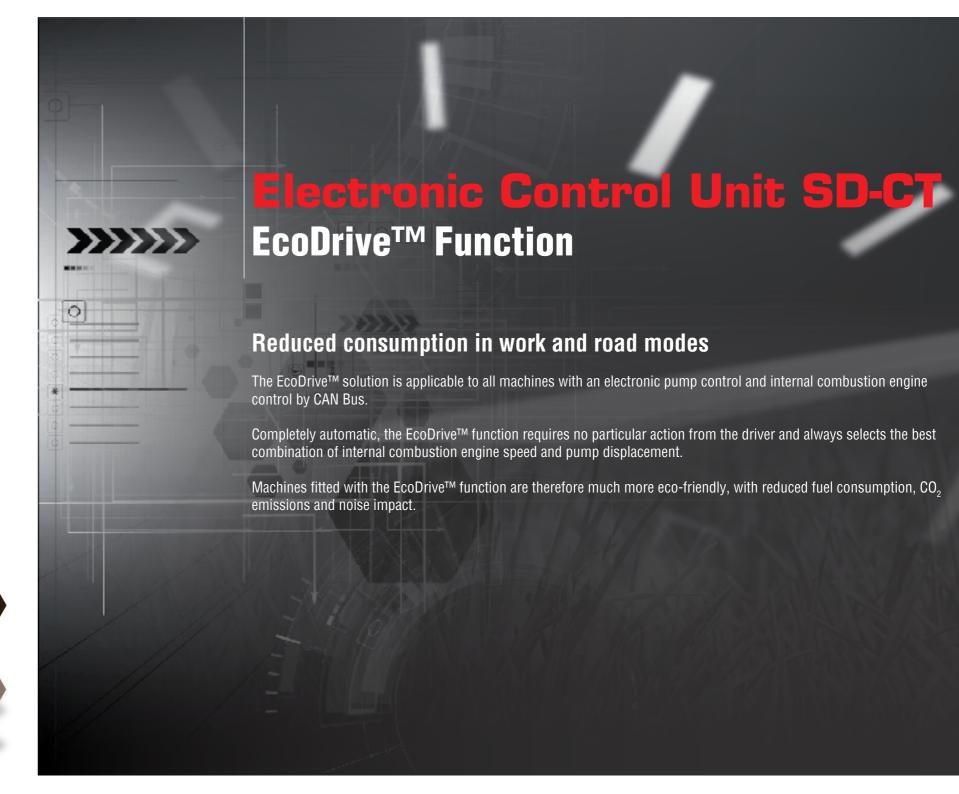
Comfort and ergonomics standards for machines have come a long way. Users have to focus on working the machine. The SD-CT ECUs range and associated functions make your machines simple and enjoyable to drive, allowing the driver to give all their attention to the work they have to do.

### Safety

The safety of your machines' users is of crucial importance. The SD-CT ECUs range and associated safety functions ensure the machine works under the safest possible conditions for your customers.

Electronic Control Units SD-CT 200 SD-CT 300

		SD-CT 200	SD-CT 300	PWe	
	Over temperature	•			I
Duntantina	Over power	•	-	•	•
Protection	Over pressure	•	-	•	•
	Over speed	•		•	•
	Anti-skid	•		•	•
Dun dan district	Traction control	•		•	•
Productivity	Combined dynamic braking	•	•		•
	Anti-stall	•	•	•	-
	Automatic displacement shifting	•	•		-
	Cruise control	•	•	•	-
Comfort	Electronic inching	•	•	•	-
	Hill start	•	-	•	•
	Automotive control	•	•	•	-
Safety	Safety start management	•	•	•	
	Driver presence	•	•	•	Protection
	Light and noise control	•	•	•	
Environment	EcoDrive™	•	•		
	Constant engine speed				Environment



Poclain Hydraulics specializes in the design, manufacture and marketing of hydrostatic transmissions.



We are above all a partner you can rely on to accompany you through the design and sizing of your hydrostatic transmission. We supply the complete transmission (from pumps to motors, including valves and electronic control) and can also test your machine on our proving ground, insuring you receive a reliable, long-term hydraulic solution.





Poclain Hydraulics brings 50 years of experience to agricultural, construction, material handling and on road markets to name a few. We are specialized in the development and global production of high torque ground drives and related components.

Our success is based on a wide range of products, our high quality standards and a strong culture of innovation.





