



PowerMaster

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The PowerMaster represents a full range of submersible electro hydraulic power units, used with success in field for almost 20 years. These robust HPUs reflect demanding needs on submerged intervention spreads.

A wide range of variable displacement pumps and regulator options allow tight adaptation to application specific requirements.

The model range spans over 5 classes from 18 to 250 kW shaft power. All motors are 4 pole, 3 phase AC operating at 50 or 60 Hz. Operating voltages ranges from 400 V to 4 kV.

HPU Class	Power range kW Shaft kW	Models	Typical Applications
1	10-30	18	Tooling / Auxiliary
2	30-75	35, 45	Tooling / Auxiliary
3	75-110	95	Propulsion
4	110-200	135, 195	Propulsion
5	200-250	250	Propulsion

Key features

- Field proven since 2003
- High reliability
- Wide product range
- 3000 m depth rating

The units are configured with internal PT 100 sensor for temperature measurement and water ingress sensor. Signal interface is by Burton 5506-2004 as standard.

Power connection is by Burton 5536-3204 connector as standard. Oil filled hose can be provided as option.

The HPUs utilize the Parker™ PVplus series of pumps as standard. This provides an extensive flexibility in displacement options and control configurations throughout the entire range of HPUs.

For special purposes Innova can offer other materials, surface treatments, alternative voltages, connectors, special pumps / regulators and vertical mount.

MOTOR SPECIFICATION

Shaft power:	18 to 250 kW
Operating frequency:	50 or 60 Hz
Type:	4 pole, 3 phase AC
Voltage range:	400 V to 4 kV
Motor housing:	Machined and anodized aluminium 6082T6
Fasteners, fittings and connectors:	AISI316 stainless steel

The units operate oil filled and compensated to ambient pressure.

Single or dual pumps can be delivered in more than 50 different configurations. Regulator options cover remote differential pressure, load sense, cut off pressure regulators and power limiters in many combinations.

Single pump units			Hydraulic capacity @ 60 Hz			
Class	Shaft power kW	Pump displ. ccm/rev	Max flow LPM	Max pr. at Qmax bar	Max flow at 210 bar LPM	Max flow at 350 bar LPM
C5	250	360	623	217		386
		270	467	289		
C4	195	270	467	225		301
		180	311	338		
	135	180	311	234		208
		140	242	301		
C3	95	180	311	165	244	147
		140	242	212		
		92	159	322		
C2	45	92	159	153	116	69
		63	109	223		
		46	80	305		
	35	92	159	153	90	54
		63	109	223		
		46	80	305		
C1	18	23	40	244		28
		16	28	351		

STANDARD COMPONENTS

Sensors:	Internal PT 100 sensor, Water ingress sensor
Signal interface (std):	Burton 5506-2004
Power connection (std):	Burton 5536-3204 connector
Oil filled hose:	Can be provided as an option
Variable Displacement Pump:	Parker™ PVplus series
	Max working pressure: 350 bar

Dual pump units				Hydraulic capacity @ 60 Hz			
Class	Shaft power kW	Pump 1	Pump 2	Max flow LPM	Max pr. at Qmax bar	Max flow at 210 bar LPM	Max flow at 350 bar LPM
C5	250	360	180	934	145	700	420
		270		779	173		
		180		623	217		
		180	92	471	287		
C4	195	270	92	626	168	500	334
		180	180	623	169		
			92	471	224		
			46	391	269		
	135	180	92	471	155	347	230
			63	420	173		
			46	391	186		
		140	32	367	199		
			92	401	182		
			63	351	208		
92	46	322	227				
	32	298	245				
	92	318	229				
	63	268	272				
C3	95	140	92	401	128	242	145
			63	351	146		
			46	322	159		
			32	298	172		
	92	92	318	161			
		63	268	191			
		46	239	215			
		32	215	239			
C2	45	46	46	159	153	115	68
			32	135	180		
			23	119	204		
			16	107	227		

OTHER PUMP OPTIONS AVAILABLE ON REQUEST