

SeaBotix offers an upgrade to the already powerful thrusters included with the LBV. By fitting the optional brushless DC thrusters Bollard thrust is increased from 2.3 kgf to 3.25 kgf per thruster. The combined forward thrust is an impressive 6.3 kgf. With the added thrust LBV is able to work in higher currents and pull longer lengths of umbilical.

Each brushless DC thruster is externally the same as the standard thrusters with the exception of an oil-compensation tube located next to the wire form. The thrusters are filled with mineral oil under vacuum to ensure all air is purged from the thruster. With the external compensator positive pressure always exists against the sealing o-rings eliminating the possibility of water intrusion.



Adding to the increased reliability and safety of the brushless thrusters is the lower maintenance improvement. Due to the fact that the brushless thruster does not use any type of brush for its operation there is no brush wear. Oil filled and brushless equates to thousands of hours of maintenance free operation.

The brushless DC thrusters have a higher power requirement at 150 watts per thruster. With this increased requirement the power supply in the LBV and the isolation transformer must be upgraded. The vehicle power supply becomes a 600 watt supply and the transformer is increased to 1,000 watts. In addition to the upgraded power supply the added weight of the oil-compensation requires the LBV be fitted with additional flotation.



With 50 percent more power and reduced maintenance the brushless DC upgrade is highly recommended to those that work their LBV to the limits and need the added security and performance. Package must be fitted by SeaBotix or authorized agent.

Brushless DC Thrusters (HPDC150) Specifications

Length:	173 mm - 6.8 in	Bollard Thrust:	3.25 kgf - 7.2 lbs (each)
Width:	95 mm - 3.7 in	Compensation:	Mineral oil with external compensator
Height:	90 mm - 3.5 in	Propeller:	2 blade (76 mm - 3 in)
Weight in air:	710 g - 1.6 lbs	Power:	150 watts
Weight in water:	400 g - 0.9 lbs	Safety:	Isolated, current limiter
Depth rating:	1,500 m - 5,000 ft		