

## Hydraulic Thrusters

Benefits of DME Thrusters:

- Market matched performance through high efficiency motors and optimised propellor and duct design
- External cowl improves thruster bollard pull, essential for maximising vehicle performance during heavy duty tasks.
- Asymmetric design gives near equal performance in both directions
- Aluminium design for light weight, also available in stainless steel for more arduous applications
- Dual internal bearings for improved running lifetime
- Tooling, spares kits and maintenance instructions provided to facilitate offshore vehicle maintenance – maximise your vehicle uptime, recover from problems quickly
- Design for manufacture gives improved supply and reduced lead-times

Options available on all units:

- Optional speed sensor for high accuracy closed loop control
  - Sensor and harness is enclosed within the pedestal to reduce risk of failure from thruster wash.
- Thruster guards to reduce rope entanglement risk during operations

## Product Range – Hydraulic Thrusters:

Propellor diameter [mm]	DME PN	Motor size [cc]	Thrust at 280bar (estimated) [kg]	Flow at 250 bar [lpm]	Drive Power (kW)
500	A1425-GA	81cc	700	98	46
300	A1810-GA	25cc	305	35	16

Additional thruster and motor sizes available on request.  
Units can be provided from 250mm upto >800mm diameter

Values provided are theoretical engineering estimates. Thrust figures don't account for losses due to obstructions in vicinity of the thruster. These can range from 5% to >20% depending on the thruster mounting location  
Please refer to individual drawings and datasheets for final specification and integration details.

## Typical arrangements

Hydraulic thrusters are used for powering medium to large vehicles subsea. Typically they are arranged in an open loop hydraulic configuration fed from a single valve station and main system pump. Larger thrusters can also be controlled via a closed loop hydraulic pump further improving system efficiency with a reduction in system weight. Within DME's product range we have subsea valve-packs that can control thrusters in either of these configurations, if you're unsure we're happy to share our expertise in optimising systems for best performance.

To receive a quote please contact us: [sales@dme-systems.com](mailto:sales@dme-systems.com)

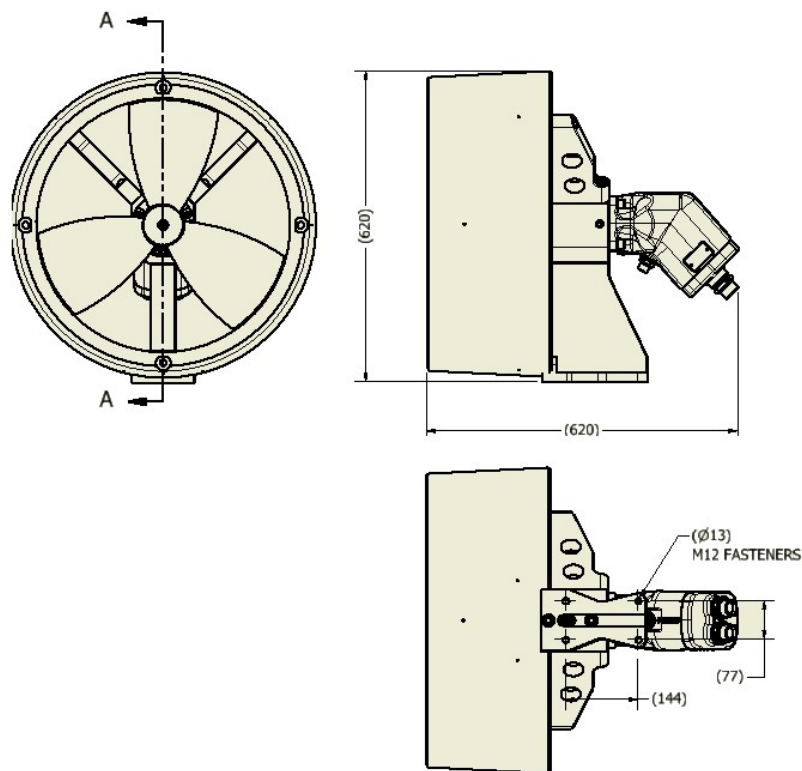


Figure 1 – Mounting detail for 500mm thruster – A1425-GA