

HUMPHREE

Trim and stabilisation systems

REFERENCE DOCUMENT



Queensland Police – 24m Patrol Vessel

Humphree Interceptors: 4x HE945, 75mm blade deployment

Humphree Control systems: Active Ride Control (HSC5)

Propulsion: 2x 5 Bladed Propellers

Vessels: Series 1 – Lyle M. Hoey, W. Conroy, Brett T. Handran
Series 2 – Perry Irwin, Brett Irwin, Damian Leeding

Data:

- Top speed: 25 knots
- LOA: 25.1 m
- Displacement: 64,790kg (half load)

Results:

- At hump speed the vessel saved 4% fuel and gained 0.8 knots
 - At cruising speed the vessel saved around 2% fuel with a speed increase of around 0.5 knots
 - Rolling motions at 20 knots was reduced by 48%
 - Pitching motions at 20 knots was reduced by 20%
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