



# QSD2.0 Quantum Engine Series

## POWER RATINGS

Rating	HO	HO	HO	HO
Metric hp	115	130	150	170
bhp	113	128	148	168
kW	84	95	110	126
Rated rpm	3000	4000	4000	4000
Max Torque ft-lbs	228	222	227	229
Max Torque N-m	310	301	308	311
rpm	2200	2600	2600	3000

**115 rating for inboards only.**

**170 rating for sterndrives only.**

## ENGINE SPECIFICATIONS

Configuration	In-line 4-cylinder, 4-stroke diesel
Bore & Stroke	83 mm x 92 mm (3.27 in x 3.62 in)
Displacement	2.0 L (122 in <sup>3</sup> )
Aspiration	Turbocharged / Sea Water Aftercooled
Rotation	Counterclockwise facing flywheel

## FEATURES AND BENEFITS

### Engine Design

Four valves per cylinder for improved air flow.  
Hydraulic lifters need no adjustment.  
Counterbalancer shafts for reduced vibration.  
Full-authority electronic engine control for reduced emissions and improved fuel economy.  
SmartCraft electronics for improved engine monitoring and diagnostics.



**Fuel System:** Bosch Common Rail (CRS 2.0);  
Integrated WIF sensor in secondary fuel filter.

**Lubrication System:** Cast aluminum oil pan

**Electrical System:** 12 Volt system

**Emissions:** EPA Tier 2, IMO and RCD compliant

**Cooling System:** Sea Water Aftercooled

## AVAILABLE ACCESSORIES

**Engine Controls:** Mechanical Throttle and Shift.  
DTS compatible - April 2008.

**Instrumentation:** SmartCraft Digital displays and / or analog style gauges provide data on engine speed, oil pr, coolant temp, battery voltage, vessel speed, and drive trim position.

**Vessel System Integration:** New Vessel Interface Panel (VIP)



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## ENGINE DIMENSIONS

Length		Width		Height		Weight (Dry)	
mm	in	mm	in	mm	in	kg	lb
786.5	30.96	823	32.4	763	30	250	551

\* Weight is engine with heat exchanger system - average.

Overall width, height and length

## FUEL CONSUMPTION (PROP CURVE)

Rating	QSD2.0-115 HO				QSD2.0-130 HO				QSD2.0-150 HO				QSD2.0-170 HO			
rpm	3000	2800	2600	2400	4000	3800	3600	3400	4000	3800	3600	3400	4000	3800	3600	3400
kW	84	70	57	46	95	83	72	62	110	96	83	71	125	108	93	80
l/hr	21.8	17.4	14.4	11.6	29.5	23.8	20.1	16.8	34.1	26.6	6.1	5.0	37.4	30.2	25.3	21.1
bhp	113	94	77	62	128	111	96	83	148	129	111	95	168	146	126	108
gal/hr	5.8	4.6	3.8	3.1	7.8	6.3	5.3	4.4	9.0	7.0	6.1	5.0	9.9	8.0	6.7	5.6

Data represents performance along a 2.7 fixed pitch propeller curve. Fuel consumption has a tolerance of +5% and is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Cummins has always been a pioneer in product improvement. Thus, specifications may change without notice. Consult your local Cummins professional for further information.

### Rating Definitions

Ratings are based on ISO 8665 conditions of 100kPa (29.612 in Hg) and 25°C (77°F) and 30% relative humidity. Propeller shaft power represents the net power available after typical gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

### High Output

Intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure / non-revenue generating applications that operate less than 500 hours per year.



**Cummins MerCruiser Diesel**

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