



# MONOBLOCK DIESEL



[ Marine engine series - 6 cylinder ]



6 cyl. | 88-215 kW



# MONOBLOCK DIESEL

## 6 cylinder



right side



left side



front

The STEYR Marine MONOBLOCK Engines are designed for high performance and continuous rating. The High Pressure UNIT INJECTOR technology enables an excellent torque and speed range. The complete engine package is conceived for Sterndrive, transmission and Water Jet systems. Remarkable features of the STEYR Marine Engines are the dynamic behaviour and immediate response as well as the impressive acceleration.

### SERVICE LIFE

The STEYR Marine Engines are manufactured using high alloy materials to provide enduring longevity for all running components. Using corrosion resistant materials for the entire seawater system as a standard in the dual circuit cooling system. Consequently designed solutions to meet the criteria of marine environment guarantee the best corrosion protection for any auxiliaries and electronic components in marine ambience.

### COMFORT

The patented STEYR 2-stage UNIT INJECTOR technology ensures a worldwide approved and smooth operation noise. The additional elastic separation of the MONOBLOCK against the aluminum casted engine housing reduces the engine related vibration transmitted into the hull therefore the noise level on board is further reduced. Torque and speed range characteristics enable optimal matching to individual application while maintaining transmission, gear ratio and propeller dimensions. The big choice of matched accessories fulfills the highest level of quality and comfort for you on board your vessel.

### EXHAUST EMISSIONS

The trend-setting UNIT INJECTOR system is most environmentally friendly. It fulfills the RCD 2003/44 as well as the actual EPA and IMO emission regulations.

### TRANSMISSION

STEYR Marine Engines allow the installation with different driving systems in your boat. Adaptation for Marine transmission with different output configuration (direct, horizontal down-angle 8°, V-drive 12°), to choose from as well as an intermediate housing for propeller shaft and kits for installation to MerCruiser Bravo I, Bravo II and Bravo III Sterndrives.

## TECHNICAL DESCRIPTION

### ENGINE MONOBLOCK

The unique and robust MONOBLOCK design, engine block and cylinder head made from high grade alloy cast iron, without limitation in cooling and unrivaled roundness of the cylinder, give exceptional life time for the liner

- > Chrome-Molybdenum forged crankshaft, dynamically balanced
- > Pistons are cast from high silicon aluminum, with oil cooling gallery and a ceramic coated top ring
- > Hardened valve-seats high performance NIMONIC valve material
- > Elastic coupling on flywheel, design matched depending on application

### ENGINE MOUNTING

Adjustable front and rear silent blocks capable to take propeller thrust

### LUBRICATION SYSTEM

- > Exchangeable oil filter cartridge
- > Oil scavenging through dipstick pipe
- > Closed crankcase breathing system

### FUEL SYSTEM

- > Integrated high pressure UNIT INJECTOR up to 2,000 bar with dual stage fuel injection technology, operated by overhead camshaft and rocker arms
- > Electric fuel pump (automatic bleeding capability)
- > Exchangeable fuel filter cartridge incl. water separator

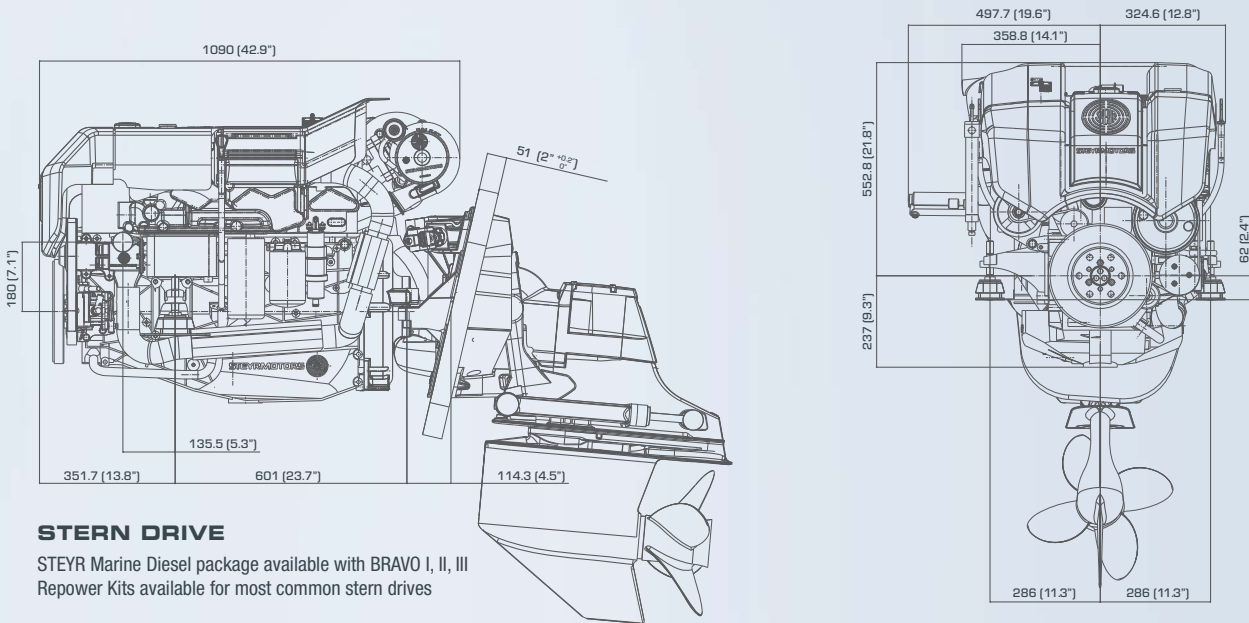
### EXHAUST SYSTEM

Freshwater cooled exhaust manifold and seawater cooled exhaust elbow

### COOLING SYSTEM

- > Freshwater cooling system with thermostat control and expansion tank
- > Heat exchanger with integrated expansion tank system
- > Connection prepared for boiler/cabin heating system
- > Sea water pump with impeller, integrated and replaceable wear plates

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**STERN DRIVE**

STEYR Marine Diesel package available with BRAVO I, II, III  
Repower Kits available for most common stern drives

Engine type	SE126E25	SE156E25	SE196E35	SE236E40	SE236S40	SE266S40	SE306J38
Output (crankshaft) [kW] (HP9)	88 (120)	110 (150)	140 (190)	170 (231)	170 (231)	190 (258)	215 (292)
Rpm at full load	2175 - 2550	2175 - 2550	3050 - 3550	3450 - 4050	3700 - 4050	3700 - 4050	3500 - 3850
Cylinders	6 in line	6 in line	6 in line	6 in line	6 in line	6 in line	6 in line
Displacement [cm <sup>3</sup> ]	3200	3200	3200	3200	3200	3200	3200
Bore [mm]	85	85	85	85	85	85	85
Stroke [mm]	94	94	94	94	94	94	94
Compression ratio	17:1	17:1	17:1	17:1	17:1	17:1	17:1
Max. torque [Nm]	391	488	444	472	487	544	588
at speed [rpm]	2000	2000	2800	3200	2000	2000	3420
[lbs-ft]	288	360	327	348	359	401	434
Weight [kg]	325	325	325	330	330	330	330
Weight per unit of power [kg/HP]	5,02 (11,07 lbs / HP)	4,02 (8,86 lbs / HP)	3,16 (6,96 lbs / HP)	2,64 (5,82 lbs / HP)	2,64 (5,82 lbs / HP)	2,36 (5,21 lbs / HP)	2,09 (4,60 lbs / HP)
Emission standard	EPA Tier III, RCD, 9768EC Rhein, BSO 3, IMO Nox, RINA, IMO Solas						
Injection system	two stage unit injectors						
Standard alternator [A]	120 - 150						
Electronic engine diagnostic	yes						

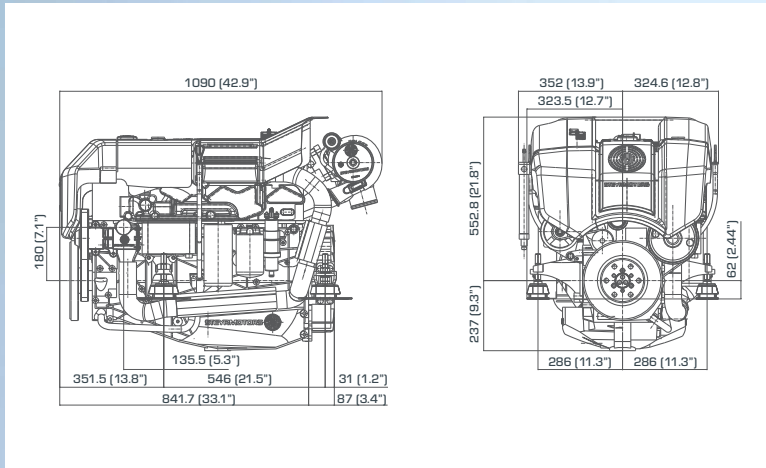




# MONOBLOCK DIESEL

## 6 cylinder

### 6-cylinder, Bobtail



Dimensions may differ according to engine types and are not for installations



Subject to technical changes - 10/11

## SCC – STEYR CONTROL CENTER

### REPRESENTS THE STATE OF THE ART

Engine Interface and Multipurpose Touch Screen-Display based on SAE J1939 CAN2.0 Databus

Features are:

- intuitive and logical user interface
- integrated Engine Diagnostic
- electronic switches for external inputs / outputs
- GPS speed / position / course / time
- Online Computing of fuel consumption / load / driving range / propeller slip
- Metric, British & US values
- 5,5" transfective polarized TFT Screen
- comes with GPS-Sensor, installation, brackets, cables



To use QR-Codes you need a Smart-Phone App. For example „Red Laser“ for iPhone and „Barcode Scanner“ for Android. The installed App will automatically recognize it when you point your camera at the QR Code. Your preferred App is available in your trusted App-Store. (Terms according to your mobile phone provider)

