

# STEYR MARINE ENGINES MO256H45

184 KW (250 HP) rated speed 4500 rpm 6-Cylinder

The state-of-the-art STEYR Marine Diesel Engine with dual cooling circuit fulfilling the strengthened future marine emission regulation.

The STEYR Marine Engine 256 is designed for high performance and continuous pleasure boat rating. The innovative fuel injection technology enables an excellent torque and speed range. The complete engine package is conceived especially for sterndrive 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 fuel injection technology provides for a worldwide approved and smooth operation noise. Noise emission levels are over the most important operating range below the running noise of gasoline engines. 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 characteristic 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 of your vessel.

### **EXHAUST EMISSIONS**

The trend-setting UNIT INJECTOR system already enables us today to conform with the valid emission regulations BSO II and SAV 2, respectively we can fulfill the announced EPA – Tier 2 and suchlike emission regulations.

#### TRANSMISSION

STEYR Marine Engines allow the installation with different driving system 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, Jet-Drives and kits for installation to MerCruiser Bravo I, Bravo II and Bravo III Stern-Drives.

#### TECHNICAL DESCRIPTION ENGINE MONOBLOCK

Our 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 gives exceptional life time for the liner. • Chrome-Molybdenum forged crankshaft, dynamically balanced

- Pistons are cast from high silicon aluminum, with oil cooling channel in 3-ring technology
- · 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

## EXHAUST SYSTEM

Freshwater cooled exhaust manifold and seawater cooled exhaust elbow

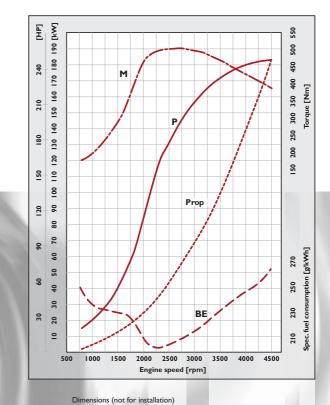
## COOLING SYSTEM

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

# STEYR MARINE ENGINES

# **TECHNICAL DATA**

Engine type	MO256H45
	4-stroke, turbocharged, intercooled
	direct-injection, fresh water cooling
Output (crankshaft) kW [HP]	184 (250), acc. ISO 8665 or ISO 3046
Rpm at full load	4500
Cylinders	6 in line
Displacement [cm <sup>3</sup> ]	3200 (195 cid)
Bore [mm]	85 (3.35′)
Stroke [mm]	94 (3.7′)
Compression ratio	17:1
Max. torque [Nm]	500
at speed [rpm]	2800
[lb-ft]	369
Injection system	two stage unit injectors
Standard alternator [A]	90
Electronic engine diagnostic	yes
Weight [kg]	322 (708.4 lbs)
Weight per unit of power [kg/HP]	1.29 (2.84 lbs/HP)



682

266 [10,5]

572 [22,5]

324

20.7 30.6

5.8]

## MARINE GEAR BOX (optional)

Model	ZF 63 or similar
Clutch system	Hydraulic disc
Gear ratio	2.52 / 2.04 / 1.56 : 1
Output configuration	direct / horizontal /
	8° down-angle / V-drive 12°
Dry weight [kg]	44 (97 lbs)

## **ELECTRICAL SYSTEM**

- 12V system plug-in solution
- 14V/90 A marine suitable alternator
- 2-Pole installation (optional)
- Voltage regulator in alternator cares for optimum charging conditions of the batteries
- Glow plugs for a trouble-free cold start
- · Electric starter motor
- Extension cable with plug-in-connection available in various lengths and for fly bridge installations (optional)

## **INSTRUMENT PANEL**

Standard panel includes:

- Key switch ignition and start function
- Control lamps for battery charging, oil pressure, glow plug indication and service code storage
- Revolution counter with hourmeter
- Temperature gauge for engine coolant temperature
- Instrument illumination
- Audible alarm

NEW: The STEYR Naval Control Center "SPORTLINE" an integrated display unit including the functions of digital instruments, switch board, fuel management & driving range calculation, GPS-position, speed over ground, digital manual and diagnostic system (optional).

## ADAPTATION

- for MerCruiser Sterndrive Bravo I, II, III
- · Adaptation kits for most known sterndrives

## **ACCESSORIES / OPTIONS**

- Oil pressure gauge
- Additional key switch for governed speed

1028,5

292.5

140

715

- Connecting cable for secondary helm
- Extra alternator kits
- Hot water systems
  - Separate expansion tanks
  - Sea water filters
- Front power take off
- Fuel pre-filter with water separator
- Chemical products paints, oils, cleaners etc.

Water pick up, sea cock, siphon valve, cooling hose, exhaust system and transom exhaust, fuel filter and fuel pipes, pulleys, filler cap and brackets for auxiliaries - just contact your STEYR Marine Partner he will be delighted to serve you.

Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice. The engine illustrated may not be entirely identical to production standard engines.

Your partner



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