

DIESEL
MONOBLOCK

CYLINDER

[4][6]



MARINE ENGINES

COMPETENCE THROUGH EXPERIENCE

Steyr Motors originates from the former Steyr-Daimler-Puch group and was founded as an entirely independent company following a management buyout in 2001. Drawing from the extensive know-how and experience of 150 years of engineering history, Steyr Motors focuses on the development of high-performance engines and gensets, providing innovative propulsion technologies for current and future demands.

The company has a worldwide reputation for being an expert in engineering and manufacturing of high-performance diesel engines. Steyr Motors provides strong solutions for use on land and sea, i.e. for the marine industry, for special land, amphibious vehicles and for industrial use. The product range includes diesel engines as well as highly-specialized engineering services for specific requirements. Great importance is placed on quality management in every step of the production and service chain. Therefore, the company regularly passes quality audits and certification procedures.

A milestone in the company's history was a remarkable investment in the expansion of the Austrian facilities doubling the premises and capacities. Inaugurated in 2015, the state-of-the-art engineering center is the heart of Steyr Motors' innovation, ensuring cutting-edge developments and extraordinary product launches for the future.



FORWARD **THINKING**

LIGHTWEIGHT POWER PLAYERS

Our speciality is the design of engines and gensets featuring one of the best power-to-weight ratios in the market. Though lightweight and compact, Steyr Motors' products are also very robust and provide remarkable performance. While downsizing has become a trend within the industry, Steyr Motors has always focused on small and lightweight solutions. Our Engines offering higher power density, strong durability and reliability in comparison to heavier products available on the market.

CERTIFIED & **PROVEN**

Steyr Motors' marine engines regularly master most stringent examinations, fulfilling highest safety and emission standards, and thus, are highly suitable for pleasure, work and rescue applications. Our certifications include for instance:

- SOLAS (Safety of Life at Sea)
- RCD
- EPA Tier II & III
- RINA
- IMO EAPP
- IMO NOx
- EIAPP/MARPOL
- BSO II
- ZSUK
- RMRS
- CCS

Furthermore, Steyr Motors received several awards and certificates proving our innovational spirit as well as our endeavor for best quality and functionality. The list of achievements is constantly growing.





POWERING SUSTAINABLE SOLUTIONS WITH PASSION

Outstanding performance is a result of strong innovation and world class engineers. Each engine is designed to exceed the customer expectations, ensuring an enjoyable and reliable ride. Steyr Motors pursues this guiding principle by combining passion, innovational spirit and target-orientation. Thus providing one-step-ahead solutions that stand out in terms of functionality, sustainability, quality and cost-effectiveness.

We strive for excellent results and create the best bespoke engines for our partners by shaping the ideal solution for vehicle, marine and industrial applications. By providing short lead times and utilizing the most efficient resources we are able to provide our customers a completely unique engine experience. This empowers our customers to be ahead of the market with competitive products and services.

EFFICIENT TECHNOLOGIES FOR THE FUTURE

The Steyr Motors product portfolio includes diesel engines solutions for a wide range of applications in the marine, vehicle and industrial business segment. The future engineering strategy continues to focus on diesel and hybrid solutions complying with leading industry standards, such as the ISO 9001:2008 certification, and also emphasizes environmental effects, targeting reduced fuel consumption and emissions.

EXCELLENCE AT SEA

Unlike many other marine offers, Steyr Motors engines are designed and manufactured purely for marine applications, ensuring a sole focus on marine requirements and supreme quality. The underlying Monoblock design has proven time and again its striking characteristics in terms of robustness, weight and size. In addition to the patented unit injection technology.

Within the product development stage, Steyr Motors focuses on the durability, reliability and operational safety of the engine. Each engine can be customized with various kits and options according to individual requirements and preferences. An important feature is also the compactness and unrivaled power-to-weight ratio of Steyr Motors engines, making them very attractive for commercial and pleasure applications alike. Topped off with an eye-catching design, Steyr Motors' products have proven their excellence in prestigious pleasure yachts, prize-winning race boats as well as various (fast) rescue and SOLAS applications.





SE 4-CYLINDER ENGINE SERIES



FACTS

- More torque at lower speed
- New E-Box and ITD
- Sterndrive capable
- EPA Tier III certified

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CYLINDER



The SE 4-cylinder series is based on the well-proven MO series, but designed for more torque at lower speed. Besides the exceptional performance, it is also SOLAS-approved, EPA Tier III certified, RCD compliant and fulfills the requirements of the US Coast Guard. The series is especially intended for installation with sterndrive systems. The SE engines are available as Steyr Motors' marine diesel packages with BRAVO I, II or III and also as repower kits for most common sterndrives.

For more details on the series and the engine models, please ask for our SE 4-cylinder data sheet or contact your local distributor.



SE 4-CYL SERIES

NUMBER OF CYLINDERS	4 in-line
INJECTION SYSTEM	2-stage unit injector
DISPLACEMENT (LT)	2.1
POWER RANGE (KW/PS)	106 / 144 - 120 / 163
TORQUE RANGE (NM)	315 - 330
DRY WEIGHT (KG)	277

SE 6-CYLINDER ENGINE SERIES



FACTS

- Compact & lightweight
- Enduring & robust
- Excellent torque and speed range

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CYLINDER



The SE 6-cylinder series of Steyr Motors is an efficient and flexible marine propulsion system for leisure and commercial applications. The Mono-block design is key to a most compact core engine while the surrounding housings, manifolds and auxiliaries can be easily adapted to many requirements. Compared to larger and heavier engines, the SE 6-cylinder series is a high-performer while remaining lightweight, compact and robust.

As a standard feature, all Steyr Motors marine engines are built with corrosion resistant materials for the entire seawater system in the dual circuit cooling system. Furthermore, the engines show a similar form factor across a wide power range. Consequently, they are perfectly applicable in fleet logistics, ensuring lean logistic practices due to a wide variety of models and many interchangeable parts.

The unrivaled cooling capacity, direct intercooling and diverse options for oil sumps, front-end accessory drives and transmission flanges are additional features of the SE 6-cylinder engine series. A variety of other options is available to equip the engines according to specific needs, including but not limited to:

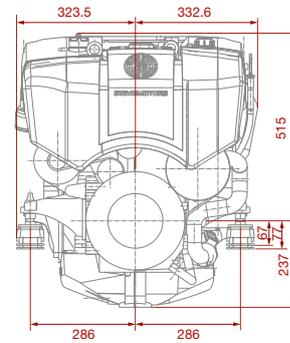
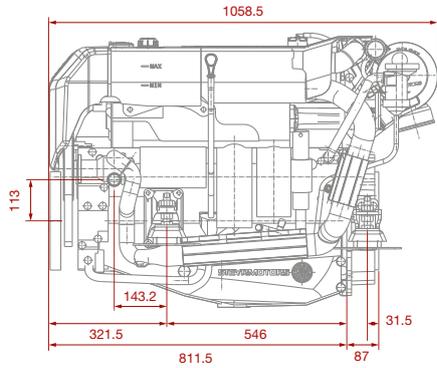
- preparation for keel cooling systems to increase cooling capability and simplify installation by eliminating hull fittings, strainers and hoses
- block heating device (enabling a launch temperature down to -30 °C)
- additional alternators (12 V/24 V)
- 24 V engine electrics
- A/C compressor
- power take-off pulley
- hydraulic pump

PROPULSION SYSTEMS

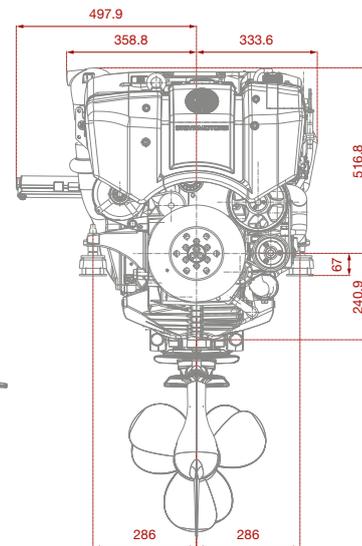
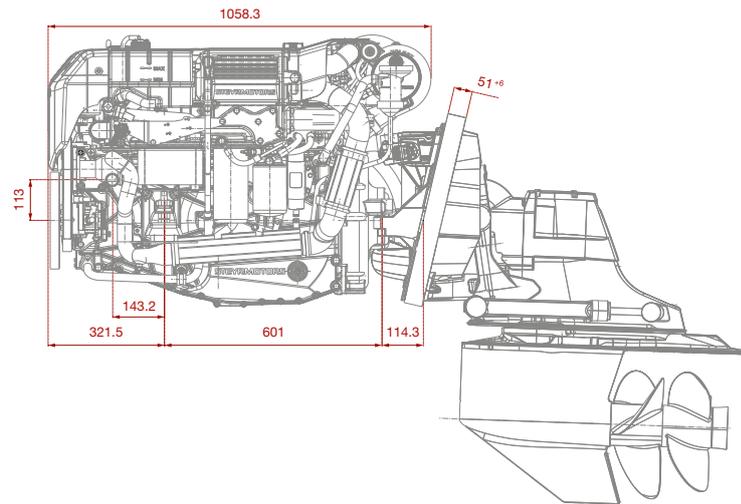
The SE 6-cylinder engine series allows the installation of different propulsion systems. Special Steyr Motors' marine diesel packages with BRAVO I, II or III and also repower kits for most common sterndrives are available.

- Direct shaft / Bobtail
- Sterndrive
- Water jet

Direct shaft / Bobtail



Sterndrive



SE 6-CYL SERIES	
NUMBER OF CYLINDERS	6 in-line
INJECTION SYSTEM	2-stage unit injector
DISPLACEMENT (LT)	3.2
POWER RANGE (KW/PS)	88 / 120 - 215 / 292
TORQUE RANGE (NM)	390 - 600
DRY WEIGHT (KG)	340

For more details on the series and the engine models, please ask for our SE 6-cylinder data sheet or contact your local distributor.



SAFETY OF LIFE AT SEA

The International Convention for the Safety of Life at Sea (SOLAS) is a maritime safety treaty that ensures safety standards in construction, equipment and operation. The detailed regulations in the SOLAS treaty are managed and maintained by the International Maritime Organization (IMO).



Steyr Motors' 4- and 6-cylinder engine series are designed and manufactured for extreme conditions, having passed stringent testing to guarantee the engines' durability and reliability. Due to the remarkable robustness and quality, the company obtained the SOLAS approval as well as other certifications for its engines. In addition, an extensive network of distributors and dealers ensures qualified local service as well as global availability of spare parts.



BASIC SOLAS REQUIREMENTS

- Engines equipped to endure vessel capsizing
- Immediate start even in very low temperatures (-15 °C)
- Continuous running up to an angle of 30°
- Withstanding a drop from heights over 30 meters (free fall boats)



APPLICATIONS

Reliable engines fulfilling highest safety standards are required for leisure and commercial applications alike, and even more so for rescue and protection purposes.

Steyr Motors has a lot of experience in equipping tender boats, fast rescue boats and lifeboats, including davit launched lifeboats and freefall lifeboats. Dropping of a lifeboat from a height of more than 60 meters (around 200 ft) or require an immediate start of the engine even in arctic temperatures? This is easy to achieve with a Steyr Motors marine engine.



ENGINE PORTFOLIO

Steyr Motors strives for highest functionality and best performance, particularly focusing on sustainable solutions fulfilling current and future demands and regulations. The portfolio is constantly extended, ensuring innovative systems that perform beyond expectation.



	RATED POWER (KW/HP)	RATED SPEED (RPM)	MAX. TORQUE (NM@RPM)	DRY WEIGHT (KG)
MO 4-CYLINDER SERIES				
MO84K32	55 / 75	3200	190 @ 2050	243
MO94K33	66 / 90	3300	210 @ 2800	243
MO114K33	81 / 110	3300	255 @ 2500	255
MO144M38	106 / 144	3800	288 @ 2500	258
SE 4-CYLINDER SERIES				
SE144E38	106 / 144	3800	315 @ 2050	263
SE164E40	118 / 160	4000	330 @ 2300	263
SE 6-CYLINDER SERIES				
SE126E25	88 / 120	2500	390 @ 1800	340
SE156E26	110 / 150	2600	450 @ 1800	340
SE156E32	110 / 150	3200	450 @ 1800	340
SE196E35	140 / 190	3500	445 @ 2050	340
SE236E40	170 / 231	4000	470 @ 2550	340
SE236S36	170 / 231	3600	540 @ 1800	340
SE266E40	190 / 258	4000	530 @ 2300	340
SE266S36	190 / 258	3600	600 @ 1800	340
SE286E40	205 / 279	4000	570 @ 2550	340
SE306J38	215 / 292	3800	588 @ 3300	340

PARTICULARLY
DEVELOPED FOR
MARINE
APPLICATION

PROPULSION SYSTEMS				DUTY RATINGS*			
TRANSMISSION	WATER JET	STERNDRIVE	SAILDRIVE	PL	HO	INT	MCD
X			X	AVAILABLE ON DEMAND			
X							
X	X						
X	X						
X	X	X		X	X	X	
X	X	X		X	X	X	
X				X	X	X	X
X				X	X	X	X
X	X	X		X	X	X	X
X	X	X		X	X	X	X
X		X		X	X		
X	X	X		X	X	X	
X		X		X	X		
X	X	X		X	X		
	X			X	X		

*DUTY RATINGS PL HO INT MCD

Steyr Motors stands for supreme reliability, best power-to-weight ratio, highest quality standards and excellent functionality. As a result, it is of great importance for Steyr Motors to provide a broad range of options and kits to further increase functionality and comfort for our customers. The following accessories are some selected options among many. Please ask our team members and partners for more information.



STEYR MOTORS CONTROL CENTER 2

The Steyr Motors Control Center 2 offers improved functionality and an even more intuitive user interface for best handling and highest comfort. A full-color, 7-inch bonded LCD display features brighter, smoother graphics and best-in-class sunlight readability while the integrated engine diagnostics enable easy trouble shooting. Furthermore, the SCC 2 offers the possibility to personalize display configurations with different menus and options.



STEYR MOTORS MAREX ECS THROTTLE LEVER

Easy to operate with a unique design and extensive options: the Steyr Motors Marex ECS provides captains with maximum reliability as proven by endurance testing with one million lever actuations. The well-established CAN bus technology ensures reliable communication between the components. Sophisticated automated diagnostics inform the user about the current operating state. The system is particularly designed for small pleasure boats and work boats.



COMPLETE SYSTEMS

A well-matched combination of engine and drive system is essential for best performance, efficiency and durability. Steyr Motors offers different sterndrive packages and ZF gearboxes as well as a range of adapters for further propulsion systems. Thus ensuring that engine and drive perfectly complement each other.

CUSTOMIZE YOUR ENGINE

From various types of filters, pumps and adapters to complete customized packages, there are numerous ways to fulfill your marine needs. The range of accessories and customizing services is constantly extended, therefore please ask our team members or your regional Steyr Motors partner for more information on e.g.:

- Panels & Instrument Variations
- Hydraulic Options
- Additional Alternators
- Special Electric Kits & Options
- Engine Cooling Kits
- SOLAS Kit
- Air Conditioning Compressor Kits
- Fuel Compensation Kit
- High Riser & Exhaust Elbow Options
- Special Paints



STRONG BASIS FOR NEW CHALLENGES

All engines of Steyr Motors are based on a well-proven Monoblock design, capable of fulfilling highest demands in operational reliability. The Steyr Motors Monoblock is a highly efficient single casting from special high tensile alloy. Its key characteristic is a modular, compact design allowing for effective cooling through an unrestricted flow of coolant. The elimination of cylinder head warping and the reduction of mechanical and thermal forces within the Monoblock material lead to significantly improved durability and robustness. Furthermore, due to the lack of cylinder head bolts and anchoring threads, the Monoblock design enables shorter, slimmer and more lightweight solutions.



MARINE

Steyr Motors marine engines are particularly designed and built for the use on sea and inland waterways. Numerous certificates prove the engines' outstanding qualities for commercial as well as pleasure applications.

VEHICLE

On-highway as well as off-road, and even in extreme ambient conditions, Steyr Motors engines are the first choice when it comes to challenging requirements for a wide range of vehicles but also for auxiliary power units and custom power packs.

INDUSTRIAL

Logistics, agriculture or construction – there are many fields of application for Steyr Motors' engines and innovative power packs. Make every single kilowatt count with a solution that fits real-life demands and significantly increases efficiency and productivity.





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SELECTED APPLICATIONS



- 1** YACHTS, SAILBOATS
e.g. Baltic Y, Nautor's Swan, Spirit Yachts
- 2** POWERBOATS, CATAMARANS
e.g. Piculjan, Swipewipes, Frauscher
- 3** WORKBOATS, RIBS
e.g. Norsafe AS, Willard, Zodiac Milpro
- 4** LUXURY TENDERS, WATER TAXI
e.g. Fassmer, Vikal, Venmar
- 5** LIFEBOATS, TENDERS
e.g. Hatecke, Diamond Princess
- 6** HYBRID INSTALLATIONS
e.g. Fast RSQ, Da Vinci, German Frers

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4



5



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See more applications on our website or contact us for further references.



MARINE ENGINES



VEHICLE ENGINES



INDUSTRIAL ENGINES



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