



# Electric Steerable POD

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## Features

The Mega-Guard Electric Steerable Pod (ESP) thruster is designed as a highly efficient fit and forget propulsor that additionally saves a lot of engine room space. In fact, due to its low height the Electric Steerable POD can be mounted in almost any location.

Up to two electric steering motors are mounted on top of Mega-Guard ESP for reliable and fail safe steering. The ESP electric propulsion motor is controlled by a Mega-Guard High Power Inverter (HPI) and the steering motors are controlled by a low power version of HPI. These HPI's can be mounted on top of the Electric Steerable POD for simplified and trouble free installation. High Power Inverters are connected directly to DC Bus and to Ethernet communication lines.

The Mega-Guard ESP's are available in sizes in between 50kW and 600kW. The highly efficient permanent magnet electric motor increases efficiency to support a green environment.

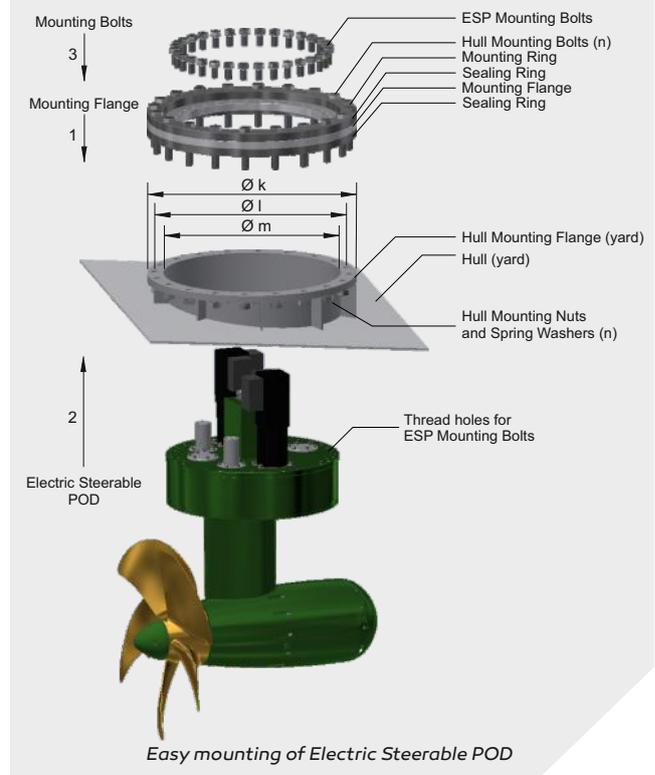
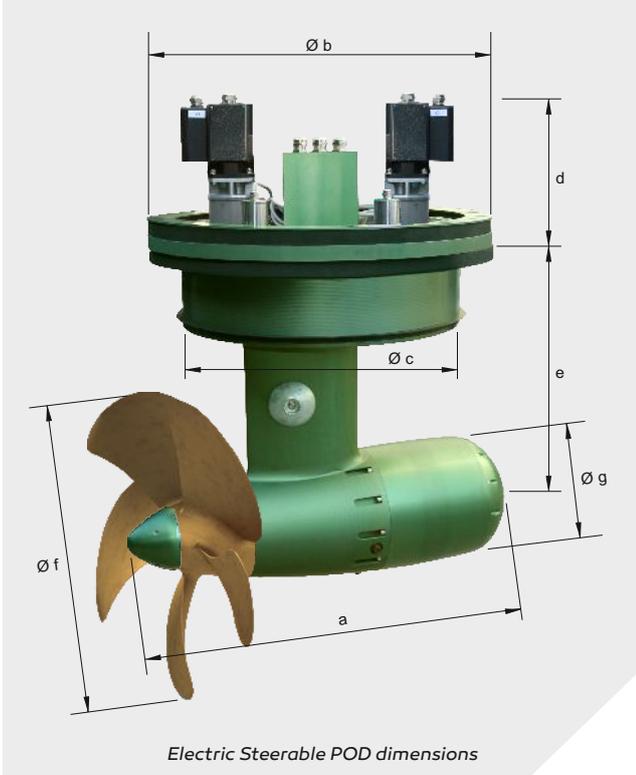


*Electric Steerable POD 200kW*



*Mega-Guard Electric Steerable POD as mounted on hull*

## Mounting & dimensions



## ESP specification

Type	Power (kW)	Nominal Speed (RPM)	Max Torque (Nm)	Weight (kg)	Shaft Ø (mm)
ESP-292-155 with gear O8	50	918, 740, 600 or 509	938	180	50
ESP-292-190 with gear O8	100	918, 740, 600 or 509	1876	210	70
ESP-292-260 with gear O8	200	918, 740, 600 or 509	3751	350	100
ESP-292-330 with gear 10	300	585 or 497	5764	550	120
ESP-292-400 with gear 10	400	585 or 497	7685	760	130
ESP-292-540 with gear 10	600	585 or 497	11527	1125	160



## ESP dimensions

Type	Length (a)	Flange Ø (b)	Housing Ø (c)	Height (d)	Depth (e)	Propeller Ø (f)	POD Ø (g)
ESP-292-155 with gear O8	855	690	560	362	590	600	326
ESP-292-190 with gear O8	925	750	610	362	640	700	326
ESP-292-260 with gear O8	995	800	660	362	690	800	326
ESP-292-330 with gear 10	1225	1050	870	460	810	1000	358
ESP-292-400 with gear 10	1360	1180	970	485	870	1100	358
ESP-292-540 with gear 10	1485	1300	1080	520	930	1200	358



Type	Flange Ø (k)	Mounting Ø (l)	Hull opening Ø (m)	Bolt/Nut size (n)	Bolt/Nut amount (n)
ESP-292-155 with gear O8	690	640	575	M24	20 pcs
ESP-292-190 with gear O8	750	695	625	M27	20 pcs
ESP-292-260 with gear O8	800	745	675	M27	20 pcs
ESP-292-330 with gear 10	1050	990	900	M27	24 pcs
ESP-292-400 with gear 10	1180	1100	1000	M33	28 pcs
ESP-292-540 with gear 10	1300	1220	1120	M36	32 pcs



Vessel Management System



Power Management System



Fire Alarm System



CCTV Video Distribution



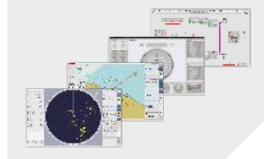
Ship Performance Monitor



Fleet Management System



Integrated Navigation System



Heading Control System



Propulsion Control System



Dynamic Positioning System



BNWAS Watch Alarm System



Navigation Light Control



Wiper Control System



Energy Management System



Electric Propulsion Motor



Electric Steerable POD



High Power Inverter



DC bus Generator



Electric Energy Storage



Electric Fin Stabilizer



*Ship automation,  
navigation and  
electric propulsion*