

Azimuth thrusters survey 2021

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min -1	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
Berg Propulsion Hönö, Sweden, online: www.bergpropulsion.com , e-mail: info@bergpropulsion.com								
Azimuth thruster Z-Drive with CP or FP								
A/B Rating								
		1000	1000	MTA316	900–2000	284–304	optional	1600
		1000	1000	MTA317	900–2000	294–314	optional	1700
		1000	1000	MTA318	900–2000	304–324	optional	1800
C/D Rating (not available with CP)								
		1081	1081	MTA318	1600–2000	324–343	optional	1850
A/B Rating								
		1320	1320	MTA418	900–2000	363–392	optional	1800
		1320	1320	MTA419	900–2000	383–402	optional	1900
		1320	1320	MTA420	900–2000	392–412	optional	2000
C/D Rating (not available with CP)								
		1500	1500	MTA420	1600–1800	432–461	optional	2050
A/B Rating								
		1710	1710	MTA522	700–2000	500–530	optional	2200
		1710	1710	MTA523	700–2000	520–549	optional	2300
		1710	1710	MTA524	700–2000	520–559	optional	2400
C/D Rating (not available with CP)								
		1920	1920	MTA524	1500–1800	579–618	optional	2400
A/B Rating								
		2240	2240	MTA625	700–1800	657–696	optional	2500
		2240	2240	MTA626	700–1800	677–716	optional	2600
		2240	2240	MTA627	700–1800	687–726	optional	2700
C/D Rating								
		2525	2525	MTA627	1500–1800	765–804	optional	2700
		2525	2525	MTA628	1500–1800	775–824	optional	2800
A/B Rating								
		2827	2827	MTA727	600–1800	804–853	optional	2700
		2827	2827	MTA728	600–1800	834–883	optional	2800
		2827	2827	MTA729	600–1800	844–902	optional	2900
		2827	2827	MTA730	600–1800	863–912	optional	3000
C/D Rating								
		2850	2850	MTA730	1600–1800	863–922	optional	3000
		1193		RFRP-W1600				2000
		1342		RFRP-W1800				2100
		1491		RFRP-W2000				2200
		1790		RFRP-W2400				2480
		1939		RFRP-W2600				2500
		2088		RFRP-W3000				2600
		2137		RFRP-W3200				2700
Hydraulic Azimuth Thrusters								
		37		RFHP50				620
		37–75		RFHP100				830
		75–149		RFHP200				950
		149–223		RFHP300				1000
		223–298		RFHP400				1180
		298–373		RFHP500				1300
Authorized Sales and Service Partner is Zeppelin Power Systems								
Talleres Blanchadell SL Vinaros, Spain, online: www.blanchadell.com , e-mail: comercial@blanchadell.com								
The programme comprises transversal thrusters, azimuth and retractable thrusters in various designs for the power range with outputs ranging from 40 to 200 Hp with hydraulic drive. Further information on request.								
Brunvoll AS Molde, Norway, online: www.brunvoll.no , e-mail: office@brunvoll.no								
Azimuth Thrusters Pull Open Propeller								
	800–1250			PU 74			2000–2200	
	1000–1660			PU 93			2500–2700	
	2000–3200			PU 115			3000–3300	
Azimuth Thrusters Push Ducted Propeller								
	400–800			AUP / AWP 63				1650
	800–1200			AUP / AWP 74				2000
	1000–1400			AUP / AWP 80				2100
	1500–1900			AUP / AWP 93*				2500
	1600–2000			AUP / AWP 100				2650
	2000–3000			AUP / AWP 115*				2900

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min -1	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
Retractable Azimuth Thrusters / Retractable Azimuth Combi Thrusters								
	500-880			AR 63				1650
	900-1200			AR 74*				1900
	1000-1500			AR 80				2100
	1500-1900			AR 93*				2500
	1800-2200			AR 100				2600
	2500-3000			AR 115*				3000
* under construction								
Azipull propulsion thrusters: Performance overview on request								
Chongqing Guanheng Technology & Development Co. Ltd								
Chongqing, China, online: www.cqganheng.com , e-mail: adam@cqguanheng.com								
Azimuth Thruster With Tube								
300				RFRP-W300				1100
400				RFRP-W400				1150
600				RFRP-W600				1280
1000				RFRP-W1000				1600
1200				RFRP-W1200				1750
1400				RFRP-W1400				1850
1600				RFRP-W1600				2000
1800				RFRP-W1800				2100
2000				RFRP-W2000				2200
2400				RFRP-W2400				2480
2600				RFRP-W2600				2500
3000				RFRP-W3000				2600
3200				RFRP-W3200				2700
Hydraulic Azimuth Thrusters								
0-50				RFHP50				620
50-100				RFHP100				830
100-200				RFHP200				950
200-300				RFHP300				1000
300-400				RFHP400				1180
400-500				RFHP500				1300
DTG Propulsion BV								
Stenbergen, Netherlands, e-mail: info@dtg-propulsion.com , online: dtg-propulsion.com								
Azimuth Thrusters And Electric Azimuth Thrusters								
		150	150	GA/GCA 715	2300		715	715
		250	250	GA/GCA 960	2000		1050	960
		400	400	GA/GCA 1160	1800		1200	1160
		550	550	GA/GCA 1350	1800		1400	1350
		750	750	GA/GCA 1550	1800		1600	1550
		1000	1000	GA/GCA 1800	1800		1850	1800
		1300		GA 2000	1800		2100	2000
		1550		GA 2200	1800		2300	2200
		1900		GA 2400	1000		2500	2400
Retractable Azimuth Thrusters								
		45		GRAT 420			420	620
		90		GRAT 570			570	841
		150		GRAT 715			715	1025
		250		GRAT 960			960	1420
		400		GRAT 1160			1160	1350
		550		GRAT 1350			1350	1592
		750		GRAT 1550			1550	1828
		1000		GRAT 1800			1800	2129
Deck Mounted Azimuth Thrusters								
		150		DAT 715			715	710
		250		DAT 960			1000	960
		400		DAT 1160			1200	1160
		550		DAT 1350			1400	1350
E-Pod Propulsion PTE LTD								
Singapore, Singapore, online: www.epod.com , e-mail: mailbox@epod.sg								
		225		ZM200	2400		915	optional
		295		ZM300	2400		1000	optional
		388		ZM400	2400		1250	optional
		597		ZM700	2000		1450	optional
		1015		ZM1200	1800		1950	optional
		1640		ZM1700	1800		2100	optional
		1790		ZM2000	1800		2300	optional
		2610		ZM3000	1800		2600	optional
		3000		ZM3500	1800		2800	optional
		4180		ZM5000	1500		3250	optional
		4700		ZM6000	1500		3500	optional

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min -1	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
Jastram GmbH & Co. KG Hamburg, Germany, online: www.jastram.net , e-mail: info@jastram.net								
Rudder Propellers								
		65	80	RP 80	1800		550	550
		175	190	RP 170	1800		700	700
		230	295	RP 230	1800 / 2100		800-1000	900
		280	450	RP 380	1800 / 2100		1000-1200	1100
Shallow Water Thruster – Azimuth Grid Thruster							Well ø	
		140	165	W20	1500-1800			
		225	260	W40	1500-1800			
		315	315	W50	1500			
		510	610	W60	1500-1800			
		600	700	W90	1500-1800			
		825	900	W100	1000-1200			
Kawasaki Heavy Industries (Europe) BV Amsterdam, Netherlands, online: www.khi.co.jp , e-mail: diesel@keb.nl								
RexPELLER								
410				KST-92ZF	1200-2100		1150	
590				KST-115ZF (ZC)	900-1800		1350	
880				KST-130ZF (ZC)	750-1800		1600	
1030				KST-145ZF (ZC)	750-1800		1750	
1360				KST-165ZF (ZC)	750-1800		2100	
1620	1471			KST-180ZF/E (ZC)	750-1800		2200	
1920				KST-200ZF (ZC)	750-1800		2400	
2350				KST-220ZF (ZC)	600-1200		2700	
3000				KST-240ZF (ZC)	600-1200		3000	
3800				KST-280ZF (ZC)	600-1200		3500	
4500				KST-320ZF (ZC)	600-1200		3800	
Underwater Mounting RexPELLER								
3800				KST-280LF/U	600-750		3500	
4500				KST-320LF/U	600-750		3800	
5500				KST-360LF/U	600		4200	
6500				KST-400LF/U	600		4500	
Retractable RexPELLER								
590				KST-115ZF/R	1200-1800		1350	
820				KST-130ZF/R	1600		1600	
1620				KST180LF (LC)/R	600-900		2150	
2200				KST-220LF (LC)/R	600-900		2550	
3000				KST240LF (LC)/R	600-750		2800	
»ZF« and »LF« Means The FPP Type, »LC« Means The CPP Type								
Kongsberg Kongsberg, Norway, online: www.kongsberg.com , e-mail: service.propulsion.ulstein@km.kongsberg.com								
Azimuthing Permanent Magnet Thruster (AZ PM)								
	500-1100			AZ-PM 1900	239			1900
	1100-2600			AZ-PM 2600	187			2600
Azipull Carbon Thruster								
		2000		AZP C65				
Azipull Thruster								
		1800-3500		AZP PM				
Swing-Up TCNS / TCNC Azimuthing Thrusters								
880	880			TCNS/TCNC/73/50-180	1800			1800
	2000			TCNS/TCNC/92/62-220	1800			2200
3000	3000			TCNC/120/85-280	720-750			2800
750-1000	750-1000			TCNS / C 075	1500-2000			1700
1665-2000	1665-2000			TCNS / C 100	1500-1800			2200
Thrusters With Pulling Propellers (Azipull) and Permanent Magnet (PM) motor								
900-1600	900-1600			AZP 085	1200-2000		1900-2300	
1400-2500	1400-2500			AZP 100	720-1800		2300-2800	
1800-3500	1800-3500			AZP 120	720-1200		2800-3300	
3000-5000	3000-5000			AZP 150	600-1000		3300-4200	
	600-1700			AZP-PM 085-L*			1900-2300	
	1800-2500			AZP-PM 100-L*			2300-2800	
	2500-3500			AZP-PM-120-L			2800-3300	
	3000-5000			AZP-PM-150-L*			3300-4200	
* In Development								

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min ⁻¹	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
Thrusters With Contra-Rotating Propellers								
	2200			Contaz 15	900–1500		3200	
	3000			Contaz 25	900–1500		3700	
	3700			Contaz 35	750–1200		4000	
Underwater Mountable Thrusters								
3200	3200			UUC 305	720			3000–3200
3800–4000	3800–4000			UUC 355	720–750			3500
4600–4800	4600–4800			UUC 405	720–750			3800
5200–5500	5200–5500			UUC 455	720–750			4100
6500	6500			UUC 505	600			4200–4500
Retractable Thrusters Designed For Horizontal Drive (UL)								
440	440			UL 601	1500–1800			1300
660	660			UL 901	1000–1800			1600
880	880			UL 1201	750–1800			1800
1200	1200			UL 1401	750–1800			2000
1500	1500			UL 2001	750–1800			2300
2200	2200			UL 255	900–1800			2800
3000	3000			UL305	750–1600			3000
3700	3700			UL 355	720–1200			3500
Retractable Thrusters Designed For Vertical Drive (ULE)								
880	880			ULE 1201				1800
1500	1500			ULE 2001				2300
2200	2200			ULE 255				2800
US Type Azimuthing Thrusters								
		330	330	US 55-P4			1050	1050
		480	480	US 105-P6			1300	1300
		720	720	US 105-P9			1500 / 1600	1500 / 1600
		1000	1000	US 155-P12			1600 / 1800	1600 / 1800
		1280	1280	US 155-P14			1800 / 2000	1800 / 2000
		1500	1500	US 205-P18			2200	2200
		1920	1920	US 205-P20			2300 / 2400	2300 / 2400
		2470	2470	US 255-P30			2600 / 2800	2600 / 2800
		2790	2790	US 35			2800 / 3000	2800 / 3000
		3200	3200	US 305-P40			3000 / 3200	3000 / 3200
		3700	3700	US 355-P50			3200 / 3500	3200 / 3500
		5000	5000	US 60			3800 / 4000	3800 / 4000
Masson Marine								
Saint Denise Les Sens, France, online: www.masson-marine.com								
Azimuth Thrusters								
		70–1000		MML 15				
				MML 55				
No Technical Data Available								
Niigata Power Systems (Europe) BV								
Rotterdam, Netherlands, online: www.niigata-power.com								
Z-Peller FPP Series								
735				ZP-09	1000–1650			1600
956				ZP-10	1000			1750
1176				ZP-11 A	750–1000			1900
1323				ZP-21	750	2000		2000
1654				ZP-31	750	2200–2300		2300
1654				ZP-31 B	750			2300
1838				ZP-41 A	750	2500–2600		2600
2390				ZP-41	750–800	2500–2700		2700
2574				ZP-41 B	750	2700		2800
2942				ZP-41 B	800			3100
Z-Peller CPP Series								
1618				ZP-31 CP	750			2300
2206				ZP-41 CP	750–800			2700
3310				ZP-52 CP	800			3200
Pleuger Industries GmbH								

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min -1	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
Hamburg, Germany, online: www.pleugerindustries.com , e-mail: hamburg@pleugerindustries.com								
Azimuth Thruster L-Drive With FPP								
	2000-6000			Pleuger-WFS			2000-4200	2000-4200
Azimuth Thruster Z-Drive With FPP								
	2000-6000			Pleuger-WFSZ			2000-4200	2000-4200
Underwater Mountable Azimuth Thruster With FPP								
	2500-6000			Pleuger-WFSD			3000-5000	3000-5000
Retractable Azimuth Thruster With FPP								
	1800-4500			Pleuger-WFSE				2000-4000
Underwatermountable Retractable Azimuth Thruster With FPP								
	1800-4500			Pleuger-WFSDE				2000-4000
Containerized Azimuth Thrusters Retractable And Non-Retractable								
	2000-4500			Pleuger-WFSDE/E				3000-5000
Transverse Thruster								
	800-3500			Pleuger-WF				1500-3800
Schottel GmbH								
Spay, Germany, online: www.schottel.de , e-mail: info@schottel.de								
Rudder Propellers SRP								
		190-225		SRP 100	1800/2300			750
		260-315		SRP 130	1800/2000			1000
		330-400		SRP 150	1800-2100			1200
		400-500		SRP 180	1600/2100			1300
		660-850		SRP 240	1600-2100			1700
		780-1000		SRP 270	1600-2100			1850
		1090-1400		SRP 340	750-1800			2100
		1190-1530		SRP 360	750-1800			2200
		1300-1700		SRP 400	750-1800			2300
		1450-2000		SRP 430	750-1800			2400
		1830-2350		SRP 460	750-1800			2600
		2050-2550		SRP 490	750-1800			2800
		2030-2600		SRP 510	750-1800			2800
		2200-2800		SRP 560	750-1900			3000
		2500-3200		SRP 610	600-1200			3200
		2520-3300		SRP 630	600-1000			3400
		2900-3750		SRP 710	750-1000			3400
		3270-4200		SRP 730	600-1000			3600
		4200-5300		SRP 750				3800
		4800-6200		SRP 800				4100
Underwater Mountable Thrusters SRP-U								
		4700		SRP 750 U	720/750			3800
		5500		SRP 800 U	720/750			4100
Retractable Thrusters SRP-R								
		330		SRP 130 R	1800/2000			1000
		490		SRP 190 R	1800			1400
		560		SRP 210 R	1200			1450
		880		SRP 260 R	1200			1650
		1300		SRP 340 R	1000/1200			2100
		1500		SRP 380 R	1000/1200			2200
		2450		SRP 460 R	750			2600
		3500		SRP 610 R	750			3200
		4000		SRP 700 R	750			3600
		5000		SRP 750 R	750			3800
Rudder Propellers With Two Propellers – Twin Propellers STP								
		190-225		STP 100	1800/2300		750	
		330-400		STP 150	1800/2100		1050	
		470-550		STP 190	1800		1300	
		770-920		STP 260	1000-1800		1650	
		1090-1400		STP 340	750-1800		2000	
		1830-2350		STP 460	750-1800		2500	
		2200-3200		STP 560			2650	
EcoPeller SRE								

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min -1	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
		190–225		SRE 100	1800–2100		800	
		330–400		SRE 150	1800–2100		1200	
		500–640		SRE 210	1600–2100		1450	
		780–1000		SRE 270	1600–2100		1850	
		1090–1400		SRE 340	750–1800		2100	
		1190–1530		SRE 360	750–1800		2300	
		1450–2000		SRE 430	750–1800		2400	
		1830–2350		SRE 460	750–1800		2600	
		2050–2550		SRE 490	750–1800		3000	
		2560–2800		SRE 560	750–1800		3000	
		2600–3500		SRE 640	1000		3350	
		3000–4000		SRE 700	1000		3600	
		4100–5300		SRE 750			4100	
Shallow Water Thrusters – Pump Jets SPJ								
		50–75		SPJ 15				660
		72–110		SPJ 22				900
		90–150		SPJ 30				1000
		150–257		SPJ 57				1300
		250–420		SPJ 82				1680
		450–746		SPJ 132				2180
		600–1000		SPJ 180				2700
		750–1250		SPJ 220				2700
		1300–2200		SPJ 320				3400
		2100–3500		SPJ 520				4300
All Data Are For Guidance Only And Depending On The Operating Profile Of Each Ship								
Steerprop Ltd. Rauma, Finland, online: www.steerprop.com , e-mail: steerprop@steerprop.com								
Basic Line Of Azimuth Propulsor								
		900	900	SP 10 W			1750	1600
		1250	1250	SP 14 W			2100	1900
		1650	1650	SP 20 W			2400	2200
		2000	2000	SP 25 W			2600	2400
		2525	2525	SP 35 W			3000	2800
		3000	3000	SP 40 W			3300	3000
		3500	3500	SP 45 W			3500	3100
		4000–7000	4000–7000	SP 50 W - SP 80 W				
Azimuth Thrusters With Two Contra-Rotating Propellers								
		900	900	SP 10 CRP	1000–2000		1800	
		1250	1250	SP 14 CRP	750–2000		2100	
		1600	1600	SP 20 CRP	750–1800		2400	
		2000	2000	SP 25 CRP	750–1800		2800	
		2800	2800	SP 35 CRP	750–1200		3200	
		3500	3500	SP 45 CRP	750–1200		3500	
High Efficient Thrusters With Contra-Rotating Propellers From 5,000kW up to 15,000kW								
				SP CRP ECO				
High Efficient Thrusters With Contra-Rotating Propellers up to 12,000kW, also for ice class vessels								
				SP CRP ECO ARC				
High Efficient Thrusters for ice class vessels, open pulling, open and ducted								
				SP Pull				
				SP Arc				
Steerprop Azimuth Propulsors Are Tailored To Each Individual Project, All products Are Available As Z-Drive or L-Drive								
Thrustmaster								

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min -1	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
Houston, Texas, USA, online: www.thrustmaster.net , e-mail: info@thrustmastertexas.com								
Underwater Demountable Azimuth Thrusters								
		1500		TH2000ML	900		2100	
		2000		TH2500ML	720		2360	
		2500-2700		TH3000ML	720		2660	
		3000		TH4000ML	720		2990	
		3500-4000		TH5000ML	720		3350	
		4200-5500		TH6000ML	720		3910	
		6000-7000		TH8000ML	720		4260	
		7500-8000		TH10000ML	720		4520	
L-Drive Azimuthing Thrusters Bottom Mounted								
		250		TH300ML			920	
		300		TH400ML			1070	
		400		TH500ML			1120	
		600		TH750ML			1400	
		800		TH1000ML			1450	
		1000		TH1250ML			1750	
		1250		TH1500ML			1980	
		1500		TH2000ML			2180	
		2000		TH2500ML			2360	
		2500-2700		TH3000ML			2660	
		3000		TH4000ML			3000	
		3500-4000		TH5000ML			3350	
		4500-5500		TH6000ML			3910	
		6000-7000		TH8000ML			4260	
		7000-8000		TH10000ML			4520	
Veth Propulsion								
Papendrecht, Netherlands, online: www.vethpropulsion.com , e-mail: info@veth.net								
Single Propeller Thrusters With Z-Drive (VZ) And L-Drive (VL)								
		154		VZ/VL-180	1800-2000			700
		233		VZ/VL-200	1800			900
		385		VZ/VL-400	1800-2000			1130
		426		VZ/VL-400A	1800-2000			1030
		555		VZ/VL-550	1800			1250
		631		VZ/VL-700	1800-2000			1400
		968		VZ/VL-900	1600-2000			1600-1700
		1305		VZ/VL-1100	1600-2000			1800-1900
		1425		VZ/VL-1250	1600-2000			1900-2100
		1920		VZ/VL-1550	1600-2000			2200-2400
		2350		VZ/VL-1800	1500-1800			2400-2600
Thrusters With Counter Rotating Propellers Z-Drive (VZ) And L-Drive (VL)								
		180		VZ/VL-160-CR	1800-2000		585-650	
		540		VZ/VL-450-CR	1800-2000		1080-1200	
		800		VZ/VL-700-CR	1800		1210-1350	
		995		VZ/VL-900-CR	1600-1800		1350-1500	
		1385		VZ/VL-1250-CR	1600-1800		1485-1650	
Voith Turbo Schneider Propulsion GmbH & Co. KG								
Heidenheim, Germany, online: www.voith.com , e-mail: marine@voith.com								
Voith-Schneider Propellers (VSP)							Blade Orbit	Blade Length
260				12RV4 EC/90-1	1000		1200	912
540				16R5 EC/120-1	670		1600	1213
780				18R5 EC/150-1	570		1800	1512
1100				21RV5/175-2	700-1700		2100	1766
1900				26X5/230	280		2600	2316
2000				28R5/234-2	720-1600		2800	2355
2000				28R5/ECS/234-2	720-1600		2800	2355
2600				32RV5/265-2	720-1200		3200	2666
2600				32RV5/ECS/265-2	720-1200		3200	2666
3900				36RV6/ECS/285-2	720-1200		3600	2872
Electrical Voith-Schneider Propellers (VSP)								
	200			eVSP 9			900	1012
	300			eVSP 12			1200	1112
	540			eVSP 16			1600	1213
	780			eVSP 18			1800	1512
	1050			eVSP 21			2100	1766
	1850			eVSP 26			2650	2316
	2200			eVSP 28			2800	2355
	2500			eVSP 32			3200	2666
	3800			eVSP 36			3600	2872
Wärtsilä Corporation								

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min -1	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
Helsinki, Finland, online: www.wartsila.com , e-mail: wim.knoester@wartsila.com								
Steerable Thrusters With FPP Or CPP And Z-Drive								
		900/1050		WST-11	750-1800			1942-1948
		1150-1350		WST-14	750-1800			1942-1948
		1400/1600		WST-16	750-1800			2342-2326
		1700/1800		WST-18	750-1800			2342-2326
		2050/2100		WST-21	750-1800			2542-2512
		2400		WST-24	750-1800			2692-2660
		2800		WST-28	720-1200			2862-2825
		3200		WST-32	720-1200			3042-3000
Retractable Thrusters As L- Or Z-Drive								
		1000		LMT CS / FS175 MNR	1000/1200			1700
		1200		LMT CS / FS200 MNR	1000/900			1900
		1600		LMT CS / FS225 MNR	1000/900			2100
		2000		LMT CS / FS250 MNR	750/720			2400
		2400		LMT FS1510NU	1200			
		2850-3250		LMT FS2510NU	900			3000-3200
		3650-4500		LMT FS3500 MNR	900-720			3400-3600
		2400		WST-24R	900-1200			2600/2800
		3100		WST-32R	900			2800
		3300 / 3500		WST-32R	720/600			
900		4500	3100/3300	WST 45R	720			
900		6500	3600	WST-65RU	600			4200
Underwater Mountable Thrusters								
		4000-4500		WST-45-U	600-720			3600
		4500-5500		WST-55-U	600-720			3900
		5500-6500		WST-65-U	600-720			4200
Thrusters With Pulling Propeller								
		1750		Icepod 1750	900		2050	
		2500		Icepod 2500	900		2300	
		4100		3500 pulling			4100	
ZF Marine Krimpen BV								
Krimpen aan de Lek, Netherlands, online: www.zf.com , e-mail: service.marine@zf.com								
Well Mounted Azimuth Thrusters, L- Drive								
		208		ZF ATL 2000 WM-FP	1500			700
		332		ZF ATL 3000 WM-FP	1500			1000
		453		ZF ATL 400 WM-FP	1275			1100
		611		ZF ATL 4000 WM-FP	1200/1500/1800			1300
		960		ZF ATL 5000 WM-FP	1200/1500			1650
		1380		ZF ATL 6000 WM-FP	1200			1900
		1587		ZF ATL 80 WM-FP	900/1200/1500			2200
		1850		ZF ATL 7000 WM-FP	1150			2150
		2500		ZF ATL 8000 WM-FP	900			2400
Well Mounted Azimuth Thrusters, Z- Drive								
		190		ZF ATZ 2000 WM-FP	1800			700
		305		ZF ATZ 3000 WM-FP	1800			1000
		477		ZF ATZ 400 WM-FP	1800			1100
		599		ZF ATZ 4000 WM-FP	1800			1300
		949		ZF ATZ 5000 WM-FP	720/900/1000			
1600/1800		1380	1650	ZF ATZ 6000 WM-FP	720/900/1000			
1600/1800		1587	1900	ZF ATZ 80 WM-FP	1600/1800			2200
1600/1800		1850	2150	ZF ATZ 7000 WM-FP	720/900/1000			
1000/1200/1500		2500	2400	ZF ATZ 8000 WM-FP	720/750/900			
1600/1800								
Contra Rotation Azimuth Thrusters, Available As L-Drive and Z-Drive							Propeller Pulling	Propeller Pushing
		230		ZF ATL/Z 10 CR	1500		850	765
		345		ZF ATL/Z 20 CR	1500		1050	950
		443		ZF ATL/Z 30 CR	1500		1200	1080
		604		ZF ATL/Z 40 CR	1200		1350	1225
		773		ZF ATL/Z 50 CR	1200		1600	1440
		997		ZF ATL/Z 60 CR	1200		1800	1620
Deck Mounted Azimuth Thrusters, Z-Drive								

Rated Power Diesel kW	Rated Electro kW	Maximum Diesel kW	Power Electro kW	Type	Input Speed min -1	Rated Thrust kN	Propeller Open mm	Propeller Nozzle mm
1600/1800		190	1650	ZF ATZ 2000 DM	1800			700
		305		ZF ATZ 3000 DM	1800			1000
		477		ZF ATZ 400C DM	1800			1100
		599		ZF ATZ 4000 DM	1800			1300
		949		ZF ATZ 5000 DM	720/900/1000			
		1380		ZF ATZ 6000 DM	720/900/1000			
1600/1800			1900					
Stern Mounted Azimuth Thrusters, L-Drive								
		208		ZF ATL 2000 SM	1500			700
		332		ZF ATL 3000 SM	1500			1000
		453		ZF ATL 400C SM	1275			1100
		611		ZF ATL 4000 SM	1200/1500/1800			1300
		960		ZF ATL 5000 SM	1200/1500			1650
		1380		ZF ATL 6000 SM	1200			1900
Stern Mounted Azimuth Thrusters, Z-Drive								
1600/1800		190	1650	ZF ATZ 2000 SM	1800			700
		305		ZF ATZ 3000 SM	1800			1000
		477		ZF ATZ 400C SM	1800			1100
		599		ZF ATZ 4000 SM	1800			1300
		949		ZF ATZ 5000 SM	720/900/1000			
		1380		ZF ATZ 6000 SM	720/900/1000			
1600/1800			1900					
Retractable Azimuth Thrusters, L-Drive								
		208		ZF ATL 2000 RT	1500			700
		332		ZF ATL 3000 RT	1500			1000
		543		ZF ATL 400C RT	1275			1100
		611		ZF ATL 4000 RT	1200/1500/1800			1300
		960		ZF ATL 5000 RT	1200/1500			1650
		1380		ZF ATL 6000 RT	1200			1900
		1587		ZF ATL 80 RT	900/1200/1500			2200
		1850		ZF ATL 7000 RT	1150			2150
		2500		ZF ATL 8000 RT	900			2400
		Retractable Azimuth Thrusters, Z-Drive						
1600/1800		190	1650	ZF ATZ 2000 RT	1800			700
		305		ZF ATZ 3000 RT	1800			1000
		477		ZF ATZ 400C RT	1800			1100
		599		ZF ATZ 4000 RT	1800			1300
		949		ZF ATZ 5000 RT	720/900/1000			
		1380		ZF ATZ 6000 RT	720/900/1000			
1600/1800			1900					
1600/1800		1587	2250	ZF ATZ 80 RT	1600/1800			2200
		1850		ZF ATZ 7000 RT	720/900/1000			
1600/1800								
1000/1200/1500 1600/1800		2500		ZF ATZ 8000 RT	720/750/900			
1000/1200/1500 1600/1800			2400					
Shallow Draught Thrusters, L-Drive								
		100	100	ZF SDL 2000	1600			515
		195	195	ZF SDL 3000	1500			750
		350	350	ZF SDL 4000	1200			990
		575	575	ZF SDL 5000	1200			1250
		825	825	ZF SDL 6000	1200			1530
Shallow Draught Thrusters, Z-Drive								
		100	100	ZF SDZ 2000	2000			515
		195	195	ZF SDZ 3000	1800			750
		350	350	ZF SDZ 4000	1800			990
		575	575	ZF SDZ 5000	1800			1250
		825	825	ZF SDZ 6000	1600/1800			1530
All Information Without Guarantee, No Claim Of Beeing Complete								

Pod drives/rim thrusters survey 2021

Power Relate Maximum kW	Speed min -1	Type	Related Thrust kN	Propeller open mm	Propeller nozzle mm
ABB					
Zurich, Switzerland, online: www.abb.com , e-mail: thomas.voelkel@de.abb.com					
1500–4500 3300–4700 1000–7500 2100–7500 6000–17000 7600–14500 17500 2000–5000 14000–22000		Azipod CO Azipod CZ Azipod DO Azipod DZ Azipod VI Azipod MO Azipod XL Azipod ICE Azipod XO			
Brunvoll AS					
Molde, Norway, online: www.brunvoll.no , e-mail: office@brunvoll.no					
Rim Driven Thrusters					
200 300 600 1000 1400		RDT RDT RDT RDT RDT			800 1000 1500 1800 2100
E-Pod Propulsion Pte Ltd					
Singapore, Singapore, online: www.epod.com , e-mail: mailbox@epod.com.sg					
Stern thrusters					
100 150 250 350 450 550 650 750 850 950 1050	800 650 525 350 350 320 320 320 320 250 250				830 900 1250 1500 1500 1800 1800 2050 2050 2300 2300
Kongsberg plc					
Kongsberg, Norway, online: www.kongsberg.com , e-mail: office@kongsberg.com					
Mermaid Podded Propulsors					
6000–11000 8000–16000 11000–20000 13000–23000 15000–27000	110–210 105–195 100–180 95–170 90–160	185 210 232 250 277		3600–5400 4100–5900 4500–5000 4900–7000 5400–8000	
Mermaid Push Podded Propulsors					
4000–8000 7000–12000	110–190 105–160	185 210	550–1250 950–1750		2700–4500 3600–5200
Elegance Pulling Pods					
1550–1850 2100–2500 2750–3200 3700–4300 4750–5400 5900–6700	145–365 130–325 117–285 106–250 97–220 90–200	850 960 1080 1230 1380 1570		1800–2900 2100–3400 2400–3900 2700–4400 3000–4900 3200–5300	
Elegance Ducted Pods					
1550–1850 2100–2500 2750–3200 3700–4300 4750–5400 5900–6700	255–305 220–265 195–230 175–205 160–180 145–165	850 960 1080 1230 1380 1570			2400 2800 3200 3600 4000 4400
Mermaid Ice / Hice Podded Propulsors					
4000–7000 6000–11000 8000–13000 1000–15000 12000–18000	110–170 105–155 100–147 95–140 90–132	185 210 232 250 277	450–850 950–1200 1000–1500 1200–1650 1300–2050	3200–4500 3700–5000 4500–5650 4700–6000 5200–6600	

Power Relate Maximum kW		Speed min -1	Type	Related Thrust kN	Propeller open mm	Propeller nozzle mm		
Rim thrusters								
200			SRT 800		800			
315			SRT 1000		1000			
500			SRT 1250		1250			
800			SRT 1600		1600			
Siemens AG Hamburg, Germany, online: www.siemens.com/marine , e-mail: marine@siemens.com								
4500–8500		110–210	SISHIP eSiPOD 07	Available as twin (SISHIPeSiPOD-T) or mono propeller (SISHIP eSiPOD-M) version				
Highly depending on propeller layout and purpose of the vessel will be customized on every project.								
6500–12000		105–195	SISHIP eSiPOD 10					
9000–16500		95–180	SISHIP eSiPOD 14					
11000–20500		90–170	SISHIP eSiPOD 17					
13000–24000		80–160	SISHIP eSiPOD 20					
15000–26000		75–150	SISHIP eSiPOD 23					
Thrustmaster Houston, Texas, USA, online: www.thrustmaster.net , e-mail: info@thrustmastertexas.com								
		90–2500	T-Pod					
Delivery possible with or without nozzle, swing-up, azimuthing or fixed, thru-hull top or bottom mount, or thru-hull retractable								
Verhaar Omega Sassenheim, Netherlands, online: www.verhaar.com , e-mail: info@verhaar.com								
V-Pod Propulsion								
500			V-Pod 600		1710			
1000			V-Pod 670		2565			
1500			V-Pod 760		3054			
2000			V-Pod 850					
2500			V-Pod 960					
Z-drive Propulsion								
548		1500–1800	OZD 120			1200–1450		
895		1500–1800	OZD 160			1650–1800		
1345		1500–1800	OZD 190			1750–2000		
1715		750–1800	OZD 220			2100–2250		
2400		750–1800	OZD 250			2600–2800		
Voith GmbH Heidenheim, Germany, online: www.voith.com , e-mail: info@voith.com								
Rim Drives								
60			VIT 380		380	optional		
125			VIT 550		550	optional		
200			VIT 700		700	optional		
300			VIT 850		850	optional		
400			VIT 1000		1000	optional		
650			VIT 1350		1350	optional		
650			VIT 1350H		1350	optional		
1100			VIT 1650H		1650	optional		
1650			VIT 2000H		2000	optional		
Electrical Voith Schneider Propellers (eVSP)								
P Diesel [kW]	P El [kW]	Pmax Diesel [kW]	Pmax El [kW]	Type	Input sp [1/Min]	Thr [kN]	Blade orbit [mm]	Blade length [mm]
	200			eVSP 9			900	1012
	300			eVSP 12			1200	1112
	540			eVSP 16			1600	1213
	780			eVSP 18			1800	1512
	1050			eVSP 21			2100	1766
	1850			eVSP 26			2650	2316
	2200			eVSP 28			2800	2355
	2500			eVSP 32			3200	2666
	3800			eVSP 36			3600	2872