

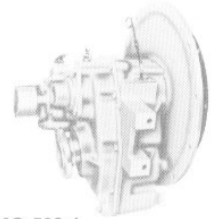
# MARINE PRODUCTS

Twin Disc Marine Transmissions feature helical gearing for quieter operation on most models; hydraulic-controlled and oil-cooled clutches for smooth, fast shifting; identical reduction ratios in forward and reverse, in most cases full power forward and reverse, and minimal external plumbing. Some models are available with down angle output to provide near-level engine installation, a feature of particular interest to boat builders for optimizing space within the vessel. Optional trolling valve assemblies are available for most Twin Disc models. The trolling valve

provides the ability to obtain lower propeller speeds than would be possible at engine idle speed with clutch fully engaged. Omega Power Control is available on the MG-514M and the MG-530M. The Omega Power Control is similar to the trolling valve except that it allows clutch modulation at higher engine speeds and provides an internal governor to maintain a set output speed. Controllable pitch propeller actuation is available in the MG-509CP and the MG-514CP. An externally-actuated controllable pitch system is available for MG-516 through MG-540 models.

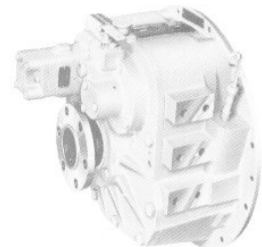
Model	Reduction Ratios (:1)	Kilowatts (Horsepower)				
		Continuous @ 1800 rpm		Intermediate @ 2100 rpm		Pleasure Craft @ 2300 rpm
MG-502-1	1.54, 2.00	56 (75)	100 (140)	153 (205)		
MG-502	2.47	56 (75)	88 (118)	138 (185)		
MG-506-1	1.09, 1.50, 1.97	94 (126)	121 (162)	194 (260)		
	2.50, 2.96	94 (126)	121 (162)	172 (230)		
MG-506A	1.09, 1.50, 1.97	94 (126)	121 (162)	194 (260)		
	2.50, 2.96	94 (126)	121 (162)	172 (230)		
MG-506	3.79, 4.48	94 (126)	119 (159)	—	—	
MG-507-1	1.10, 1.51, 1.77, 1.98	149 (200)	235 (315)	298 (400)		
	2.54	131 (175)	201 (270)	239 (320)		
	2.99	116 (155)	179 (240)	213 (285)		
MG-507A-1	1.10, 1.51, 1.77, 1.98	149 (200)	235 (315)	298 (400)		
	2.54	131 (175)	201 (270)	239 (320)		
	2.99	116 (155)	179 (240)	213 (285)		
MG-507-2	1.10, 1.51, 1.77	—	—	373 (500)		
	1.98	—	—	336 (450)		
MG-507A-2	1.10, 1.51, 1.77	—	—	373 (500)		
	1.98	—	—	336 (450)		
MG-509	1.45, 2.00	175 (235)	235 (315)	291 (390)		
	2.48	170 (228)	235 (315)	275 (370)		
	2.95	170 (228)	216 (290)	242 (325)		
	3.39	125 (170)	165 (220)	195 (260)		
	3.83, 4.50	175 (235)	235 (315)	—		
	4.95	134 (180)	180 (242)	—		
MG-5091	1.45, 1.71, 2.04	186 (250)	280 (375)	447 (600)		
	2.45	186 (250)	280 (375)	373 (500)		
	2.95	186 (250)	280 (375)	—		
	3.38	186 (250)	227 (305)	—		
MG-5090A	1.45, 1.75, 1.96	—	280 (375)	447 (600)		
	2.43	—	280 (375)	373 (500)		
MG-509CP	3.83, 4.50	175 (235)	235 (315)	—	—	
MG-510	1.50, 2.04	226 (303)	300 (400)	390 (525)		
	2.54	226 (303)	300 (400)	360 (480)		
	3.10	226 (303)	285 (385)	360 (480)		
	3.92	226 (303)	300 (400)	—		
	4.95	226 (303)	285 (385)	—		
MG-510A	1.48, 1.92	226 (303)	300 (400)	390 (525)		
	2.44	226 (303)	285 (385)	360 (480)		
MG-5111A	1.48, 1.92	—	358 (480)	597 (800)		
	2.44	—	358 (480)	522 (700)		
MG-5111	1.50, 1.74, 2.04	242 (325)	358 (480)	597 (800)		
	2.54	242 (325)	358 (480)	522 (700)		
	3.10	242 (325)	298 (400)	418 (560)		
	3.92	242 (325)	358 (480)	—		
	4.95	242 (325)	—	—		
MG-514C & MG-514M†	1.51, 2.00, 2.50	283 (380)	380 (510)	485 (650)		
	3.00	283 (380)	380 (510)	485 (650)		
	3.50	283 (380)	336 (450)	418 (560)		
	4.13, 4.50, 5.16	283 (380)	380 (510)	—		
	6.00	283 (380)	—	—		

†Special operating limits apply to Omega Power Control Marine Transmissions: MG-514M and MG-530M. Consult Twin Disc Marine Application Engineering.



**MG-502 & MG-502-1**

Three ratios from 1.54:1 to 2.47:1—52 to 268 kW (70 to 360 hp).\* 10° down angle.



**MG-506 & MG-506-1**

Seven ratios from 1.09:1 to 4.48:1—62 to 254 kW (83 to 340 hp).\*



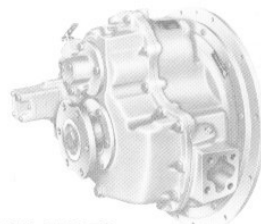
**MG-506A**

Five ratios from 1.09:1 to 2.96:1—62 to 254 kW (83 to 340 hp).\* 10° down angle.



**MG-507 SERIES**

Six ratios from 1.10:1 to 2.99:1—80 to 373 kW (107 to 500 hp).



**MG-507A SERIES**

Six ratios from 1.10:1 to 2.99:1—80 to 373 kW (107 to 500 hp).\* 7° down angle.

\*Depending on ratio, type of duty and speed.