

Medium and low - power series marine gearboxes

The transmission capacity of the gearbox ranges from 0.004 kW/rpm to 2.05 kW/rpm.



06 Marine Gearbox Input Speed Range (r/min) :1000~2100	
Reduction Ratio	2.52 /3.05 /3.50
Transmission capacity	0.004 kw/rpm
Control way	Manually
Rated thrust	1.8KN
Center distance	124mm
Flywheel/Bell housing	195C
Weight /Size	58kg 350 × 316 × 482mm



16A Marine Gearbox Input Speed Range (r/min) :1000~2100	
Reduction Ratio	2.07 / 2.48 / 2.95 / 3.35 / 3.83
Transmission capacity	0.012kw/rpm
Control way	Manually
Rated thrust	3.5KN
Center distance	135mm
Flywheel	2105C 395 SAE 11.5 10
Bell housing	2105C 395 SAE 3 4
Weight /Size	84kg 422 × 325 × 563mm



26 Marine Gearbox Input Speed Range (r/min) :1000~2500			
Reduction Ratio	2.50 3.00	3.50	4.00
Transmission capacity kw/rpm	0.0199	0.0190	0.0177
Control way	Manually		
Rated thrust	5KN		
Center distance	135mm		
Flywheel	4105C		
Bell housing	4105C		
Weight /Size	92kg 473.5 × 365 × 830mm		



MA100 Marine Gearbox Input Speed Range (r/min) :1500~3000			
Reduction Ratio	1.60 2.00	1.60 2.00	1.60 2.00
Transmission capacity kw/rpm	0.009	0.009	0.009
Control way	Push-and-pull flexible shaft, electrically		
Rated thrust	3KN		
Center distance	100mm		
Flywheel	SAE 11.5 10 7.5		
Bell housing	SAE 3 4 5		
Weight /Size	75kg 236×390×420mm		



MA125 Marine Gearbox Input Speed Range (r/min) :1500~3000						
Reduction Ratio	2.03/ 2.46	3.04	3.57	4.05	4.39	4.70
Transmission capacity kw/rpm	0.020	0.018	0.016	0.014	0.013	0.011
Control way	Push-and-pull flexible shaft, electrically					
Rated thrust	5.5KN					
Center distance	125mm					
Flywheel	SAE 11.5 10					
Bell housing	SAE 2 3 4					
Weight /Size	115kg 291 × 454 × 485mm					



MA142 Marine Gearbox Input Speed Range (r/min) :1500~2500						
Reduction Ratio	1.97 / 2.52/ 3.03	3.54	3.95	4.50	5.06	5.47
Transmission capacity kw/rpm	0.030	0.026	0.023	0.019	0.016	0.013
Control way	Push-and-pull flexible shaft, electrically					
Rated thrust	8.5KN					
Center distance	142mm					
Flywheel	SAE 11.5 10					
Bell housing	SAE 2 3					
Weight /Size	140kg 308 × 520 × 540mm					



40A Marine Gearbox Input Speed Range (r/min) :750~2000		
Reduction Ratio	2.07 2.96	3.44
Transmission capacity kw/rpm	0.0294	0.0235
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	8.8KN	
Center distance	142mm	
Flywheel	4110C SAE 14 11.5	
Bell housing	4110C SAE 1 2 3	
Weight /Size	225kg 490 × 670 × 620mm	



MB170 Marine Gearbox Input Speed Range (r/min) :750~2000			
Reduction Ratio	1.97 / 2.52 / 3.04 3.54 / 3.96	4.50 5.06	5.47 5.88
Transmission capacity kw/rpm	0.039	0.031	0.027
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	16KN		
Center distance	170mm		
Flywheel	4135Ca X6110C SAE 14 11.5 10		
Bell housing	4135Ca X6110C SAE 1 2 3		
Weight /Size	240kg 485 × 610 × 656mm		



120B Marine Gearbox Input Speed Range (r/min) :750~1800		
Reduction Ratio	2.03 2.81	3.73
Transmission capacity kw/rpm	0.088	0.044
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	25KN	
Center distance	190mm	
Flywheel	6135Ca 4120 SAE 14	
Bell housing	6135Ca 4120 SAE 1	
Weight /Size	400kg 605 × 744 × 770mm	



120C Marine Gearbox Input Speed Range (r/min) :1000~2500			
Reduction Ratio	1.48 1.61 1.94 2.45	2.96	3.35
Transmission capacity kw/rpm	0.10	0.09	0.08
Control way	Push-and-pull flexible shaft, electrically,		
Rated thrust	25KN		
Center distance	180mm		
Flywheel	6135Ca SAE 14 11.5		
Bell housing	6135Ca SAE 1 2 3		
Weight /Size	225kg 432 × 440 × 650mm		



HCN120 Marine Gearbox Input Speed Range (r/min) :1000~2500			
Reduction Ratio	1.48 1.61 1.94 2.45	2.96	3.35
Transmission capacity kw/rpm	0.10	0.09	0.08
Control way	Push-and-pull flexible shaft, electrically,		
Rated thrust	25KN		
Center distance	180mm		
Flywheel	6135Ca SAE 14 11.5		
Bell housing	6135Ca SAE 1 2 3		
Weight /Size	225kg 432 × 440 × 650mm		



135 Marine Gearbox Input Speed Range (r/min) :750~2000

Reduction Ratio	2.03 2.59 3.04 3.62 4.11	4.65	5.06	5.47	5.81
Transmission capacity kw/rpm	0.100	0.093	0.088	0.077	0.070
Control way	Push-and-pull flexible shaft, electrically				
Rated thrust	29.4KN				
Center distance	225mm				
Flywheel	6135Ca SAE 14				
Bell housing	6135Ca SAE 1				
Weight /Size	470kg 578 × 744 × 830mm				



HC138 Marine Gearbox Input Speed Range (r/min) :1000~2500

Reduction Ratio	2.00 2.52 3.00 3.57 4.05 4.45
Transmission capacity	0.110
Control way	Push-and-pull flexible shaft, electrically, pneumatically
Rated thrust	30KN
Center distance	225mm
Flywheel	6135Ca SAE 14 11.5
Bell housing	6135Ca SAE 1 2 3
Weight /Size	360kg 520 × 792 × 760mm



HCD138 Marine Gearbox Input Speed Range (r/min) :1000~2500

Reduction Ratio	5.05 5.63	6.06	6.47
Transmission capacity kw/rpm	0.110	0.099	0.093
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	40KN		
Center distance	296mm		
Flywheel	6135Ca SAE 14 11.5		
Bell housing	6135Ca SAE 1 2		
Weight /Size	415kg 494 × 800 × 870mm		



MB242 Marine Gearbox Input Speed Range (r/min) :1000~2500

Reduction Ratio	2.00 2.54 3.04 3.52 3.95 4.53	5.12	5.56	5.88
Transmission capacity kw/rpm	0.103	0.100	0.094	0.074
Control way	Push-and-pull flexible shaft, electrically, pneumatically			
Rated thrust	30KN			
Center distance	242mm			
Flywheel	SAE 14 11.5 6135			
Bell housing	SAE 1 2 3 6135			
Weight /Size	385kg 442 × 774 × 763mm			



MB270A Marine Gearbox Input Speed Range (r/min) :1000~2500

Reduction Ratio	3.00 4.05 4.53 5.12	5.50	5.95	6.39 6.82
Transmission capacity kw/rpm	0.147	0.134	0.110	0.088
Control way	Push-and-pull flexible shaft, electrically, pneumatically			
Rated thrust	39.2KN			
Center distance	270mm			
Flywheel	SAE 18 16 14			
Bell housing	SAE 0 1			
Weight /Size	675kg 594 × 810 × 868mm			



300 Marine Gearbox Input Speed Range (r/min) :750~2500

Reduction Ratio	1.87 2.04 2.54	3.00	3.53	4.10 4.47 4.61	4.94	5.44
Transmission capacity kw/rpm	0.257	0.243	0.221	0.184	0.147	0.125
Control way	Push-and-pull flexible shaft, electrically					
Rated thrust	50KN					
Center distance	264mm					
Flywheel	12V135 12V150 SAE 18 16 14					
Bell housing	12V135 12V150 SAE 0 1					
Weight /Size	740kg 786 × 930 × 864mm					



HC300 Marine Gearbox Input Speed Range (r/min) :750~2500

Reduction Ratio	1.50 1.87 2.04 2.23 2.54 3.00 3.53	4.10 4.47	4.61	4.94	5.44
Transmission capacity kw/rpm	0.257	0.2	0.184	0.147	0.13
Control way	Push-and-pull flexible shaft, electrically				
Rated thrust	50KN				
Center distance	264mm				
Flywheel	12V135 12V150 SAE 18 16 14				
Bell housing	12V135 12V150 SAE 0 1				
Weight /Size	680kg 680 × 930 × 880mm				



J300 Marine Gearbox Input Speed Range (r/min) :750~2500

Reduction Ratio	2.04 2.54 3.00 3.47	3.95
Transmission capacity kw/rpm	0.280	0.257
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	60KN	
Center distance	264mm	
Flywheel	12V135 12V150 SAE 18 16 14	
Bell housing	12V135 12V150 SAE 0 1	
Weight /Size	740kg 786 × 930 × 864mm	



D300A Marine Gearbox Input Speed Range (r/min) :1000~2500							
Reduction Ratio	4.00	4.48	5.05	5.52 5.90 6.56	7.06	7.63	
Transmission capacity kw/rpm	0.257	0.243	0.221	0.184	0.147	0.125	
Control way	Push-and-pull flexible shaft, electrically						
Rated thrust	60KN						
Center distance	355mm						
Flywheel	12V135 SAE 18 16 14						
Bell housing	12V135 SAE 0 1						
Weight /Size	940kg 786 × 1010 × 1041 mm						



T300 Marine Gearbox Input Speed Range (r/min) :1000~2300							
Reduction Ratio	4.73	4.95	5.51	6.03	6.65	7.04	7.54 8.02 8.47
Transmission capacity kw/rpm	0.243					0.221	0.200
Control way	Push-and-pull flexible shaft, electrically, pneumatically						
Rated thrust	70KN						
Center distance	355mm						
Flywheel	SAE 18 16 14						
Bell housing	SAE 0 1						
Weight /Size	1120kg 772 × 980 × 1106mm						



T300/1 Marine Gearbox Input Speed Range (r/min) :1000~2300							
Reduction Ratio	8.94 9.45						
Transmission capacity	0.196						
Control way	Push-and-pull flexible shaft, electrically, pneumatically						
Rated thrust	70KN						
Center distance	355mm						
Flywheel	SAE 18 16 14						
Bell housing	SAE 0 1						
Weight /Size	1120kg 772 × 980 × 1106						



HCG403 Marine Gearbox Input Speed Range (r/min) :1000~2400													
Reduction Ratio	6.21	6.40	7.01	7.45	7.92	8.43	8.97	9.32	9.94	10.43	10.87	11.61	
Transmission capacity kw/rpm	0.331	0.321	0.293	0.276	0.259	0.244	0.229	0.221	0.207	0.197	0.189	0.177	
Control way	Push-and-pull flexible shaft, electrically, pneumatically												
Rated thrust	82KN												
Center distance	355mm												
Flywheel	SAE 14 16 18												
Bell housing	SAE 0 1												
Weight /Size	1000kg 815.5 × 920 × 1200mm												



HC400A Marine Gearbox Input Speed Range (r/min) :1000~1800

Reduction Ratio	1.50 1.77 2.04 2.50 2.86 3.00 3.25 3.33 3.42	4.06	4.61 4.94
Transmission capacity kw/rpm	0.331	0.279	0.190
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	82KN		
Center distance	264mm		
Flywheel	SAE 18 16 14		
Bell housing	SAE 0 1		
Weight /Size	820kg 641×1010×890mm		



HCD400A Marine Gearbox Input Speed Range (r/min) :1000~1800

Reduction Ratio	3.96 4.33 4.43 4.70 5.00	5.53	5.71 5.89
Transmission capacity kw/rpm	0.331	0.293	0.272
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	82KN		
Center distance	355mm		
Flywheel	SAE 18 16 14		
Bell housing	SAE 0 1		
Weight /Size	1100kg 641 × 1010 × 988mm		



HCT400A Marine Gearbox Input Speed Range (r/min) :1000~2100

Reduction Ratio	6.09 6.49 6.93	7.42	7.96	8.40	9.00 9.47
Transmission capacity kw/rpm	0.331	0.309	0.287	0.265	0.243
Control way	Push-and-pull flexible shaft, electrically				
Rated thrust	82KN				
Center distance	375mm				
Flywheel	SAE 18 16 14				
Bell housing	SAE 0 1				
Weight /Size	1450kg 784 × 992 × 1130mm				



HCT400A/1 Marine Gearbox Input Speed Range (r/min) :1000~2100

Reduction Ratio	8.15 8.69 9.27	9.94	10.60	11.37	12.00 12.50	13.96
Transmission capacity kw/rpm	0.331	0.316	0.297	0.274	0.262	0.204
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	120KN					
Center distance	465mm					
Flywheel	SAE 18 16 14					
Bell housing	SAE 0 1					
Weight /Size	1500kg 869 × 1100 × 1275mm					



HC600A Marine Gearbox Input Speed Range (r/min) :1000~2100

Reduction Ratio	2.00 2.48 3.00	3.58	3.89
Transmission capacity kw/rpm	0.48	0.44	0.40
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	90KN		
Center distance	320mm		
Flywheel	SAE 21 18 16 14		
Bell housing	SAE 00 0 1		
Weight /Size	1100kg 641 × 1010 × 988mm		



HCN600 Marine Gearbox Input Speed Range (r/min) :1000~2100

Reduction Ratio	2.00 2.48 3.00	3.58	3.89
Transmission capacity kw/rpm	0.48	0.44	0.40
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	90KN		
Center distance	320mm		
Flywheel	SAE 21 18 16 14		
Bell housing	SAE 00 0 1		
Weight /Size	1100kg 641 × 1010 × 988mm		



HCD600A Marine Gearbox Input Speed Range (r/min) :1000~2100

Reduction Ratio	4.18 4.43	4.7	5.0	5.44 5.71
Transmission capacity kw/rpm	0.48	0.46	0.44	0.40
Control way	Push-and-pull flexible shaft, electrically, pneumatically			
Rated thrust	90KN			
Center distance	415mm			
Flywheel	SAE 21 18 16 14			
Bell housing	SAE 00 0 1			
Weight /Size	1550kg 745 × 1214 × 1271mm			



HCT600A Marine Gearbox Input Speed Range (r/min) :1000~2100

Reduction Ratio	6.06	6.49	6.97 7.51	8.04	8.66	9.35
Transmission capacity kw/rpm	0.44	0.40	0.37	0.33	0.29	0.28
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	90KN					
Center distance	415mm					
Flywheel	SAE 18 16 14					
Bell housing	SAE 0 1					
Weight /Size	1650kg 821 × 1214 × 1271mm					



HCT600A/1 Marine Gearbox Input Speed Range (r/min) :1000~2100

Reduction Ratio	7.04 8.23	7.69	8.82	9.47	10.10 10.80	11.65	12.57	13.64	14.44	15.91
Transmission capacity kw/rpm	0.441		0.412	0.400	0.375	0.353	0.331	0.272	0.257	0.204
Control way	Push-and-pull flexible shaft, electrically, pneumatically									
Rated thrust	140KN									
Center distance	500mm									
Flywheel	SAE 21 18 16 14									
Bell housing	SAE 00 0 1									
Weight /Size	1700kg 878 × 1224 × 1346mm									



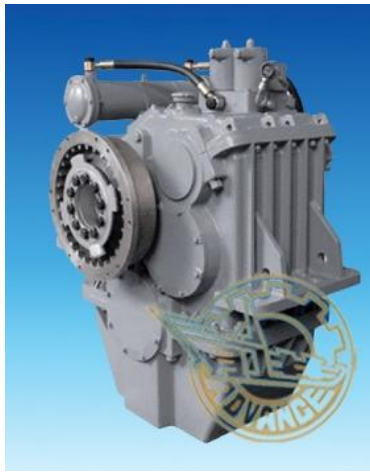
HCT650-2 Marine Gearbox Input Speed Range (r/min) :1000~2400

Reduction Ratio	9.51 11.03 11.98	10.06 11.46 12.52	10.45	13.09	13.64	14.10	14.48	15.00	15.58	16.01	16.42	16.97	17.44	18.06
Transmission capacity kw/rpm	0.480			0.469	0.450	0.436	0.424	0.409	0.394	0.379	0.349	0.337	0.328	0.317
Control way	Push-and-pull flexible shaft, electrically, pneumatically													
Rated thrust	160KN													
Center distance	550mm													
Flywheel	SAE 21 18 16													
Bell housing	SAE 00 0													
Weight /Size	2000kg 900 × 1224 × 1442mm													

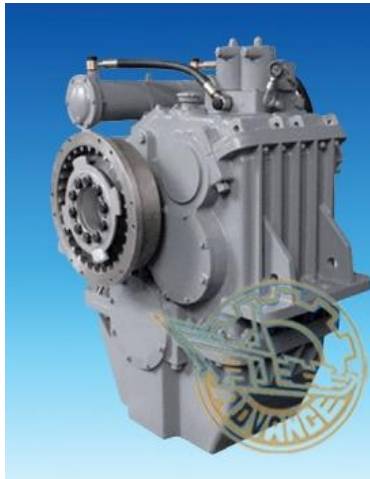


HCD800 Marine Gearbox Input Speed Range (r/min) :1000~2500

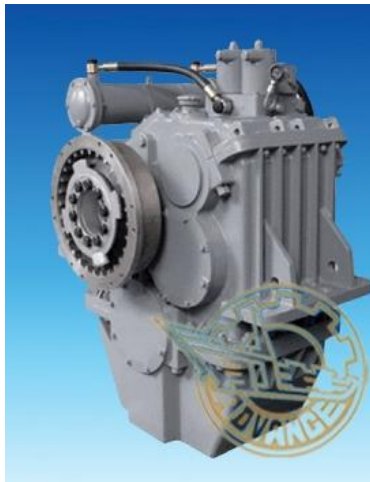
Reduction Ratio	3.00 .96	3.43 4.17	3 4.39	4.90	5.47	5.89
Transmission capacity kw/rpm	0.625			0.588	0.551	0.515
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	110KN					
Center distance	450mm					
Flywheel	SAE 21 18 16					
Bell housing	SAE 00 0					
Weight /Size	2200kg 1056 × 1280 × 1341mm					



HCT800 Marine Gearbox Input Speed Range (r/min) :600~1800									
Reduction Ratio	4.95 5.57 5.68 5.93 6.43					6.86	7.33	7.84	8.40
Transmission capacity kw/rpm	0.625					0.588	0.551	0.515	0.480
Control way	Push-and-pull flexible shaft, electrically, pneumatically								
Rated thrust	140KN								
Center distance	450mm								
Flywheel	SAE 21 18 16								
Bell housing	SAE 00 0								
Weight /Size	2700kg 1056 × 1280 × 1425mm								



HCT800/1 Marine Gearbox Input Speed Range (r/min) :1000~2400														
Reduction Ratio	6.91 .69 .60 .68	7.28 8.13 9.12 9.68	7.8 8 9	10.3 0	10.98	11.76	12.43	13.17	13.97	14.85	15.8 2	16.5 8	17.91	20.12
Transmission capacity kw/rpm	0.625		0.60 9	0.575	0.54 9	0.520	0.491	0.463	0.435	0.40 8	0.38 2	0.378	0.278	
Control way	Push-and-pull flexible shaft, electrically, pneumatically													
Rated thrust	220KN													
Center distance	582mm													
Flywheel	SAE 21 18 16													
Bell housing	SAE 00 0													
Weight /Size	3200KG 1152 × 1360 × 1557mm													



HCT800/2 Marine Gearbox Input Speed Range (r/min) :1000~2400										
Reduction Ratio	11.52 12.97	12.21	14.08	14.48	14.88	15.48	15.76	16.72	17.77	18.94
Transmission capacity kw/rpm	0.6		0.553	0.549	0.52	0.503	0.491	0.463	0.435	0.382
Control way	Push-and-pull flexible shaft, electrically,									
Rated thrust	220KN									
Center distance	666mm									
Flywheel	SAE 21 18 16									
Bell housing	SAE 00 0									
Weight /Size	3600KG 1190 × 1490 × 1707mm									



HCT800/2A Marine Gearbox Input Speed Range (r/min) :1000~2400									
Reduction Ratio	13.12	13.81	14.55	15.33	16.16	17.04	17.99	20.27	22.18
Transmission capacity kw/rpm	0.6816	0.6474	0.6147	0.5834	0.5534	0.5250	0.497	0.441	0.435
Control way	Push-and-pull flexible shaft, electrically,								
Rated thrust	220KN								
Center distance	666mm								
Flywheel	SAE 21 18 16								
Bell housing	SAE 00 0								
Weight /Size	4000KG 1190 × 1490 × 2040mm								



HCT800/3 Marine Gearbox Input Speed Range (r/min) :800~1800			
Reduction Ratio	16.56	17.95	20.19
Transmission capacity kw/rpm	0.597	0.551	0.491
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	240KN		
Center distance	736mm		
Flywheel	SAE 21 18 16		
Bell housing	SAE 00 0 0		
Weight /Size	4200kg 1235 × 1570 × 1789mm		



HCW801 Marine Gearbox Input Speed Range (r/min) :1000~1900													
Reduction Ratio	12.01	12.74	13.51	14.33	15.2	16.13	17.13	18.2	19.34	20.57	21.91	23.35	24.37
Transmission capacity kw/rpm	0.897	0.846	0.797	0.752	0.708	0.667	0.629	0.592	0.557	0.523	0.491	0.461	0.442
Control way	Push-and-pull flexible shaft, electrically, pneumatically												
Rated thrust	240KN												
Center distance	570mm												
Flywheel	SAE 21 18												
Bell housing	SAE 00 0												
Weight /Size	5000KG 11235 × 1570 × 1789mm												



HC1000 Marine Gearbox Input Speed Range (r/min) :750~2500		
Reduction Ratio	2.00 2.17 2.50 2.64 3.04 3.48 3.59	4.06
Transmission capacity kw/rpm	0.735	0.65
Control way	Push-and-pull flexible shaft, electrically, pneumatically	
Rated thrust	110KN	
Center distance	335mm	
Flywheel	without	
Bell housing	customized	
Weight /Size	17000kg 1082 × 1120 × 990mm	



HCD1000 Marine Gearbox Input Speed Range (r/min) :600~1900			
Reduction Ratio	3.43 3.96 4.39 4.45 4.90 5.06	5.47	5.83
Transmission capacity kw/rpm	0.735	0.68	0.65
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	140KN		
Center distance	450mm		
Flywheel	SAE 21 18		
Bell housing	SAE 00 0 0		
Weight /Size	2200kg 1082 × 1280 × 1345mm		



HCT1100 Marine Gearbox Input Speed Range (r/min) :700~1800						
Reduction Ratio	5.05:1 5.60:1 5.98:1 6.39:1	6.85:1	7.35:1	7.90:1	8.53	8.90
Transmission capacity kw/rpm	0.846	0.835	0.772	0.736	0.682	0.653
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	150KN					
Center distance	500mm					
Flywheel	without					
Bell housing	customized					
Weight /Size	3000kg 1150 × 1350 × 1547mm					



HCW1100 Marine Gearbox Input Speed Range (r/min) :1500~1800

Reduction Ratio	15.88 .38	16	17.24	17.97	18.74	19.55	20.40
Transmission capacity kw/rpm	0.931	0.894	0.857	0.822	0.788	0.756	
Control way	Push-and-pull flexible shaft, electrically, pneumatically						
Rated thrust	300KN						
Center distance	625mm						
Flywheel	SAE 18 21						
Bell housing	customized						
Weight /Size	6000kg 1567 × 1630 × 2550mm						



HC1200 Marine Gearbox Input Speed Range (r/min) :600~1900

Reduction Ratio	1.60 2.03 2.48 2.50 2.96 3.18 3.33 3.55	3.79	4.06	4.20	4.47
Transmission capacity kw/rpm	0.93	0.88	0.80	0.695	0.650
Control way	Push-and-pull flexible shaft, electrically, pneumatically				
Rated thrust	120KN				
Center distance	380mm				
Flywheel	Without				
Bell housing	customized				
Weight /Size	2000kg 1082 × 1200 × 1130mm				



HC1200/1 Marine Gearbox Input Speed Range (r/min) :600~1800

Reduction Ratio	3.70 3.74 3.95 4.14 4.45	5.00	5.25	5.58
Transmission capacity kw/rpm	0.93	0.833	0.695	0.65
Control way	Push-and-pull flexible shaft, electrically, pneumatically			
Rated thrust	140KN			
Center distance	450mm			
Flywheel	Without			
Bell housing	customized			
Weight /Size	2500kg 1096 × 1260 × 1270mm			



HCT1200 Marine Gearbox Input Speed Range (r/min) :700~1800				
Reduction Ratio	5.05:1 5.60:1 5.98:1 6.39:1 6.85:1 7.35:1 7.90:1	8.53	8.90	
Transmission capacity kw/rpm	0.93	0.8	0.768	
Control way	Push-and-pull flexible shaft, electrically, pneumatically			
Rated thrust	150KN			
Center distance	500mm			
Flywheel	Without			
Bell housing	customized			
Weight /Size	3050kg 1188 × 1350 × 1547			



HCT1200/1 Marine Gearbox Input Speed Range (r/min) :600~1600										
Reduction Ratio	8.55 9.16 9.57 10.08	10.74	11.05	11.45	12.17	12.53	12.92	13.65	13.96	14.54
Transmission capacity kw/rpm	0.93	0.83	0.82	0.78	0.74	0.72	0.7	0.65	0.625	0.6
Control way	Push-and-pull flexible shaft, electrically,									
Rated thrust	220KN									
Center distance	580mm									
Flywheel	Without									
Bell housing	customized									
Weight /Size	3600KG 1056 × 1430 × 1670mm									



HCT1280-2 Marine Gearbox Input Speed Range (r/min) :700~1800										
Reduction Ratio	8.048468909.38988 10.43 11.03 11.98 12.36	13.13	13.54	13.96	14.32	15.21	16.19	17.27	18.47	
Transmission capacity kw/rpm	0.93	0.886	0.859	0.833	0.812	0.765	0.718	0.673	0.63	
Control way	Push-and-pull flexible shaft, electrically,									
Rated thrust	240KN									
Center distance	680mm									
Flywheel	Without									
Bell housing	customized									
Weight /Size	2200KG 1290 × 1520 × 1775mm									



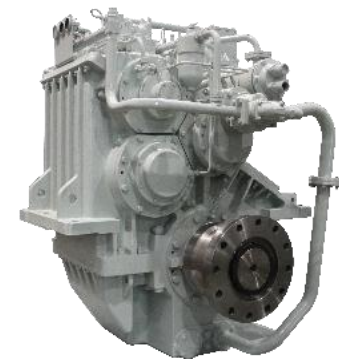
HC1250 Marine Gearbox Input Speed Range (r/min) :400~1800

Reduction Ratio	2.03 2.48 3.04 3.48	3.95
Transmission capacity kw/rpm	0.919	0.850
Control way	Push-and-pull flexible shaft, electrically, pneumatically	
Rated thrust	140KN	
Center distance	390mm	
Flywheel	Without	
Bell housing	customized	
Weight /Size	2200kg 155 × 1330 × 1435	



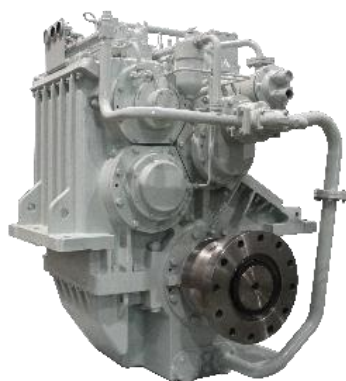
HCD1400 Marine Gearbox Input Speed Range (r/min) :600~1800

Reduction Ratio	3.83 4.04 4.27 4.32 4.52 4.8 5.05 5.50	5.86
Transmission capacity kw/rpm	1.03	0.778
Control way	Push-and-pull flexible shaft, electrically, pneumatically	
Rated thrust	175KN	
Center distance	485mm	
Flywheel	Without	
Bell housing	customized	
Weight /Size	2800kg 1260 × 1380 × 1360	



HCT1400 Marine Gearbox Input Speed Range (r/min) :600~1800

Reduction Ratio	4.06 4.51 5.03 5.52 5.97 6.48 7.03 7.50 8.01	8.47	8.60	9.00	9.12	9.55
Transmission capacity kw/rpm	1.03	1	0.96	0.93	0.90	0.85
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	550KN					
Center distance	220mm					
Flywheel	Without					
Bell housing	customized					
Weight /Size	3700kg 1306 × 1380 × 1750mm					



HCT1400-2 Marine Gearbox Input Speed Range (r/min) :600~1800																
Reduction Ratio	10.47 11.50	11.15 12.01	12.43	12.96	13.41	14.02	14.53	15.10	15.53	16.00	16.52	17.01	17.60	17.99	18.41	19.07
Transmission capacity kw/rpm	1.03		0.996	0.933	0.922	0.883	0.853	0.758	0.737	0.715	0.693	0.673	0.65	0.636	0.621	0.6
Control way	Push-and-pull flexible shaft, electrically, pneumatically															
Rated thrust	220KN															
Center distance	722mm															
Flywheel	Without															
Bell housing	customized															
Weight /Size	5500KG 1279 × 1600 × 2100mm															



HCW1400 Marine Gearbox Input Speed Range (r/min) :600~1800													
Reduction Ratio	6.99	7.65	8.10	8.58	9.08	9.61	9.90	10.50	11.13	11.42	12.11	12.52	
Transmission capacity kw/rpm	1.209	1.104	1.043	0.985	0.93	0.878	0.853	0.804	0.759	0.739	0.698	0.674	
Control way	Push-and-pull flexible shaft, electrically,												
Rated thrust	240KN												
Center distance	460mm												
Flywheel	Without												
Bell housing	customized												
Weight /Size	3500KG 1439 × 1440 × 1650mm												



HC1600 Marine Gearbox Input Speed Range (r/min) :500~1650						
Reduction Ratio	2.03	2.54	3.00	3.50	4.00	
Transmission capacity kw/rpm	1.213					
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	170KN					
Center distance	415mm					
Flywheel	Without					
Bell housing	customized					
Weight /Size	3000kg 1345 × 1500 × 1300					



HCD1600 Marine Gearbox Input Speed Range (r/min) :500~1650

Reduction Ratio	2.97 3.50 3.96 4.48 4.95	5.25
Transmission capacity kw/rpm	1.213	1.164
Control way	Push-and-pull flexible shaft, electrically, pneumatically	
Rated thrust	200KN	
Center distance	520mm	
Flywheel	Without	
Bell housing	customized	
Weight /Size	3600kg 1291 × 1620 × 1590	



HCT1600 Marine Gearbox Input Speed Range (r/min) :500~1900

Reduction Ratio	5.55 5.97 6.59 6.99 7.44 7.92	8.46 9.00	9.53
Transmission capacity kw/rpm	1.213	1.104	0.93
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	250KN		
Center distance	585mm		
Flywheel	Without		
Bell housing	customized		
Weight /Size	3050kg 1246 × 1500 × 1750		



HCT1600-1 Marine Gearbox Input Speed Range (r/min) :500~1650

Reduction Ratio	10.6 11.2 12 12.5	13.43	14.24	15.12	16.1
Transmission capacity kw/rpm	1.23	1.13	1.06	0.96	0.89
Control way	Push-and-pull flexible shaft, electrically, pneumatically				
Rated thrust	270KN				
Center distance	680mm				
Flywheel	Without				
Bell housing	customized				
Weight /Size	5500kg 1280 × 1704 × 2040mm				



HC2000 Marine Gearbox Input Speed Range (r/min) :600~1500

Reduction Ratio	2.28 2.52 3.13 3.52	3.91	4.40
Transmission capacity kw/rpm	1.48	1.42	1.23
Control way	Push-and-pull flexible shaft, electrically, pneumatically		
Rated thrust	190KN		
Center distance	450mm		
Flywheel	Without		
Bell housing	customized		
Weight /Size	3500kg 1600 × 1500 × 1400		



HCD2000 Marine Gearbox Input Speed Range (r/min) :600~1500

Reduction Ratio	3.00 3.58 3.96 4.45 4.95	5.26	5.43	5.75	6.05
Transmission capacity kw/rpm	1.48	1.42	1.34	1.23	1.19
Control way	Push-and-pull flexible shaft, electrically, pneumatically				
Rated thrust	220KN				
Center distance	560mm				
Flywheel	Without				
Bell housing	customized				
Weight /Size	4000kg 1600 × 1620 × 1645				



HCT2000 Marine Gearbox Input Speed Range (r/min) :600~1500

Reduction Ratio	5.19 5.49 5.94 6 .58 7.01 7.48 7.76 8.00	8.57	8.84	9.43	10.04	11.00
Transmission capacity kw/rpm	1.48	1.42	1.34	1.23	1.21	1
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	270KN					
Center distance	625mm					
Flywheel	Without					
Bell housing	customized					
Weight /Size	5600kg 1284 × 1600 × 1835mm					



HCT2000-1 Marine Gearbox Input Speed Range (r/min) :600~1500						
Reduction Ratio	7.94 10.16	8.57 10.40	9.06 11.11	9.59 11.11	11.49	12.08
Transmission capacity kw/rpm	1.48	1.43	1.4	1.246	1.18	
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	340KN					
Center distance	690mm					
Flywheel	Without					
Bell housing	customized					
Weight /Size	7000kg 1500 × 1760 × 2010					



HC2700 Marine Gearbox Input Speed Range (r/min) :500~1400				
Reduction Ratio	1.54	2.03	2.58	3.09
Transmission capacity kw/rpm	2.05	1.96	1.75	
Control way	Push-and-pull flexible shaft, electrically, pneumatically			
Rated thrust	270KN			
Center distance	490mm			
Flywheel	Without			
Bell housing	customized			
Weight /Size	5500kg 1670 × 1613 × 1650			



HCD2700 Marine Gearbox Input Speed Range (r/min) :500~1400				
Reduction Ratio	3.65	4.04	4.50	5.05
Transmission capacity kw/rpm	2.05	1.96	1.7	
Control way	Push-and-pull flexible shaft, electrically, pneumatically			
Rated thrust	280KN			
Center distance	630mm			
Flywheel	Without			
Bell housing	customized			
Weight /Size	6000kg 1400 × 1780 × 1530			



HCT2700Marine Gearbox Input Speed Range (r/min) :500~1400						
Reduction Ratio	4.92 6.58	5.43 7.03	6.16 7.53	8.01	8.54	9.12 9.42 10.05
Transmission capacity kw/rpm	2.05		1.92	1.83	1.76	1.54
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	340KN					
Center distance	690mm					
Flywheel	Without					
Bell housing	customized					
Weight /Size	7000kg 1900 × 2000 × 1970					

HCT2700-1Marine Gearbox Input Speed Range (r/min) :500~1400						
Reduction Ratio	7.91 9.89	8.44	8.84	9.47	10.55	11.26 11.64 12.41
Transmission capacity kw/rpm	2.05		1.96	1.86	1.78	1.7
Control way	Push-and-pull flexible shaft, electrically, pneumatically					
Rated thrust	450KN					
Center distance	800mm					
Flywheel	Without					
Bell housing	customized					
Weight /Size	9000kg 1900 × 2250 × 1950					

Light - Duty with High speed Series Marine Gearboxes

The transmission capacity of the product covers a range from 0.028/r/min to 1.204/r/min.



HC038A Marine Gearbox Input Speed Range (r/min) :1500~3200				
Reduction Ratio	1.51	2.03	2.52	2.92 3.45
Transmission capacity kw/rpm	0.028		0.025	0.02
Control way	Push-and-pull flexible shaft,			
Rated thrust	9KN			
Center distance	115mm			
Flywheel	customized			
Bell housing	customized			
Weight /Size	70kg 392 × 480 × 480			



HC65 Marine Gearbox Input Speed Range (r/min) :1000~2500		
Reduction Ratio	1.53 2.03 2.50	2.96
Transmission capacity kw/rpm	0.048	0.044
Control way	Push-and-pull flexible shaft,	
Rated thrust	14.7KN	
Center distance	142mm	
Flywheel	SAE 14 11.5 10	
Bell housing	1 2 3	
Weight /Size	70kg 392 × 480 × 480	



HCQ100 Marine Gearbox Input Speed Range (r/min) :1000~3500

Reduction Ratio	1.49:1	2.07:1	2.54:1	3.00:1
Transmission capacity kw/rpm	0.079			0.069
Control way	electrically			
Rated thrust	16KN			
Center distance	146mm			
Flywheel	customized			
Bell housing	Without			
Weight /Size	150kg 546 × 551 × 656			



MV100A Marine Gearbox Input Speed Range (r/min) :1000~3000

Reduction Ratio	1.23 1.28 1.62 2.07	2.56	2.87
Transmission capacity kw/rpm	0.10	0.09	0.08
Control way	Push-and-pull flexible shaft,		
Rated thrust	9KN		
Center distance	115mm		
Flywheel	6135Ca SAE 14 11.5		
Bell housing	6135Ca SAE 1 2 3		
Weight /Size	220kg 485 × 508 × 580		



HCV120 Marine 7°Down Angle Gearbox Input Speed Range (r/min) :1000~2500

Reduction Ratio	1.51 2.02	2.52
Transmission capacity kw/rpm	0.10	0.076
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	25KN	
Center distance	393mm	
Flywheel	SAE 14 11.5	
Bell housing	SAE 1 2	
Weight /Size	300kg 502 × 600 × 847	



HCQ138 Marine Gearbox Input Speed Range (r/min) :1000~2600		
Reduction Ratio	1.03 1.25 1.50 2 .03 2.48	2.95
Transmission capacity kw/rpm	0.11	0.098
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	25KN	
Center distance	165mm	
Flywheel	SAE 14 11.5	
Bell housing	SAE 1 2 3	
Weight /Size	240kg 504 × 619 × 616	



HCA138 Marine 7°Down Angle Gearbox Input Speed Range (r/min) :1000~2600		
Reduction Ratio	1.10 1.28 1.50 2.03 2.52	2.95
Transmission capacity kw/rpm	0.11	0.085
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	25KN	
Center distance	185mm	
Flywheel	SAE 14 11.5	
Bell housing	SAE 1 2	
Weight /Size	200kg 530 × 660 × 616	



HCA138 Marine 5°Down Angle Gearbox Input Speed Range (r/min) :1000~2600		
Reduction Ratio	2.95	
Transmission capacity kw/rpm	0.085	
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	25KN	
Center distance	183mm	
Flywheel	SAE 14 11.5	
Bell housing	SAE 1 2	
Weight /Size	200kg 530 × 660 × 616	



HC200 Marine Gearbox Input Speed Range (r/min) :1000~2200		
Reduction Ratio	1.48 2.00 2.28	
Transmission capacity kw/rpm	0.147	
Control way	Push-and-pull flexible shaft, electrically, pneumatically	
Rated thrust	25KN	
Center distance	183mm	
Flywheel	SAE 14 27.5	
Bell housing	SAE 1 2	
Weight /Size	280kg 424 × 792 × 754	



HC201 Marine Gearbox Input Speed Range (r/min) :1000~2500	
Reduction Ratio	2.48 2.96
Transmission capacity kw/rpm	0.147
Control way	Push-and-pull flexible shaft, electrically
Rated thrust	30KN
Center distance	183mm
Flywheel	SAE 18 16 14 11.5
Bell housing	SAE 0 1 2
Weight /Size	350kg 556 × 691 × 735



HCV230 Marine 7°Down Angle Gearbox Input Speed Range (r/min) :1000~2200			
Reduction Ratio	1.49	1.96	2.48
Transmission capacity kw/rpm	0.184	0.170	0.146
Control way	Push-and-pull flexible shaft, electrically,pneumatically		
Rated thrust	27.5KN		
Center distance	480mm		
Flywheel	SAE 14		
Bell housing	SAE 1		
Weight /Size	450kg 568 × 820 × 1020		



HCQ300 Marine Gearbox Input Speed Range (r/min) :1000~2300			
Reduction Ratio	1.06 1.21 1.36 1.46 1.74 2.05	2.38	2.55
Transmission capacity kw/rpm	0.25	0.235	0.23
Control way	Push-and-pull flexible shaft, electrically		
Rated thrust	40KN		
Center distance	203mm		
Flywheel	SAE 18 16 14		
Bell housing	SAE 0 1		
Weight /Size	370kg 630 × 521 × 680		



HCA300 Marine 10°Down Angle Gearbox Input Speed Range (r/min) :1000~2300		
Reduction Ratio	1.52 1.96 2.50	2.95
Transmission capacity kw/rpm	0.250	0.235
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	40KN	
Center distance	278mm	
Flywheel	SAE 14 16 18	
Bell housing	SAE 0 1	
Weight /Size	370kg 620 × 585 × 753	



HCA301 Marine 5°Down Angle Gearbox Input Speed Range (r/min) :1000~2300				
Reduction Ratio	1.52	1.96	2.57	2.95
Transmission capacity kw/rpm	0.250		0.235	
Control way	Push-and-pull flexible shaft, electrically			
Rated thrust	40KN			
Center distance	265mm			
Flywheel	SAE 14 16 18			
Bell housing	SAE 0 1			
Weight /Size	370kg 618 × 585 × 824			



HCA302 Marine 7°Down Angle Gearbox Input Speed Range (r/min) :1000~2300				
Reduction Ratio	1.52	1.96	2.57	2.95
Transmission capacity kw/rpm	0.25	0.235		
Control way	Push-and-pull flexible shaft, electrically			
Rated thrust	40KN			
Center distance	267.5mm			
Flywheel	SAE 14			
Bell housing	SAE 1			
Weight /Size	370kg 560 × 585 × 764			



HCQ401 Marine Gearbox Input Speed Range (r/min) :1000~2300									
Reduction Ratio	1.00	1.12	1.25	1.41	1.50	1.76	2.04	2.50	
Transmission capacity kw/rpm	0.331							0.294	
Control way	Push-and-pull flexible shaft, electrically								
Rated thrust	50KN								
Center distance	220mm								
Flywheel	SAE 18 16 14								
Bell housing	SAE 0 1								
Weight /Size	480kg 640 × 900 × 800								



HCQ402 Marine Gearbox Input Speed Range (r/min) :1000~2300				
Reduction Ratio	2.82 3.00 3.20 3.47			
Transmission capacity kw/rpm	0.331			
Control way	Push-and-pull flexible shaft, electrically			
Rated thrust	50KN			
Center distance	285mm			
Flywheel	SAE 18 16 14			
Bell housing	SAE 0 1			
Weight /Size	611 × 890 × 1080			



HCAM500 Marine 10°Down Angle Gearbox Input Speed Range (r/min) :1000~2600	
Reduction Ratio	1.35 2.03 3.00
Transmission capacity kw/rpm	0.398
Control way	Push-and-pull flexible shaft, electrically
Rated thrust	50KN
Center distance	426mm
Flywheel	SAE 18 16
Bell housing	SAE 0 1
Weight /Size	852 × 950 × 901 500kg



HCQ501 Marine Gearbox Input Speed Range (r/min) :1000~2300	
Reduction Ratio	1.00 1.12 1.25 1.41 1.50 1.76 2.04 2.50
Transmission capacity kw/rpm	0.331 0.294
Control way	Push-and-pull flexible shaft, electrically
Rated thrust	50KN
Center distance	220mm
Flywheel	SAE 18 16 14
Bell housing	SAE 0 1
Weight /Size	480kg 640 × 900 × 800



HCQ502 Marine Gearbox Input Speed Range (r/min) :1000~2300	
Reduction Ratio	2.71 2.95
Transmission capacity kw/rpm	0.404
Control way	Push-and-pull flexible shaft, electrically
Rated thrust	60KN
Center distance	264mm
Flywheel	SAE 18 16 14
Bell housing	SAE 0 1
Weight /Size	700kg 742 × 856 × 980



HCQ700 Marine Gearbox Input Speed Range (r/min) :1000~2500	
Reduction Ratio	1.30 1.51 1.75 2.00 2.25 2.50 2.78 2.96
Transmission capacity kw/rpm	0.554 0.514 0.49
Control way	Push-and-pull flexible shaft, electrically
Rated thrust	90KN
Center distance	290mm
Flywheel	SAE 18 16
Bell housing	SAE 0
Weight /Size	900kg 898 × 1104 × 1066



HCQH700 Marine Gearbox Input Speed Range (r/min) :1000~2500			
Reduction Ratio	1.30 1.51 1.75 2.00 2.25 2.50	2.78	2.96
Transmission capacity kw/rpm	0.554	0.514	0.49
Control way	Push-and-pull flexible shaft, electrically		
Rated thrust	90KN		
Center distance	290mm		
Flywheel	SAE 18 16		
Bell housing	SAE 0		
Weight /Size	900kg 1014 × 895 × 1100		



HCQ701 Marine Gearbox Input Speed Range (r/min) :1000~2500			
Reduction Ratio	2.90	3.48	3.62
Transmission capacity kw/rpm	0.554	0.514	0.49
Control way	Push-and-pull flexible shaft, electrically		
Rated thrust	95KN		
Center distance	340mm		
Flywheel	SAE 18		
Bell housing	SAE 0		
Weight /Size	868 × 1104 × 1146		



HCA700 Marine 8 °Down Angle Gearbox Input Speed Range (r/min) :1000~2500			
Reduction Ratio	1.51 1.97 2.50	2.73	2.92
Transmission capacity kw/rpm	0.554	0.514	0.49
Control way	Push-and-pull flexible shaft, electrically,pneumatically		
Rated thrust	90KN		
Center distance			
Flywheel	SAE 18		
Bell housing	SAE 0		
Weight /Size	835 × 1104 × 1156		



HCA701 Marine 5° Down Angle Gearbox Input Speed Range (r/min) :1000~2500

Reduction Ratio	0.77	
Transmission capacity kw/rpm	0.554	
Control way	Push-and-pull flexible shaft, electrically,pneumatically	
Rated thrust	27.5KN	
Center distance		
Flywheel	SAE 18	
Bell housing	SAE 0	
Weight /Size	939 × 1130 × 1035	



HCQ1000 Marine Gearbox Input Speed Range (r/min) :1000~2300

Reduction Ratio	1.18	2.84
Transmission capacity kw/rpm	0.735	0.65
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	100KN	
Center distance	310MM	
Flywheel	SAE 18 16	
Bell housing	SAE 0	
Weight /Size	994 × 1104 × 985 1100KG	

HCA1000 Marine 10° Down Angle Gearbox Input Speed Range (r/min) :1000~2300

Reduction Ratio	2.96:1	
Transmission capacity kw/rpm	0.6	
Control way	Push-and-pull flexible shaft, electrically,pneumatically	
Rated thrust	100KN	
Center distance		
Flywheel		
Bell housing		
Weight /Size	1030 × 1104 × 1050	

HCQH1000 Marine Gearbox Input Speed Range (r/min) :1000~2300	
Reduction Ratio	2.26
Transmission capacity kw/rpm	0.735
Control way	Push-and-pull flexible shaft, electrically,pneumatically
Rated thrust	100KN
Center distance	
Flywheel	
Bell housing	
Weight /Size	



HCQH1001 Marine Gearbox Input Speed Range (r/min) :1000~2300	
Reduction Ratio	2.26
Transmission capacity kw/rpm	0.735
Control way	Push-and-pull flexible shaft, electrically
Rated thrust	100KN
Center distance	335
Flywheel	
Bell housing	
Weight /Size	

HCQH1400 Marine Gearbox Input Speed Range (r/min) :1000~2100		
Reduction Ratio	1.52 2.00 2.48	3.00
Transmission capacity kw/rpm	1.03	0.90
Control way	Push-and-pull flexible shaft, electrically	
Rated thrust	110KN	
Center distance	340	
Flywheel		
Bell housing		
Weight /Size	938 × 1210 × 1027 1430KG	

HCA14007 °Down Angle Marine Gearbox Input Speed Range (r/min) :1600~2100	
Reduction Ratio	2.93
Transmission capacity kw/rpm	0.88
Control way	Push-and-pull flexible shaft, electrically
Rated thrust	110KN
Center distance	0
Flywheel	
Bell housing	
Weight /Size	826 × 1300 × 1250

GW-series marine gearbox is developed with the introduced technology from LOHMANN Company (German), including GWC, GWD, GWS, GWH, GWL and GWK six series.

The transmission capacity covers the range from 0.29 kW/r/min to 35.429 kW/r/min.

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Net Weight (kg)
GWC28.30 GWL28.30	400-900	2.06	0.865	80	1230 1070
	400-1100	2.51	0.711		
	400-1350	3.08	0.578		
	400-1570	3.54	0.504		
	400-1800	4.05	0.44		
	400-2000	4.54	0.393		
	400-2000	5.09	0.35		
	400-2000	5.59	0.319		
	400-2000	6.14	0.29		
GWC30.32 GWL30.32	400-900	2.03	1.122	100	1460 1240
	400-1150	2.55	0.894		
	400-1350	3.04	0.75		
	400-1580	3.52	0.647		
	400-1800	4.00	0.570		
	400-2000	4.55	0.501		
	400-2000	5.05	0.451		
	400-2000	5.64	0.404		
	400-2000	6.05	0.376		
GWC32.35 GWL32.35	400-900	2.06	1.4175	120	2250 2000
	400-1150	2.54	1.1481		
	400-1350	3.02	0.9659		
	400-1580	3.58	0.8160		
	400-1800	4.05	0.72		
	400-2000	4.59	0.6353		
	400-2000	5.09	0.5733		
	400-2000	5.57	0.5236		
	400-2000	6.08	0.48		
GWC36.39 GWL36.39	400-900	1.97	1.92	140	3000 2500
	400-1150	2.45	1.546		
	400-1350	2.98	1.272		
	400-1580	3.47	1.09		
	400-1800	3.95	0.96		
	400-1900	4.40	0.862		
	400-1900	5.01	0.756		
	400-1900	5.47	0.693		
	400-1900	5.97	0.634		

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Net Weight (kg)
GWC39.41 GWL39.41	400-800	1.98	2.585	175	3250 2820
	400-1000	2.47	2.068		
	400-1200	3.05	1.672		
	400-1400	3.48	1.467		
	400-1600	4.05	1.260		
	400-1700	4.48	1.138		
	400-1700	5.00	1.022		
	400-1700	5.51	0.927		
	400-1700	5.99	0.852		
GWC39.41 Q	400-800	1.98	2.125	175	2800
	400-1000	2.47	1.868		
	400-1200	3.05	1.551		
	400-1400	3.48	1.338		
	400-1600	4.05	1.169		
	400-1600	4.48	1.037		
	400-1600	5.00	0.919		
	400-1600	5.51	0.831		
	400-1600	5.99	0.757		
GWC42.45 GWL42.45	400-800	2.00	3.28	220	3980 3470
	400-1000	2.55	2.577		
	400-1200	3.02	2.169		
	400-1400	3.58	1.832		
	400-1600	4.00	1.64		
	400-1600	4.47	1.471		
	400-1600	5.00	1.312		
	400-1600	5.60	1.171		
	400-1600	5.93	1.106		
GWC42.45 Q	400-800	2.00	2.755	220	3500
	400-1000	2.55	2.348		
	400-1200	3.02	2.081		
	400-1400	3.58	1.757		
	400-1600	4.00	1.573		
	400-1600	4.47	1.397		
	400-1600	5.00	1.243		
	400-1600	5.60	1.103		
	400-1600	5.93	1.044		
GWC45.49 GWL45.49	400-700	1.97	4.240	270	5280 4600
	400-875	2.47	3.392		
	400-1030	2.89	2.890		
	400-1230	3.47	2.414		
	400-1400	3.95	2.120		
	400-1550	4.37	1.913		
	400-1600	4.85	1.725		
	400-1600	5.50	1.520		
	400-1600	5.98	1.398		

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Net Weight (kg)
GWC49.54 GWL49.54	400-600	1.94	5.500	290	7900 7000
	400-750	2.46	4.540		
	400-900	2.92	3.827		
	400-1050	3.45	3.240		
	400-1200	3.95	2.825		
	400-1350	4.53	2.462		
	400-1400	4.91	2.273		
	400-1400	5.48	2.036		
	400-1400	6.00	1.861		
GWC52.59 GWL52.59	400-600	1.93	7.438	300 (with sliding bearing360)	9800 7780
	400-750	2.48	5.797		
	400-900	2.96	4.853		
	400-1050	3.53	4.081		
	400-1200	3.95	3.640		
	400-1200	4.43	3.246		
	400-1200	4.97	2.893		
	400-1200	5.40	2.663		
	400-1200	5.93	2.426		
GWC52.62 GWL52.62	400-565	2.02	7.756	300 (with sliding bearing360)	10700 9300
	400-690	2.46	6.353		
	400-845	3.02	5.180		
	400-960	3.4	4.534		
	400-1135	4.06	3.852		
	400-1200	4.52	3.650		
	400-1200	5.04	3.102		
	400-1200	5.46	2.867		
	400-1200	5.96	2.631		
GWC60.66 GWL60.66	400-600	2.01	9.913	450 (with sliding bearing540)	15000 13290
	400-750	2.50	7.982		
	400-900	3.07	6.492		
	400-1050	3.57	5.581		
	400-1200	4.05	4.923		
	400-1200	4.48	4.448		
	400-1200	5.08	3.927		
	400-1200	5.51	3.622		
	400-1200	6.12	3.261		
GWC60.74 GWL60.74	400-530	1.99	11.409	550	18000 16500
	400-670	2.53	8.995		
	400-815	3.06	7.434		
	400-935	3.51	6.474		
	400-1070	4.02	5.651		
	400-1200	4.50	5.050		
	400-1200	5.04	4.512		
	400-1200	5.51	4.122		
	400-1200	6.04	3.762		
	400-1200	6.50	3.496		
	400-1200	6.94	3.273		

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Net Weight (kg)
GWC63.71	300-500	2.01	12.23	710	19000
	300-625	2.51	9.8		
	300-750	3.03	8.117		
	300-875	3.45	7.135		
	300-1000	4.11	6		
	300-1000	4.55	5.411		
	300-1000	5.04	4.888		
	300-1000	5.47	4.5		
	300-1000	6.95	4.137		
	300-1200	6.48	3.8		
	300-1200	6.96	3.541		
	300-1200	7.48	3.294		
GWC66.75 GWL66.75	300-490	2.05	13.866	730	22000 19000
	300-615	2.55	11.148		
	300-715	2.99	9.529		
	300-835	3.48	8.173		
	300-950	3.95	7.200		
	300-950	4.49	6.342		
	300-950	4.97	5.727		
	300-950	5.51	5.165		
	300-950	6.12	4.650		
GWC70.76 GWL70.76	300-465	2.05	15.643	750	25000 22500
	300-575	2.53	12.673		
	300-705	3.09	10.364		
	300-815	3.58	8.943		
	300-900	3.95	8.111		
	300-950	4.57	7.005		
	300-950	5.05	6.348		
	300-950	5.58	5.745		
	300-950	6.17	5.191		
GWC70.85 GWL70.85	300-425	1.98	19.2	800	30000 28000
	300-530	2.45	15.484		
	300-645	3.01	12.617		
	300-750	3.49	10.863		
	300-850	3.95	9.6		
	300-950	4.47	8.484		
	300-950	5.05	7.513		
	300-950	5.58	6.8		
	300-950	6.05	6.269		
GWC75.90 GWL75.90	200-465	2.01	22.423	980	34000 31500
	200-580	2.51	17.966		
	200-695	3.01	15.00		
	200-815	3.51	12.833		
	200-925	4.00	11.282		
	200-950	4.43	10.175		
	200-950	5.04	8.953		
	200-950	5.47	8.25		
	200-950	6.02	7.489		

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Net Weight (kg)
GWC78.88 GWL78.88	300-335 300-410 300-490 300-570 300-650 300-730 300-820 300-900 300-950	2.04 2.49 2.98 3.48 3.95 4.49 5.01 5.47 6.09	23.372 19.099 15.983 13.708 12.063 10.615 9.511 8.712 7.839	1000	35000 32000
GWC80.95 GWL80.95	200-350 200-440 200-520 200-610 200-700 200-800 200-800 200-800 200-800	1.98 2.49 2.94 3.46 3.95 4.51 5.03 5.48 5.93	28 22.2 18.81 16 14 12.25 11 10.09 9.33	1200	40000 37000
GWC85.100 GWL85.100	150-270 200-340 200-410 200-480 200-560 200-635 200-700 200-780 200-845 200-910 200-1000	1.98 2.55 2.98 3.48 3.95 4.48 4.97 5.51 5.99 6.45 7.05	35.429 27.429 23.445 20.108 17.714 15.605 14.091 12.708 11.684 10.845 9.920	1400	46000 42000
GWS28.30 GWK28.30 GWH28.30 GWD28.30	400-1800	2.00 2.56 3.00 3.57 4.05	0.44	80	1230 1130 1230 1230
GWS30.32 GWK30.32 GWH30.32 GWD30.32	400-1800	1.97 2.52 2.96 3.52 4.00	0.570	100	1460 1300 1350 1350
GWS32.35 GWK32.35 GWH32.35 GWD32.35	400-1800	2.00 2.56 3.00 3.57 4.05	0.72	120	2250 2080 2080 2080
GWS36.39 GWK36.39 GWH36.39 GWD36.39	400-1800	2.03 2.48 2.92 3.48 3.95	0.96	140	2450 2250 2450 2450

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Net Weight (kg)
GWS39.41 GWK39.41 GWH39.41 GWD39.41	400-1600	2.00 2.54 2.96 3.50 3.95	1.292	175	3230 2960 2960 2960
GWS42.45 GWK42.45 GWH42.45 GWD42.45	400-1600	1.97 2.55 2.93 3.58 4.00	1.6400	220	3960 3630 3960 3960
GWS42.45 Q	400-1600	1.97 2.55 2.93 3.58 4.00	1.573	220	3600
GWS45.49 GWK45.49 GWH45.49 GWD45.49	400-1400	2.03 2.48 3.09 3.48 3.95	2.12	270	5280 4840 4840 4840
GWS49.54 GWK49.54 GWH49.54 GWD49.54	400-1200	1.97 2.47 3.00 3.52 3.95	2.825	290	7900 7300 7300 7300
GWS52.59 GWK52.59 GWH52.59 GWD52.59	400-1200	1.97 2.47 3.00 3.52 3.95	3.64	300 (with sliding bearing360)	9800 8120 9800 9800
GWS60.66 GWK60.66 GWH60.66 GWD60.66	400-1200	2.00 2.54 2.96 3.50 3.95	5.05	450 (with sliding bearing540)	15000 14000 14000 14000
GWS66.75 GWK66.75 GWH66.75 GWD66.75	300-950	1.97 2.47 3.00 3.52 3.95	7.200	730	17500 16500 16500 16500
GWS70.76 GWK70.76 GWH70.76 GWD70.76	300-900	1.94 2.54 3.00 3.50 3.95	8.111	750	20000 19000 19000 19000

Marine Two - speed Gearboxes Series

This series of products is mainly used for trawlers, tugboats, landing ships, etc. The forward gear of the marine two-speed gearbox has a two-speed reduction ratio. The propeller obtains different torques through the gearbox's forward fast and slow gear shifting, thereby achieving a balance between the ship, the engine, and the propeller, and improving the operating economy of the diesel engine. The ship equipped with a two-speed ratio gearbox can save about 6%-10% of fuel consumption throughout the year.

Model	Input Speed (r/min)	Slow gear, reverse speed reduction ratio (i1)	Fast gear speed reduction ratio(i2)	Trans.Capacity (kW/r·min-1)	Rated thrust (kN)
HCS138	1000-2500	2 2.52 3 3.57 4.05 4.45	1.60 1.64 1.73 1.78 1.83 2.00 2.06 2.19 2.27 2.34 2.40,2.48,2.57,2.67,2.77 2.88,3.00,3.13,3.26 3.21,3.35,3.50,3.67 3.56,3.71,3.87,4.05	0.110	30
HCS201	1000-2500	2.48 2.95 3.53	2.00,2.07,2.14,2.21,2.30 2.32,2.41,2.50,2.60,2.71 2.79,2.91,3.05,3.19	0.147 0.132	40
HCS302	750-2500	2 2.54 3 3.59 4.1 4.43	1.62,1.66,1.74,1.79,1.84 2.06,2.13,2.20,2.28,2.36 2.38,2.46,2.56,2.65,2.76 2.82,3.04,3.16,3.29 3.28,3.42,3.57,3.73 3.58,3.72,3.88,4.04	0.257 0.243 0.217 0.184	50
HCDS302	1000-2500	4.00 4.48 5.05 5.52 5.90 6.56 7.06 7.63	3.17,3.29,3.41,3.54,3.68 3.62,3.76,3.92,4.09 4.00,4.17,4.36,4.57 4.46,4.64,4.83,5.04 4.72,4.92,5.13,5.36 5.13,5.36,5.62,5.90 5.71,6.00,6.32 6.10,6.42,6.78	0.257 0.221 0.20 0.184 0.147 0.13	60
HCS400	1000-1800	1.50 2.04 2.50 3.00 3.42 4.06	1.21,1.24,1.31,1.34,1.38 1.63,1.68,1.78,1.84, 1.90 2.00,2.07,2.14,2.22,2.31 2.42,2.52,2.63,2.74 2.71,2.83,2.95,3.10 3.17,3.31,3.48,3.65	0.331 0.279	82
HCDS400	1000-1800	3.96 4.43 5 5.53 5.89	3.14,3.25,3.37,3.50,3.64 3.58, 3.72,3.88,4.04 3.96,4.13,4.32,4.52 4.38,4.57,4.77,5.00 4.61,4.82,5.05,5.30	0.331 0.293 0.272	82
HCS600	1000-2100	2 2.48 3 3.58 3.89	1.61,1.66,1.71,1.76,1.81 2.00,2.07,2.14,2.21,2.30 2.36,2.44,2.54,2.64,2.75 2.83,2.96,3.09,3.24 3.04,3.18,3.33,3.50	0.48 0.44 0.40	90
HCDS600	1000-2100	4.18 4.43 5 5.44 5.71	3.29,3.41,3.54,3.68,3.83 3.58,3.72,3.88,4.04 3.96,4.13,4.32,4.52 4.26,4.45,4.67, 4.90 4.62,4.85,5.11	0.48 0.46 0.44 0.40	
HCDS800	600-1800	3.96 4.39 4.90 5.47 5.89	3.19,3.30,3.41,3.54,3.67 3.48,3.61,3.74,3.88,4.04 3.96,4.12,4.29,4.48 4.33,4.52,4.73,4.95 4.61,4.82,5.05,5.30	0.625 0.588 0.551 0.515	110

Model	Input Spe ed (r/ mi n)	Slow gear, reverse speed reductio n ratio (i1)	Fast gear speed reduction ratio(i2)	Trans.Capacity (kW/r·min-1)	Rated thrust (kN)
HCTS800	600-1800	4.95 5.57 5.68 5.93 6.43	3.90,4.15,4.29,4.43,4.59 4.46,4.61,4.78,4.95,5.14 4.54,4.70,4.87,5.05, 5.24 4.70,4.87,5.05,5.24, 5.45 5.05,5.24,5.44,5.66,5.89	0.625	140
		6.86	5.33,5.54,5.76,6.00,6.26	0.588	
		7.33	5.86,6.11,6.37,6.66	0.551	
		7.84	6.27,6.53,6.82,7.13	0.515	
		8.40	6.72,7.00,7.30,7.64	0.480	
HCS1000	600-1900	2 2.50 3.04 3.48	1.59,1.68,1.72,1.77,1.82 2.03,2.10,2.17,2.24,2.32 2.41,2.50,2.59,2.69,2.80 2.81,2.92,3.04,3.17	0.735	110
		4.06	3.17,3.32,3.48,3.65	0.65	
HCS1200	600-1900	2.03 2.50 2.96 3.55	1.61,1.69,1.74,1.79,1.85 2.03,2.10,2.17,2.24,2.32 2.34,2.43,2.52,2.62,2.72 2.84,2.96,3.09,3.23	0.93	120
		4.06	3.17,3.32,3.48,3.65	0.80	
		4.47	3.54,3.70,3.86,4.05	0.650	
HCDS1200	600-1900	3.95 4.45	3.11,3.22,3.35,3.48,3.63 3.56,3.71,3.87,4.05	0.93	140
		5.00	3.91,4.09,4.29,4.50	0.833	
		5.58	4.42,4.61,4.82,5.05	0.65	
HCTS1200	700-1800	5.05 5.60 5.98 6.39 6.85 7.35 7.90	4.07, 4.21,4.35,4.51,4.67 4.44,4.60,4.77,4.96,5.15 4.70,4.87,5.06,5.26,5.48 5.84,5.59,5.37,5.16, 4.97 6.22,5.95,5.70,5.48 6.65,6.34,6.07,5.82 7.11,6.77, 6.47,6.19	0.93	150
HCDS1400	600-1800	4.04 4.52 5.05 5.50	3.21,3.32,3.44,3.58,3.72 3.65,3.80,3.96,4.13 4.11,4.27,4.44,4.63 4.30, 4.50,4.71,4.95	1.03	175
		5.86	4.56,4.73,4.92,5.13, 5.35	0.778	
HCTS1400	600-1800	4.06 4.51 5.03 5.52 5.97 6.48 7.03 7.50 8.01	3.25,3.33,3.51,3.61, 3.71 3.56,3.76,3.87,3.98,4.10 4.02,4.14, 4.27,4.40,4.54 4.49,4.63,4.79,4.95, 5.13 4.81,4.97,5.14,5.33, 5.52 5.14,5.33,5.52,5.74, 5.97 5.73,5.95,6.19, 6.44 6.05,6.30,6.56,6.84 6.41,6.67,6.96, 7.28	1.03	220
		8.47	6.71,6.95,7.21,7.49, 7.79	1.00	
		8.98	7.06,7.32,7.60,7.91, 8.24	0.93	
		9.55	7.72,8.02,8.36, 8.72	0.85	

Model	Input Speed (r/min)	Slow gear, reverse speed reduction ratio (i1)	Fast gear speed reduction ratio(i2)	Trans.Capacity (kW/r·min-1)	Rated thrust (kN)
HCS1600	500-1650	2.03 2.54 3.00 3.50 4.00	1.63,1.68,1.76,1.81,1.86 2.03,2.09,2.22,2.29,2.37 2.42,2.50,2.59,2.68,2.78 2.75,2.85,2.96,3.08,3.21 3.20,3.33,3.48,3.64	1.213	170
HCDS1600	500-1650	2.97 3.50 3.96 4.48 4.95	2.36,2.49,2.56,2.63,2.71 2.80,2.88,3.06,3.16,3.27 3.19,3.30,3.41,3.54,3.67 3.55,3.68,3.81,3.96,4.12 4.00,4.16,4.33,4.52	1.213	200
		5.25	4.20,4.38,4.57,4.77	1.164	
HCTS1600	500-1650	5.55 5.97 6.59 6.99 7.44 7.92	4.40, 4.68,4.83,4.99,5.16 4.71,5.01,5.18,5.35, 5.55 5.27,5.45,5.64,5.85,6.08 5.55,5.74,5.96,6.19,6.43 5.84,6.06,6.29,6.54,6.82 6.16,6.40,6.65,6.93,7.23	1.213	250
		8.46 9.00	6.77,7.05,7.35,7.69 7.20,7.50,7.83,8.19	1.104	
		9.53	7.49,7.76,8.06,8.38,8.73	0.93	
HCS2000	600-1500	2.28 2.52 3.13 3.52	1.83,1.89,1.94,2.00,2.06 2.00,2.13,2.19,2.27,2.35 2.48,2.57,2.67,2.77,2.88 2.85,2.96,3.08,3.22	1.48	190
		3.91	3.07,3.19,3.31,3.44,3.58	1.42	
		4.40	3.52,3.67,3.83,4.00	1.26	
HCDS2000	600-1500	3.00 3.58 3.96 4.45 4.95	2.43,2.50,2.57,2.65,2.73 2.82,2.91,3.10,3.21 3.17,3.28,3.39,3.52,3.65 3.50,3.63,3.77,3.92,4.08 3.96,4.13,4.30,4.50	1.48	220
		5.26	4.17,4.35,4.55,4.76	1.42	
		5.43	4.38,4.56,4.75,4.96	1.34	
		5.75	4.60,4.79,5.00,5.23	1.23	
		6.05	4.79,5.00,5.23,5.48	1.19	
HCTS2000	600-1500	5.19 5.49 5.94 6.58 7.01 7.48 8.00	4.12,4.38,4.52,4.67,4.83 4.33,4.61,4.76,4.93,5.10 4.79,4.95,5.12,5.31,5.50 5.22,5.41,5.61,5.82,6.06 5.51,5.71,5.93,6.17,6.43 6.04, 6.29, 6.55, 6.83 6.40, 6.67, 6.96, 7.27	1.48	270
		8.57	6.79, 7.08, 7.40, 7.76	1.42	
		8.84	6.88, 7.14, 7.43, 7.74, 8.07	1.34	
		9.43	7.54, 7.86, 8.20, 8.57	1.23	
		10.04	8.03, 8.37, 8.73, 9.13	1.21	
		11	8.80, 9.17, 9.57, 10.00	1	

Model	Input Speed (r/min)	Slow gear, reverse speed reduction ratio (i1)	Fast gear speed reduction ratio(i2)	Trans.Capacity (kW/r·min-1)	Rated thrust (kN)
HCS2700	500-1400	1.54 2.03 2.58 3.09 3.48	1.24,1.27,1.33,1.36,1.43 1.62,1.70,1.75,1.80,1.85 2.09,2.16,2.23,2.31,2.39 2.45,2.54,2.63,2.73,2.84 2.81,2.92,3.04,3.17	2.05	270
		3.95	3.19,3.32,3.46,3.61	1.96	
		4.47	3.54,3.70,3.86,4.05	1.75	
HCDS2700	500-1400	3.65 4.04 4.50 5.05	2.97,3.06,3.17,3.28,3.39 3.23,3.34,3.46,3.59,3.73 3.54,3.67,3.81,3.96,4.13 4.04,4.21,4.39,4.59	2.05	280
		5.48	4.42,4.60,4.79,5.00	1.96	
		6.11	4.83,5.04,5.27,5.52	1.7	
HCTS2700	500-1400	4.92 5.43 6.16 6.58 7.03 7.53 8.01	3.91,4.03,4.29,4.43,4.58 4.38,4.53,4.68,4.85,5.03 4.89,5.06,5.25,5.45,5.67 5.17,5.36,5.56,5.79,6.03 5.68,5.90,6.15,6.42 6.02,6.27,6.55,6.84 6.29,6.53,6.78,7.05,7.34	2.05	340
		8.54	6.90,7.17,7.47,7.79	1.92	
		9.12	7.29,7.60,7.93,8.29	1.83	
		9.42	7.61,7.91,8.24,8.60	1.76	
		10.05	8.04,8.37,8.74,9.13	1.54	
SGWS49.54	400-1200	1.97 2.47 3.00 3.52 3.95	1.57,1.64,1.73,1.77,1.82 1.95,2.06,2.11,2.18,2.24 2.44,2.52,2.60,2.69,2.79 2.79,2.89,3.00,3.12,3.24 3.19,3.32,3.46,3.61	2.647	290
SGWS52.59	400-1200	1.97 2.47 3.00 3.52 3.95	1.57,1.64,1.73,1.77,1.82 1.95,2.06,2.11,2.18,2.24 2.44,2.52,2.60,2.69,2.79 2.79,2.89,3.00,3.12,3.24 3.19,3.32,3.46,3.61	3.448	360
SGWS60.66	400-1200	2.00 2.54 2.96 3.50 3.95	1.61,1.65,1.74,1.78,1.83 2.03,2.08,2.22,2.29,2.37 2.39,2.47,2.55,2.64,2.74 2.75,2.85,2.96,3.08,3.21 3.16,3.29,3.43,3.59	4.625	540
SGWS66.75	300-950	1.97 2.47	1.57,1.64,1.73,1.77,1.82 1.95,2.06,2.11,2.18,2.24	6.99	730
SGWS66.75	300-950	3.00 3.52 3.95	2.44,2.52,2.60,2.69,2.79 2.79,2.89,3.00,3.12,3.24 3.19,3.32,3.46,3.61	6.99	730
SGWS70.76	300-950	1.94 2.54 3.00 3.50 3.95	1.57,1.61,1.69,1.73,1.78 2.03,2.08,2.22,2.29,2.37 2.42,2.50,2.59,2.68,2.78 2.75,2.85,2.96,3.08,3.21 3.16,3.29,3.43,3.59	8.111	750

Model	Input Speed (r/min)	Slow gear, reverse speed reduction ratio (i1)	Fast gear speed reduction ratio (i2)	Trans.Capacity (kW/r·min-1)	Rated thrust (kN)
SGWC3032	400-870	2.33	1.94	1.109(forward) 0.921(reverse)	100
	400-1300	3.52	2.91	0.738(forward) 0.610(reverse)	
SGWC3235	400-760	1.92	1.62	1.604(forward) 1.347(reverse)	113
	400-850	2.17	1.81	1.434(forward) 1.192(reverse)	
SGWC4245	400-1600	5.60	5.00	1.243(forward) 1.103(reverse)	220
SGWC4954	400-880	3.39	2.92	3.588(forward) 3.088(reverse)	284

Note: Due to technical improvements of the products, changes may be made without prior notice.

- ◆ Users are requested to refer to the model selection manual for model selection. The gearbox gear ratio can be specially designed according to the actual operating conditions required by the demander.
- ◆ The dual-speed marine gearbox is specially customized according to the user's needs. A technical agreement must be signed before placing an order.
- ◆ Transmission capacity P/n (kW/r/min): the rated power P of the main engine / the rated speed n of the main engine. When selecting, it should be less than the value in the model selection table.
- ◆ HCS: Forward fast, forward slow: two-stage reduction, with the same operating direction; Reverse: one-stage reduction, with the opposite operating direction; The input and output are vertically off-center.
- HCDS: Forward fast, forward slow: two-stage reduction, with the same operating direction; Reverse: one-stage reduction, with the opposite operating direction; The input and output are vertically off-center.
- HCTS: Forward fast, forward slow: three-stage reduction, with the opposite operating direction; Reverse: two-stage reduction, with the same operating direction; The input and output are vertically off-center.
- SGWC: Forward fast, forward slow: two-stage reduction, with the same operating direction; Reverse: one-stage reduction, with the opposite operating direction; The input and output are concentric.
- SGWS: Forward fast, forward slow: two-stage reduction, with the same operating direction; Reverse: three-stage reduction, with the opposite operating direction; The input and output are vertically off-center.
- SGWH: Forward fast, forward slow: two-stage reduction, with the same operating direction; Reverse: three-stage reduction, with the opposite operating direction; The input and output are horizontally off-center.
- SGWD: Forward fast, forward slow: two-stage reduction, with the same operating direction; Reverse: three-stage reduction, with the opposite operating direction; The input and output are angularly off-center.
- ◆ Functions of the marine dual-speed gearbox product: It has the functions of forward fast, forward slow, reverse, clutch, reduction, and bearing the thrust of the propeller. It is matched with the main engine to form a marine power unit.
- ◆ Control mode: Push-pull flexible shaft, electric control or pneumatic control.
- ◆ The medium and small power gearbox is equipped with a connecting housing, and a suitable high elastic coupling needs to be ordered for the high power gearbox.
- ◆ The gearbox and the engine shafting are not allowed to be rigidly connected. It is recommended that the brackets be installed on the same rigid support. If the engine is installed on an elastic support and the gearbox is installed on a rigid support, the company's technical department should be contacted to select a suitable high elastic coupling.

GC series (with variable pitch propeller) marine gearbox

This series of products applies the advanced technology of the GW series gearbox. It is suitable for the controllable pitch propeller (CPP) propulsion system and has the functions of clutch and reduction. The front end of the output shaft can be equipped with a CPP oil distribution seat. The PTO (Power Take-off) output shaft can be equipped with a clutch function or without a clutch function according to the needs, and can be specially designed according to the customer's requirements.

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min- 1)	Rated Thrust (kN)	Center distance (mm)
GCS320 GCH320	400-1800	1.97 2.52 2.96 3.52 4.00	0.57	100	320
GCST5 GCHT5	400-1800	4.50 5.00 5.55 5.95	0.57	120	445
GCSE5 GCHE5	400-1800	6.50-8.00	0.57	170	570
GCS350 GCH350	400-1800	2.00 2.56 3.00 3.57 4.05	0.72	113	350
GCST6 GCHT6	400-1800	4.50 5.00 5.55 5.95	0.72	170	480
GCSE6 GCHE6	400-1800	6.50-8.00	0.72	200	615
GCS390 GCH390	400-1800	2.03 2.48 2.92 3.48 3.95	0.96	140	390
GCST9 GCHT9	400-1800	4.50 5.00 5.55 5.95	0.96	220	545
GCSE9 GCHE9	400-1800	6.50-8.00	0.96	270	700

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Center distance (mm)
GCS410 GCH410	400-1600	2.00 2.54 2.96 3.50 3.95	1.292	175	410
GCST11 GCHT11	400-1600	4.52 5.04 5.52 5.95	1.292	220	570
GCSE11 GCHE11	400-1600	名义 6.50-8.00	1.292	270	735
GCS450	400-1600	1.97 2.55 2.93 3.58 4.00	1.64	220	455
GCST15 GCHT15	400-1600	4.46 5.08 5.46 5.96	1.64	270	630
GCSE15 GCHE15	400-1600	名义 6.50-8.00	1.64	300	810
GCS490 GCH490	400-1400	2.03 2.48 3.09 3.48 3.95	2.12	270	490
GCST20 GCHT20	400-1400	4.50 5.00 5.55 5.95	2.12	300	680
GCSE20 GCHE20	400-1400	名义 6.50-8.00	2.12	350	875
GCS540 GCH540	400-1200	1.97 2.47 3.00 3.52 3.95	2.825	290	540
GCST26 GCHT26	400-1200	4.58 5.04 5.59 5.95	2.825	360	750

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Center distance (mm)
GCSE26 GCHE26	400-1200	名义 6.50-8.00	2.825	450	960
GCS590 GCH590	400-1200	1.97 2.47 3.00 3.52 3.95	3.64	360	590
GCST33 GCHT33	400-1200	4.54 5.04 5.60 5.95	3.64	540	820
GCSE33 GCHE33	400-1200	名义 6.50-8.00	3.64	550	1055
GCS660 GCH660	400-1200	2.00 2.54 2.96 3.50 3.95	5.05	540	668
GCST44 GCHT44	400-1200	4.52 5.00 5.57 5.96	5.05	600	924
GCSE44 GCHE44	400-1200	名义 6.50-8.00	5.05	700	1185
GCS700B	400-1200	2.00 2.55 3.00 3.52	4.744	450	700
		4.00	4.623		
		4.47	4.183		
GCS750 GCH750	300-950	1.97 2.47 3.00 3.52 3.95	7.2	730	750

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Center distance (mm)
GCST66 GCHT66	300-900	4.48 4.96 5.43 6.00	7.2	1000	1064
GCS760 GCH760	300-900	1.94 2.54 3.00 3.50 3.95	8.111	750	768
GCST77 GCHT77	300-900	4.50 5.00 5.50 6.00	8.111	1000	1100
GCS850 GCH850	300-800	1.97 2.47 3.00 3.52 3.95	9.6	800	855
GCST91 GCHT91	300-800	4.50 5.00 5.50 6.00	9.6	1000	1190
GCS900 GCH900	200-800	2.00 2.52 3.08 3.43 4.10	11.282	980	900
GCST108 GCHT108	200-800	4.50 5.00 5.50 6.00	11.282	1400	1230
GCS880 GCH880	200-650	2.00 2.5357 2.960 3.50 3.95	12.063	1000	880
GCST115 GCHT115	200-650	4.50 5.00 5.50 6.00	12.063	1400	1260

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Center distance (mm)
GCS950 GCH950	200-650	2.00 2.54 2.96 3.50 3.95	14	1000	965
GCST135 GCHT135	200-650	4.50 5.00 5.50 6.00	14	1400	1350
GCS1000 GCH1000	200-650	2.00 2.54 2.96 3.50 3.95	17.714	1400	1018
GCST170 GCHT170	200-650	4.50 5.00 5.50 6.00	17.714	1400	1430

△GCS series, GCST series, GCSE series:

1-stage reduction, input and output are vertically eccentric, the running direction is opposite, with clutch reduction function, the output front end can be installed with the oil distributor required by CPP. The input end can be installed with auxiliary power output shaft (PTO) vertically or angularly upward.

△GCH series, GCHT series, GCHE series:

1-stage reduction, input and output are horizontally eccentric, the running direction is opposite, with clutch reduction function. The output front end can be installed with the oil distributor required by CPP. The input end can be installed with auxiliary power output shaft (PTO) vertically or angularly upward.

△The above products need to sign a technical agreement as an important supplement to the business contract.

* Operation control: pneumatic control or electric control.

2GWH Series (Twin-engine Parallel Operation) Marine Gearbox

This product is a transmission box developed based on the technology of the GW series gearbox and according to the needs of customers. It is suitable for the transmission with dual inputs from the main engines and single output. Its matching power range is 966-10000 kW, and the input speed range is 400-1800 rpm. It is suitable for ice area strengthening, including the working conditions of icebreakers with the highest ice area strengthening requirements. The front end of the output shaft can be equipped with an oil distribution seat of the CPP (Controllable Pitch Propeller). The PTO (Power Take-off) output can be equipped with a clutch function or without a clutch function according to the needs.

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Center distance (mm)
2GWH1060	400-900	2	1.12	175	1460
	400-1150	2.5	0.89		
	400-1350	3	0.75		
	400-1580	3.5	0.65		
	400-1800	4	0.57		
	400-2000	4.5	0.50		
	400-2000	5	0.45		
	400-2000	5.5	0.40		
	400-2000	6	0.38		
2GWH1830	400-900	2	1.92	270	1760
	400-1150	2.5	1.55		
	400-1350	3	1.27		
	400-1580	3.5	1.09		
	400-1800	4	0.96		
	400-1900	4.5	0.86		
	400-1900	5	0.76		
	400-1900	5.5	0.69		
	400-1900	6	0.63		
2GWH3140	400-800	2	3.28	300	2080
	400-1000	2.5	2.58		
	400-1200	3	2.17		
	400-1400	3.5	1.83		
	400-1600	4	1.64		
	400-1600	4.5	1.47		
	400-1600	5	1.31		
	400-1600	5.5	1.17		
	400-1600	6	1.11		
2GWH4100	400-700	2	4.24	450	2300
	400-875	2.5	3.39		
	400-1030	3	2.89		
	400-1230	3.5	2.41		
	400-1400	4	2.12		
	400-1600	4.5	1.91		
	400-1600	5	1.72		
	400-1600	5.5	1.52		
	400-1600	6	1.39		

Model	Input Speed (r/min)	Reduction Ratio (i)	Trans.Capacity (kW/r·min-1)	Rated Thrust (kN)	Net Weight (kg)
2GWH5410	400-600	2	5.77	550	2560
	400-750	2.5	4.54		
	400-900	3	3.83		
	400-1050	3.5	3.24		
	400-1200	4	2.83		
	400-1350	4.5	2.46		
	400-1400	5	2.27		
	400-1400	5.5	2.04		
	400-1400	6	1.86		
2GWH7050	400-600	2	7.43	750	2700
	400-750	2.5	5.79		
	400-900	3	4.85		
	400-1050	3.5	4.08		
	400-1200	4	3.64		
	400-1200	4.5	3.24		
	400-1200	5	2.89		
	400-1200	5.5	2.66		
	400-1200	6	2.42		
2GWH9250	400-600	2	9.91	1000	3080
	400-750	2.5	7.98		
	400-900	3	6.49		
	400-1050	3.5	5.58		
	400-1200	4	4.92		
	400-1200	4.5	4.44		
	400-1200	5	3.93		
	400-1200	5.5	3.62		
	400-1200	6	3.26		

Description:

- Generally, it is a two-stage reduction. The input and output are horizontally off-center, and the operating directions are the same. It has the functions of dual-input and single-output, as well as clutch and reduction.
 - An oil distributor required by the CPP can be installed at the front end of the output. Auxiliary power take-off shafts (PTO) can be installed on both sides in the upward direction of the output angle.
- Operation Control: Pneumatic control or electric control.
- Product Functions:
- It has the functions of transmitting torque, clutch, reduction, and bearing the thrust of the propeller.
 - Through dual-power input and single-power output, the power of two diesel engines with the same rotation direction is transmitted to the propeller.
 - An oil distribution seat of the CPP can be installed at the front end of the output shaft.
 - The PTO output can be equipped with a clutch function or without a clutch function according to the needs.
 - Clarify the ship classification requirements and provide the ship engineering number.
 - Clarify the installation method of the CPP oil distribution seat.

The HCL series hydraulic clutch

Model	Input Speed (r/min)	Transfer torque(kn/m)	Trans.Capacity (kW/r·min-1)	L × W × H(mm)	Net Weight (kg)
HCL30S	750-1500	0.3	0.031	345×310×455	100
HCL30F	1500-2500				
HCL100S	750-1500	1	0.105	570×420×535	156
HCL100F	1500-2500				
HCL250S	750-1000	2.5	0.262	554×425×635	210
HCL250F	1000-2500				
HCL320S	500-1000	3.2	0.335	554×425×635	210
HCL320F	1000-2500				
HCL600S	750-1000	6	0.628	746×560×688	450
HCL600F	1000-1600				
HCL800S	750-1000	8	0.837	746×560×688	450
HCL800F	1000-1800				
HCL1000S	750-1000	10	1.047	915×800×1005	800
HCL1000F	1000-1800				