

Medium Gearboxes

Power range: 10kW~3000kW

Ratio:1.5~20:1

Vessel type: transportation, fishing, work boats and etc.



06 MARINE GEARBOX MAX.12.5 HP at 2100RPM

Engine Speed: 1000~2100 RPM

Ratio	2.52	3.05	3.50
Rate(hp/rpm)	0.006		

L×W×H: 350×316×482 mm

Net weight: 58 kg

Options/Comments: Mechanical-joint clutch Bell Housing: No

Centre distance: 124 mm

Recommend engine: YANMAR TS130;TS155; HATZ E786 ...

Note: The "Rate" is based on rubber wheel coupling.

Rated propeller thrust: 1.8KN



16A MARINE GEARBOX MAX.33 HP at 2000RPM

Engine Speed: 1000~2000 RPM

Ratio	2.07	2.48	2.95	3.35	3.83
Rate(hp/rpm)	0.016				

L×W×H: 422×325×563 mm

Net weight: 84 kg

Options/Comments: Mechanical-joint clutch Bell Housing: No

Centre distance: 135 mm

Recommend engine: MWM D226-2; HATZ 3M31...

Note: The "Rate" is based on rubber wheel coupling.

Rated propeller thrust: 3.5KN



26 MARINE GEARBOX MAX.67.5 HP at 2500RPM

Engine Speed: 1500~2500 RPM

Ratio	2.48	2.95	3.35	3.83	4.47	5.05
Rate(hp/rpm)	0.027		0.026	0.024	0.02	0.016

L×W×H:473.5×365×830mm

Net weight:92kg

Options/Comments:Mechanical-joint clutch Bell Housing: No

Centre distance: 135 mm

Recommend engine: TD226B-3C...

Note: The "Rate" is based on rubber wheel coupling.

Rated propeller thrust: 5.0KN



MA100A MARINE GEARBOX MAX.37 HP at 3000RPM

Engine Speed: 1500~3000 RPM

Ratio	1.60	2.00	2.55	3.11	3.59	3.88
Rate(hp/rpm)	0.012		0.0095		0.0082	

L×W×H: 236×390×420 mm

Net weight: 75 kg

Bell housing:SAE 3,4,5

Flange:SAE 7.5, 10, 11.5

Options/Comments: PTO device available; Mechanical remote operation

Centre distance: 100 mm

Recommend engine: ISUZU UM02AB1; YAMAHA Me125...

Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%

Rated propeller thrust: 3.0KN



MA125A MARINE GEARBOX MAX.82 HP at 3000RPM

Engine Speed: 1500~3000 RPM

Ratio	2.03	2.46	3.04	3.57	4.05	4.39	4.70
Rate(hp/rpm)	0.027		0.024	0.022	0.019	0.0176	0.0149

L×W×H: 291×454×485mm Net weight: 115 kg
 Bell housing:SAE 2,3,4 Flange:SAE 10, 11.5
 Options/Comments: PTO device available; Mechanical remote operation
 Centre distance: 125 mm
 Recommend engine: ISUZU UM02AB1; YAMAHA Me125...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 5.5KN



MA142A MARINE GEARBOX MAX.102 HP at 2500RPM

Engine Speed: 1500~3000 RPM

Ratio	1.97	2.52	3.03	3.54	3.95	4.50	5.06	5.47
Rate(hp/rpm)	0.041		0.035	0.031	0.026	0.022	0.017	

L×W×H: 308×520×540mm Net weight: 140 kg
 Bell housing:SAE 2,3 Flange:SAE 10, 11.5
 Options/Comments: PTO device available; Mechanical remote operation
 Centre distance: 142 mm
 Recommend engine: CUMMINS 4B3.9-M;MWM D226-4...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 8.5KN

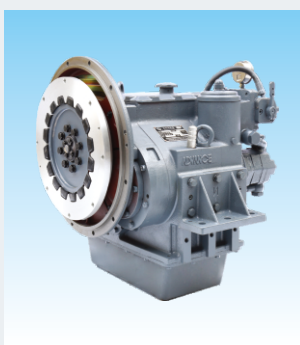


40A MARINE GEARBOX MAX.82 HP at 2000RPM

Engine Speed: 750~2000 RPM

Ratio	2.07	2.96	3.44
Rate(hp/rpm)	0.04		0.034

L×W×H: 490×670×620 mm Net weight: 225 kg
 Bell housing: SAE 2, 3 Flange: SAE 11.5
 Options/Comments: Mechanical remote operation
 Centre distance: 142 mm
 Recommend engine: YAMAHA ME400L;BAUDOUIN 4D106 ...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 8.8KN



MB170 MARINE GEARBOX MAX.132 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	1.97	2.52	3.04	3.54	3.96	4.50	5.06	5.47	5.88
Rate(hp/rpm)	0.053			0.042	0.037				

L×W×H: 485×610×656 mm Net weight: 240 kg
 Bell housing: SAE 1,2, 3 Flange: 10,11.5,14
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 170 mm
 Recommend engine: MWM D226-6; YAMAHA ME400L ...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 16KN



120B MARINE GEARBOX MAX.340 HP at 2500RPM

Engine Speed: 750~1800 RPM

Ratio	2.03	2.81	3.73
Rate(hp/rpm)	0.088		0.044

L×W×H: 605×744×770 mm Net weight: 400 kg
 Bell housing: SAE1 Flange: SAE14
 Options/Comments: Push-and-pull flexible shaft, electrically
 Centre distance: 190 mm
 Recommend engine: NT-855-M240;CAT3208TA ...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 25KN



120C MARINE GEARBOX MAX.158 HP at 1800RPM

Engine Speed: 1000~2500 RPM

Ratio	1.48	1.94	2.45	2.96	3.35
Rate(hp/rpm)	0.136			0.122	0.109

L×W×H: 352×694×650 mm Net weight: 225 kg
 Bell housing: SAE1, 2, 3 Flange: SAE11.5, 14
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 180 mm
 Recommend engine: NT-855-M240;CAT3208TA ...
 Note: The “Rate” is based on toothed rubber blocks coupling, if use high-flexible coupling, “Rate” will rise 8%
 Rated propeller thrust: 25KN



135A MARINE GEARBOX MAX.272 HP at 2000RPM

Engine Speed: 1000~2000 RPM

Ratio	2.03	2.59	3.04	3.62	4.11	4.65	5.06	5.47	5.81
Rate(hp/rpm)	0.134					0.125	0.118	0.103	0.094

L×W×H: 578×744×830 mm Net weight: 470 kg
 Bell housing: SAE 1 Flange: SAE 14
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 225 mm
 Recommend engine: NT-855-M240; CAT 3406 ...
 Note: The “Rate” is based on toothed rubber blocks coupling, if use high-flexible coupling, “Rate” will rise 8%
 Rated propeller thrust: 29.4KN

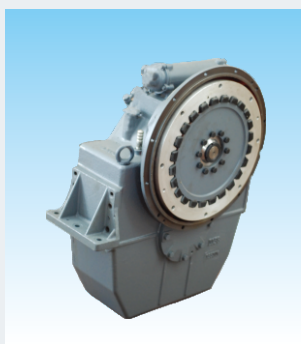


HC138 MARINE GEARBOX MAX.375 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	2.00	2.52	3.00	3.57	4.05	4.45
Rate(hp/rpm)	0.15					

L×W×H: 520×792×760 mm Net weight: 360 kg
 Bell housing: SAE 1 Flange: SAE 11.5,14
 Options/Comments: Pneumatic(recommended) or electrical remote control
 Centre distance: 225 mm
 Recommend engine: 6135Ca, NT-855-M240 ...
 Note: The “Rate” is based on toothed rubber blocks coupling, if use high-flexible coupling, “Rate” will rise 8%
 Rated propeller thrust: 30KN

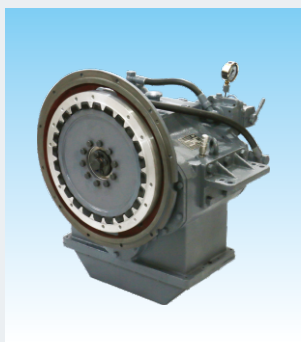


HCD138 MARINE GEARBOX MAX.375 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	5.05	5.63	6.06	6.47
Rate(hp/rpm)	0.15		0.135	0.126

L×W×H: 494×800×870 mm Net weight: 415 kg
 Bell housing: SAE 1 Flange: SAE 11.5,14
 Options/Comments: Pneumatic(recommended) or electrical remote control
 Centre distance: 296 mm
 Recommend engine: 6135Ca, NT-855-M240 ...
 Note: The “Rate” is based on toothed rubber blocks coupling, if use high-flexible coupling, “Rate” will rise 8%
 Rated propeller thrust: 39.3KN



MB242 MARINE GEARBOX MAX.350 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	2.00	2.54	3.04	3.52	3.95	4.53	5.12	5.56	5.88
Rate(hp/rpm)	0.140						0.136	0.128	0.100

L×W×H: 422×744×763 mm Net weight: 385 kg
 Bell housing: SAE 1, 2 Flange: 11.5, 14
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 242 mm
 Recommend engine: NT-855-M240; CAT 3406 ...
 Note: The “Rate” is based on toothed rubber blocks coupling, if use high-flexible coupling, “Rate” will rise 8%
 Rated propeller thrust: 30KN



MB270A MARINE GEARBOX MAX.500 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	4.05	4.53	5.12	5.50	5.95	6.39	6.82
Rate(hp/rpm)	0.20			0.182	0.150	0.120	

L×W×H: 594×810×868 mm

Net weight: 675 kg

Bell housing: SAE0, 1

Flange: SAE 14,16,18

Options/Comments: PTO device available; Mechanical or electrical remote control

Centre distance: 270 mm

Recommend engine: NTA-855-M400; CAT 3406TA ...

Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%

Rated propeller thrust: 39.2KN



300 MARINE GEARBOX MAX.805 HP at 2300RPM

Engine Speed: 1000~2300 RPM

Ratio	1.87	2.04	2.54	3.00	3.35	3.53	4.10	4.47	4.61	4.94	5.44
Rate(hp/rpm)	0.35			0.33	0.30	0.25			0.20	0.17	

L×W×H: 638×870×864 mm

Net weight: 740 kg

Bell housing: SAE 0, 1

Flange: SAE 14,16,18

Options/Comments: PTO device available(except ratio 5.44:1); Mechanical or electrical remote control

Centre distance: 264 mm

Recommend engine: KTA19-M600; TBD234V12 ...

Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%

Rated propeller thrust: 50KN



HC300 MARINE GEARBOX MAX.875 HP at 2500RPM

Engine Speed: 750~2500 RPM

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
Rate(hp/rpm)	0.35							0.272	0.25	0.20	0.177	

L×W×H: 798×930×918mm

Net weight: 700 kg

Bell housing: SAE0,1

Flange: SAE14,16,18

Options/Comments: Mechanical or electrical remote control

Centre distance: 264 mm

Recommend engine: KTA19-M600 TBD234V12

Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%

Rated propeller thrust: 50KN



D300A MARINE GEARBOX MAX.805 HP at 2300RPM

Engine Speed: 1000~2300 RPM

Ratio	4.00	4.48	5.05	5.52	5.90	6.56	7.06	7.63
Rate(hp/rpm)	0.35	0.33	0.30	0.25			0.20	0.17

L×W×H: 786×920×1040 mm

Net weight: 940 kg

Bell housing: SAE 0, 1

Flange: SAE 14,16,18

Options/Comments: PTO device available(except ratio 7.63:1); Mechanical or electrical remote control

Centre distance: 355 mm

Recommend engine: KTA19-M600; TBD234V12 ...

Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%

Rated propeller thrust: 60KN



T300 MARINE GEARBOX MAX.759 HP at 2300RPM

Engine Speed: 1000~2300 RPM

Ratio	4.73	4.95	6.03	6.65	7.04	7.54	8.02	8.47
Rate(hp/rpm)	0.33					0.30		0.27

L×W×H: 640×920×1110 mm

Net weight: 1120 kg

Bell housing: SAE 0, 1

Flange: SAE 14,16,18

Options/Comments: PTO device available; Mechanical or electrical remote control

Centre distance: 355 mm

Recommend engine: KTA19-M600; CAT3412T; TBD234V12 ...

Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%

Rated propeller thrust: 70KN



T300/1 MARINE GEARBOX MAX.611 HP at 2300RPM

Engine Speed: 1000~2300 RPM

Ratio	8.94	9.45
Rate(hp/rpm)	0.266	

L×W×H: 772×980×1106 mm Net weight: 1120 kg
 Bell housing: SAE 0,1 Flange: SAE 14,16,18
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 355 mm
 Recommend engine: KTA19-M600, CAT3412T ...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 70KN



J300 MARINE GEARBOX MAX.1000 HP at 2500RPM

Engine Speed: 750~2500 RPM

Ratio	2.04	2.54	3.0	3.47	3.95	4.70	5.00	5.44	5.71	
Rate(hp/rpm)	0.280				0.257	0.46	0.44	0.40		

L×W×H: 786×930×864 mm Net weight: 740 kg
 Bell housing: SAE 0,1 Flange: SAE 1816,14
 Options/Comments: Push-and-pull flexible shaft, electrically
 Centre distance: 264mm
 Recommend engine: KTA19-M600, CAT3412T ...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 60KN



HC400 MARINE GEARBOX MAX.810 HP at 1800RPM

Engine Speed: 1000~1800 RPM

Ratio	1.50	1.77	2.04	2.50	3.00	3.25	3.38	3.42	4.06	4.61	4.94
Rate(hp/rpm)	0.41								0.35	0.236	

L×W×H: 843×950×890 mm Net weight: 820 kg
 Bell housing: SAE 0,1 Flange: SAE 14,16,18
 Options/Comments: PTO device available; Mechanical or electrical remote control
 Centre distance: 264 mm
 Recommend engine: CAT3412TA; TBD604BL6 ...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 82KN



HCD400A MARINE GEARBOX MAX.810 HP at 1800RPM

Engine Speed: 1000~1800 RPM

Ratio	3.96	4.33	4.43	4.476	4.70	5.00	5.53	5.70	5.89	
Rate(hp/rpm)	0.41						0.364	0.337	0.337	

L×W×H: 843×1010×1066 mm Net weight: 1100 kg
 Bell housing: SAE 0,1 Flange: SAE14,16,18
 Options/Comments: PTO device available; Mechanical or electrical remote control
 Centre distance: 355 mm
 Recommend engine: KT38-M800; TBD604BL6 ...
 Note: The "Rate" is based on toothed rubber blocks coupling, if use high-flexible coupling, "Rate" will rise 8%
 Rated propeller thrust: 82KN



HCT400A MARINE GEARBOX MAX.945 HP at 2100RPM

Engine Speed: 1000~2100 RPM

Ratio	6.09	6.49	6.93	7.42	7.95	8.40	9.00	9.47	
Rate(hp/rpm)	0.44			0.41	0.38	0.355	0.326		

L×W×H: 800×1052×1130 mm Net weight: 1450 kg
 Bell housing: SAE 0,1 Flange: 14,16,18
 Options/Comments: PTO device available; Mechanical or electrical remote control
 Centre distance: 375 mm
 Recommend engine: KT38-M800; TBD604BL6; CAT3412TA ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 82KN

MEDIUM AND HEAVY DUTY GEARBOX



HCT400A/1 MARINE GEARBOX MAX.945 HP at 2100RPM

Engine Speed: 1000~2100 RPM

Ratio	8.15	8.69	9.27	9.94	10.60	11.37	12.00	13.96
Rate(hp/rpm)	0.44			0.42	0.40	0.37	0.35	0.274

L×W×H: 869×1100×1275 mm Net weight: 1500 kg
 Bell housing: SAE0, 1 Flange: SAE 14,16,18
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 465 mm
 Recommend engine: KTA38-M800; CAT3412TA; TBD604BL6 ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 120KN



HCT400/II MARINE GEARBOX MAX.945 HP at 2100RPM

Engine Speed: RPM

Ratio	8.15	8.69	9.27	9.94	10.60	11.37	12.00	13.96
Rate(hp/rpm)	0.45			0.43	0.40	0.37	0.36	0.278

L×W×H: 869×920×1327 mm Net weight: 1500 kg
 Bell housing: SAE 0, 1 Flange: SAE 14,16,18
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 465 mm
 Recommend engine: KTA38-M800 CAT3412TA TBD604BL6
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 120KN



HC600A MARINE GEARBOX MAX.1365 HP at 2100RPM

Engine Speed: 1000~2100 RPM

Ratio	2.00	2.48	2.66	2.78	3.00	3.58	3.89
Rate(hp/rpm)	0.60				0.54		0.49

L×W×H: 745×1094×1126 mm Net weight: 1300 kg
 Bell housing: SAE 00, 0,1 Flange: SAE (14),16,18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 320 mm
 Recommend engine: KTA38-M1045; CAT3508B; TBD604BV8 ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 90KN



HCD600A MARINE GEARBOX MAX.1365 HP at 2100RPM

Engine Speed: 1000~2100 RPM

Ratio	3.32	4.18	4.43	4.70	5.00	5.44	5.71
Rate(hp/rpm)	0.65	0.60		0.57	0.54	0.49	

L×W×H: 745×1094×1271 mm Net weight: 1550 kg
 Bell housing: SAE 00, 0 Flange: SAE (14),16,18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 415 mm
 Recommend engine: KTA38-M1045; CAT3508B; TBD604BV8 ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 90KN

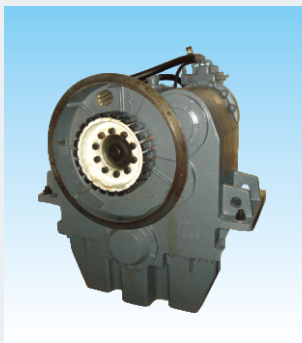


HCT600A MARINE GEARBOX MAX.1260 HP at 2100RPM

Engine Speed: 1000~2100 RPM

Ratio	6.06	6.49	6.97	7.51	8.04	8.66	9.35
Rate(hp/rpm)	0.55	0.49	0.45		0.41	0.36	0.35

L×W×H: 805×1094×1271mm Net weight: 1600 kg
 Bell housing: SAE 00, 0 Flange: 16,18,21,(14)
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 415 mm
 Recommend engine: KTA38-M940;CAT3508TA; TBD234V16 ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 90KN



HCT600A/1 MARINE GEARBOX MAX.1260 HP at 2100RPM

Engine Speed: 1000~2100 RPM

Ratio	7.69	8.23	8.82	9.47	10.10	10.80	11.65	12.57	14.44	15.91
Rate(hp/rpm)	0.55		0.51	0.49	0.464		0.437	0.41	0.32	0.255

L×W×H: 878×1224×1346 mm Net weight: 1700 kg
 Bell housing: SAE 00, 0 Flange: 16,18,21,(14)
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 500 mm
 Recommend engine: KTA38-M940; TBD234V16 ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 140KN



HCD800 MARINE GEARBOX MAX.1530 HP at 1800RPM

Engine Speed: 1000~1800 RPM

Ratio	3.43	3.96	4.17	4.40	4.91	5.47	5.89
Rate(hp/rpm)	0.85			0.80		0.75	0.70

L×W×H: 1056×1280×1341 mm Net weight: 2200 kg
 Bell housing: SAE 00, 0 Flange: SAE 16,18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 450 mm
 Recommend engine: 6190Z₁C_z, CW6200, KAT38-M1 ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 110KN

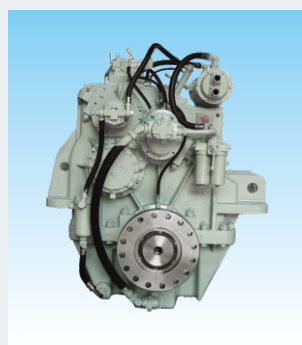


HCT800 MARINE GEARBOX MAX.1530 HP at 1800RPM

Engine Speed: 800~1800 RPM

Ratio	4.95	5.57	5.68	5.93	6.43	6.86	7.33	7.84	8.40
Rate(hp/rpm)	0.85			0.80		0.75	0.70	0.65	

L×W×H: 1056×1280×1425 mm Net weight: 2700 kg
 Bell housing: SAE 00, 0 Flange: 16,18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 450 mm
 Recommend engine: KAT38-M ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 140KN

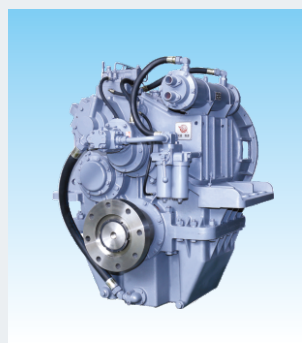


HCT800/1 MARINE GEARBOX MAX.1530 HP at 1800RPM

Engine Speed: 800~1800 RPM

Ratio	6.91	7.28	7.69	8.12	8.6	9.12	9.68	10.30	10.98	11.76	12.43	13.17	13.97	14.85	15.82	16.58	20.10
Rate(hp/rpm)	0.85						0.83	0.78	0.75	0.71	0.67	0.63	0.59	0.55	0.52	0.39	

L×W×H: 1152×1360×1557 mm Net weight: 3200 kg
 Bell housing: SAE00 0 Flange: SAE 16,18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 582 mm
 Recommend engine: 6190Z₁C_z, Z8170C, KAT38-M₁ ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 220KN



HCT800/2 MARINE GEARBOX MAX.1206 HP at 1800RPM

Engine Speed: 800~1800 RPM

Ratio	13.12	13.81	14.55	15.33	16.16	17.04	18.00	20.27	22.18
Rate(hp/rpm)	0.9273	0.8808	0.8363	0.7937	0.7529	0.7143	0.6762	0.6000	0.5483

L×W×H: 1190×1490×1707 mm Net weight: 3600 kg
 Bell housing: SAE00 0 Flange: SAE 16,18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 666 mm
 Recommend engine: 6190Z₁C_z, Z8170C, KAT38-M₁ ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 220KN

MEDIUM AND HEAVY DUTY GEARBOX



HCT800/3 MARINE GEARBOX MAX.1460 HP at 1800RPM

Engine Speed: 800~1800 RPM

Ratio	16.56	17.95	20.20
Rate(hp/rpm)	0.81	0.75	0.67

L×W×H: 1235×1570×1789 mm Net weight: 4200 kg
 Bell housing: SAE00 0 Flange: SAE 16,18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 736 mm
 Recommend engine: KTA38-M2
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 240KN

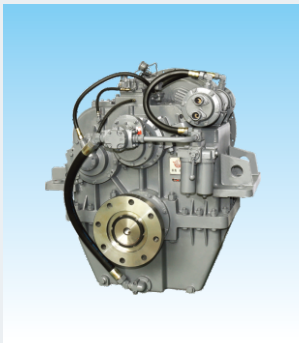


HC1000 MARINE GEARBOX MAX.1900 HP at 1900RPM

Engine Speed: 600~1900 RPM

Ratio	2.00	2.50	3.04	3.48	3.59	4.06
Rate(hp/rpm)	1.0			0.884		

L×W×H: 1082×1120×990mm Net weight: 7700 kg
 Bell housing: Flange: SAE 18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 335 mm
 Recommend engine: CW6200ZC、6210ZL ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 110KN



HCD1000 MARINE GEARBOX MAX.1900 HP at 1900RPM

Engine Speed: 600~1900 RPM

Ratio	3.43	3.96	4.39	4.45	4.91	5.06	5.47	5.83
Rate(hp/rpm)	1.000					0.925	0.885	

L×W×H: 1082×1280×1345 mm Net weight: 1900 kg
 Bell housing: SAE 00, 0 Flange: SAE 18,21
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 450 mm
 Recommend engine:
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 140KN



HCT1100 MARINE GEARBOX MAX.1841 HP at 1600RPM

Engine Speed: 700~1800 RPM

Ratio	4.94	5.60	5.98	6.39	6.85	7.35	7.90
Rate(hp/rpm)	1.15			1.14	1.05	1.00	

L×W×H: 1150×1350×1547 mm Net weight: 3000 kg
 Options/Comments: Pneumatic(recommended) or electrical remote control
 Centre distance: 500mm
 Recommend engine: CW6200 ...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 150KN



HC1200 MARINE GEARBOX MAX.2268 HP at 1800RPM

Engine Speed: 600~1900 RPM

Ratio	2.03	2.48	2.50	2.96	3.55	3.79	4.05	4.20	4.47
Rate(hp/rpm)	1.26				1.20	1.09	0.95	0.88	

L×W×H: 1082×1200×1130 mm Net weight: 2000 kg
 Bell housing: Flange:
 Options/Comments: Mechanical remote operation
 Centre distance: 380 mm
 Recommend engine: CW8200ZC、8210ZC...
 Note: The "Rate" is based on high-flexible coupling.
 Rated propeller thrust: 120KN



HC1200/1 MARINE GEARBOX MAX.2277 HP at 1800RPM

Engine Speed: 600~1800 RPM

Ratio	3.74	3.95	4.45	5.00	5.25	5.58
Rate(hp/rpm)	1.265			1.133	0.946	0.884

L×W×H: 1096×1260×1270 mm Net weight: 2500 kg

Bell housing: Flange:

Options/Comments: Mechanical or electrical remote control

Centre distance: 450 mm

Recommend engine:

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 140KN



HCT1200 MARINE GEARBOX MAX.2024 HP at 1600RPM

Engine Speed: 1000~1600 RPM

Ratio	5.05	5.60	5.98	6.39	6.85	7.35	7.90
Rate(hp/rpm)	1.265						

L×W×H: 1188×1350×1547 mm Net weight: 3000 kg

Bell housing: NO Flange: SAE 16,18,21

Options/Comments: Mechanical or electrical remote control

Centre distance: 500 mm

Recommend engine: CW8200ZC, XCW8200ZC...

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 150KN



HCT1200/1 MAX.1995 HP at 1600RPM

Engine Speed: 700~1600 RPM

Ratio	8.55	9.16	9.57	10.08	10.74	11.45	12.17
Rate(hp/rpm)	1.2471			1.0728	1.0057	0.9387	

L×W×H: 1056×1430×1670 mm Net weight: 3600 kg

Bell housing: No Flange: SAE 16,18,21

Options/Comments: Mechanical, Pneumatic or electrical remote control

Centre distance: 580 mm

Recommend engine:

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 270KN



Hc1250 MARINE GEARBOX MAX.1654 HP at 1800RPM

Engine Speed: 400~1800 RPM

Ratio	2.03	2.48	3.04	3.48	3.95
Rate(hp/rpm)	1.23				1.14

L×W×H: 1155×1330×1435 mm Net weight: 2200 kg

Options/Comments: Pneumatic(recommended)or electrical remote control

Centre distance: 390 mm

Recommend engine: CW8200ZC, 6210ZL, Z12V190 ...

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 140KN



HCD1400 MAX.2485 HP at 1800RPM

Engine Speed: 600~1800 RPM

Ratio	4.04	4.27	4.32	4.52	4.80	5.05	5.50	5.86
Rate(hp/rpm)	1.3812						1.0432	

L×W×H: 1260×1380×1360 mm Net weight: 2800 kg

Bell housing: SAE 00 Flange: SAE 16,18,21

Options/Comments: Mechanical, Pneumatic or electrical remote control

Centre distance: 485 mm

Recommend engine:

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 175KN



HCT1400 MARINE GEARBOX MAX.2520 HP at 1800RPM

Engine Speed: 600~1800 RPM

Ratio	5.03	5.52	5.97	6.49	7.03	7.50	8.01	8.47	8.60	8.98	9.12	9.55
Rate(hp/rpm)	1.40							1.36	1.31	1.26	1.22	1.16

L×W×H: 1306×1380×1750 mm Net weight: 3700 kg

Bell housing: Flange:

Options/Comments: Mechanical or electrical remote control

Centre distance: 550 mm

Recommend engine:

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 220KN



HCT1600 MAX.2680 HP at 1650RPM

Engine Speed: 500~1650 RPM

Ratio	5.55	5.97	6.59	6.99	7.46	7.90	8.45	9.00	9.50	
Rate(hp/rpm)	1.6266						1.4804		1.2471	

L×W×H: 1246×1500×1750 mm Net weight: 4200 kg

Bell housing: No Flange: 16,18,21

Options/Comments: Mechanical, Pneumatic or electrical remote control

Centre distance: 625 mm

Recommend engine:

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 280KN



HCD2000 MAX.2975 HP at 1500RPM

Engine Speed: 600~1500 RPM

Ratio	3.00	3.58	3.96	4.46	4.95	5.26	5.43	5.75	6.05	
Rate(hp/rpm)	1.9846					1.9042	1.7969	1.6494	1.5957	

L×W×H: 1600×1620×1645 mm Net weight: 4000 kg

Bell housing: No Flange: 18,21

Options/Comments: Mechanical, Pneumatic or electrical remote control

Centre distance: 560 mm

Recommend engine:

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 220KN



HCT2000 MARINE GEARBOX MAX.3019 HP at 1500RPM

Engine Speed: RPM

Ratio	5.19	5.49	5.94	6.58	7.01	7.48	8.00	8.57	8.84	9.43	10.05	
Rate(hp/rpm)	2.01							1.93	1.82	1.67	1.645	

L×W×H: 1284×1600×1835 mm Net weight: 5600 kg

Bell housing: SAE 0 Flange:

Options/Comments: Mechanical or electrical remote control

Centre distance: 625 mm

Recommend engine:

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 280KN



HCD2700 MAX.3845 HP at 1400RPM

Engine Speed: 500~1400 RPM

Ratio	3.65	4.04	4.50	5.05	5.48	6.11	
Rate(hp/rpm)	2.749					2.6283	2.2797

L×W×H: 1400×1780×1530 mm Net weight: 6000 kg

Bell housing: No Flange: 18,21

Options/Comments: Mechanical, Pneumatic or electrical remote control

Centre distance: 630 mm

Recommend engine:

Note: The "Rate" is based on high-flexible coupling.

Rated propeller thrust: 280KN



DREDGE PUMP GEARBOXES

Parameter \ Model	JL250	JL320	JL360
Input power/Speed (hp/rpm)	494/1300 760/2000	624/1300 864/1800	1235/1300~ 1710/1800
Reduction ratio(i)	2~4	2.5~4	2.5~4
Trans. Capacity(hp/rpm)	~0.38	~0.48	~0.95
L×W×H(mm)	1178×900×1265	1305×1000×1405	1873×1140×1700
Net weight(kg)	1800	2500	4400
Control model	Electrical		
Centre distance(mm)	250	320	360

Feature:with clutch,speed reduction and pump functions.

NEW PRODUCTS

Model	Engine Speed r/min	Ratio(I)	rate kW/r/min	Rated propeller thrust(kN)	Centre distance (mm)	L × W × H (mm)	Net weight (kg)	Options/ Comments	Flange	Bell housing
Gearbox with PTI										
HC200P	1000-2200	forward/reverse gear3.56 PTI 3.3	0.147	27.5	264	1090×930×884	650	Push-and-pull flexible shaft, electrically, pneumatically	Flange size according to engine flywheel	No bell housing
Multi-functional Multi-output Auxiliary Box (speed-up)										
4LZF1100A	300-1000	Drive Motor (Fast: 2.94 Slow: 2.51) Drive Gear Pump: 2.5 Drive Vane Pump: 3.6	0.25			1175×1018×946	1000	Push-and-pull flexible shaft, electrically, pneumatically	Flange size according to engine flywheel	No bell housing
2LZF650	650-1000	Drive Motor (Fast: 2.005 Slow: 1.71) Drive Oil Pump: 2.01	0.147			1000×730×935	650	Push-and-pull flexible shaft, electrically, pneumatically	Flange size according to engine flywheel	No bell housing
Hybrid gearbox (with PTO/PTI)										
HCT601P	1000-2100	Major Ratio 8.23 Similar with HCT600A/1	0.441	140	500	938×1224×1525	2000	electrically,	SAE18	No bell housing
	1500	ratio at input engine side 9.73	0.133							
HCD450P	600-1800	Major Ratio 6.2 Similar with HCD400	0.331	428		962×1160×1265		Push-and-pull flexible shaft, electrically,	SAE18	No bell housing
	1800	ratio at input engine side 9.73	0.11							

Light & High-speed Marine Gearbox

HCQ/HCA/HCM/HCV series light high-speed marine gearboxes are designed of power ranging 20kW~2300kW, ratio ranging 1.5~3.5:1.

HCQ is with Cast iron housing, HCM with aluminum housing and HCA & HCV with down angle structure. These products enjoy high market share, are widely used on various yacht, traffic boat, passenger boat. Product design and manufacturing capability are in national leading and international advanced level.

Main features: 1. Possess functions of clutch & de-clutching, speed reduction and bearing propeller thrust; 2. Compact in structure, small in volume and light in weight; 3. High rated input speed and high manufacturing precision; 4. Good complete-machine performance, low noise and small vibration; 5. Match high-speed diesel engine, mainly used on medium-to-small high-speed boats; 6. Apply mechanical and automatic control, realizing local emergent control and remote control of the gearbox.



HC038A MARINE GEARBOX MAX.121HP at 3200RPM

Engine Speed: 1500~3200 RPM

Ratio	1.51	2.03	2.52	2.92	3.45
Rate(hp/rpm)	0.038			0.034	0.027

L×W×H: 392×480×480 mm

Net weight: 70 kg

Bell housing: Match according to customer requirement Flange:

Options/Comments: Mechanical or electrical remote control

Centre distance: 115 mm

Recommend engine:

Rated propeller thrust: 9KN



HC65 MARINE GEARBOX MAX.163 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	1.53	2.03	2.50	2.96	3.50
Rate(hp/rpm)	0.065			0.060	

L×W×H: 311×460×544 mm

Net weight: 130 kg

Bell housing: SAE 2, 3

Flange: SAE10, 11.5

Centre distance: 142 mm

Recommend engine: 6BT5.9-M ...

Rated propeller thrust: 14.7KN



MV100A MARINE GEARBOX(7° inclination) MAX.408 HP at 3000RPM

Engine Speed: 1000~3000 RPM

Ratio	1.23	1.28	1.62	2.07	2.52	2.87
Rate(hp/rpm)	0.136				0.1224	0.1088

L×W×H: 390×630×580 mm

Net weight: 220 kg

Bell housing: SAE 1, 2

Flange: SAE 11.5, 14

Options/Comments: Mechanical or electrical remote control

Centre distance: Input and output coaxality

Recommend engine: NT-855-M240;MWM D234 V8 ...

Rated propeller thrust: 20KN



HCQ138 MARINE GEARBOX MAX.390 HP at 2600RPM

Engine Speed: 1000~2600 RPM

Ratio	1.03	1.28	1.50	2.03	2.48	2.95
Rate(hp/rpm)	0.15					0.133

L×W×H: 504×619×616 mm Net weight: 200 kg
 Bell housing: SAE 1, 2 Flange: SAE 11.5, 14
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 165 mm
 Recommend engine: NT-855-M240, CAT3406 ...
 Rated propeller thrust: 25KN



HCA138 MARINE GEARBOX(7° inclination) MAX.390 HP at 2600RPM

Engine Speed: 1000~2600 RPM

Ratio	1.10	1.28	1.5	2.03	2.52	3.00
Rate(hp/rpm)	0.15					0.133

L×W×H: 530×660×616 mm Net weight: 200 kg
 Bell housing: SAE 1, 2 Flange: SAE 11.5, 14
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 185 mm
 Recommend engine: NT-855-M240; MWM D234 V8 ...
 Rated propeller thrust: 25KN



HC200 MARINE GEARBOX MAX.440 HP at 2200RPM

Engine Speed: 1000~2200 RPM

Ratio	1.48	2.00	2.28
Rate(hp/rpm)	0.20		

L×W×H: 430×744×708 mm Net weight: 280 kg
 Bell housing: SAE1, 2 Flange: SAE11.5,14
 Options/Comments: Mechanical or electrical remote operation
 Centre distance: 190 mm
 Recommend engine: NT-855-M240; CAT 3406TA ...
 Rated propeller thrust: 27.5KN



HCC200 MARINE GEARBOX MAX.500 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	1.03	1.45	2.00	2.42	2.94
Rate(hp/rpm)	0.20				

L×W×H: 554×750×700 mm Net weight: 400 kg
 Bell housing: SAE 1 Flange: SAE 14
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 0mm
 Recommend engine: N T -855-M240, CAT3406TA...
 Rated propeller thrust: 40KN



HC201 MARINE GEARBOX MAX.500 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	2.46	2.96	3.53
Rate(hp/rpm)	0.20		0.180

L×W×H: 556×691×735 mm Net weight: 350 kg
 Bell housing: SAE 0, 1 Flange: SAE 14,16,18
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 205 mm
 Recommend engine: 6135ZLCA, N T A -855-M400...
 Rated propeller thrust: 40KN



HCQ300 MARINE GEARBOX MAX.782 HP at 2300RPM

Engine Speed: 1000~2300 RPM

Ratio	1.06	1.21	1.46	1.74	2.05	2.38	2.55
Rate(hp/rpm)	0.34				0.32		0.31

L×W×H: 533×681×676 mm Net weight: 350 kg
 Bell housing: SAE0, 1 Flange: SAE 14,16,18
 Options/Comments: Mechanical or electrical remote operation
 Centre distance: 203 mm
 Recommend engine: KTA19-M600; CAT3412T; TBD234V12 ...
 Rated propeller thrust: 40KN



HCA300 MARINE GEARBOX(10° inclination) MAX.850 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	1.50	2.00	2.57	2.95
Rate(hp/rpm)	0.34			0.32

L×W×H: 620×585×753 mm Net weight: 370 kg
 Bell housing: SAE 0, 1 Flange: SAE 14,16,18
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 278 mm
 Recommend engine: KTA19-M600 CAT3412T, TBD234V12 ...
 Rated propeller thrust: 40KN

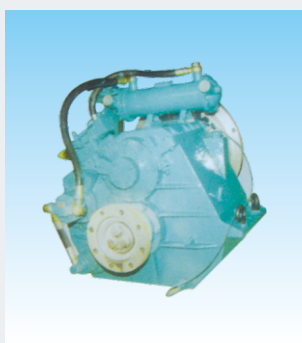


HCQ401 MARINE GEARBOX MAX.1035 HP at 2300RPM

Engine Speed: 1500~2300 RPM

Ratio	1.00	1.12	1.25	1.41	1.50	1.76	2.04	2.50
Rate(hp/rpm)	0.45							0.40

L×W×H: 640×900×800 mm Net weight: 480 kg
 Bell housing: SAE0, 1 Flange: SAE 14,16,18
 Options/Comments: PTO device available; Mechanical or electrical remote control
 Centre distance: 220 mm
 Recommend engine: KT38-M800; TBD604BL6; CAT3412TA ...
 Rated propeller thrust: 50KN

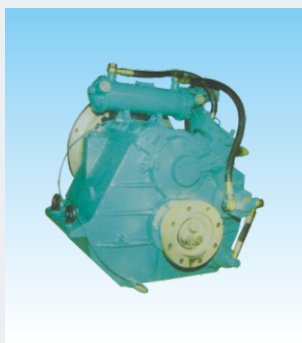


HCQ501 MARINE GEARBOX MAX.1265 HP at 2300RPM

Engine Speed: 1000~2300 RPM

Ratio	1.03	1.46	1.56	1.88	2.00	2.45
Rate(hp/rpm)	0.55					0.52

L×W×H: 706×856×846 mm Net weight: 560 kg
 Bell housing: SAE 0, 1 Flange: SAE 16,18
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 235 mm
 Recommend engine: KTA38-M940; CAT3508B; TBD234V16...
 Rated propeller thrust: 55KN



HCQ502 MARINE GEARBOX MAX.1265 HP at 2300RPM

Engine Speed: 1000~2300 RPM

Ratio	2.71	2.95
Rate(hp/rpm)	0.55	

L×W×H: 706×856×875 mm Net weight: 700 kg
 Bell housing: SAE 0, 1 Flange: SAE 16,18
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 264 mm
 Recommend engine: KTA38-M940; CAT3508TA; TBD234V16...
 Rated propeller thrust: 60KN



HCQ700 MARINE GEARBOX MAX.1875 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	1.5~2.5	2.78	2.96
Rate(hp/rpm)	0.75	0.70	0.67

L×W×H: 898×1104×1066 mm Net weight: 900 kg
 Bell housing: SAE0 Flange: SAE 16,18
 Options/Comments: Mechanical or electrical remote operation
 Centre distance: 290 mm
 Recommend engine: KTA38-M₂; CAT3508TA...
 Rated propeller thrust: 90KN



HCQ701 MAX.1875 HP at 2500RPM

Engine Speed: 1000~2500 RPM

Ratio	2.91	3.48	3.63
Rate(hp/rpm)	0.75		

L×W×H: 868×1104×1146 mm Net weight:
 Bell housing: SAE 0 Flange: SAE 18
 Options/Comments: Mechanical, electrical remote control
 Centre distance: 340 mm
 Recommend engine:
 Rated propeller thrust: 95KN



HCQ1000 MARINE GEARBOX MAX.2300 HP at 2300RPM

Engine Speed: 600~2300 RPM

Ratio	1.18	2.84	3.00
Rate(hp/rpm)	1.000		0.87

L×W×H: 994×1104×985 mm Net weight: 1100 kg
 Bell housing: SAE0 Flange: SAE16,18
 Options/Comments: Mechanical or electrical remote control
 Centre distance: 310 mm
 Recommend engine:
 Rated propeller thrust: 100KN



HCQ1400 MARINE GEARBOX MAX.2940 HP at 2100RPM

Engine Speed: 1000~2100 RPM

Ratio	1.52	2.00	2.476	3.00
Rate(hp/rpm)	1.40			1.22

L×W×H: 938×1210×1027 mm Net weight: 1430 kg
 Bell housing: Flange: SAE
 Options/Comments: Mechanical or electrical remote operation
 Centre distance: 340 mm
 Recommend engine: CAT3512TA ...
 Rated propeller thrust: 110KN



HCA1400 (7° inclination) MAX.2475 HP at 2100RPM

Engine Speed: 1600~2100 RPM

Ratio	2.93
Rate(hp/rpm)	1.18

L×W×H: 826×1300×1250 mm Net weight:
 Bell housing: special equipment Flange: special equipment
 Options/Comments: Mechanical, electrical remote control
 Centre distance: 438.6 mm
 Recommend engine:
 Rated propeller thrust: 110KN



HCM1400 **MAX.2900 HP at 2100RPM**

Engine Speed: 1000~2100 RPM

Ratio	1.48	2.02	2.55	3.07
Rate(hp/rpm)	1.3825			1.1934

L×W×H: 1023×1000×1118 mm Net weight: 950 kg
 Bell housing: SAE 00 0 Flange: SAE21 18
 Options/Comments: Mechanical, electrical remote control
 Centre distance: 340 mm
 Recommend engine:
 Rated propeller thrust: 110KN



HCQ1600 **MAX.3390 HP at 2100RPM**

Engine Speed: 1600~2100 RPM

Ratio	1.51	1.97	2.48	2.76
Rate(hp/rpm)	1.6145			1.341

L×W×H: 1106×1190×1056 mm Net weight: 1500 kg
 Bell housing: No Flange: SAE21 18
 Options/Comments: Mechanical, electrical remote control
 Centre distance: 340 mm
 Recommend engine:
 Rated propeller thrust: 120KN



HCQH1600 **MAX.3065 HP at 1900RPM**

Engine Speed: 1600~1900 RPM

Ratio	2.48
Rate(hp/rpm)	1.6145

L×W×H: 1035×1110×1038 mm Net weight: 1500 kg
 Bell housing: No Flange: SAE21
 Options/Comments: Mechanical, electrical remote control
 Centre distance: 340 mm
 Recommend engine:
 Rated propeller thrust: 120KN



HCQH1601 **MAX.3390 HP at 2100RPM**

Engine Speed: 1600~2100 RPM

Ratio	3.04	3.24
Rate(hp/rpm)	1.6145	1.341

L×W×H: 1106×1230×1180 mm Net weight: 1550 kg
 Bell housing: No Flange: SAE21 18
 Options/Comments: Mechanical, electrical remote control
 Centre distance: 370 mm
 Recommend engine:
 Rated propeller thrust: 120KN

HCL-series Hydraulic Clutch

HCL-series hydraulic clutches apply structure of wet, multiple P/M friction discs, suitable for clutch condition of high speed, load and frequency. Mechanical or electrical control is optional upon client demand. The control system works sensitively, easily realizing remote or automatic control. The basic elements such as input coupling, clutch discs, cooler and filter are all mature parts.

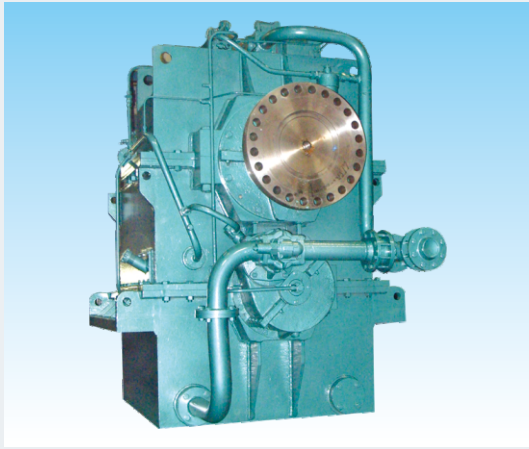


HYDRAULIC CLUTCH

Model	Input speed (rpm)	Trans.capacity (KN.m)	Rate (hp/rpm)	Time (s)	Efficiency	Dimensions (mm)	Weight (kg)
HCL30S	750-1500	0.3	0.041	≤4	≥97	345×310×455	100
HCL30F	1500-2500				≥98	570×420×535	
HCL100S	750-1500	1	≥98		570×420×535	156	
HCL100F	1500-2500		≥98				
HCL250S	500-1000	2.5	≥98		554×425×635	210	
HCL250F	1000-2500		≥98				
HCL320S	500-1000	3.2	≥98		554×425×635	210	
HCL320F	1000-2500		≥98				
HCL600S	500-1000	6	≥98		746×560×688	450	
HCL600F	1000-1800		≥98				

Options/Comments: Mechanical or Electrical remote control

GC SERIES(FOR CONTROLLABLE PITCH PROPELLER)



Model	Speed (rpm)	Ratio (i)	Rate (hp/rpm)	Thrust (KN)	Center distance (mm)
GCS320	400~1800	1.97	0.730	100	320
		2.52			
		2.96			
		3.52			
		4.00			
GCS350	400~1800	2.00	0.930	113	350
		2.56			
		3.00			
		3.57			
		4.05			
GCS390	400~1800	2.03	1.249	140	390
		2.48			
		2.92			
		3.48			
		3.95			
GCS410	400~1600	2.00	1.589	175	410
		2.54			
		2.96			
		3.50			
		3.95			
GCS450	400~1600	1.97	2.139	220	450
		2.55			
		2.93			
		3.58			
		4.00			

Model	Speed (rpm)	Ratio (i)	Rate (hp/rpm)	Thrust (KN)	Center distance (mm)
GCS490	400~1400	2.03	2.789	270	490
		2.48			
		3.08			
		3.48			
		3.95			
GCS540	400~1200	1.97	3.599	284	540
		2.47			
		3.00			
		3.52			
		3.95			
GCS590	400~1200	1.97	4.689	300	590
		2.47			
		3.00			
		3.52			
		3.95			
GCST33	400~1200	5.95	4.689	450	820
		4-6 (速比范围)			
GCS660	400~1200	2.00	6.29	450	660
		2.54			
		2.96			
		3.50			
		3.95			
GCST44	400~1200	4-6 (速比范围)	6.29	700	924
GCS700B	400~1200	2.00	6.287	450	700
		2.55			
		2.96			
		3.52			
		4.00			
GCST66	300~900	4-6 (速比范围)	9.506	1000	1064
		4.47			
GCS760	300~900	1.94	11.029	750	760
		2.54			
		3.00			
		3.50			
		3.95			
GCS880	200~650	2.00(名义速比)	16.405	1000	880
		2.50(名义速比)			
		3.00(名义速比)			
		3.50(名义速比)			
		4.00(名义速比)			

GC Series Marine Gearbox(matched with controllable pitch propeller)

There are five series in GC Marine Gearbox(matched with controllable pitch propeller), among which GCS is the fundamental one:

GCS Series: this series has one reduction stage, and can apply the function of reduction. Its input and output is vertically offset and of opposite rotation directions. An oil distributor can be fixed at the output front end for CPP and a PTO can be fixed vertically above the output.

GCST Series: this series has one reduction stage, and can apply the function of reduction. Its input and output is vertically offset and of opposite rotation directions. An oil distributor can be fixed at the output front end for CPP and a PTO and a PTI can be fixed vertically above the output.

GCD Series: this series has one reduction stage, and can apply the function of reduction. Its input and output is angularly offset and of opposite rotation directions. An oil distributor can be fixed at the output front end for CPP and a PTO can be fixed angularly above the output.

GCH Series: this series has one reduction stage, and can apply the function of reduction. Its input and output is horizontally offset and of opposite rotation directions. An oil distributor can be fixed at the output front end for CPP and a PTO can be fixed at the horizontally opposite side of the output.

GCCSeries: this series has two stages for reduction, and can apply the function of reduction. Its input and output is coaxial and of the same rotation direction. A PTO can be fixed at the horizontally opposite side of the output.

Control Mode:Pneumatical or electrical operation

GW SERIES


GW series marine gearbox covers six series, among which G W C, G W D, G W S and G W H series are ahead-astern clutch reduction gearboxes, and G W L and G W K clutch are reduction gearboxes.

Structural features:

G W C series: Double-step reduction (primary and final) and reversal step. Input and output shafts are homocentric with same rotation direction. G W S model of double ratio is a derivative of G W C series.

G W D series: Single-step reduction (no primary) and reversal step, one of the two clutch shafts functions as a driving shaft; Input and output shafts are angular hetero-centric arranged with the rotation direction contrary.

G W S series: No primary device, only final and reversal steps; Input and output shafts are vertical hetero-centric with contrary rotation direction.

G W H series: No primary reduction device, only have final and reversal steps; Input and output shafts are horizontal hetero-centric with contrary rotation direction.

G W L series: No function of ahead and astern; Similar to G W C series in construction, but only have primary and final reduction devices; Input and output shafts are homocentric with same rotation direction.

G W K series: No function of ahead and astern; Only single-step reduction device; Input & output shafts are vertical hetero-centric with contrary rotation direction.

MODEL	RPM	RATIO	HP/RPM
GWC28.30 GWL28.30	400~900	2.06	1.06
	400~1150	2.51	0.87
	400~1350	3.08	0.71
	400~1600	3.54	0.62
	400~1800	4.05	0.54
	400~1800	4.54	0.47
	400~1800	5.09	0.43
	400~1800	5.59	0.39
	400~1800	6.14	0.35
GWC30.32 GWL30.32	400~900	2.03	1.45
	400~1150	2.55	1.15
	400~1350	3.04	0.97
	400~1600	3.52	0.84
	400~1800	4.00	0.73
	400~1800	4.55	0.64
	400~1800	5.05	0.58
	400~1800	5.64	0.51
	400~1800	6.05	0.47
GWC32.35 GWL32.35	400~900	2.06	1.83
	400~1150	2.54	1.48
	400~1350	3.02	1.25
	400~1600	3.58	1.05
	400~1800	4.05	0.93
	400~1800	4.59	0.82
	400~1800	5.09	0.73
	400~1800	5.57	0.67
	400~1800	6.08	0.61
GWC36.39 GWL36.39	400~900	1.97	2.50
	400~1150	2.45	2.00
	400~1350	2.98	1.66
	400~1600	3.47	1.42
	400~1800	3.95	1.25
	400~1800	4.40	1.11
	400~1800	5.01	1.00
	400~1800	5.47	0.91
	400~1800	5.97	0.83

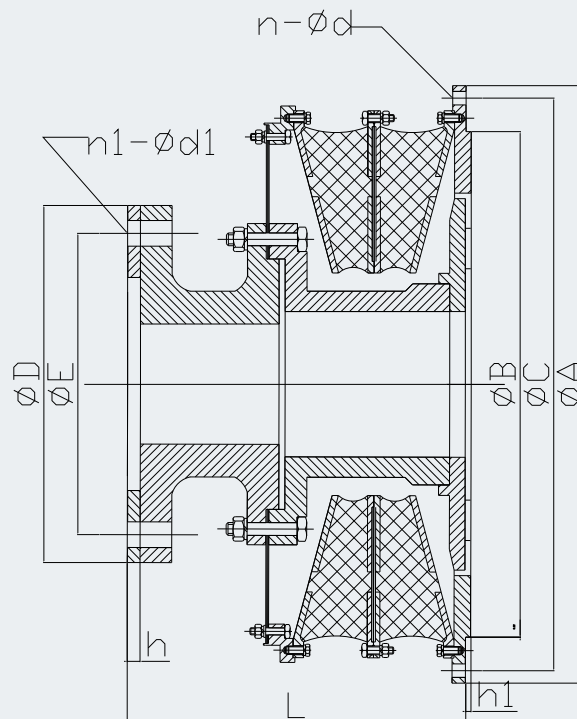
MODEL	RPM	RATIO	HP/RPM
GWC39.41 GWL39.41	400~800	1.98	3.26
	400~1000	2.47	2.54
	400~1200	3.05	2.11
	400~1400	3.48	1.82
	400~1600	4.05	1.59
	400~1600	4.48	1.41
	400~1600	5.00	1.25
	400~1600	5.51	1.13
	400~1600	5.99	1.03
	GWC42.45 GWL42.45	400~800	2.00
400~1000		2.55	3.36
400~1200		3.02	2.83
400~1400		3.58	2.39
400~1600		4.00	2.14
400~1600		4.47	1.90
400~1600		5.00	1.69
400~1600		5.60	1.50
400~1600		5.93	1.42
GWC45.49 GWL45.49		400~700	1.97
	400~900	2.47	4.45
	400~1050	2.89	3.70
	400~1250	3.47	3.20
	400~1400	3.95	2.79
	400~1400	4.37	2.48
	400~1400	4.85	2.24
	400~1400	5.50	2.02
	400~1400	5.98	1.81
	GWC49.54 GWL49.54	400~600	1.96
400~750		2.46	5.79
400~900		2.92	4.88
400~1050		3.45	4.13
400~1200		3.95	3.60
400~1200		4.53	3.12
400~1200		4.91	2.87
400~1200		5.48	2.56
400~1200		6.00	2.34

MODEL	RPM	RATIO	HP/RPM	MODEL	RPM	RATIO	HP/RPM	
GWC52.59 GWL52.59 GWC52.62	400~600	1.93	9.60	GWC85.100 GWL85.100	200~560	3.95	24.091	
	400~750	2.48	7.47		200~635	4.48	21.222	
	400~900	2.96	6.26		200~700	4.96	19.163	
	400~1050	3.53	5.26		200~780	5.51	17.283	
	400~1200	3.95	4.69		200~800	5.99	15.890	
	GWC60.66 GWL60.66 GWC60.74 GWC66.75	400~1200	4.43	4.16	GWS28.30 GWK28.30 GWH28.30 GWD28.30	400~1800	2.00	0.54
		400~1200	4.97	3.62			2.57	
		400~1200	5.40	3.39			3.00	
400~1200		5.93	3.08	3.57				
GWC70.76 GWL70.76		400~600	2.01	12.58	GWS30.32 GWK30.32 GWH30.32 GWD30.32	400~1800	1.97	0.73
		400~750	2.50	9.88			2.52	
		400~900	3.07	8.39			2.96	
		400~1050	3.57	7.19			3.52	
	GWC70.85 GWL70.85	400~1200	4.05	6.29	GWS32.35 GWK32.35 GWH32.35 GWD32.35	400~1800	2.00	0.93
		400~1200	4.48	5.47			2.56	
		400~1200	5.08	4.98			3.00	
		400~1200	5.51	4.53			3.57	
GWC70.85 GWL70.85		400~1200	6.12	4.12	GWS36.39 GWK36.39 GWH36.39 GWD36.39	400~1800	2.03	1.25
		300~425	2.05	21.274			2.48	
		300~550	2.53	17.235			2.92	
		300~700	3.09	14.095			3.48	
	GWC78.88 GWL78.88	300~810	3.58	12.162	GWS39.41 GWK39.41 GWH39.41 GWD39.41	400~1600	2.00	1.59
		300~900	3.95	11.031			2.54	
		300~950	4.57	9.527			2.96	
		300~970	5.04	8.633			3.50	
GWC75.90 GWL75.90		300~1000	5.58	7.813	GWS42.45 GWK42.45 GWH42.45 GWD42.45	400~1600	1.97	2.14
		300~1000	6.17	7.06			2.55	
		200~310	2.04	31.786			2.93	
		200~390	2.50	25.976			3.58	
	GWC80.95 GWL80.95	200~470	2.98	21.737	GWS45.49 GWK45.49 GWH45.49 GWD45.49	400~1400	2.03	2.79
		200~570	3.48	18.643			2.48	
		200~650	3.95	16.406			3.09	
		200~680	4.49	14.436			3.48	
GWC85.100 GWL85.100		200~720	5.01	12.935	GWS49.54 GWK49.54 GWH49.54 GWD49.54	400~1200	1.97	3.60
		200~750	5.47	11.848			2.47	
		200~800	6.09	10.649			3.00	
		200~465	2.011	30.495			3.52	
	GWC85.100 GWL85.100	200~580	2.51	24.435	GWS52.59 GWK52.59 GWH52.59 GWD52.59	400~1200	1.97	4.69
		200~695	3.01	20.4			2.47	
		200~815	3.51	17.453			3.00	
		200~925	4.00	15.343			3.52	
GWC85.100 GWL85.100		200~1025	4.43	13.383	GWS60.66 GWK60.66 GWH60.66 GWD60.66	400~1200	2.00	6.29
		200~1100	5.04	12.176			2.54	
		200~1100	5.47	11.22			2.96	
		200~1100	6.02	10.185			3.50	
	GWC85.100 GWL85.100	200~350	1.98	38.08	GWS66.75 GWK66.75 GWH66.75 GWD66.75	300~900	1.97	9.50
		200~440	2.49	30.20			2.47	
		200~520	2.94	25.58			3.00	
		200~610	3.46	21.76			3.52	
GWC85.100 GWL85.100		200~700	3.95	19.04	GWS70.76 GWK70.76 GWH70.76 GWD70.76	300~900	1.94	11.031
		200~800	4.51	16.66			2.54	
		200~800	5.03	14.96			3.00	
		200~800	5.48	13.72			3.50	
	GWC85.100 GWL85.100	200~800	5.93	12.68	GWS70.76 GWK70.76 GWH70.76 GWD70.76	300~900	1.94	11.031
		150~270	1.98	48.183			2.54	
		200~340	2.55	37.303			3.00	
		200~410	2.98	31.885			3.50	
GWC85.100 GWL85.100		200~480	3.48	27.346	GWS70.76 GWK70.76 GWH70.76 GWD70.76	300~900	1.94	11.031
							2.54	
							3.00	
							3.50	

HIGHLY-FLEXIBLE COUPLING

HGT series highly flexible couplings

occupy 50% shipbuilding market in China, similar to the world famous “VULKAN” RATO couplings. The highly flexible HGT coupling is a torsionally flexible rubber coupling which can compensate radial, axial and angular shaft displacements of the connected machinery. The torque is transmitted by elements loaded in shear. The different torsional stiffness and damping factors provide the possibility to satisfactorily tune the torsional vibration behavior of the drive system. The essential parts of the coupling are: the torsionally flexible part, the membrane part and the connecting part. The torsionally flexible part consists of rubber elements, which can be arranged in one or two rows respectively, depending on the coupling size and the stiffness level. The flexible elements are divided into several segments. Due to the element segments and in the case of multi-row couplings, a displaced arrangement of the segments gives good ventilation and cooling of the elements. The HGT couplings can be used in ship's main propulsion, generator sets, pumps, fans and compressors, especially when the internal combustion engine as the prime mover. It is unnecessary to remove the engine or gearbox for the coupling mounting or replacing of the flexible elements.



As to the selection of specific type we use the formula: $T_{kn30} \geq K * 9.55 * P/n$, where P is the rated power in kW, n is the rated rotational speed in rpm, and K is the safety factor. We recommend K=1.5 for ship's main propulsion, K=1.3 for generator sets and K=2.0 for mud pump.

The following is the specification of the two-row couplings. A typical expression of HGT5020 III D is HGT—companycode, 50—rated torque 50kNm, 2—two rows of flexible elements, 0—stiffness code, III—connecting mode by flange, and D—with the overload device.

Dimension Group	Type (HGT)	Rated Torque T _{kn30} (KNm)	Max. Torque T _{kmax} (KNm)	Perm. Vibratory Torque (KNm)	Perm. Power Loss (KW)	Perm. Speed (rpm)	Perm. Axial Disp. (mm)	Perm. Radial Disp. (mm)	Dynamic Torsional Stiffness KNm/rad	Relative Damping
0600	0620	6.3	15.75	1.575	0.69	2900	5	4	47	1.13
0800	0820	8	20	2	0.75	2700	5	4	58	1.13
1000	1020	10	25	2.5	0.83	2500	5	4	80	1.13
1200	1220	12.5	37.5	3.13	0.89	2300	6	5	100	1.13
1600	1620	16	40	4	0.98	2100	6	5	120	1.13
2000	2020	20	50	5	1.05	2050	6	6	160	1.13
2500	2520	25	62.5	6.25	1.14	1800	6	6	180	1.13
3000	3020	31.5	78.75	7.88	1.35	1700	6	7	225	1.13
4000	4020	40	100	10	1.73	1600	6	7	320	1.13
5000	5020	50	125	12.5	1.95	1410	7	9	360	1.13
6300	6320	63	157.5	15.75	2.33	1350	7	9	462	1.13
8000	8020	80	200	20	2.57	1250	7	10	598.5	1.13
10000	10020	100	250	25	2.72	1120	9	11	748	1.13
12500	12520	125	312.5	31.25	2.94	1000	9	12	931	1.13

HIGHLY-FLEXIBLE COUPLING