



ADVANCE

Marine Gearboxes And Power Shift Transmissions



- +++ Set up in ISO
- +++ ISO9001 Quality System Certified
- +++ Products Ratified By CCS, LR, GL, BV, ABS AND NK etc.

杭州前进齿轮集团有限公司 (杭州齿轮集团)
HANGZHOU ADVANCE GEARBOX GROUP CO., LTD.

BRIEF INTRODUCTION

HANGZHOU ADVANCE GEARBOX GROUP CO., LTD. (former name: Hangzhou Gearbox Works), was set up in 1998. The Company is the largest and the most famous enterprise specialized in producing transmissions, as well as P/M products in China. It is 150 km from Shanghai and has an area of 100,000m², staff of 3000 (including 800 professional technicians) and 10 hundred million RMB Yuan assets. It owns a Hangzhou Marine Gearbox Research Institute, a Hangzhou P/M Research Institute, 12 sub-factories and 8 subordinate companies.

The Company has introduced advanced foreign technology and imported equipment since its birth in order to keep its leading place in China. There are eight families and nearly a thousand types of the products in the company. They are marine gearbox, constructional transmission, vehicle transmission, industrial gearbox, gearbox clutch, special vehicle transmission, P/M product and large sized precision gearwheel. Its output and export ranks the superior place in China.

The company passed the certificate of ISO9001 and all the products have the approval of C.C.S.

ADVANCE, as a famous brand in China, has exported its products to more than 50 countries and regions, including South East Asia, Europe, Australia, Africa, Middle East and America. The company has established joint-ventures in Malaysia, Hongkong, Mexico and can do well in after sale service.

We deeply appreciate all our friends and hope to cooperate with you only.

GUIDE TO MODEL SELECTION

1. "RATED" in this manual indicates the proportion of the engine continuous power to the rated speed. When selecting model, the actual "RATED" should be smaller than the data listed in the manual.
2. For personal pleasure boat, if the duration of full speed sailing is less than 5% of total running time and for ordinary duration running with speed less than 80% of full-day speed, the selected "RATED" may be 20 % bigger than the data in the table.
3. If the average running duration at full-day speed is not more than two hours every day for whole working time running below the full-day of the engine and the total annual running time is less than 2000 hours, the selected "RATED" may be 30 % bigger than the data in the table.
4. Rigid connection of gearbox with engine is prohibited.
5. Gearbox must be used to the torsional vibration and torsion allowed by the classification society of shipping.

SPECIAL NOTE:

1. "ENGINE" in this manual are only for your reference.
2. When confirming the gearbox model, please study the "GUIDE TO MODEL SELECTION" carefully or contact "MANAGER/ADVANCE GEARBOX GROUP CO., LTD".

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W410000 GEARED GEARBOX

MAX. 650 HP at 2000RPM

Output Speed: 1000-2000RPM

Ratio	1:1	2:1	3:1
Max Output	650	325	217
Max Torque	1000	2000	3000

1.75kW (2.34HP) max

Net Weight: 175 kg

Options/Comments: Mechanical grease pack

Frame Mount: 12 frame

Input: TORQUE MOTOR, THERM, INVERTER —



W420000 GEARED GEARBOX

MAX. 10 HP at 2000RPM

Output Speed: 1000-2000RPM

Ratio	1:1	2:1	3:1	4:1	5:1
Max Output	10	5	3.3	2.5	2
Max Torque	100	200	300	400	500

1.1kW (1.5HP) max

Net Weight: 85 kg

Options/Comments: Mechanical grease pack

Frame Mount: 12 frame

Input: TORQUE MOTOR, THERM, INVERTER —



W430000 GEARED GEARBOX

MAX. 37 HP at 2000RPM

Output Speed: 1000-2000RPM

Ratio	1:1	2:1	3:1	4:1	5:1	6:1
Max Output	37	18.5	12.3	9.2	7.4	6.2
Max Torque	500	1000	1500	2000	2500	3000

1.7kW (2.3HP) max

Net Weight: 75 kg

Net Weight: 140 L x 14

Frame: 140 L x 14, 16

Options/Comments: PCB driver available; Mechanical grease operator

Frame Mount: 16 frame

Input: 140L, 160L, 180L, 200L, 220L —



W440000 GEARED GEARBOX

MAX. 62 HP at 2000RPM

Output Speed: 1000-2000RPM

Ratio	1:1	2:1	3:1	4:1	5:1	6:1
Max Output	62	31	20.7	15.5	12.4	10.3
Max Torque	1000	2000	3000	4000	5000	6000

1.7kW (2.3HP) max

Net Weight: 115 kg

Net Weight: 140 L x 14

Frame: 140 L x 14, 16

Options/Comments: PCB driver available; Mechanical grease operator

Frame Mount: 16 frame

Input: 140L, 160L, 180L, 200L, 220L —



W450000 GEARED GEARBOX

MAX. 100 HP at 2000RPM

Output Speed: 1000-2000RPM

Ratio	1:1	2:1	3:1	4:1	5:1	6:1
Max Output	100	50	33.3	25	20	16.7
Max Torque	1000	2000	3000	4000	5000	6000

1.7kW (2.3HP) max

Net Weight: 140 kg

Net Weight: 140 L x 14

Frame: 140 L x 14, 16

Options/Comments: PCB driver available; Mechanical grease operator

Frame Mount: 16 frame

Input: 140L, 160L, 180L, 200L, 220L —



ACT10M MARINE GEARBOX

102.5, 1.00 HP at 1500RPM

Engine Speed: 1500-2000 RPM

Size	1.00	1.25	1.50	1.75	2.00	2.25	2.50
Max. Torque	0.75	0.90	1.10	1.25	1.40	1.55	1.70

Locking: 1000/1200/1500/1700/2000

Net Weight: 100kg

Refueling: 10L (3.3)

Range: 12, 15, 18

Optional Coatings: Mechanical with Reinforcement coated

Construction: 413 steel

Engine: 4 Stroke Diesel Engine, 1000/1200/1500/1700/2000

Note: The "Max" with asterisk is not applicable coupling.



ACT15M MARINE GEARBOX

1.500 HP at 1500RPM

Engine Speed: 1500-2000 RPM

Size	1.50	1.75	2.00	2.25	2.50	2.75	3.00
Max. Torque	1.10	1.25	1.40	1.55	1.70	1.85	2.00

Locking: 1500/1700/2000/2200/2500

Net Weight: 150kg

Refueling: 15L (5.0)

Range: 12, 15, 18

Optional Coatings: Mechanical with Reinforcement coated

Construction: 413 steel

Engine: 4 Stroke Diesel Engine, 1500/1700/2000/2200/2500

Note: The "Max" with asterisk is not applicable coupling.



ACT20M MARINE GEARBOX

2.000 HP at 1500RPM

Engine Speed: 1500-2000 RPM

Size	2.00	2.25	2.50	2.75	3.00	3.25	3.50
Max. Torque	1.40	1.55	1.70	1.85	2.00	2.15	2.30

Locking: 2000/2200/2500/2700/3000

Net Weight: 200kg

Refueling: 20L (6.6)

Range: 12, 15, 18

Optional Coatings: Mechanical with Reinforcement coated

Construction: 413 steel

Engine: 4 Stroke Diesel



ACT30M MARINE GEARBOX

3.000 HP at 1500RPM

Engine Speed: 1500-2000 RPM

Size	3.00	3.25	3.50	3.75	4.00	4.25	4.50
Max. Torque	2.10	2.25	2.40	2.55	2.70	2.85	3.00

Locking: 3000/3200/3500/3700/4000

Net Weight: 300 kg

Optional Coatings: Electrical epoxy coated, Flaklike protection

Construction: Steel and aluminum alloy

Engine: 4 Stroke Diesel