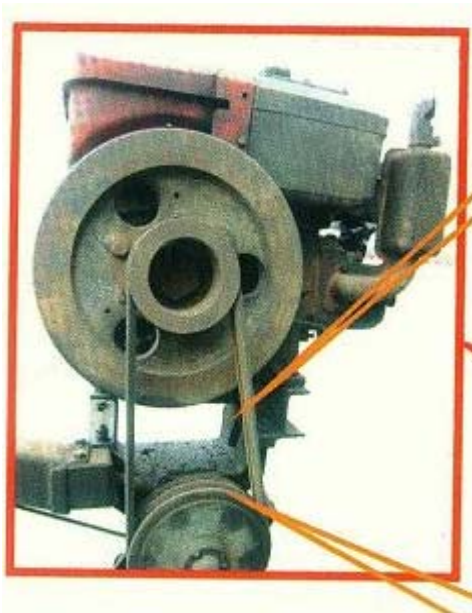


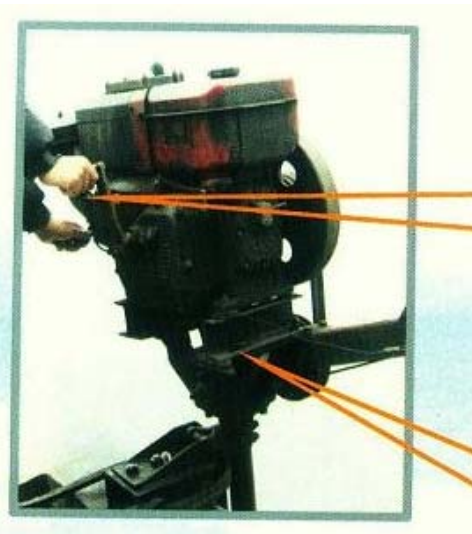
Disadvantages of old type diesel outboard engines:



1. Belt transmission: low efficiency, low safety level, high rate of power loss and fuel consumption

7. 30% higher fuel consumption and 50% lower sailing speed comparing with new type outboard engine of same capacity.

5. Dry clutch: bigger impact when shifting, noisy, easy mechanical damage.



3. Hand-cranked start: hard to start and easy to cause injuries.

6. Grease lubrication for transmission system: shorter service life for bearing and bevel gear.

4. Cast-iron body: heavy, bad performance of anti-erosion

2. Upper engine lower transmission layout: higher gravity and less boat stability.



Advancetages of New type diesel outboard motors



1. Shaft connection: high efficiency of transmission, high safety level, low power loss and fuel consumption.

7. New and unique design of appearance, 30% lower fuel consumption and 50% higher sailing speed comparing with the old type outboard engine of same capacity.

6. Gear oil for transmission lubrication: longer service life for bearing and bevel gear.



5. Multi-disc wet clutch: small impact when shifting, quiet, very few damage of mechanical parts

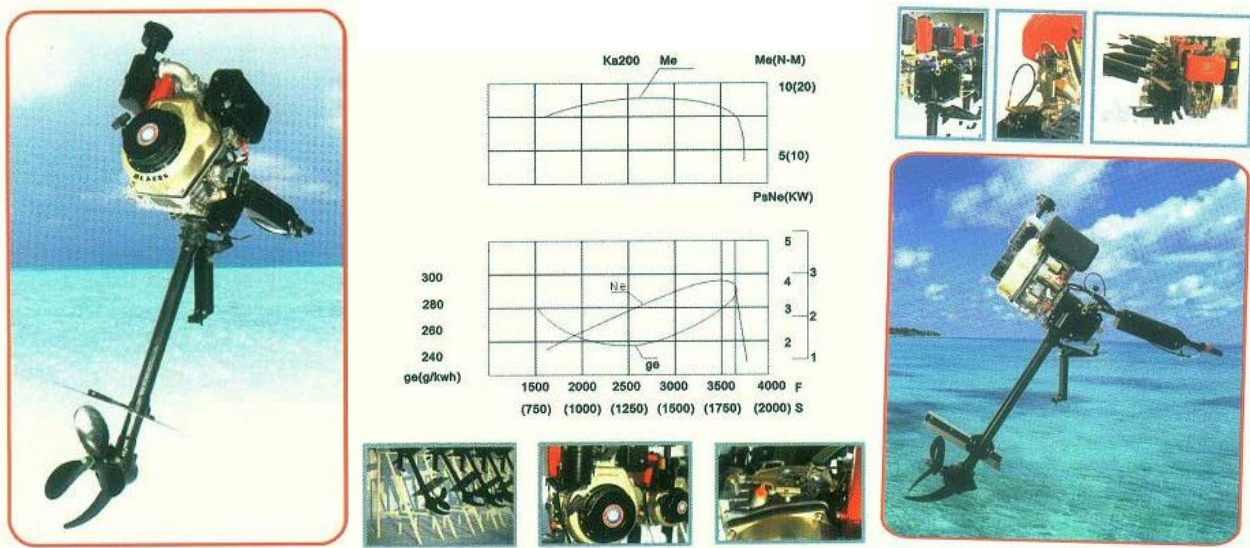
3. Electric start + hand start: one-button start, more comfortable and reliable.

4. Aluminum body: light weight and good performance of anti-erosion.

2. Horizontal connection of engine and transmission: lower gravity and higher boat stability.

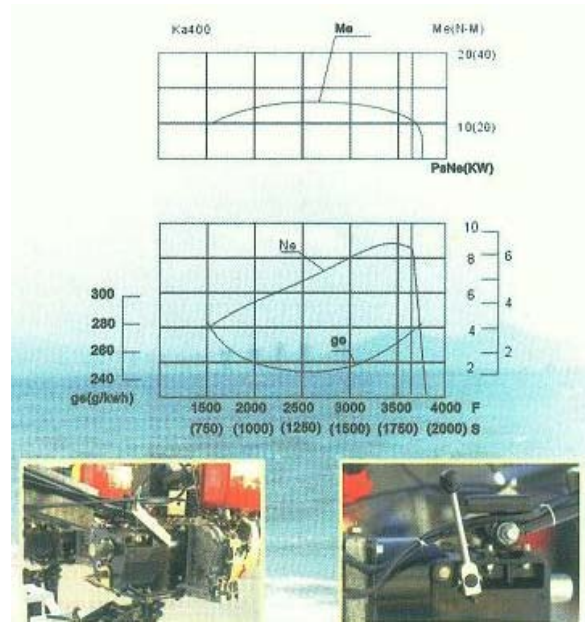


Diesel Outboard Engine/Motor Technical

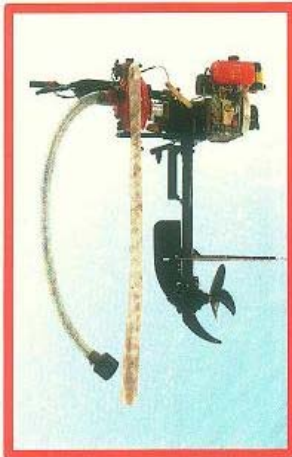


Item		Main Specification			
Model		7GX-3.1		7GX-4.4	
Diesel Engine type		Single cylinder, Vertical type, 4-stroke, air-cooled, Direct Injection			
Bore * Stroke (mm)		1-70*55		1-78*62	
Displacement(L)		0.211		0.296	
Rated speed of Output shaft		3000 / 1500	3600 / 1800	3000 / 1500	3600 / 1800
Power	Max (KW/Ps)	2.8kw (3.8ps)	3.1kw (4.2ps)	4kw (5.4ps)	4.4kw (6ps)
	Rated (KW/Ps)	2.5kw (3.4ps)	2.8kw (3.8ps)	3.7kw (5.0ps)	4kw (5.4ps)
Direction of Output Rotation		Anticlockwise (from the output side)			
Valve clearance (mm)		0.1 - 0.15 (cold position)			
Starting way		Recoil start (Electric Start)			
Fuel	Kgf/cm2 (Mpa)	220-230 (21.6-22.6)			
	Fuel supply advance ang	200±10			
	Fuel capacity (L)	2.5		3.5	
	Fuel Mark	# 0 (summer) or #-10 (winter)			
Oil	Method of Lubrication	Pressure Splash Compound			
	Engine Oil	SAE10W-30, Level CC above			
	Oil capacity (L)	1.65 L		1.1 L	
Engine size (L*W*H) (mm)		332 * 396 * 420		383 * 442 * 458	
Engine Net Weight (Kg)		≤ 25		≤ 33	
Machinery Net Weight (Kg)		≤ 55 / 58 / 61		≤ 69	
Speed of Impeller		> 1400 r/min			
Diameter of Impeller		340 mm		380 mm	
Transmission Fluid		Middle Duty Industrial Gear Oil HL-20			
Transmission capacity		3 L			

Diesel Outboard Engine/Motor Technical



Item		Main Specification			
Model		7GX-6.8		7GX-8.2	
Diesel Engine type		Single cylinder, Vertical type, 4-stroke, air-cooled, Direct Injection			
Bore * Stroke (mm)		1-86*72		1-88*75	
Displacement(L)		0.418		0.456	
Rated speed of Output shaft (rpm)		3000 / 1500	3600 / 1800	3000 / 1500	3600 / 1800
Power	Max (KW/Ps)	6.3kw (8.6ps)	6.8kw (9.3ps)	7.5kw (10.2ps)	8.2kw (11.2ps)
	Rated (KW/Ps)	5.7kw (7.8ps)	6.3kw (8.6ps)	7kw (9.5ps)	7.5kw (10.2ps)
Direction of Output Rotation		Anticlockwise (from the output side)			
Valve clearance (mm)		0.1 - 0.15 (cold position)			
Starting way		Recoil start (Electric Start)			
Fuel	Kgf/cm2 (Mpa)	220-230 (21.6-22.6)			
	Fuel supply advance ang	200±10			
	Fuel capacity (L)	5.5		5.5	
	Fuel Mark	# 0 (summer) or #-10 (winter)			
Oil	Method of Lubrication	Pressure Splash Compound			
	Engine Oil	SAE10W-30, Level CC above			
	Oil capacity (L)	1.65 L		1.65 L	
Engine size (L*W*H) (mm)		418 * 465 * 495		418 * 465 * 495	
Engine Net Weight (Kg)		≤ 48		≤ 48	
Machinery Net Weight (Kg)		≤ 78 / 81 / 84		≤ 84	
Speed of Impeller		> 1400 r/min			
Diameter of Impeller		380 mm		380 mm	
Transmission Fluid		Middle Duty Industrial Gear Oil HL-20			
Transmission capacity		3 L			



抽水功能

Functions of water pump



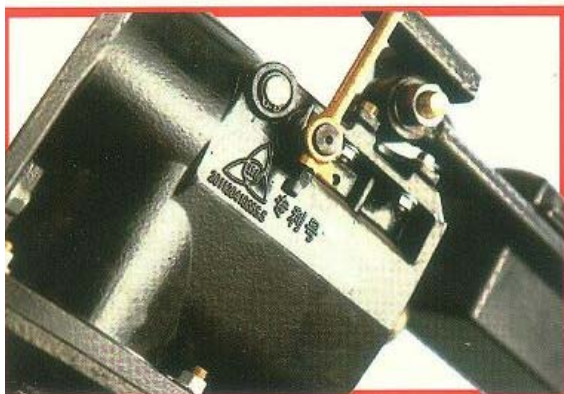
发电功能

Function of power generation



防绞杂物功能

Function of anti-binding sundry



专利号

Patent number