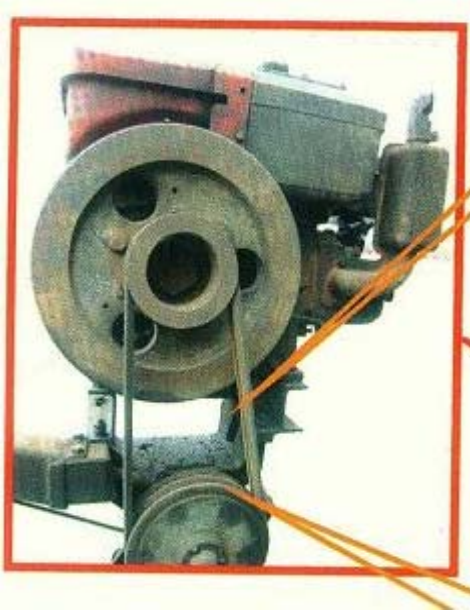


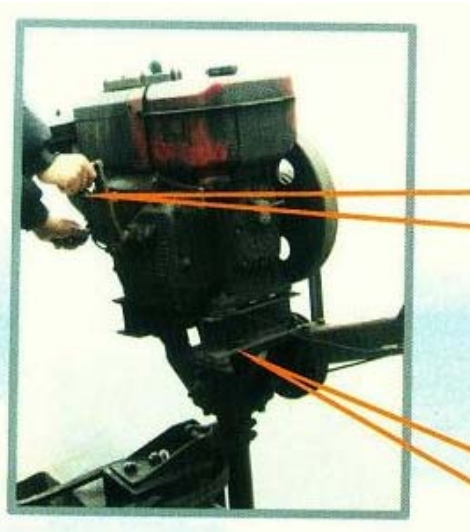
Disadvantages of old type outboard engines:



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.

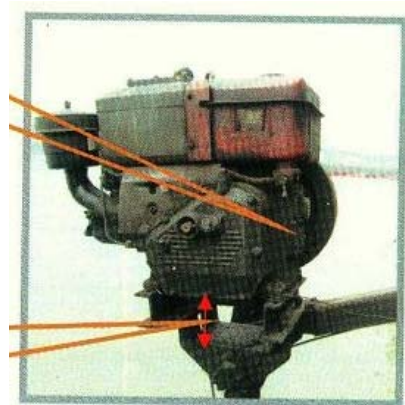


3. Hand-cranked start: hard to start and easy to cause injuries.

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

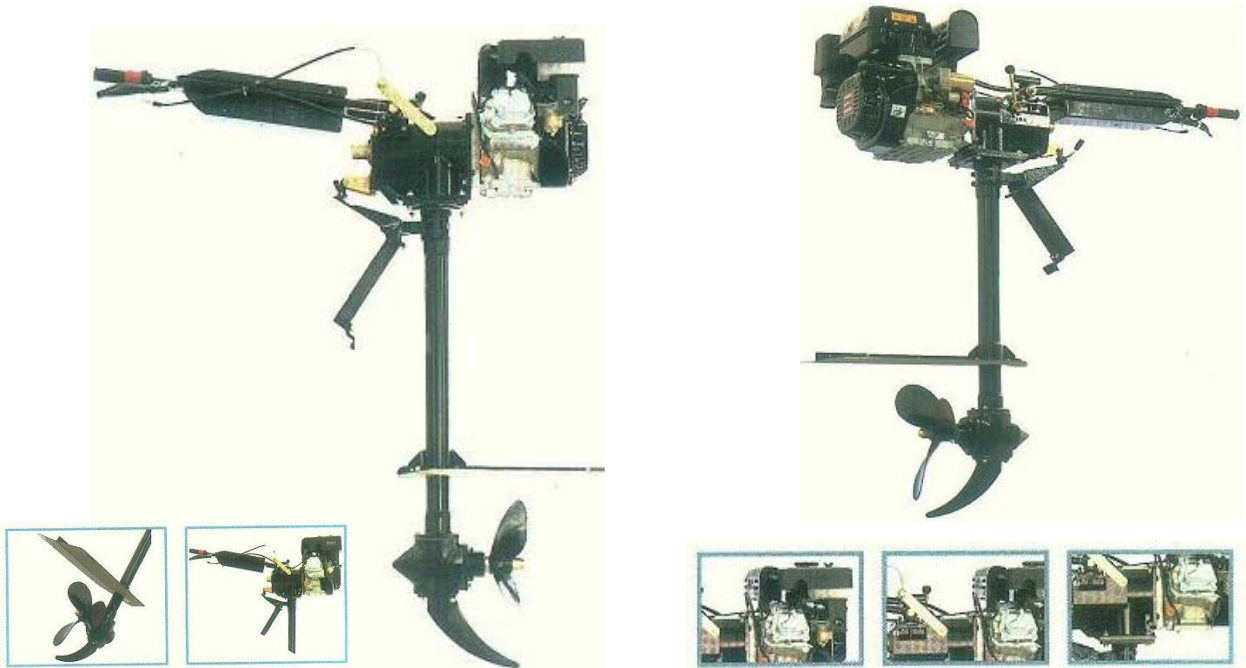
3. Electric start + hand start: one-button start, more comfortable and reliable.

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

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

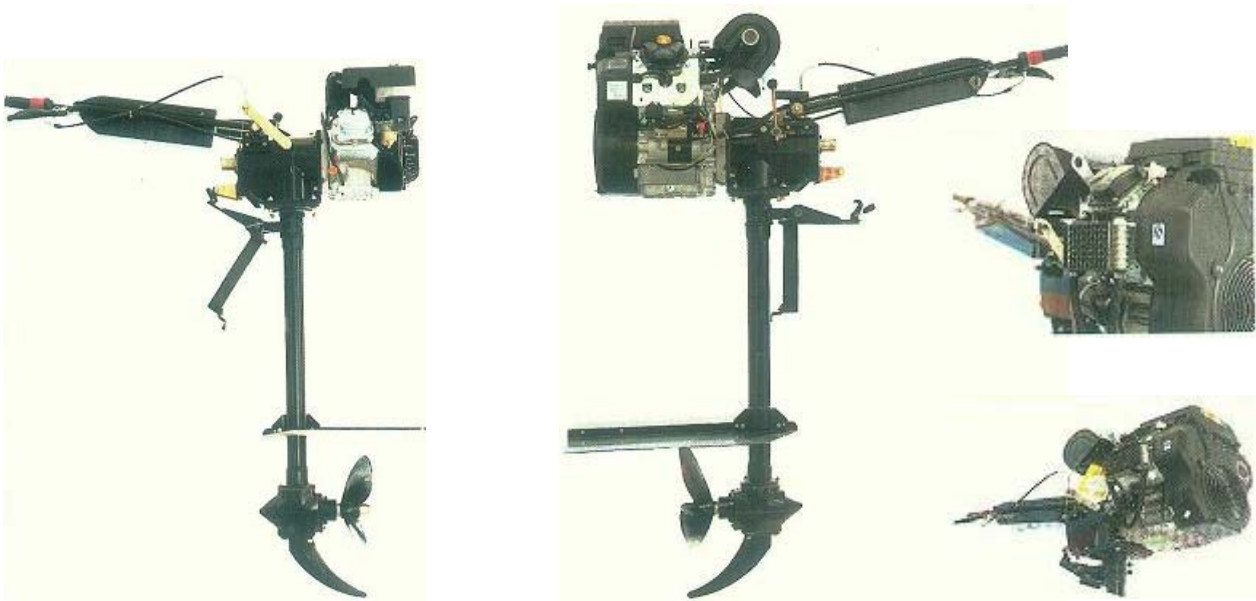


Gasoline Outboard Engine/Motor Technical

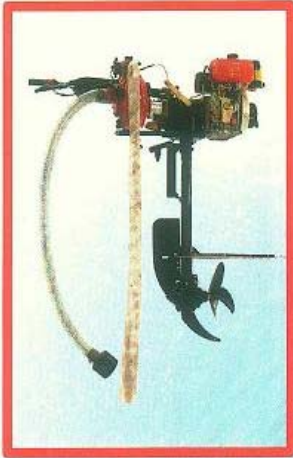


Item	Main Specification			
	7GX-4	7GX-4.4	7GX-5.3	7GX-6.2
Model	7GX-4	7GX-4.4	7GX-5.3	7GX-6.2
Diesel Engine type	Single cylinder, horizontal type, 4-stroke, air-cooled, OHV			
Bore * Stroke (mm)	65*55	70*55	70*60	80*60
Displacement(L)	0.183	0.212	0.265	0.302
Rated speed of Output shaft	1560r/min			
Max torque (N.m/rpm)	10.8 /2500rpm	12.5 /2500rpm	15.5 /2500rpm	18.5 /2500rpm
Fuel consumption (g/kw.h)	≤395			
Rated power(KW/Ps)	4kw (5.4ps)	4.4kw (6ps)	5.3kw (7.2ps)	6.2kw (8.4ps)
Direction of Output Rotation	Anticlockwise (from the output side)			
Valve clearance (mm)	Intake: 0.1-0.15mm; Exhaust: 0.15-0.20mm			
Starting way	Recoil start (Electric Start)			
Fuel capacity (L)	3.0L		4.6L	
Fuel Mark	#93			
Method of Lubrication	Pressure Splash Compound			
Engine Oil	SAE10W-30, Level CC above			
Oil capacity (L)	0.6 L		0.95 L	
Engine size (L*W*H) (mm)	330 * 375 * 336		380 * 430 * 415	
Engine Net Weight (Kg)	≤ 15	≤ 16	≤ 25	≤ 26
Machinery Net Weight (Kg)	≤ 51	≤ 52	≤ 61	≤ 62
Speed of Impeller	1560 r/min			
Diameter of Impeller	350 mm		360 mm	
Transmission Fluid	Middle Duty Industrial Gear Oil HL-20			
Transmission capacity	3 L			
Applicable scope	3-5 meter ship	4-6 meter ship	5-7 meter ship	6-8 meter ship

Gasoline Outboard Engine/Motor Technical

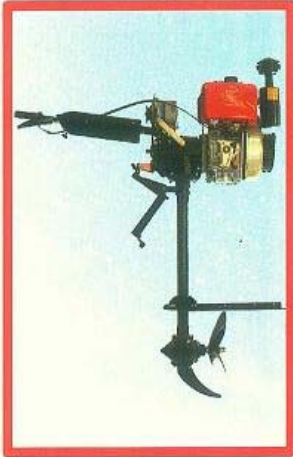


Item	Main Specification		
Model	7GX-7.8	7GX-9.0	7GX-14.7
Diesel Engine type	Single cylinder, horizontal type, 4-stroke, air-cooled, OHV		V-Double cylinders
Bore * Stroke (mm)	85*66	90*60	78*71
Displacement(L)	0.375	0.42	0.678
Rated speed of Output shaft	1560r/min		
Max torque (N.m/rpm)	23.2 /2500rpm	26.5 /2500rpm	43.5 /2500rpm
Fuel consumption (g/kw.h)	≤395		≤360
Rated power(KW/Ps)	7.8kw (10.6ps)	9.0kw (12ps)	14.7kw (20ps)
Direction of Output Rotation	Anticlockwise (from the output side)		
Valve clearance (mm)	Intake: 0.1-0.15mm; Exhaust: 0.15-0.20mm		
Starting way	Recoil start (Electric Start)		
Fuel capacity (L)	6.0L		22L
Fuel Mark	#93		#90
Method of Lubrication	Pressure Splash Compound		
Engine Oil	SAE10W-30, Level CC above		
Oil capacity (L)	1.1 L		1.5 L
Engine size (L*W*H) (mm)	405 * 450 * 443		455 * 400 * 450
Engine Net Weight (Kg)	≤ 31.5	≤ 32	≤ 45
Machinery Net Weight (Kg)	≤ 68	≤ 68	≤ 81
Speed of Impeller	1560 r/min		
Diameter of Impeller	370 mm		380 mm
Transmission Fluid	Middle Duty Industrial Gear Oil HL-20		
Transmission capacity	3 L		
Applicable scope	6-8 meter ship	6-10 meter ship	8-14 meter ship



抽水功能

Functions of water pump



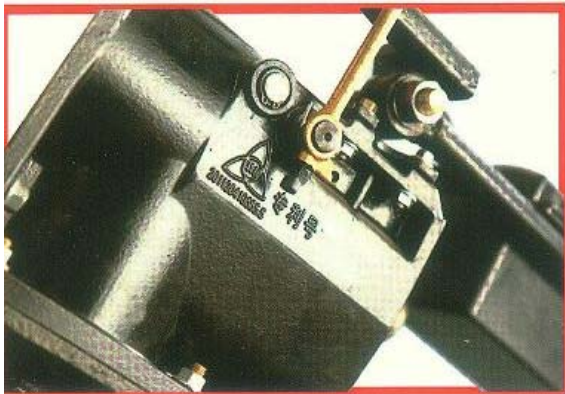
发电功能

Function of power generation



防绞杂物功能

Function of anti-binding sundry



专利号

Patent number