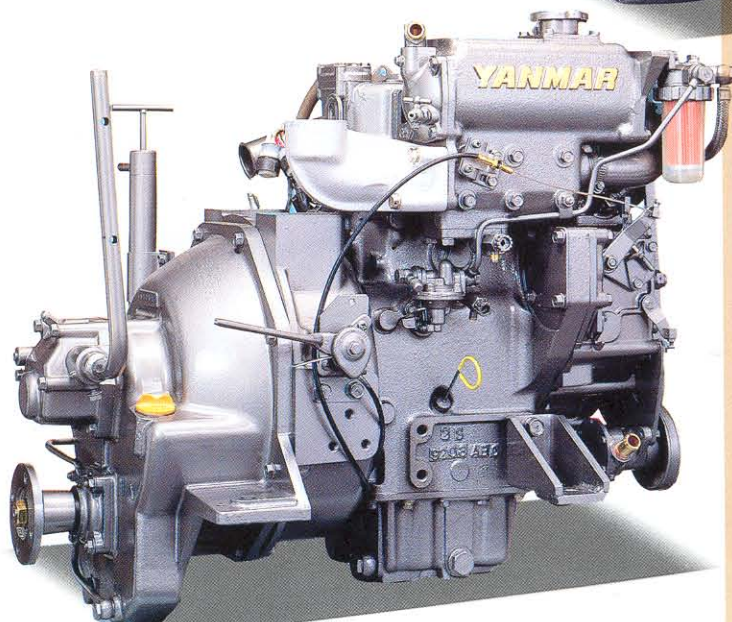
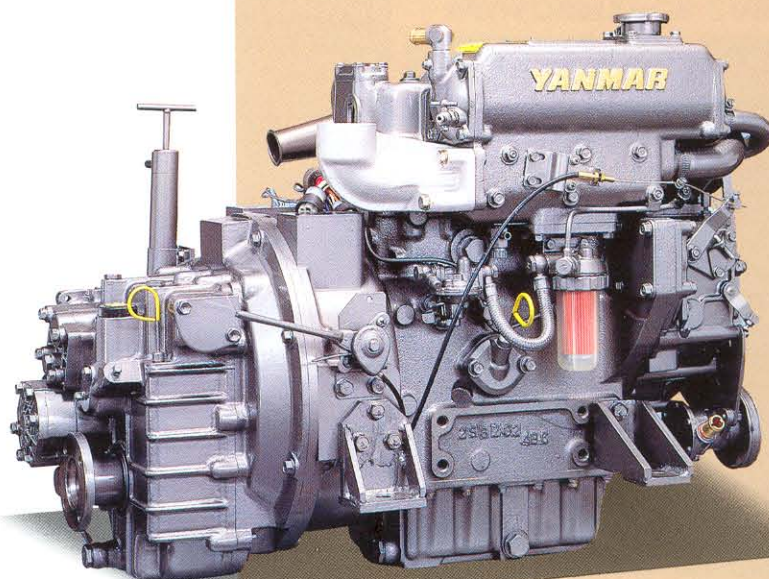


MARINE DIESEL ENGINES

2GMFY/3GMFY
12~19.8hp(8.8~14.6kW)

YANMAR



Photograph may show optional equipment.

These fighting featherweights put savings on the line

Lightweight & Compact

Features outstanding compactness for the most effective use of engine room space through thoroughgoing efforts to reduce engine dimensions and weight. This high-speed, lightweight engine is faster as well.

Superb Fuel-Economy with Special Swirl Chamber

Yanmar's unique swirl pre-combustion chamber gives the better combustion for higher fuel economy.

Outstanding durability and Reliability

Durable with joint sea and fresh-water cooling to prevent the seawater from coming in direct contact with the engine. The constant fresh water cooling system also keeps the cooling

water temperature at a constant level, so there is less wear of the cylinder liners, rings and other parts.

Low Vibrations and Low Noise

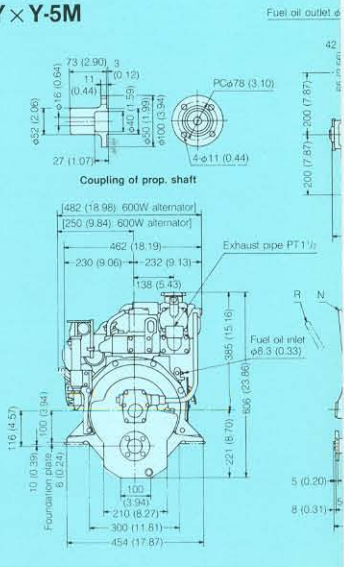
The intake and exhaust noise are effectively reduced by the intake silencer and water-cooled manifold. Vibrations caused by reciprocation are also minimised by comprehensive weight reduction and balance adjustment.

Precise Choice of Marine Gear for Desired Application

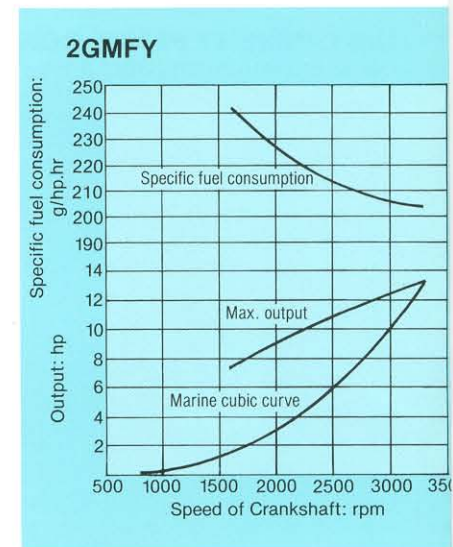
Both wet type, single plate mechanical clutches and the hydraulic clutches are available. Choose the best kind for your job. (hydraulic type is available for 3GMFY.)

DIMENSIONS

2GMFY × Y-5M



PERFORMANCE CURVES



SPECIFICATIONS

Model		2GMFY		3GMFY		
Type		4-cycle, vertical, diesel engine				
Number of cylinders		2		3		
Bore × Stroke		mm (inch) 72 × 72 (2.83 × 2.83)				
Displacement		ℓ (cu inch) 0.586 (35.75)		0.879 (53.62)		
Out put	Cont. hp/rpm	12/3200		18/3200		
	Max. hp/rpm	13.2/3300		19.8/3300		
Marine Gear *1 (Forward)	Y-5M (M)	2.10	3.04	2.10	3.04	
	YX-6 (H)	—	—	2.03	2.55	2.96
Propeller shaft speed (at cont. rating) rpm	Y-5M (M)	1524	1051	1524	1051	
	YX-6 (H)	—	—	1577	1254	1081
Direction of rotation	Crank shaft	Counterclockwise (viewed from stern)				
	Propeller shaft	Clockwise (viewed from stern)				
Compression ratio		23.0:1				
Combustion system		Special swirl precombustion chamber				
Lubrication system		Forced lubrication by trochoid pump				
Cooling system		Indirect cooling system				
Starting system		Electric motor				
Dry weight*2		kg 155		176 (170)		

*1. Y-5M: Mechanical type, YX-6: Hydraulic multi-disc clutch, wet type. *2. (): YX-6

ACCESSORIES

Standard: ○ Optional: ▲

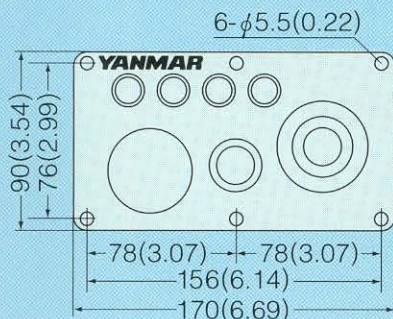
	Item	2GMFY/3GMFY	Detail
Fuel oil	Full tank	▲	30lit.
	Full filter	○	Paper element
	Water separator	▲	
	Fuel feed pump	○	
	Fuel oil pipe	○	Rubber 4m × 1
Lubrication oil	Evacuation pump	○	Cylinder type
	Drain pipe (for engine, marine gear)	○	
	L.O. pressure switch	○	
	L.O. filter	○	Paper element
Cooling	Raw water pump	○	Rubber impeller
	Fresh water pump	○	Centrifugal type
	Heat exchanger	○	
	Fresh water sub-tank	○	
	Thermostat	○	
	Kingston cock with C.W. hose & strainer	○	Rubber 2m × 2
Raw water filter		▲	
		○	
Bilge	Bilge pump with hose & strainer	○	
		○	
Air intake & exhaust	Intake silencer	○	
	Manifold (water cooled)	○	
	Exhaust bend	○	
	Mixing elbow (U-type)	▲	

	Item	2GMFY/3GMFY	Detail
Air intake & exhaust	Exhaust silencer	▲	40A
	Exhaust pipe	○	40A × 1000mm
Starting	Starting motor	○	
	Charging alternator	○	12V-35A
Instrument panel	Instrument panel (A-type)	○	
	Instrument panel (B-type)	▲	
	Battery switch	○	
	Wireharness, extension	○	3m
Control device	Engine regulating lever with boden wire 1.5m	▲	for Y-5M clutch only
	Push-pull type (3 × 4m)	▲	for YX-6 clutch only
	Remote control head (2-handle type)	▲	for YX-6 clutch only
	Engine stop wire (3m)	○	
Installation	Half coupling	○	Straight, w/16 bottom hole
	Mounting plate & shim	○	
	Foundation bolt	○	
Others	Tool	○	
	Special tool	▲	
	Spare parts	▲	
	Operation manual	○	
	Packing kit	▲	

INSTRUMENT PANEL CONTAINS FOLLOWING ITEMS

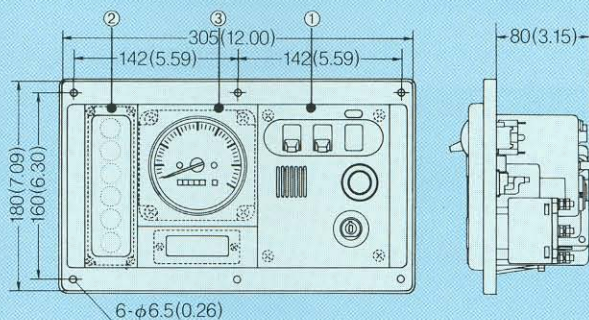
Detail of instrument panel A-type

Unit: mm (in.)



- Key switch
- Push button switch for starting
- Alarm buzzer (C.W. high temp., L.O. low pressure)
- Alarm lamps (Battery not charging, C.W. high temp., L.O. low pressure)

Detail of instrument panel B-type



- ① **Switch unit**
 - Key switch
 - Alarm buzzer
 - Alarm buzzer stop switch
 - Illumination switch
- ② **Alarm lamp unit**
 - Battery not charging
 - C.W. high temp.
 - L.O. low pressure
 - C.W. level
 - L.O. filter clogged
- ③ **Tachometer unit**
 - Tachometer with hour meter

Note: All data subject to alteration without notice.

YANMAR DIESEL ENGINE CO., LTD.



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