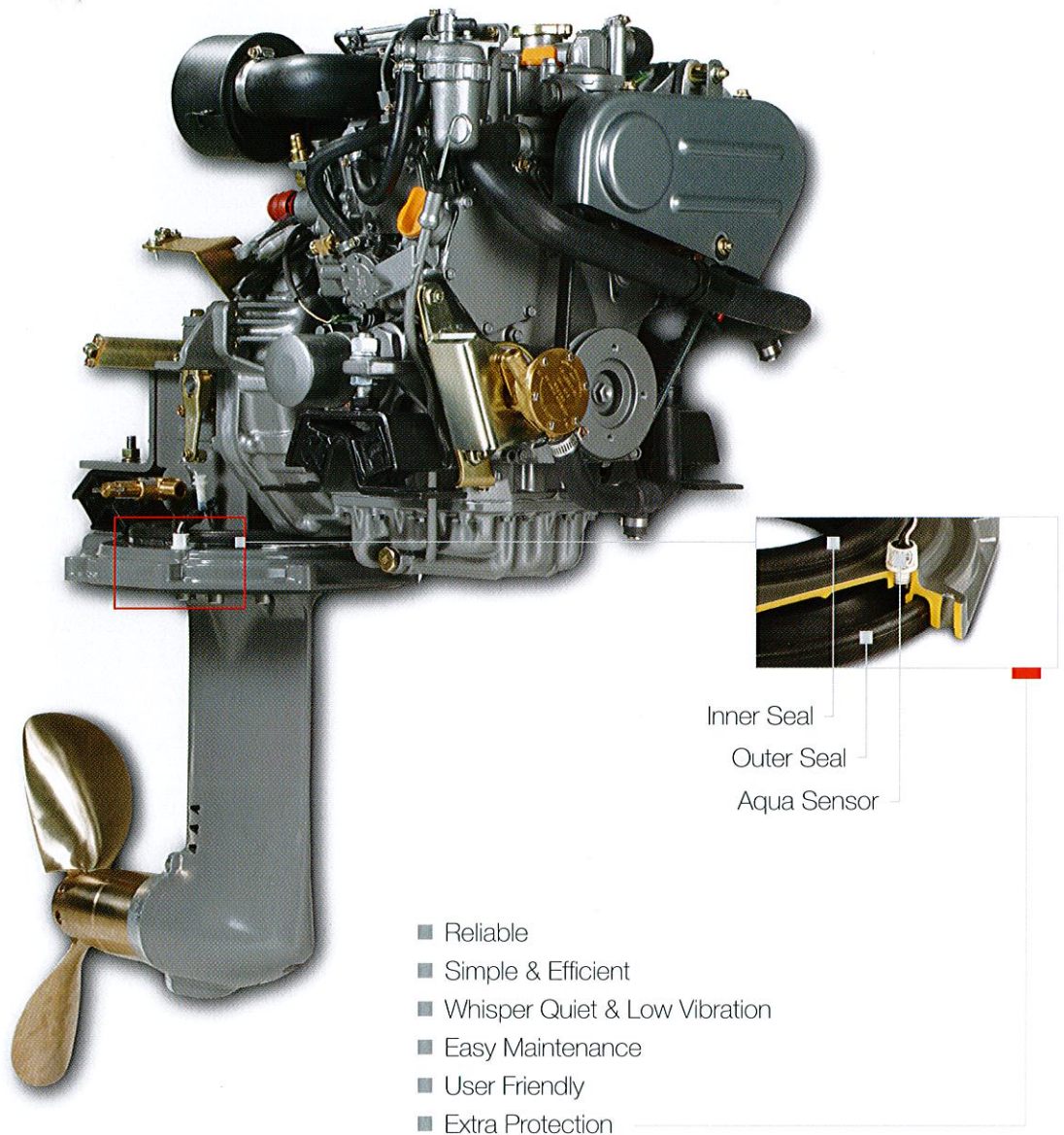
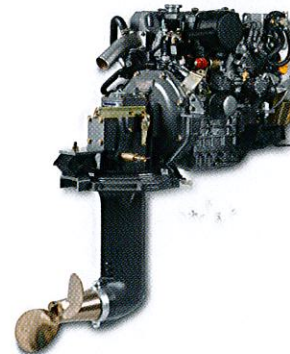
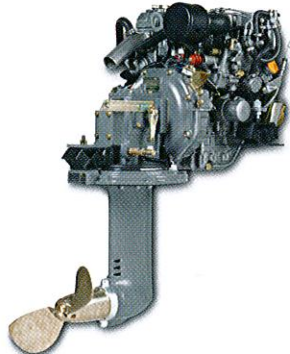
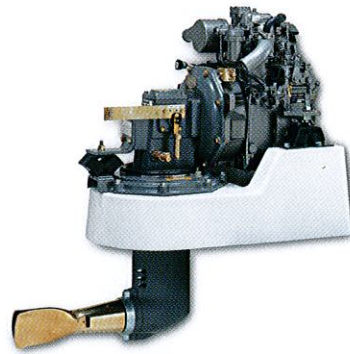


Yanmar Saildrive SD20

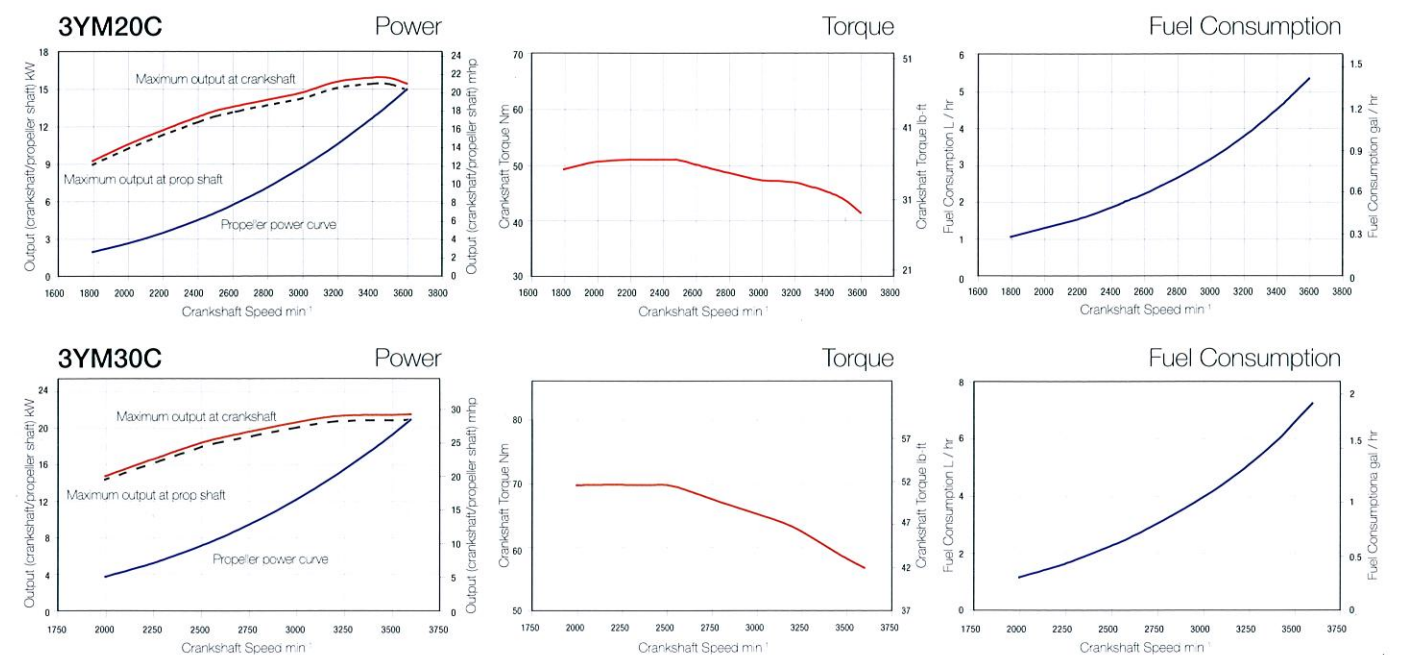
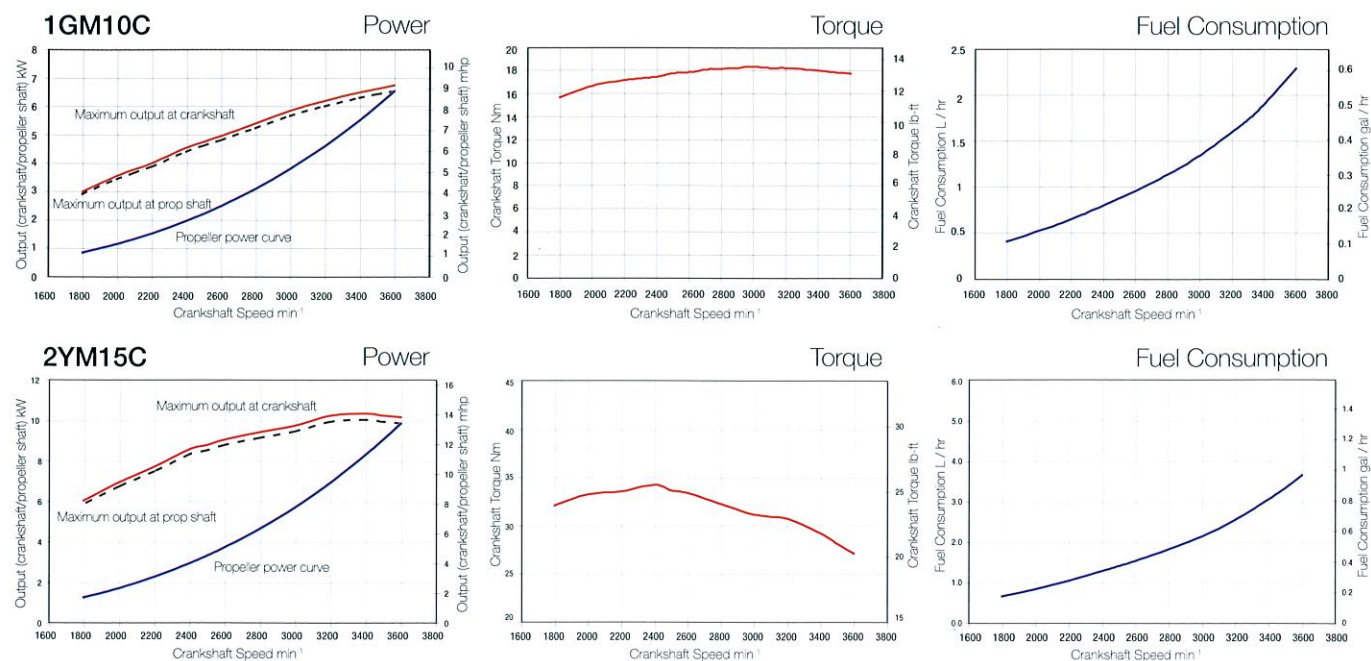


Yanmar Saildrive Type	SD20
Reduction gear system	Constant mesh gear with dog clutch
Reduction ratio (fwd / asn)	2.64/2.64
Propeller speed (fwd / asn)	1364/1364
Direction of rotation (propeller shaft - fwd)	Counter clockwise viewed from flywheel side
Dry weight Saildrive	30 kg (66 lbs)

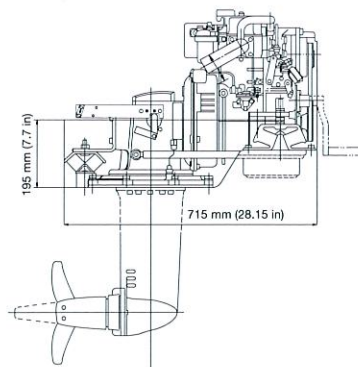
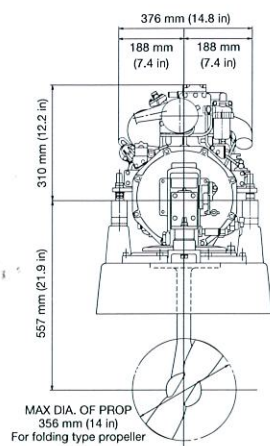


Engine Model	1GM10C x SD20	2YM15C x SD20	3YM20C x SD20	3YM30C x SD20
Configuration	4-stroke, vertical, water cooled diesel engine	4-stroke, vertical, water cooled diesel engine	4-stroke, vertical, water cooled diesel engine	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 6.6 kW (9 mhp) / 3600 rpm	* 10.0 kW (13.6 mhp) / 3600 rpm	* 15.3 kW (21 mhp) / 3600 rpm	* 21.3 kW (29.1 mhp) / 3600 rpm
Continuous rating output at crankshaft	5.9 kW (8 mhp) / 3400 rpm	9.4 kW (12.8 mhp) / 3489 rpm	14.7 kW (20 mhp) / 3489 rpm	20.1 kW (27.3 mhp) / 3489 rpm
Displacement	0.318 L (19.41 cu in)	0.57 L (34.7 cu in)	0.854 L (52.1 cu in)	1.115 L (68 cu in)
Bore x stroke	75 mm x 72 mm (2.95 in x 2.83 in)	70 mm x 74 mm (2.8 in x 2.9 in)	70 mm x 74 mm (2.8 in x 2.9 in)	76 mm x 82 mm (2.9 in x 3.2 in)
Cylinders	1	2	3	3
Combustion system	Indirect injection	Indirect injection	Indirect injection	Indirect injection
Aspiration	Natural aspiration	Natural aspiration	Natural aspiration	Natural aspiration
Starting system	Electric starting with manual combination	Electric starting 12 V - 1.4 kW	Electric starting 12 V - 1.4 kW	Electric starting 12 V - 1.4 kW
Alternator	12 V - 35 A	12 V - 60 A (80 A optional)	12 V - 60 A (80 A optional)	12 V - 60 A (80 A optional)
Cooling system	Seawater cooling	Fresh water cooling	Fresh water cooling	Fresh water cooling
Lubrication system	Enclosed, forced lubricating system	Enclosed, forced lubricating system	Enclosed, forced lubricating system	Enclosed, forced lubricating system
Lubrication oil for Saildrive	API CC and SAE 10W30	API GL4 or GL5 and SAE 80W90 or 90	API GL4 or GL5 and SAE 80W90 or 90	API GL4 or GL5 and SAE 80W90 or 90
Direction of rotation (propeller)	Counter clockwise viewed from flywheel side	Counter clockwise viewed from flywheel side	Counter clockwise viewed from flywheel side	Counter clockwise viewed from flywheel side
Dry weight with Saildrive	104 kg (229 lbs)	134 kg (295 lbs)	151 kg (333 lbs)	157 kg (346 lbs)
Environmental	EU RCD, BSO II & EMC	EU RCD, BSO II & EMC	EU RCD, BSO II & EMC	EU RCD, BSO II & EMC
Engine mounting	Rubber type flexible mounts	Rubber type flexible mounts	Rubber type flexible mounts	Rubber type flexible mounts

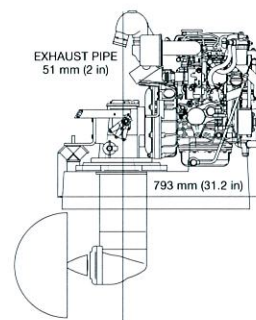
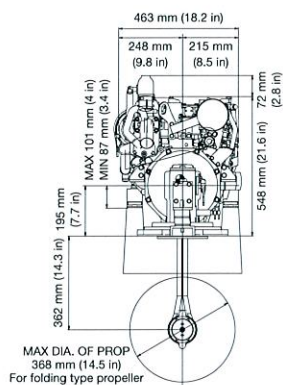
NOTE: Fuel condition: Density at 15°C = 0.84 g/cm³; 1kW = 1.3596 mhp = 1.3410 HP
 * Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)
 Technical data is according to ISO 8665 / 3046



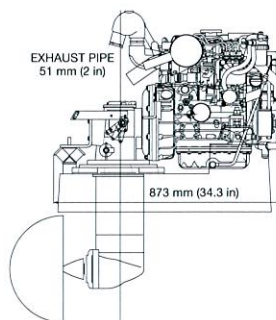
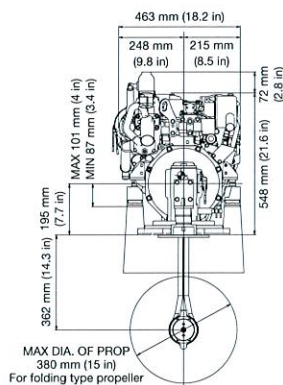
1GM10C



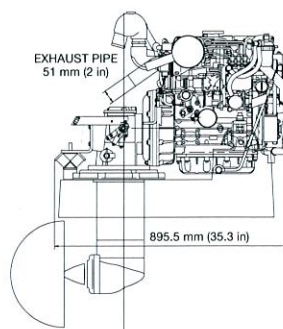
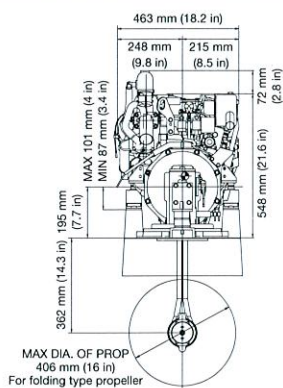
2YM15C



3YM20C



3YM30C



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