



Diesel Engines 20V 4000 M93/M93L

For Fast Vessels with Low Load
Factors (1DS)

Engine Type	20V4000 M93	
Rated power ICFN	3900 kW	5230 bhp
Speed	2100 rpm	
Number of cylinders	20	
Bore mm - in	170 mm	6.7 in
Stroke mm - in	190 mm	7.5 in
Displacement, total I : cu - in	86.2 cu	5260 in
Flywheel housing	SAE 00	
Gearbox type **	ZF 9055	
Optimization of exhaust emissions *	IMO II/EPA 2	
Fuel consumption at rated power	213 g/kWh	
	982.0 l/h	
	259.5 gal/h	

** Gearbox variants "Down Angle A" and "V-Drive" available on request

Engine Dimensions

20V4000 M93

Dimensions (L x W x H) mm - in	4015 x 1470 x 2440 mm	158.1 x 57.8 x 96.1 in
Dry weight kg - lbs	12080 kg	26631 lbs

20V4000 M93 - with gearbox type

Dimensions (L x W x H) mm - in	5720 x 1470 x 2440 mm	225.2 x 57.8 x 96.1 in
Dry weight kg - lbs	14785 kg	32595 lbs

Engine Type **20V4000 M93L**

Rated power ICFN	4300 kW	5766 bhp
Speed	2100 rpm	
Number of cylinders	20	
Bore mm - in	170 mm	6.7 in
Stroke mm - in	190 mm	7.5 in
Displacement, total I : cu - in	86.2 cu	5260 in
Flywheel housing	SAE 00	
Gearbox type **	ZF 23 560 C	
Optimization of exhaust emissions *	IMO II/EPA 2	

Fuel consumption at rated power 220 g/kWh
1103.0 l/h
291.5 gal/h

** Gearbox variants "Down Angle A" and "V-Drive" available on request

Engine dimensions

20V4000 M93L

Dimensions (L x W x H) mm - in	4015 x 1470 x 2440 mm	158.1 x 57.8 x 96.1 in
Dry weight kg - lbs	12080 kg	26631 lbs

20V4000 M93L - with gearbox type

Dimensions (L x W x H) mm - in	5720 x 1470 x 2440 mm	225.2 x 57.8 x 96.1 in
Dry weight kg - lbs	14785 kg	32595 lbs

* IMO - International Maritime Organization (MARPOL)
EPA - US marine directive 40 CFR 94