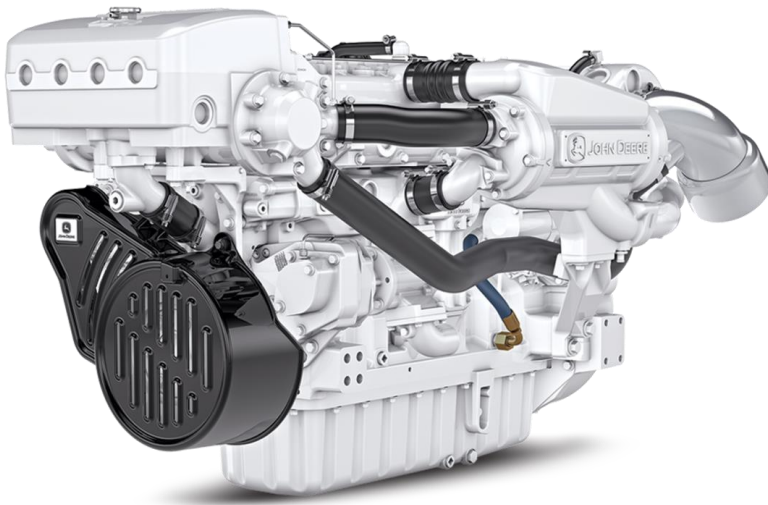




# JOHN DEERE

## 6090SFM85 M5 Marine Diesel



Hästkrafter / kW: 550hk / 410kW  
 Max rpm: 2500  
 Konfiguration: Rak 6cyl, 9L  
 Borrning och slag: mm 118 x 136  
 Aspiration Turbo - intercooler  
 Laddluftkylare  
 Max längd: mm 1712  
 Längd till baksidan av sprängkåpa: mm 1415  
 Sprängkåpa: SAE 2  
 Höjd: mm 983  
 Höjd, vevaxelns mittlinje till topp: mm 664  
 Höjd, vevaxelns mittlinje till botten: mm 319  
 Vikt, torr: kg 1056

### Pris: 452.900:- inkl. moms (se spec. nr: C254753)

John Deere motorer är tillförlitliga, tysta, bränslesnåla och ger utmärkt manövreringsförmåga tack vare högt vridmoment redan från låga varvtal.

John Deere har sedan 1949 tillverkat över 5 miljoner dieselmotorer för marin och offroad applikationer.

Motorerna levereras skräddarsydda med flera valmöjligheter för elsystem, generatorstorlek, svänghjulsåpa, kylningstyp och placering av servicepunkter.

Sortimentet på John Deere 6090 sträcker sig från 285 hk till 550hk.

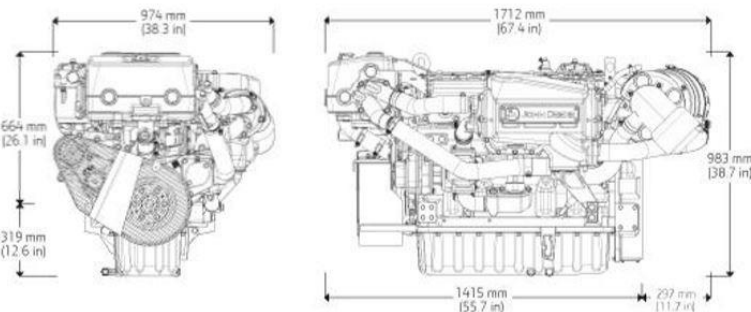
Tillförlitlig kraft och säkerhet för tuffa krav får du om du väljer John Deere.

### Produktinfo:

- M1 rating obegränsat årligt användande
- SAE 2 housing and SAE 11 1/2" disc
- Motorfästen
- Motorkudde 4st PC-182, 55 Sh
- Instrument panel (Generation II Marine Electronics)
- Kablage ECU till instrumentpanel, 9m (Gen II M. E.)
- Kablage Motor till ECU, 3 ft (1M) (Gen II M. E.)
- Kickback Start and Transfer Pump Relay, 12-volt
- 12V
- Blöta avgaser med värmeväxlare

### Tillval & tillbehör:

Backslag Dong-I DMT 190H pleasure duty 1.83, 2.09, 2.51, 3.08 & 3.43:1	123.900:-
Bowman oljekyl (för backslag) 24v & 2polig el	11.000:- 1.200:-
Torra avgaser (istället för blöta)	- 11.240:-
Motorolja 20L JD Plus II 15W-40	1.700:-
Kylarvätska 20L Cool-Gard II PG 20 I, färdigbl.	1.830:-
Oljefilter	300:-
Bränslefilter kit (primary and final filter 2 & 10mic	1.150:-
Impellerkit	2.020:-
Zinkanod + plugg	266:-



Dimensions shown in mm (in) may vary according to options selected. Contact your distributor for more information.

# Diesel Power AB

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SE-434 39 Kungsbacka

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## General Data

Model	6090SFM85		
Number of Cylinders	6		
Bore	118.4 mm	4.66 in	
Stroke	136 mm	5.35 in	
Displacement	9.0 L	549 in <sup>3</sup>	
Compression Ratio	16.3:1		
Valves per Cylinder, Intake/Exhaust	2/2		
Combustion System	Direct injection		
Firing Order	1-5-3-6-2-4		
Engine Type	In line, 4 Cycle		
Aspiration	Turbocharged and Aftercooled		
Aftercooling System	Seawater cooled		
Engine Crankcase Vent System	Closed		

## Cooling System\*

Jacket Water Heat Rejection**	309.6 kW	17622 BTU/min
Aftercooler Heat Rejection	116 kW	6603 BTU/min
Coolant Flow	417 L/min	110 gal/min
Min. Coolant Pump Inlet Pressure	30.3 kPa	4.4 psi
Thermostat Start to Open	82 °C	180 °F
Thermostat Fully Open	94 °C	202 °F
Engine Coolant Capacity, HE	38 L	10 gal
Min. Coolant Fill Rate	12 L/min	3.2 gal/min
Min. Pressure Cap	110.3 kPa	16 psi
Max. External Coolant Restriction	40 kPa	5.8 psi
Normal Operation Max Top Tank Temperature	100 °C	212 °F
≤ 5% of Total Operating Time Top Tank Temperature	100-110 °C	212-230 °F
Absolute Max Top Tank Temperature	110 °C	230 °F
Recommended Fuel Cooler	2.9 kW	166 BTU/min
Engine Radiated Heat	55 kW	3129 BTU/min

## Fuel System

ECU Description	L14		
Fuel Injection Pump	HPCR		
Governor Type	Electronic		
Volumetric Fuel Consumption	110 L/hr	28.9 gal/hr	
Mass Fuel Consumption	93.1 kg/hr	205 lb/hr	
Total Fuel Volumetric Flow	251 L/hr	66.3 gal/hr	
Total Fuel Mass Flow	213 kg/hr	470 lb/hr	
Max. Fuel Inlet Restriction*	20 kPa	80 in.H2O	
Max. Fuel Inlet Pressure	20 kPa	80 in.H2O	
Max Fuel Return Pressure	20 kPa	80 in.H2O	
Normal Operation Fuel Temperature	40 °C	104 °F	
Max. Fuel Inlet Temperature	100 °C	212 °F	
Min. Recommended Fuel Line Inside Diameter	8.53 mm	0.34 in	
Min. Recommended Fuel Line Size	6 (-) AN		
Primary Fuel Filter	10 mic		
Secondary Fuel Filter	2 mic		

## Lubrication System

Oil Pressure at Rated Speed	270 kPa	39 psi
Oil Pressure at Low Idle (650rpm)**	145 kPa	21 psi
Max. Crankcase Pressure	2 kPa	8 in.H2O
Maximum Installed Angle, Front Down	0 deg	
Maximum Installed Angle, Front Up	12 deg	
Engine Angularity Limits Any Direction, Continuous***	20 deg	
Engine Angularity Limits Any Direction, Intermittent***	30 deg	

## Seawater Pump System

Seawater Pump Flow	375 L/min	99 gal/min
Max. Suction Lift	3 m	9.8 ft
Max. Outlet Pressure	140 kPa	20 psi
Max. Inlet Restriction	30 kPa	4 psi

## Physical Data

Length to rear face of block	1297 mm	51.1 in
Length to rear face of flywheel housing (SAE #2)	1415 mm	55.7 in
Length maximum	1712 mm	67.4 in
Width maximum	974 mm	38.3 in
Height, crank centerline to top	664 mm	26.1 in
Height, crank centerline to bottom	319 mm	12.6 in
Weight, with oil, no coolant (includes engine, flywheel housing, flywheel, and electronics)	1056 kg	2327 lb
Center of Gravity Location, X-axis From Rear Face of Block	408 mm	16.1 in
Center of Gravity Location, Y-axis Right of Crankshaft	-38 mm	-1.5 in
Center of Gravity Location, Z-axis Above Crankshaft	200 mm	7.9 in
Max. Allowable Static Bending Moment At Rear Face of Flywheel Housing (for installations up to 5-G)	814 Nm	600 lb-ft
Thrust Bearing Load Limit, Forward Continuous	8.6 kN	1933 lbf
Thrust Bearing Load Limit, Forward Intermittent	13 kN	2923 lbf
Thrust Bearing Load Limit, Rearward Continuous	4 kN	899 lbf
Thrust Bearing Load Limit, Rearward Intermittent	6 kN	1349 lbf

## Electrical System

Min. Recommended Battery Capacity, 12V @32 °F (0 °C)	1100 amps
Min. Recommended Battery Capacity, 24V @32 °F (0 °C)	750 amps
Starter Rolling Current, 12V @32 °F (0 °C)	500 amps
Starter Rolling Current, 24V @32 °F (0 °C)	300 amps
Min. Voltage at ECU during Cranking, 12V	6 volts
Min. Voltage at ECU during Cranking, 24V	10 volts
Max. Allowable Start Circuit Resistance, 12V	0.002 ohms
Max. Allowable Start Circuit Resistance, 24V	0.0012 ohms
Electrical Component Maximum Temperature Limit	125 °C 257 °F
Maximum ECU Temperature	105 °C 221 °F

## Air Intake System

Engine Air Flow	33.6 m <sup>3</sup> /min	1187 ft <sup>3</sup> /min
Intake Manifold Pressure	242 kPa	39.0 psi
Manifold Air Temperature	51.4 °C	125 °F
Maximum Manifold Air Temperature	67 °C	152.6 °F
Max. Allowable Temperature Rise, Ambient Air to Engine Inlet	17 °C	30 °F
Max. Air Intake Restriction, Clean Air Cleaner	3 kPa	12 in.H2O
Max. Air Intake Restriction, Dirty Air Cleaner	6.25 kPa	25 in.H2O
Min. Ventilation Area	0.207 m <sup>2</sup>	320 in <sup>2</sup>
Max. CAC Delta Pressure	16.5 kPa	66.2 in.H2O

## Performance Data

Rated Power	410 kW	550 hp
Rated Speed	2500 RPM	
Peak Torque Speed	1900 RPM	
Low Idle Speed	650 RPM	
Rated Torque	1566 Nm	1155 ft-lb
Peak Torque	1966 Nm	1450 ft-lb
BMEP, Rated	2167 kPa	317 psi
Rated Pferdestärke (metric hp)	557 ps	
Front Drive Capacity, Intermittent	955 Nm	704 lb-ft
Front Drive Capacity, Continuous	955 Nm	704 lb-ft

## Exhaust System

Exhaust Flow	76.7 m <sup>3</sup> /min	2709 ft <sup>3</sup> /min
Exhaust Flow @ gas STP	32.4 m <sup>3</sup> /min	1144 ft <sup>3</sup> /min
Exhaust Temperature	437 °C	818.6 °F
Max. Allowable Exhaust Restriction	7.5 kPa	30 in.H2O
Max. Shear on Turbocharger Exhaust Outlet	11 kg	24.3 lb
Max. Bending Moment on Turbocharger Exhaust Outlet	7 Nm	15.4 lb-ft
Min. Exhaust Pipe Diameter, Dry	139.7 mm	5.5 in
Min. Exhaust Pipe Diameter, Wet	152.4 mm	6.0 in

