

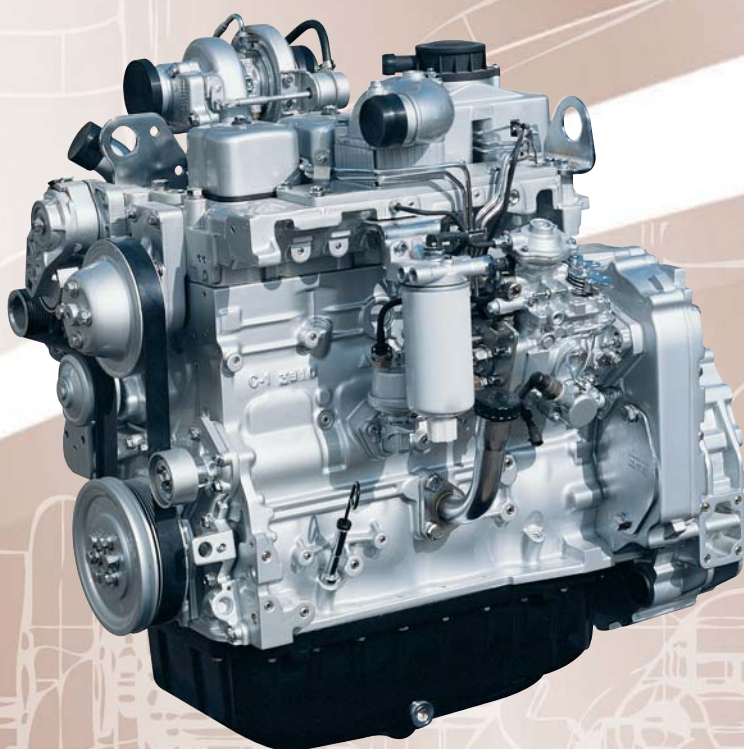
N45 MNT N45 MST

4 CYLINDERS IN LINE - DIESEL CYCLE

74 kW (101 Hp) @ 2200 rpm - 435 Nm @ 1250 rpm

93 kW (126 Hp) @ 2200 rpm - 525 Nm @ 1250 rpm

TIER 3 / STAGE III A



INDUSTRIAL APPLICATIONS

N45 MNT - N45 MST FOR INDUSTRIAL APPLICATIONS

Specifications

Thermodynamic cycle		Diesel 4 stroke - D.I.
Air intake		TAA
Arrangement		4, in line
Bore x Stroke	mm	104 X 132
Total displacement	l	4.5
Valves per cylinder		2
Cooling		liquid
Direction of rotation (viewed facing flywheel)		CCW
Compression ratio		17.5 : 1
Injection system		mechanical

Performances

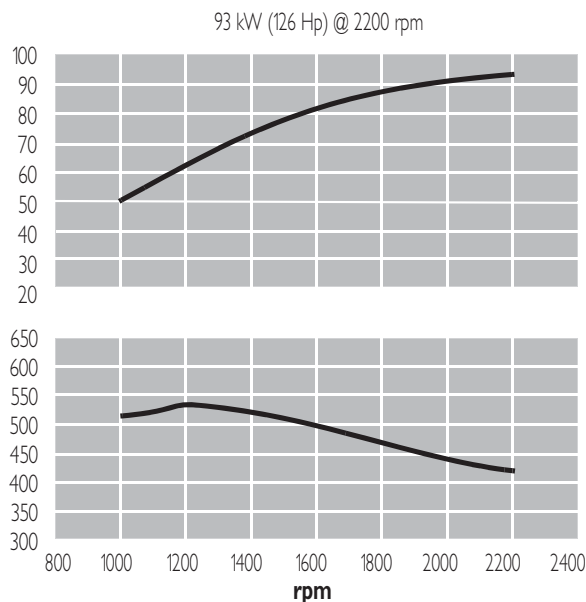
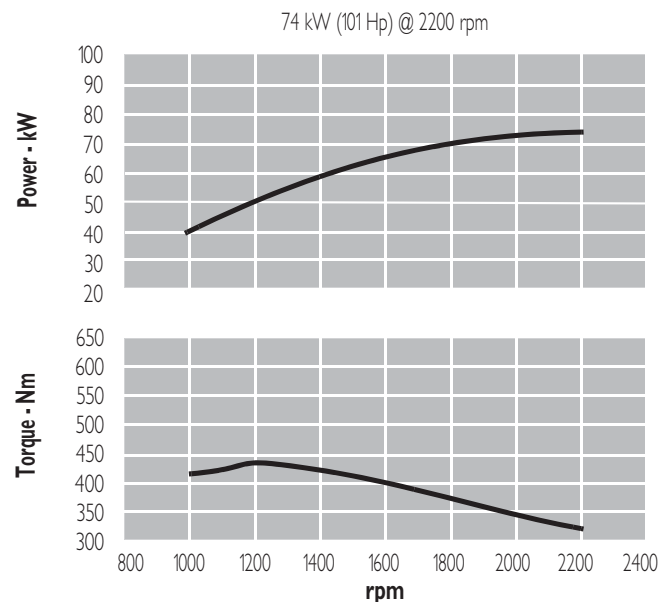
Maximum rating *	kW(Hp)	74 (101)	93 (126)
At speed	rpm	2200	2200
Maximum torque	Nm(kgm)	435 (44)	525 (54)
At speed	rpm	1250	1250
Maximum no load governed speed at max rating	rpm		2430
Minimum idling speed	rpm		800
Minimum starting temperature without auxiliaries	°C		-15
Oil and oil filter maintenance interval for replacement **	hours		600
Dry weight (standard configuration)	kg		390

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT SALES NETWORK.

* **Power** at flywheel according to 2004/26 EC (without fan), after 50 hours running, 3% tolerance, fuel Diesel EN 590.

Test conditions: ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30% relative humidity - Applicable also to DIN 6271, BS 5514, SAE J1349 Standards.

** Oil type: ACEA E3 - E5.



N45 MNT - N45 MST FOR INDUSTRIAL APPLICATIONS

Standard configuration

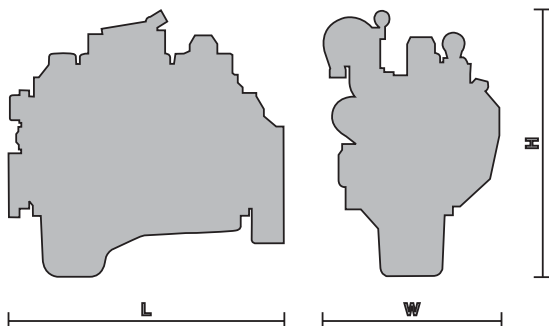
Flywheel housing	type	SAE 3 - (wide / narrow) - cast iron
Flywheel size	inch	11" 1/2
Intake manifold location		turbocharger inlet
Turbo exhaust connection		right side / frontward
Turbocharger		fix geometry, waste gate controlled
Turbocharger location		middle high / right side
Fan transmission ratio		14: 1
Distance between fan - crankshaft centers	mm	x = 0 , y = 296
Fuel filter	n°	single cartridge - left side
Fuel prefilter		optional
Fuel pump		mechanical rotary pump
Oil filter	n°	single cartridge - right side
Oil sump		suspended sheet steel / front sump, 35° angularity limits continuous in all directions
Oil vapours blow-by circuit		on valve cover
Oil heat exchanger		incorporated into the block
Oil fill		on valve cover
Lift pump		mechanical - left side
Starting motor		12 V - 3 kW
Alternator		12 V - 90 A with W contact
Electrostop		incorporated in the pump
Wiring harness		-
Power take off (optional) - transmission ratio		1.03 : 1
PTO arrangement		cover plate only
Painting	colour	grey

Not included in the standard configuration

Battery - minimum capacity recommended	180 Ah (12 V)
Battery - minimum cold cranking capacity recommended	950 A (12 V)

FPT OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE, CONTACT THE FPT SALES NETWORK.

Dimensions



N45 MNT
wide gear train

L = 807 mm
W = 671 mm
H = 972 mm

N45 MST
narrow gear train

L = 807 mm
W = 615 mm
H = 972 mm

ENGINE BENEFITS

- **PERFORMANCE:** New engines, but run in; lean lay-out; starting temperature without auxiliaries down to -15°C (with grid heater down to -25°, with water and oil heater down to -30°C); high engine inclination: 35° continuous in all directions; performance achieved without EGR, VGT or electronics.
- **SERVICEABILITY:** Worldwide service network.
- **RELIABILITY:** By-pass valve on oil/fuel filters.
- **COST EFFECTIVENESS:** New extended 600h maintenance intervals (oil and filters change); reduced oil consumption; new blow-by recirculation system.
- **ENVIRONMENTALLY FRIENDLY:** Reduced noise; rear geartrain layout; suspended oil pan; engine balancer arrangement.
- **CUSTOMER ORIENTATION:** Options for transmissions, radiators, air filters, mufflers; on demand production; standard transmission interface SAE; PTO arrangement SAE A-B; air conditioning compressor arrangement; two possible oil pan bidirectional orientations; consistency with standard and alternative fuels in compliance with regulatory requirements.

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