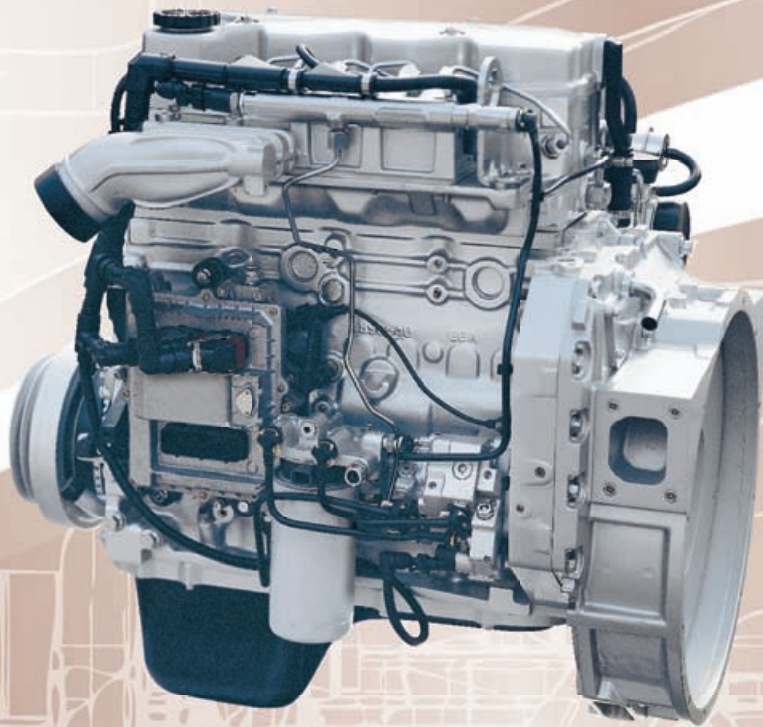


# N45 ENT

4 CYLINDERS IN LINE - DIESEL CYCLE  
104 kW (141 Hp) @ 2200 rpm - 608 Nm @ 1600 rpm  
TIER 3 / STAGE III A



## INDUSTRIAL APPLICATIONS

## N45 ENT FOR INDUSTRIAL APPLICATIONS

### Specifications

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

### Performances

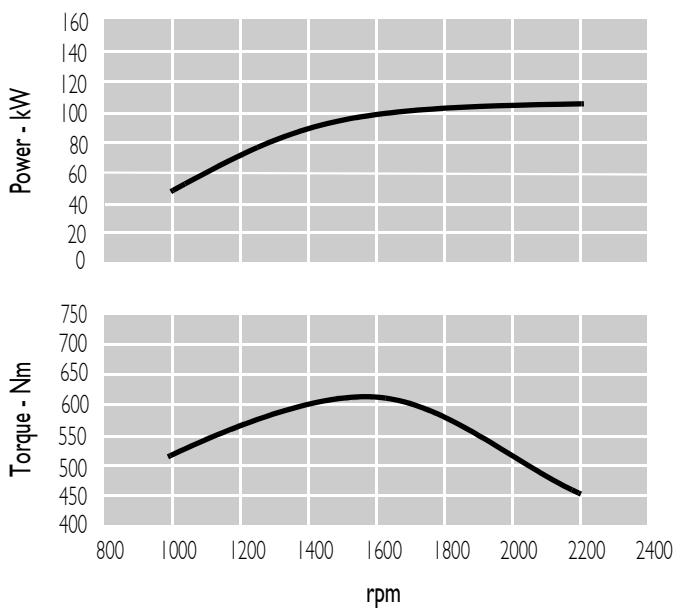
Maximum rating *	kW(Hp)	104 (141)
At speed	rpm	2200
Maximum torque	Nm(kgm)	608 (62)
At speed	rpm	1600
Maximum no load governed speed at max rating	rpm	-
Minimum idling speed	rpm	-
Minimum starting temperature without auxiliaries	°C	-15
Oil and oil filter maintenance interval for replacement **	hours	600
Dry weight (standard configuration)	kg	410

**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 ENT FOR INDUSTRIAL APPLICATIONS

### Standard configuration

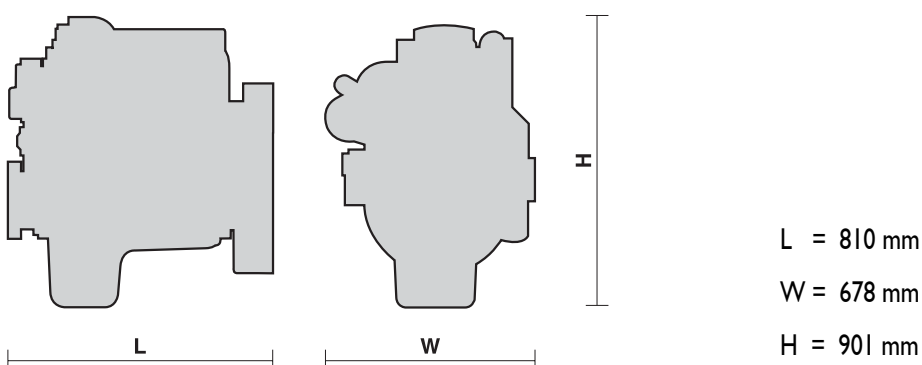
Flywheel housing	type	SAE 3 - cast iron
Flywheel size	inch	11,5
Intake manifold location		right side / rearwards
Turbo exhaust location		middle high / right side / frontwards
Turbocharger		fix geometry, waste gate controlled
Turbocharger location		middle high / right side
Fan transmission ratio		1.4 : 1
Distance between fan - crankshaft centers	mm	x = 0 , y = 296
Fuel filter	n°	single cartridge - left side
Fuel prefilter		optional
Fuel pump		high pressure pump (H.P.P.)
Lift pump		mechanical - incorporated in the H.P.P.
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 gear housing / Mann & Hummell valve
Oil heat exchanger		incorporated into the block
Oil fill		on valve cover
Starting motor		24 V - 4 kW
Alternator		24 V - 70 A with W contact
Wiring harness		interface wiring loom with accessories
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	130 Ah (24 V)
Battery - minimum cold cranking capacity recommended	500 A (24 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



## ENGINE BENEFITS

- **PERFORMANCE:** New engines, but run in; lean lay-out; starting temperature with standard equipment auxiliaries down to  $-25^{\circ}\text{C}$  (with optional water heater down to  $-30^{\circ}\text{C}$ ); high engine inclination:  $35^{\circ}$  continuous in all directions; performance achieved without EGR or VGT; very compact 2nd generation Common Rail System.
- **SERVICEABILITY:** Worldwide service network.
- **RELIABILITY:** By-pass valve on oil/fuel filters; for life warranty on Poly V belts; low pressure circuit in Rilsan material with quick fix connectors.
- **COST EFFECTIVENESS:** New extended 600h maintenance intervals (oil and filters change); reduced oil consumption; new blow-by ricirculation system.
- **ENVIRONMENTALLY FRIENDLY:** Reduced noise; rear geartrain layout; suspended oil pan.
- **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; turbocharger low position; two possible oil pan bidirectional orientations.

### FIAT POWERTRAIN TECHNOLOGIES

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