Agriculture
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N45

N45 ENT
89 kW (121 HP) @ 2200 rpm
Stage IV / Tier4 Final

AGRICULTURAL

SPECIFICATIONS

Thermodynamic Cycle		Diesel 4 stroke
Air Handling		TCA
Arrangement		4L
Bore x Stroke	millimeters	104 x 132
Total displacement	liters	4.5
Valves per cylinder	number	4
Cooling System		liquid
Direction of Rotation (viewed facing flywheel)		CCW
Compression ratio		17:1
Injection System		ECR
EGR		-

PERFORMANCES

Rated power [*]	kW (HP) @ rpm	89 (121) @ 2200
Peak torque	Nm (kgm) @ rpm	549 (56) @ 1500
High idle speed	rpm	-
Low idle speed	rpm	750
Minimum starting temperature without auxiliaries	°C	-15°
Oil and oil filter maintenance interval for replacement	hours	600

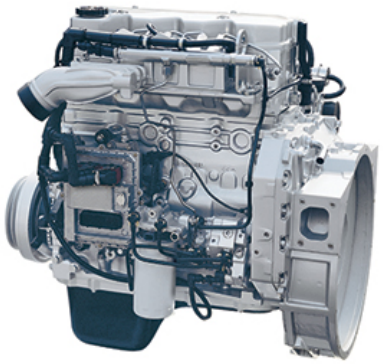
STANDARD CONFIGURATION

Flywheel housing	type	SAE 3 - cast iron
Flywheel size	inch	11" ½
Intake manifold location		high / left side
Exhaust manifold location		high / right side / middle flange
Turbocharger		Fixed Geometry Turbo
Turbocharger location		high / right side / back exhaust
Fan transmission ratio		1.4:1
Distance between fan - crankshaft centers	millimeters	X=0 Y=296
Fuel filter	number	single cartridge-left side
Fuel prefilter		-
Fuel Pump		incorporated into the high pressure pump
Oil filter	number	single cartridge-right side
Oil sump		steel-front sump-elastic-35° limits continuous in all directions
Oil vapours blow-by circuit		lascent filter mounted on flywheel housing
Oil heat exchanger		oil / water engine cooler
Oil filler		on valve cover-front position
Starter		12V - 3kW / 24V - 4kW
Alternator		24 V - 70 A
Engine stop device		-
Wiring harness		engine harness connected to ECU
Painting color		grey
Lift Pump		-
Hydraulic steering pump	liters/min	-
Maximum torque available from crankshaft pulley	Nm	-

WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	816 x 687 x 1049
Dry Weight	Kg	402

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



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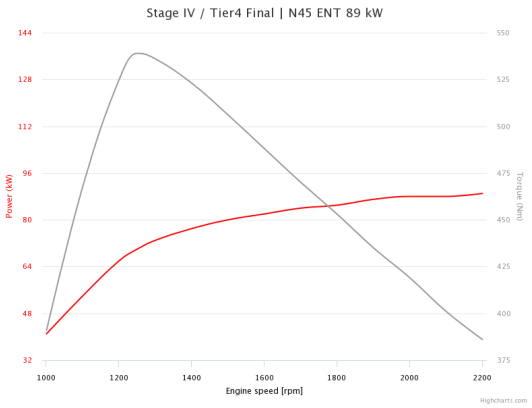
POWER & TORQUE



NOT INCLUDED IN STANDARD CONFIGURATION

Power Take Off (PTO)		-
PTO - transmission ratio		1.03:1
PTO - maximum available torque		SAE A 100Nm - 150Nm SAE B 240Nm -
Battery - minimum capacity recommended	Ah	130 Ah (24V)
Battery - minimum cold cranking capacity recommended	Ah	24 V - 500 Ah

LEGEND

Arrangement
- L (in line)
- V (90° "V" configuration)

Air Handling
- TCA (Turbocharged with aftercooler)
- TC (Turbocharged)
- NA (Naturally Aspirated)

Turbocharger
- WG (Wastegate)
- VGT (Variable Geometry Turbocharger)
- TST (Twin Stage Turbocharge)

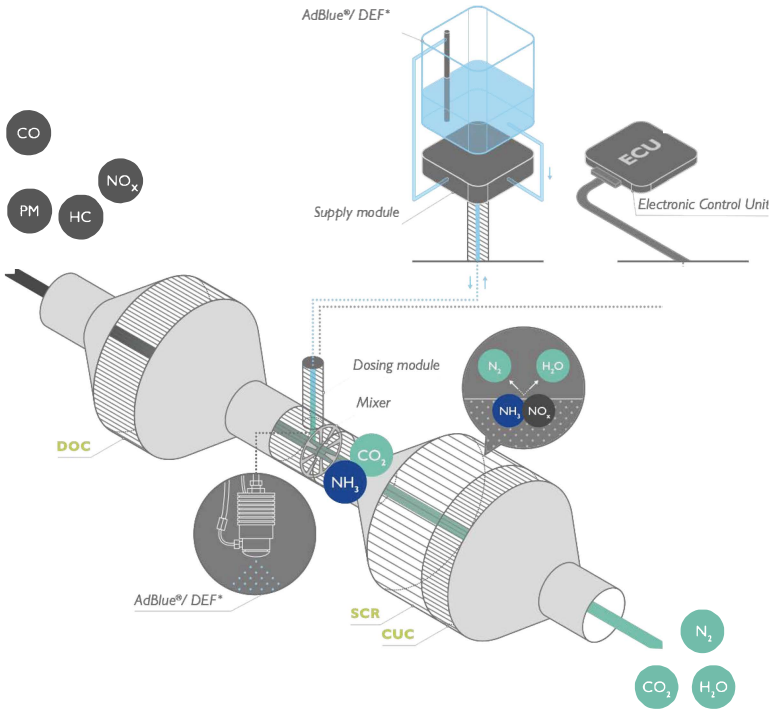
Injection System
- M (Mechanical)
- ECR (Electronic Common Rail)
- EUI (Electronic Unit Injector)
- MPI (Multi Point Injection)

Exhaust System
- EGR (Exhaust Gas Recirculation)
- SCR (Selective Catalytic Reduction)

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

AFTER TREATMENT SYSTEM



ELEMENT

1 **DIESEL OXIDATION CATALYST**

2 **ADBLUE® / DEF INJECTION**

3 **SELECTIVE CATALYTIC REDUCTION ON FILTER**

4 **CLEAN-UP CATALYST**

LEGEND

PM Particulate Matter
HC unburnt Hydrocarbons
NO_x Nitrogen Oxides
CO Carbon Monoxide
N_2 Nitrogen
CO_2 Carbon Dioxide
H_2O Water
AdBlue®/ DEF = $CO(NH_2)+ H_2O$

AGRICULTURAL

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)	SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)		EUI (Electronic Unit Injector)	
		TST (Twin Stage Turbocharge)	MPI (Multi Point Injection)	

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