# Agriculture
## Agricultural
## N45

# N45 ENT
125 kW (170 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 | | 18:1 |
| Injection System | | ECR |
| EGR | | - |

## PERFORMANCES

| | | |
|---|---|---|
| Rated power [*] | kW (HP) @ rpm | 125 (170) @ 2200 |
| Peak torque | Nm (kgm) @ rpm | 710 (80) @ 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 |

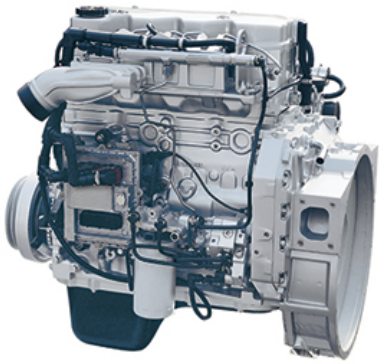
## STANDARD CONFIGURATION

| | | |
|---|---|---|
| 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

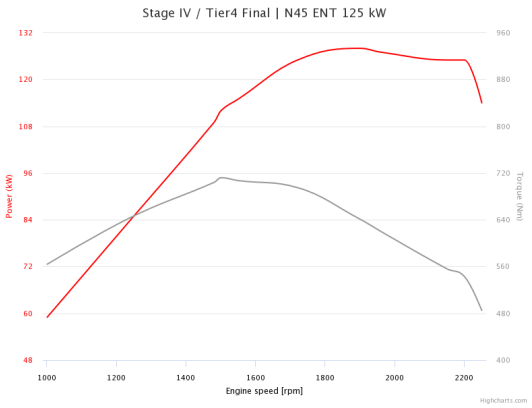
| | | |
|---|---|---|
| Dimensions | LxWxH (mm) | 816 x 687 x 1049 |
| Dry Weight | Kg | 402 |

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## 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)

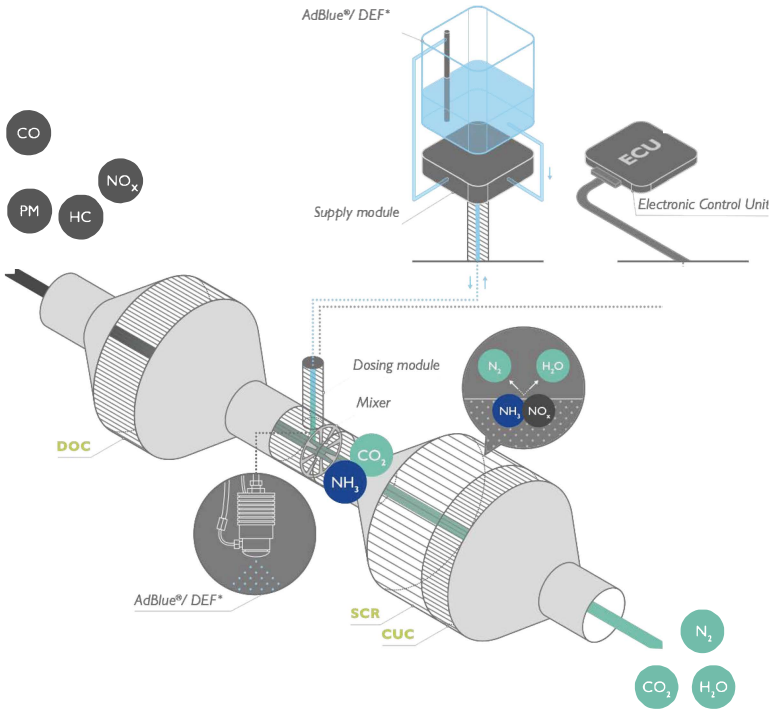
**Injection System**
M (Mechanical)
ECR (Electronic Common Rail)
EUI (Electronic Unit Injector)
MPI (Multi Point Injection)

**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

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) | |

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