

KEY FACTS

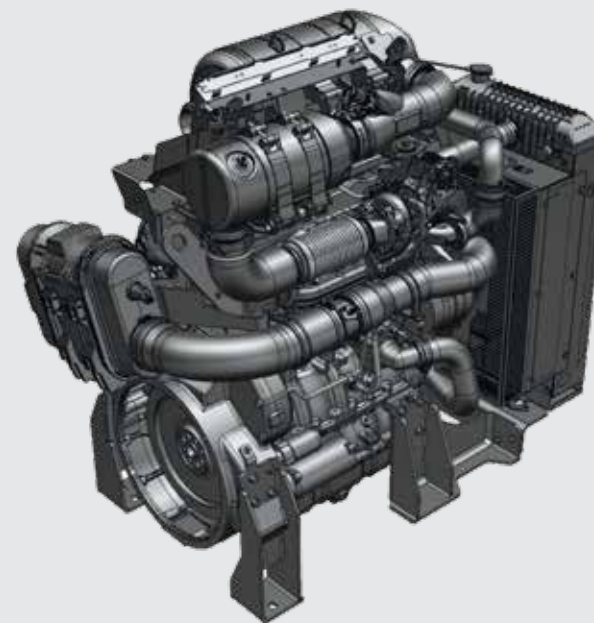
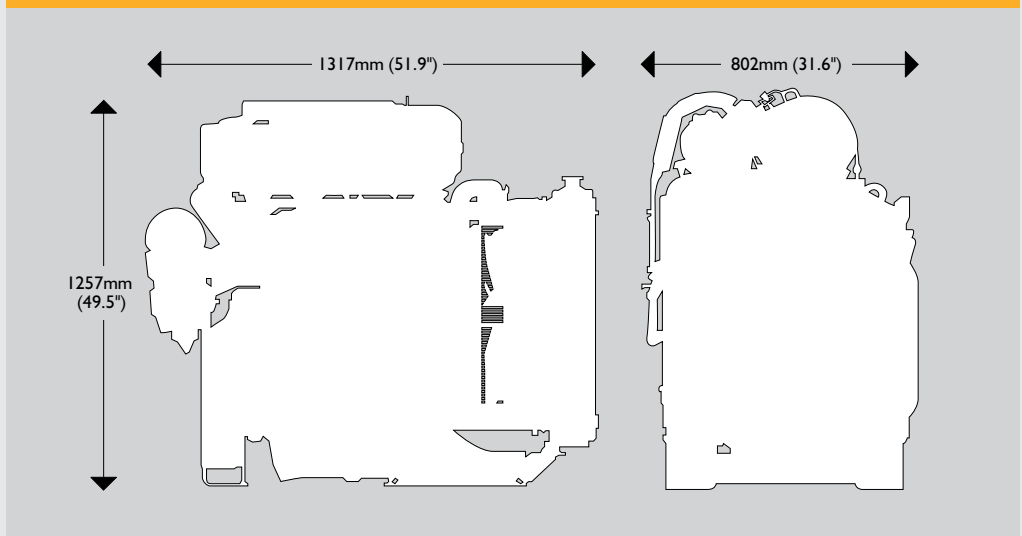
Efficient combustion process has lead to minimum aftertreatment requirements

Heavy duty engine with common customer installation interface points across the product family

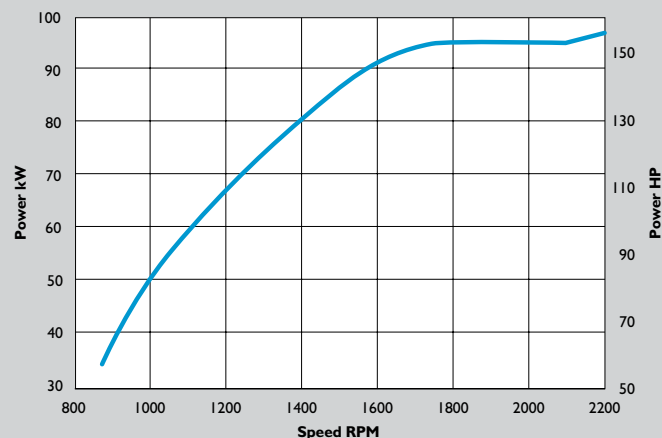
Supported by Global Distributor and Dealer Network

GENERAL TECHNICAL DATA

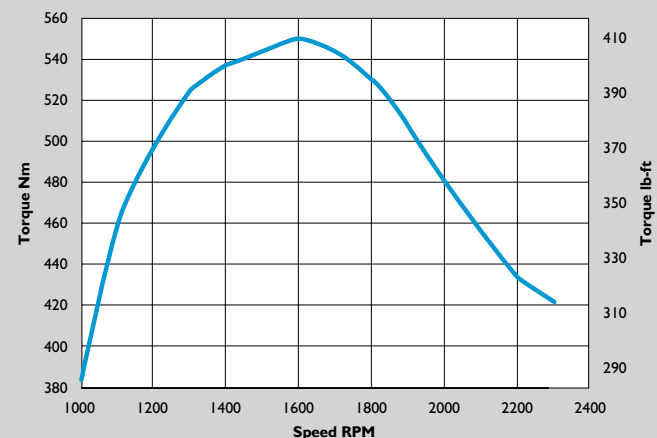
| | | |
|--|------------------------------------|--------------------------|
| Model | | 448 Stage V |
| Maximum rating (gross intermittent) | kW (hp) | 97 (130) |
| Thermodynamic cycle | | Diesel 4 stroke |
| Aspiration | | TCA |
| Arrangement | | 4 Cylinder |
| Emissions level | | Stage V |
| Bore | mm (in) | 106 (3.17) |
| Stroke | mm (in) | 112 (4.41) |
| Total displacement | cm ³ (in ³) | 4765.4 |
| Valves per cylinder | | 4 |
| Injection system | | Common Rail |
| Cooling | | Liquid |
| Direction of rotation (viewed from crank nose) | | Clockwise |
| Dry weight | kg (lbs) | 750 (1653) Exc. DEF Tank |
| Rated speed | rpm | 2200 |
| Peak torque | Nm (lb-ft) | 550 (406) |
| Peak torque speed | rpm | 1500 |
| Maximum no load governed speed | rpm | 2450 |
| Nominal idling speed | rpm | 850 |
| Minimum starting temperature without auxiliaries | °C (°F) | -12 (10.4) |
| Gradability - continuous | degrees | 35 |
| Gradability - intermittent | degrees | 45 |


DIMENSIONS


POWER CURVE



TORQUE CURVE



STANDARD CONFIGURATION

| | |
|---|---|
| Flywheel housing | SAE3 |
| Intake manifold location | Left hand forward* |
| Exhaust manifold / turbocharger location | Right hand rearward* |
| Turbocharger | Electronic Wastegate controlled |
| Fan drive ratios | 0.85:1, 1:1, 1.16:1, 1.25:1, 1.37:1 |
| Distance between fan - crankshaft centres | mm 262 or 356 |
| Fuel filter | Engine mounted |
| Fuel lift pump | Pre-filter with primary pump & WIF sensor |
| Oil filter | Single, vertical - LHS* |
| Oil sump | Pressed steel |
| Breather system | Open |
| Oil cooler | LHS* |
| Oil filler position | Top or LHS* |
| Starter motor | 12V, 4.2kW/24V 4kW |
| Alternator | 12V, 95A/24V 100A |
| Power Take-off: Heavy Duty | 60kW/205Nm (1.268:1) |
| Power Take-off: Light Duty | 15kW/40Nm (1.625:1) |
| Finish | Lacquered |

*Orientation from flywheel.

EMISSIONS CONTROL SOLUTIONS



DEF tank



DOC/SCRF

OPTIONS

Extensive range of configuration options available – contact local JCB Power Systems distributor, or JCB Power Systems sales and applications department for availability and configuration options. For more information on purchasing a JCB Engine or configuration of a bespoke product for your requirements contact a JCB Power Systems distributor.