

The Construction Equipment Engine. 23–56 kW | 31–75 hp at 1600–2800 rpm





The engine company.

Your benefits

- Compact dimensions. Takes up less space and reduces installation costs.
- The 2011 model series offers an outstanding power-toweight ratio.
- Low exhaust emissions for a clean environment. Compliance with 2004/26/EU level III A and EPA TIER III for mobile equipment.

Characteristics

- High reliability combined with long maintenance intervals and low wear.
- Low noise emission eliminates the need for costly noisereducing soundproofing measures.

Compact dimensions | Naturally-aspirated 2-, 3- and 4-cylinder in-line engines | Turbocharging also for 4-cylinder engines | With integrated cooling system | Power take-offs for driving hydraulic pumps up to 28 kW/2800 rpm | All service points located on one side of the engine

TIER III/level III A performance for mobile working machines ¹⁾

| Engine model | | D 2011 L2 i | D 2011 L3 i | D 2011 L4 i | TD 2011 L4 i | | |
|--|------------------|------------------|------------------|------------------|------------------|--|--|
| Number of cylinders | | 2 | 3 | 4 | 4 | | |
| Bore/stroke | mm inch | 94/112 3.7/4.4 | 94/112 3.7/4.4 | 96/125 3.8/5.0 | 96/125 3.8/5.0 | | |
| Swept volume | l cu inch | 1.55 95 | 2.33 142 | 3.62 221 | 3.62 221 | | |
| Compression ratio | | 1:19 | 1:19 | 1:19 | 1:18 | | |
| Max. rated speed | rpm | 2800 | 2800 | 2600 | 2600 | | |
| Mean piston speed | m/s ft/sec | 10.5 34.4 | 10.5 34.4 | 10.5 34.4 | 10.5 34.4 | | |
| Performance for mobile working machines ¹⁾ | | | | | | | |
| Output according to ISO 14396 | kW hp | 23 31 | 35.8 48 | 46 62 | 56 75 | | |
| At engine speed | rpm | 2800 | 2800 | 2600 | 2600 | | |
| At mean, effective pressure | bar lb/inch | 6.3 91 | 6.6 96 | 6.1 88 | 7.4 107 | | |
| Max. torque | Nm lb/ft | 90 66 | 137 101 | 190 140 | 250 184 | | |
| At engine speed | rpm | 1700 | 1700 | 1700 | 1600 | | |
| Minimum idle speed | rpm | 900 | 900 | 900 | 900 | | |
| Specific fuel consumption ²⁾ Weight according to | g/kWh lb/hp-hr | 225 0.37 | 225 0.37 | 230 0.38 | 230 0.38 | | |
| DIN 70020, Part 7A ³⁾ | kg lb | 175 386 | 217 478 | 270 595 | 267 589 | | |

| Dimensions | | | |
|--------------|------------|------------|------------|
| in mm inch | Α | В | С |
| D 2011 L2 i | 487 19.2 | 451 17.8 | 683 26.9 |
| D 2011 L3 i | 599 23.6 | 451 17.8 | 678 26.9 |
| D 2011 L4 i | 710 28.0 | 467 18.4 | 713 28.1 |
| TD 2011 L4 i | 710 28.0 | 530 20.9 | 713 28.1 |
| | | | |





1) Gross flywheel output data including integrated cooling system.

3) Including integrated cooling system, flywheel and SAE housing, but without starter motor, alternator and fluids.

The values specified in this datasheet are for information purposes only and are not binding.

2) At best point. Specific fuel consumption with reference to diesel fuel with a density of 0.835 kg/dm³ at 15 °C (6.96 lb/US gallon at 60 °F).

The information given in the quotation is decisive