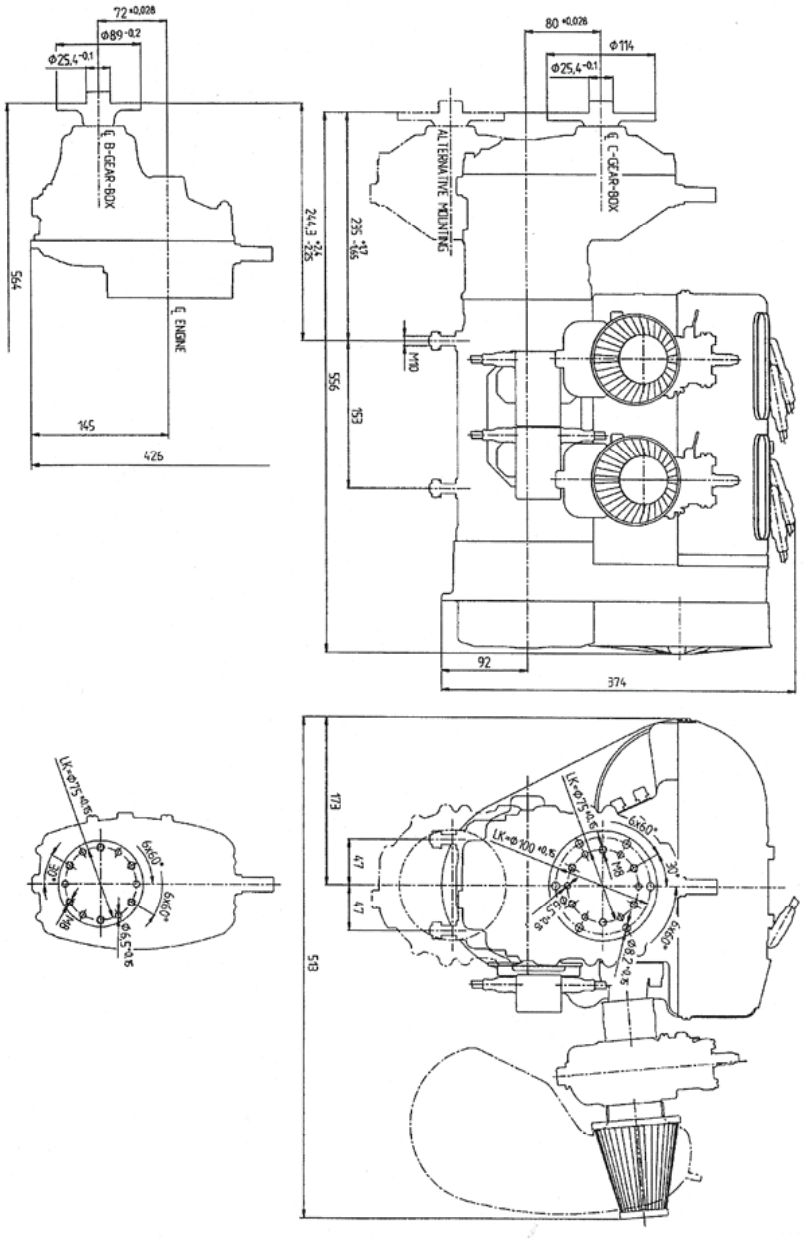
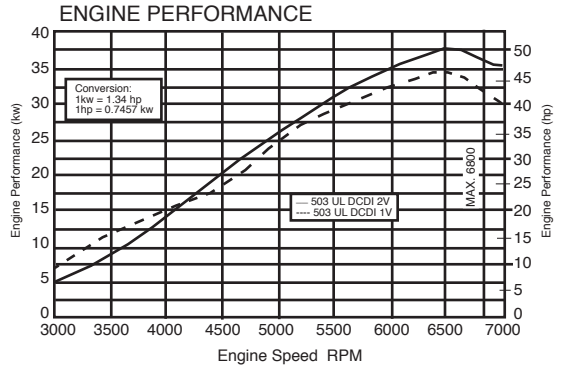
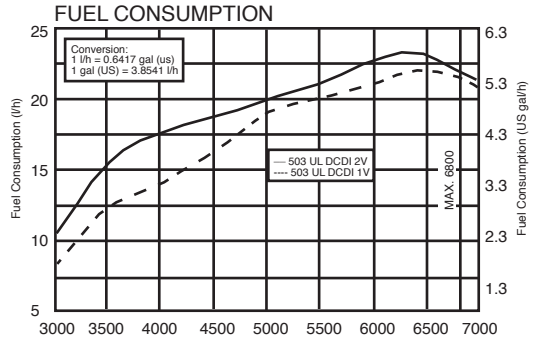
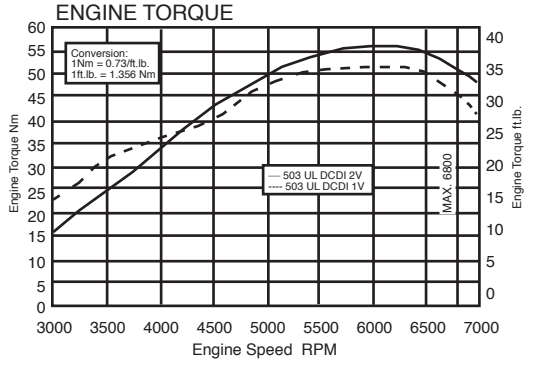
# Rotax 503 UL DCDI - 2 Cycle 2-Stroke




2-cycle, 2 stroke fan cooled engine with piston ported inlet with electronic dual ignition, exhaust system, carburetor, rewind starter.

| Version | Performance | | | Torque | | | Max. RPM |
|---|---|---|---|---|---|---|---|
| | kW | hp | 1/min. | Nm | ft. lb. | 1/min. | 1/min |
| 503 UL-1V | 34.0 | 45.6 | 6500 | 51 | 37.6 | 5900 | 6800 |
| 503 UL-2V | 37.0 | 49.6 | 6500 | 56 | 41.3 | 6000 | 6800 |

| Bore | | Stroke | | Displacement | | Compression Ratio | |
|---|---|---|---|---|---|---|---|
| 72 mm | 2.84 in. | 61 mm | 2.40 in. | 496.7 cm³ | 30.31 cu.in. | th: 10.8 | ef: 6.2 |

| Fuel | Super 2-Stroke Oil | Mixing Ratio |
|---|---|---|
| min. MON 83 RON 91*<br>min. AKI 87* | API-TC-Classification | 1:50** |

*Leaded or unleaded **Variable with fresh oil pump

| Ignition Unit | Ignition Timing | Spark Plug |
|---|---|---|
| Ducati double CDI | 16˚ v. OT | P/N 897-055 |

| Generator Performance | RPM | Voltage |
|---|---|---|
| 155 W DC | 6000 1/min | 13.5 V |

| | Weight kg | lb |
|---|---|---|
| **Standard** | | |
| Engine* | 31.4 | 69.2 |
| 2 Carburetors | 1.8 | 4.0 |
| Exhaust System | 5.1 | 11.2 |
| **Options** | **kg** | **lb** |
| 2 Air Cleaners | 0.3 | 0.7 |
| Dual Air Cleaner | 0.5 | 1.1 |
| Electric Starter | 3.5 | 7.7 |
| Gearbox "B"/i=2.0/2.24/2.58 | 4.5 | 9.9 |
| Gearbox "C"/i=2.62/3.0/3.47/4.0 | 8.0 | 17.6 |
| Gearbox "E"/i=2.62/3.0/3.47/4.0 | 11.2 | 24.7 |
| External Alternator 220 W DC | 1.1 | 2.4 |
| Oil Tank 2.4 l | 1.6 | 3.5 |
| Fresh Oil Pump | 0.3 | 0.7 |
| HAC Kit | 0.2 | 0.4 |
| Intake Silencer 1V | 0.8 | 1.8 |
| Intake Silencer 2V | 1.1 | 2.4 |
| After Muffler | 1.6 | 3.5 |

*Engine also available in free air version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