

The Sky is the Limit.<sup>SM</sup>

**ROTAX**  
AIRCRAFT ENGINES

Aircraft Engine  
**503 UL - D.C.D.I.**

www.rotax-aircraft-engines.com

**DESCRIPTION**

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



Picture 503 UL - D.C.D.I. with options

VERSION	PERFORMANCE			TORQUE			MAX R.P.M.
	kW	hp	1/min	Nm	ft. lb.	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 cm <sup>3</sup>	30.31 cu. in.	th: 10.8	ef: 6.2

FUEL	Super 2-stroke oil	MIXING RATIO
min. MON 83 RON 91* min. AKI 87*	API - TC - Classification	1 : 50 **
* leaded or unleaded	** variable with fresh oil pump	

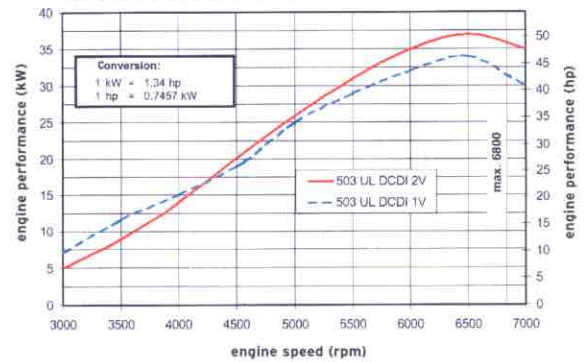
IGNITION UNIT	IGNITION TIMING	SPARK PLUG
DUCATI double CDI	16° v. OT	ROTAX® part no. 897 055

GENERATOR PERFORMANCE	R.P.M.	VOLTAGE
155 W DC	6000 1/min	13.5 V

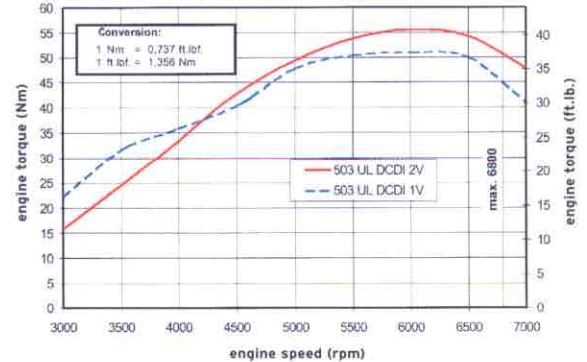
		WEIGHT	kg	lb
Standard	engine*		31.4	69.2
	2 carburetors		1.8	4.0
	exhaust system		5.1	11.2
Options	2 air cleaners		0.3	0.7
	dual air cleaner		0.5	1.1
	electric starter		3.5	7.7
	gearbox "B" / i = 2.0/2.24/2.58		4.5	9.9
	gearbox "C" / i = 2.62/3.0/3.47/4.0		8.0	17.6
	gearbox "E" / i = 2.62/3.0/3.47/4.0		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 after muffler		1.1 1.6	2.4 3.5	

\* engine also available in free-air version

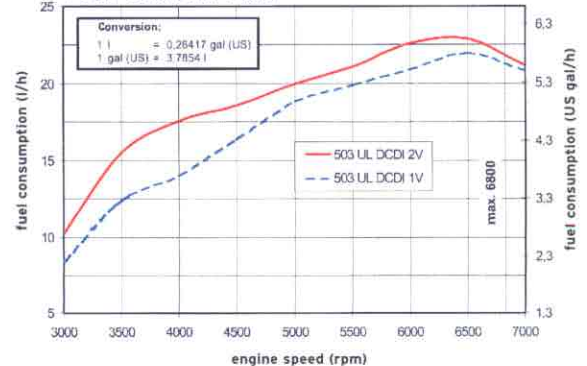
**ENGINE PERFORMANCE**



**ENGINE TORQUE**



**FUEL CONSUMPTION**



<p><b>⚠ WARNING</b></p> <p>This aircraft engine does not comply with federal safety regulations for standard aircraft. This engine is for use in experimental and ultralight uncertified aircraft only and only in circumstances in which an engine failure will not compromise safety. Before operating the engine read operator's manual. Information is available from your local authorized ROTAX®-distributor.</p>	<p>ROTAX® authorized distributor</p>
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