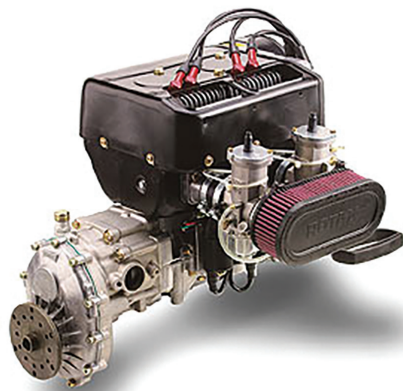


503 UL ENGINE

RTX



503 UL ENGINE

DESCRIPTION

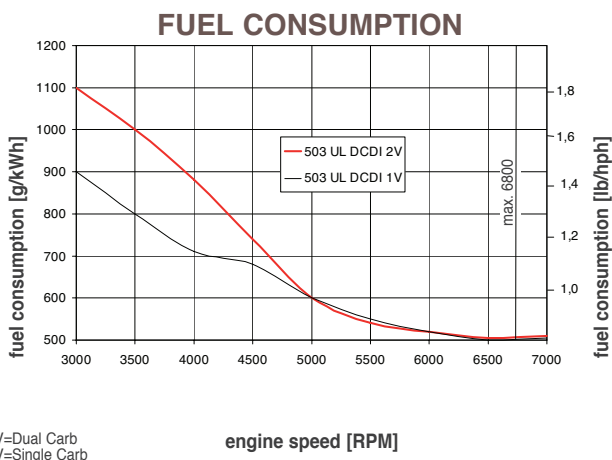
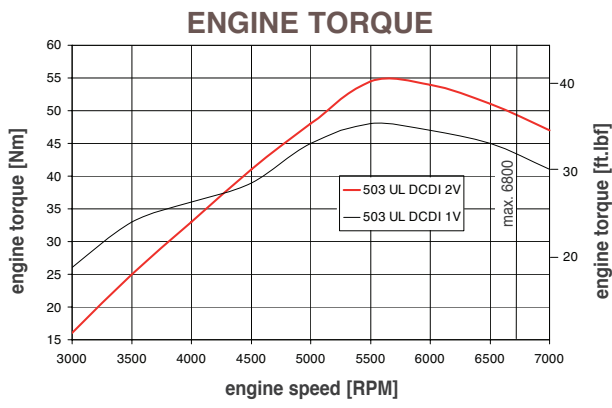
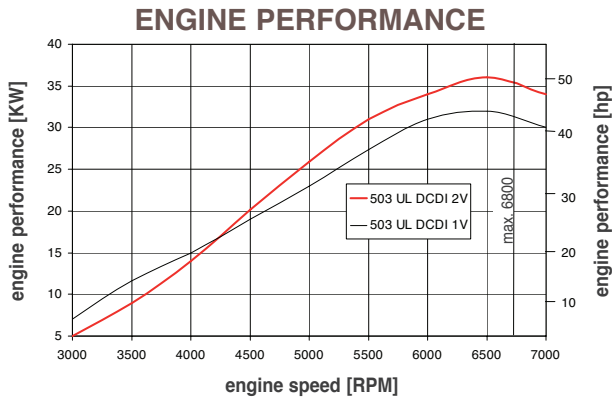
- 2-stroke engine specially developed for recreational aircraft
- 2 cylinders, cooled by fan
- Piston ported intake
- Dual capacitor discharge Ignition (DCDI)
- Dual Bing carburetors
- Mikuni pulse driven diaphragm fuel pump
- Recoil or electric starter
- Available with various exhaust system configurations
- Operates on automotive fuel with a minimum of 87 octane rating (Canadian standards) and super 2-stroke oil of API-TC classification, automatically provided by oil injection, or premixed with a 50:1 ratio
- Challenger owners, we make the installation of oil injection possible!
- Time Between Overhauls (TBO): 300 hours

THE 503 ROTAX ENGINE IS NO LONGER AVAILABLE, HOWEVER ROTAX WILL CONTINUE TO MANUFACTURE PARTS FOR THIS ENGINE.

| VERSION | PERFORMANCE | | | TORQUE | | | MAX RPM |
|-------------|-------------|---------|-------|--------|---------|-------|---------|
| | kW | ft. lb. | 1/min | Nm | ft. lb. | 1/min | |
| single carb | 34 | 45.6 | 6500 | 51 | .37.6 | | |
| dual carb | 37 | 49.6 | | 56 | 41.3 | 6000 | 6800 |

| BORE | | STROKE | | DISPLACEMENT | |
|-------|---------|--------|---------|-----------------------|--------------|
| 72 mm | 2.84 in | 61 mm | 2.40 in | 496.7 cm ³ | 30.31 cu. in |

| FUEL | 2 SUPER STROKE - MOTOROIL | MIXING RATIO |
|-------------------------------------|---------------------------|---|
| min. MON 83 RON 91* min. AKI 87* | I-TC-Classification | 1:50 or optional with fresh oil pump |



2V=Dual Carb
1V=Single Carb

PERFORMANCE GRAPHS

| WEIGHT | kg | lb |
|---------------------------------|------|-------|
| Engine with carburetors | 33.2 | 73.2 |
| Exhaust system | 5.1 | 11.2 |
| Air filter | 0.5 | 1.1 |
| No gearbox, no electric starter | 38.8 | 85.5 |
| B gearbox, no electric starter | 43.3 | 95.4 |
| B gearbox, electric starter | 48.2 | 106.2 |
| C gearbox, no electric starter | 46.8 | 103.1 |
| C gearbox, electric starter | 51.7 | 113.9 |
| E gearbox | 50.0 | 110.2 |