



# Suiwin Turbojet Equipment

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mini jet limited

## SW220B 220N micro turbine



### Specifications

|                             |                      |                       |                         |
|-----------------------------|----------------------|-----------------------|-------------------------|
| Engine diameter             | 115mm                | ECU battery           | 2S Lipo                 |
| Engine length               | 281mm                | Power Battery         | 3S Lipo                 |
| Engine weight               | 1820g                | Operating temp        | -25deg C ~ 40deg C      |
| Complete set weight         | 2109g                | Telemetry             | TTL UART                |
| Thrust at STP               | 220N                 | PPM input             | 700-2400 ms             |
| RPM range                   | 38,000 ~ 115,000     | Maintance cycle       | 25 ~ 40Hrs              |
| Fuel consumption at max RPM | 620g/min(775ml/min)  | Fuel type             | Diesel or Jet A1        |
| Mass flow at max RPM        | 0.45 Kg/S            | Lubricating oil       | Diesel 3% / Kerosene 5% |
| Pressure ration at max RPM  | 3.8 Bar              | Starting method       | Direct fuel startup     |
| Max exhaust temp            | 700 deg C            | Auto-Restart function |                         |
| Max ejection acceleration   | 10 G                 |                       |                         |
| Max operating speed         | 300m / S (1080Km/Hr) |                       |                         |

**Each engine complete set contains following component parts**

| Item                 | Qty |
|----------------------|-----|
| Engine body+fix ring | 1   |
| V3 ECU               | 1   |
| GSU                  | 1   |
| Pump                 | 1   |
| Filter               | 1   |
| Ball valve           | 1   |
| Engine wire          | 1   |
| Battery wire         | 1   |
| Throttle wire        | 1   |
| Pump wire            | 1   |

**Feature:**



Complete set



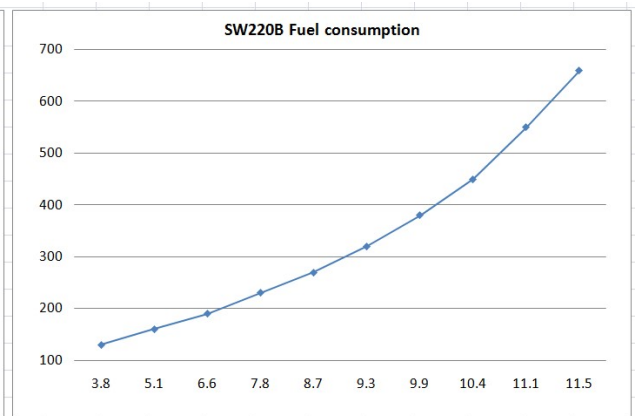
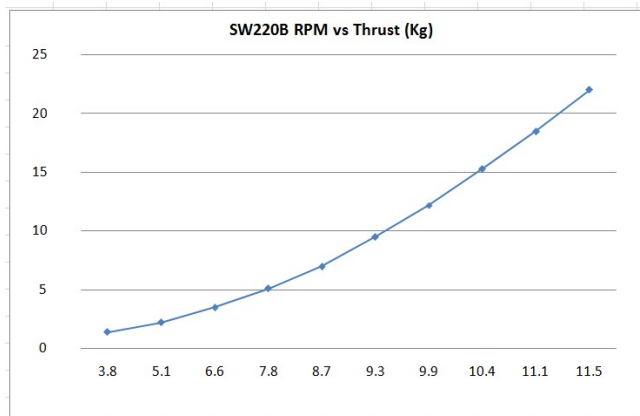
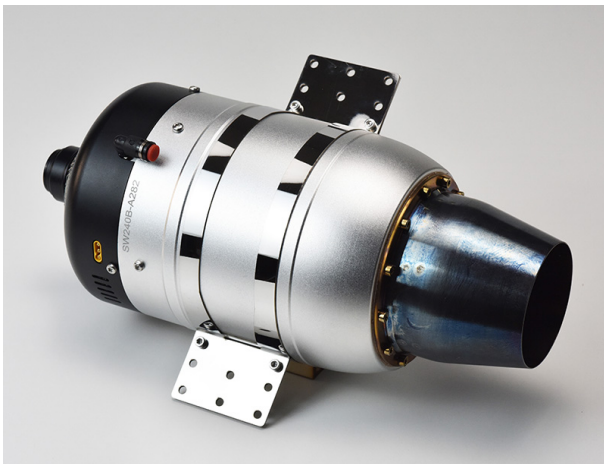
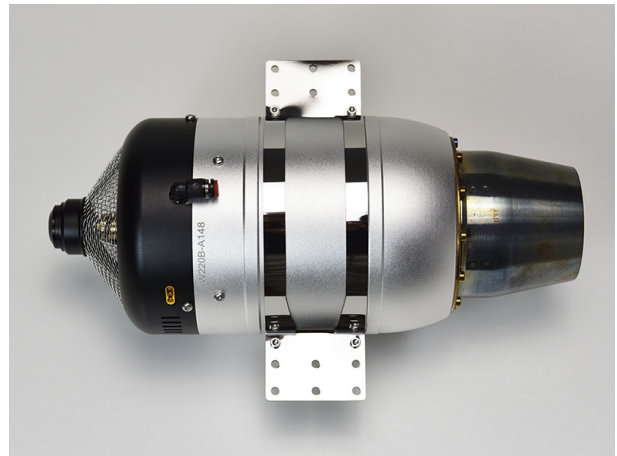
32 bit full digital ECU/Telemetry function  
GSU startup function



Brushless pump



Brushless Starter







## SWIWIN TURBINE SPEC

|                         | SW60B                | SW80B                | SW120B               | SW140B               | SW170B               | SW190B               | SW220B               | SW240B               | SW300B               | SW400pro             | SW600pro             | SW800pro             |
|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Diameter                | 83mm                 | 83mm                 | 99mm                 | 99mm                 | 109mm                | 109mm                | 116mm                | 116mm                | 133mm                | 146mm                | 177mm                | 208mm                |
| Length                  | 198mm                | 198mm                | 250mm                | 250mm                | 258mm                | 258mm                | 275mm                | 275mm                | 332mm                | 342mm                | 452mm                | 454mm                |
| Body Weight             | 765g                 | 765g                 | 1250g                | 1250g                | 1450g                | 1450g                | 1700g                | 1700g                | 2500g                | 3000g                | 6600g                | 8500g                |
| RPM range               | 50,000-<br>150,000   | 50,000-<br>156,000   | 38,000-<br>125,000   | 38,000-<br>130,000   | 36,000-<br>114,000   | 36,000-<br>118,000   | 38,000-<br>115,000   | 38,000-<br>118,000   | 38,000-<br>98,000    | 33,000-<br>95,000    | 25000-<br>72000      | 20,000-<br>65,000    |
| Thrust                  | 60N                  | 80N                  | 120N                 | 140N                 | 170N                 | 190N                 | 220N                 | 240N                 | 300N                 | 400N                 | 600N                 | 800N                 |
| EGT                     | 700℃                 | 700℃                 | 700℃                 | 700℃                 | 700℃                 | 700℃                 | 700℃                 | 700℃                 | 700℃                 | 700℃                 | 700℃                 | 700℃                 |
| Consumption             | 200g/min             | 270g/min             | 350g/min             | 380g/min             | 480g/min             | 550g/min             | 660g/min             | 685g/min             | 820g/min             | 1000g/min            | 1735                 | 1850g/min            |
| Fuel                    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    | kero or<br>diesel    |
| Lubrication             | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel | 5% kero<br>3% diesel |
| Maintenance<br>Interval | 25Hours              | 25Hours              | 25Hours              | 25Hours              | 25Hours              | 25Hours              | 25Hours              | 25Hours              | 25Hours              | 25Hours              | 25Hours              | 25Hours              |
| Parts Weight            | V3 ECU               | BL pump              | wires                | filter               | Ball valve           | GSU                  | V4 ECU               |                      |                      |                      | V5 ECU               | V6 ECU               |
|                         | 42g                  | 120g                 | 70g                  | 4g                   | 14g                  | 50g                  | 436g                 |                      |                      |                      | 910                  |                      |



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