Table 8: Base line of electric aircraft.

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| --- | --- | --- | --- | --- |
| **Aircraft** | **Dimensional parameters** | | **Performance parameters** | |
| **Pipistrel Alpha Electro G2 [48]**  Resultado de imagen para Pipistrel Alpha Electro G2 | **Span Wing:** 10.5 m  **Length:** 6.5 m  **Height:** 2.05 m  **Aspect Ratio:** 11.8 | **Fuselage:** Side-by-side, cabin.  **Wing:** Rectangular, high wing, monoplane, fixed wing.  **Tail:** T-tail, aft tail.  **Engine:** tractor (single-engine) propeller-driven  **Landing gear:** Tricycle | **Max takeoff weight:** 550 kg  **Payload weight:** 182 kg  **Stall Speed:** 70.3 km/h  **Cruise Speed:** 157.42 km/h | **Max Speed:** 250 km/h  **Engine:** Pipistrel PEM 60MVLC; 60 kW power  **Endurance:** 1 hour  **Cruise Range:** 138.9 km |
| **Liaoning Ruixiang RX1E [49]**  Image result for Liaoning Ruixiang RX1E | **Span Wing:** 14.5 m  **Length:** 6.61 m  **Height:** 2.45 m  **Aspect Ratio:** | **Fuselage:** Side-by-side, cabin.  **Wing:** Rectangular, Tapered, high wing, monoplane, fixed wing.  **Tail:** T-tail, aft tail.  **Engine:** tractor (single-engine) propeller-driven  **Landing gear:** Tricycle | **Max takeoff weight:** 500 kg  **Payload weight:** 162 kg  **Stall Speed:** 73 km/h  **Cruise Speed:** 120 km/h | **Max Speed:** 160 km/h  **Engine:** A37K154; 30 kW power  **Endurance:** 1 hour  **Cruise Range:** |
| **Bristell H-55 [50]**  **C:\Users\CASTELLANOS\Desktop\Screenshot+2019-06-17+at+13.32.15.png** | **Span Wing:** 8.13 m  **Length:** 6.45 m  **Height:** 2.28 m  **Aspect Ratio:** | **Fuselage:** Side-by-side, cockpit.  **Wing:** Rectangular, low wing, monoplane, fixed wing.  **Tail:** Conventional, aft tail.  **Engine:** tractor (single-engine) propeller-driven  **Landing gear:** Tricycle | **Max takeoff weight:** 850 kg  **Payload weight:** 200 kg  **Stall Speed:**  **Cruise Speed:** | **Max Speed:**  **Engine:** 90 kW power  **Endurance:** 1.5 hours  **Cruise Range:** |
| **Bye Aerospace eFlyer 2 [51]**  Image result for Bye Aerospace eFlyer 2 | **Span Wing:** 11.58 m  **Length:**  **Height:**  **Aspect Ratio:** | **Fuselage:** Side-by-side, cockpit.  **Wing:** Rectangular, low wing, monoplane, fixed wing.  **Tail:** Conventional, aft tail.  **Engine:** tractor (single-engine) propeller-driven  **Landing gear:** Tricycle | **Max takeoff weight:** 862 kg  **Payload weight:** 200 kg  **Stall Speed:**  **Cruise Speed:** | **Max Speed:** 250 km/h  **Engine:** Siemens SP70D; 90 kW power  **Endurance:** 3.5 hours  **Cruise Range:** |
| **Siemens Magnus eFusion [52]**  Image result for Siemens Magnus eFusion | **Span Wing:** 8.3 m  **Length:** 6.62 m  **Height:** 2.4 m  **Aspect Ratio:** | **Fuselage:** Side-by-side, cockpit.  **Wing:** Tapered, low wing, monoplane, fixed wing.  **Tail:** Conventional, aft tail.  **Engine:** tractor (single-engine) propeller-driven  **Landing gear:** Tricycle | **Max takeoff weight:** 600 kg  **Payload weight:** 190 kg  **Stall Speed:** 64.8 km/h  **Cruise Speed:** 185 km/h | **Max Speed:** 313 km/h  **Engine:** Siemens SP55D; 60 kW power  **Endurance:** 1 hour  **Cruise Range:** |
| **Yuneec E 340 [53]**  Image result for Yuneec E 340 aircraft | **Span Wing:** 13.8 m  **Length:** 6.98 m  **Height:**  **Aspect Ratio:** | **Fuselage:** Side-by-side, cabin.  **Wing:** Tapered, rectangular, high wing, monoplane, fixed wing.  **Tail:** V-tail, aft tail.  **Engine:** tractor (single-engine) propeller-driven  **Landing gear:** Tricycle | **Max takeoff weight:** 470 kg  **Payload weight:** 177 kg  **Stall Speed:** 70 km/h  **Cruise Speed:** 96.5 km/h | **Max Speed:** 152.88 km/h  **Engine:** Yuneec Power Drive 40; 40 kW power  **Endurance:** 2.5 hours  **Cruise Range:** 227 km |
| **Diamond DA-36 E-Star [54]**  Image result for Diamond DA36 E-Star | **Span Wing:** 16 m  **Length:** 7.1 m  **Height:** 1.7 m  **Aspect Ratio:** | **Fuselage:** Side-by-side, cockpit.  **Wing:** Tapered, low wing, monoplane, fixed wing.  **Tail:** T-tail, aft tail.  **Engine:** tractor (single-engine) propeller-driven  **Landing gear:** Tricycle | **Max takeoff weight:** 800 kg  **Payload weight:**  **Stall Speed:**  **Cruise Speed:** | **Max Speed:**  **Engine:** Siemens; 70 kW power  **Endurance:**  **Cruise Range:** |
| **Extra 300 LE [55]**  The aircraft’s maiden public flight was completed at Schwarze Heide Airport in July 2016. Credit: Extra Aircraft. | **Span Wing:** 8 m  **Length:** 7.5 m  **Height:** 2.6 m  **Aspect Ratio:** | **Fuselage:** Tandem, cockpit.  **Wing:** Tapered, low wing, monoplane, fixed wing.  **Tail:** Conventional, aft tail.  **Engine:** tractor (single-engine) propeller-driven  **Landing gear:** Tail gear | **Max takeoff weight:** 820 kg  **Payload weight:** 200 kg  **Stall Speed:** 101.86 km/h  **Cruise Speed:** | **Max Speed:** 337.5 km/h  **Engine:** Siemens SP260D; 260 kW power  **Endurance:** 20 minutes at max power  **Cruise Range:** |