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:** |