



MEMO AND APPENDICES

MEMO FROM THE DIRECTOR OF THE BUREAU OF AERONAUTICS TO THE CHIEF OF THE AIR FORCE, DATED 1918, CONCERNING THE PROGRESS OF THE DEVELOPMENT OF THE AIRCRAFT ENGINE.

APPENDIX A - SUMMARY

1. THE PROGRESS OF THE DEVELOPMENT OF THE AIRCRAFT ENGINE (1918)

The progress of the development of the aircraft engine has been rapid and continuous since the first attempts were made to apply the principles of the internal combustion engine to the propulsion of an aircraft.

The first successful engine was the Wright engine, which was used in the Wright Flyer in 1903. This engine was a single-cylinder, four-stroke engine with a compression ratio of 15 to 1.

The development of the aircraft engine has since that time proceeded rapidly, and the engines now in use are of a type which is fundamentally different from the Wright engine.

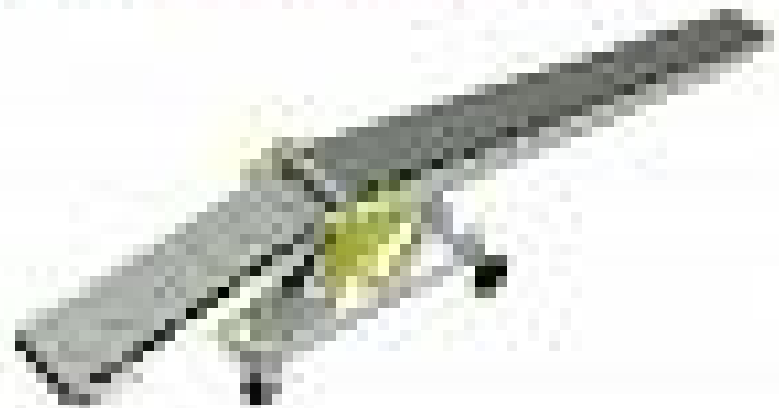


FIGURE 1. A biplane with a yellow engine mounted on the upper wing.



Year	Engine Type	Power (hp)
1903	Wright engine	12
1908	Wright engine	15
1910	Wright engine	20
1912	Wright engine	25
1914	Wright engine	30
1916	Wright engine	40
1918	Wright engine	50
1920	Wright engine	60
1922	Wright engine	70
1924	Wright engine	80
1926	Wright engine	90
1928	Wright engine	100
1930	Wright engine	110
1932	Wright engine	120
1934	Wright engine	130
1936	Wright engine	140
1938	Wright engine	150
1940	Wright engine	160
1942	Wright engine	170
1944	Wright engine	180
1946	Wright engine	190
1948	Wright engine	200
1950	Wright engine	210
1952	Wright engine	220
1954	Wright engine	230
1956	Wright engine	240
1958	Wright engine	250
1960	Wright engine	260
1962	Wright engine	270
1964	Wright engine	280
1966	Wright engine	290
1968	Wright engine	300
1970	Wright engine	310
1972	Wright engine	320
1974	Wright engine	330
1976	Wright engine	340
1978	Wright engine	350
1980	Wright engine	360
1982	Wright engine	370
1984	Wright engine	380
1986	Wright engine	390
1988	Wright engine	400
1990	Wright engine	410
1992	Wright engine	420
1994	Wright engine	430
1996	Wright engine	440
1998	Wright engine	450
2000	Wright engine	460
2002	Wright engine	470
2004	Wright engine	480
2006	Wright engine	490
2008	Wright engine	500
2010	Wright engine	510
2012	Wright engine	520
2014	Wright engine	530
2016	Wright engine	540
2018	Wright engine	550
2020	Wright engine	560