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FOREIGN

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QUARTERLY CHART
AIRPLANE CHARACTERISTICS AND PERFORMANCE

PUBLISHED BY AUTHORITY OF THE COMMANDING GENERAL, ARMY AIR FORCES,
BY THE CHIEF, ENGINEERING DIVISION, AIR TECHNICAL SERVICE COMMAND,
WRIGHT FIELD, DAYTON, OHIO.

1 October 1944

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27 Oct 44

(From Gen. Candee)
P.O. Req. #1637118

MONTHLY CHART OF FOREIGN AIRPLANE CHARACTERISTICS AND PERFORMANCE

Characteristics and Performance data shown are evaluations of the latest information obtained from various sources including British, Army, and Navy Intelligence. The data itself is derived from estimates based on known characteristics and from actual flight tests of the aircraft in question. Figures shown here are constantly subject to change as later and more detailed information becomes available.

An attempt has been made to express the data in terms which are analagous to those used by the Army Air Forces for the expression of characteristics and performance in similar charts. Therefore the following definitions will be generally applicable:

ENGINE RATINGS are given for the engine as a unit, and do not include ram which may increase the ratings under flight conditions. NORMAL RATED POWER is the maximum power permissible for continuous use and may be obtained between sea level and the normal rated altitude of the engine. Normal rated altitude is the altitude at which normal rated power is developed at normal rated speed with full throttle under standard altitude conditions. (An engine with a two speed or two-stage supercharger has two or more normal rated altitudes). MILITARY RATED POWER is a maximum power permitted for short duration only. TAKE-OFF POWER is the maximum power designated by the manufacturers for use under sea level conditions.

SPEEDS: The high speed based on design gross weight is given at the critical altitude of the airplane (i.e. where best performance is obtained with the horsepower shown). CLIMB is determined with the design gross weight and using take-off and then maximum continuous power. TAKE-OFF and LANDING is based on design gross weight.

RANGE-FUELS-BOMBS: These columns should be used together and take into consideration the weight shown in the weight column. RANGE is based on ideal cruising conditions, utilizing best combination of power, altitude, etc., and do not include any safety factors or allowances for warm-up, take-off, climb, navigation variations, et. Practical ranges average 75% of the value shown or less.

ARMAMENT: Installations for design gross weight.

COMBAT PROTECTION includes Leak Proof (L.P.) Tanks, Armor and Bullet Proff (B.P.) Glass

THIS REPORT SUPERSEDES PREVIOUS EE-306-3 PUBLICATIONS: SUPERSEDED PUBLICATIONS, IF NO LONGER OFFICIALLY REQUIRED, WILL BE DESTROYED IN THE MANNER PRESCRIBED IN PARAGRAPH 23, A.R. 380-5, DATED 28 SEPTEMBER 1942

AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with @ SPEEDS & POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	FUEL with MAXIMUM NORMAL (WITH MAX. BOMBS)	BOMBS at NONE NORMAL MAXIMUM	WEIGHTS WEIGHTS WEIGHTS	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
BLACKBURN FIREBRAND ONE NAPIER SABRE III	1570/15250 1920/15000 2250	350/18000/- - -	11/20000 31600 -	1350 -	- 1025/238/ - -	- 200 -	- NONE -	9929 - 12550 -	50'0" 37'5" 570 SQ.FT.	4-20MM.-[illegible]	-	ONI 1/23/42 ETOUSA REPT. 274
BLACKBURN ROC I ONE BRIS.PERSEUS XII	905/6500 745/6500 850	223/7520/ - - 77	25.6/15000 18200 -	- -	650/130/ - - -	140 - -	NONE - 500	5157 8042 - -	46'2" 35'7" 512 SQ.FT.	4-.303/500	NONE	MID-ONI 11/7/42
BLACKBURN ROC I ONE BRIS.PERSEUS XII	905/6500 745/6500 850	225/6500/ - - 83	22.1/15000 19100 -	- -	900/140/ - 600/130/ - 600/130/ -	196 146 141	NONE 500 500	5940 8320 8376 8412	46'2" 35'7" 512 SQ.FT.	4-.303-500	PILOT ARMOR ONLY	MID-ONI 11/7/42
BOULTON PAUL DEFIANT I ONE RR-MERLIN III	990/12250 1050/16250 880	304/17000/ - - 87	8.5/15000 30000 -	1500 2310	580/180/ - 455/150/ - -	125 125 -	NONE NONE -	5958 - 7718 -	39'4" 35'0" 224 SQ.FT.	4-.303-500	ARMOR L.P. TANKS	B.A.C. 5/12/42
BOULTON PAUL DEFIANT II ONE RR-MERLIN XX	1190/16000 1170/21000 1280	335/22000/ - - -	7.0/15000 34200 -	1550 2370	480/175/ - 370/275/ - -	125 125 -	NONE NONE -	5187 - 7765 -	39'4" 35'0" 224 SQ.FT.	4-.303		B.A.C. 5/12/42
BRISTOL BEAUFIGHTER I TWO BRIS. HERCULES XI	1200/14000 1510/11250/ 1550	324/11750/ - - -	- 30000 -	1705 2580	1515/225/- - -	660 - -	NONE - -	15931 21120 - -	57'10" 45'1" 451 Sq.Ft.	4-20MM.-285 6-.303-1000	ARMOR L.P. TANKS B.P. GLASS	M.A.P. DAYTON BAC
BRISTOL BEAUFIGHTER II TWO RR-MERLIN XX	1180/18000 1170/21000 1280	329/20400/ - - -	9.5/15000 30000 -	2070 2505	- 1510/228/ - -	660 - -	NONE - -	12895 20374 - -	57'10" 41'6" 451 SQ.FT.	4-20MM.-285 6-.303-1000	ARMOR L.P. TANKS B.P. GLASS	M.A.P. THRU DAYTON BAC 11/8/42
BRISTOL BEAUFIGHTER III TWO BRIS.HERCULES VI	1300/15500 1550/15500 [illegible]	335/15500/ - - -	7.8/15000 27000 -	1845 2550	1480/243/ - - -	660 - -	NONE - -	- 21522 - -	57'10" 41'6" 451 SQ. FT.	4-20MM.-240 6-.303-1000	ARMOR L.P. TANKS B.P. GLASS	M.A.P. THRU DAYTON BAC 11/8/42
DEHAVILAND MOSQUITO VI TWO RR-MERLIN XXI	1180/18000 1170/21000 1260	* 380/22000/ - -	7.9/20000 29500 -	2175 2535	1205/240/ - - -	483 - -	1000 - -	14519 19822 - -	54'2" 41'2" 450 SQ. FT.	4-20MM.-150 4-.303-500	-	M.A.P. THRU DAYTON BAC 11/8/42
FAIREY FIREFLY ONE RR-GRIFFON II	1365/17000 1480/19000 1745	338/21000/ - - -	10.2/20000 30600 -	1950 - -	- 700/202/ - -	- - -	- NONE -	8731 - 11371 -	44'6" 37'0" 328 SQ.FT.	2-20MM.-175 2-20MM.-150	-	ONI 1/23/42 ETOUSA REPT. 274

NOTES: * ESTIMATE

AC—AIR CORPS

DA—DEFENSE AID

PO—PURCHASE ORDER

Prepared by: Technical Data Laboratory, Engineering Division

BRITISH FIGHTER

CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH FIGHTER

DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS % POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	AT. EMPTY WEIGHTS WEIGHTS WEIGHTS	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
FAIREY FULMAR II ONE RR-MERLIN 30	1240/7250 1260/8750 1300	264/9500/- 75	20.3/20000 24000 -	- -	925/150/ - - -	186 - -	NONE - 500	7575 9980 - -	46'0" 40'4" 378 SQ.FT.	8-.303-1000 OR 4-.50-360	ARMOR L.P. TANKS B.P. GLASS	MID-ON 11/7/42
HAWKER HURRICANE IIB ONE RR- MERLIN XX	1180/18000 1170/21000 1280	335/22000/- -	5.9/15000 35600 -	1250 1980	540/170/ - 555/281/ -	116 116	NONE NONE	5290 - 7200 7200	40'8" 31'5" 258 SQ.FT.	12-.303-500	ARMOR L.P. TANKS	B.A.C. 5/12/42
HAWKER HURRICANE IIC ONE RR-MERLIN XX	1180/18000 1170/21000 1280	327/20500/- -	- 35000 -	1770 2160	480/214/ - -	116 -	NONE -	5555 - 7580 -	40'0" 31'5" 258 SQ.FT.	4-20MM.-120	ARMOR L.P. TANKS	AIR TECH. SECT. ETOUSA REPT.NO.T-4 10/29/42
HAWKER HURRICANE IID ONE RR-MERLIN XX	1180/18000 1170/21000 1280	313/22000/- -	- 34500 -	- -	- 460/210/ - -	- - -	- NONE -	- 7656 -	40'0" 31'5" 258 SQ.FT.	2-.303-400 2/40MM.-16	-	AIR TECH. SECT. ETOUSA REPT.NO.T-4 10/29/42
HAWKER TEMPEST I ONE NAPIER SABRE IV	1770/20000 1900/22000 2000	450/26000/- -	6.7/20000 38800 -	1965 2460	- 827/247 -	- 830 -	- NONE -	8380 - 11600 -	41'0" 33'6" 307 SQ.FT.	4-20MM.-	-	M.A.P.THRU DAYTON AAF 11/8/42
HAWKER TEMPEST II ONE BRIS.CENTAURUS IV	- 1780/18250 -	420/19000/- -	7.2/20000 35800	1850 2445	- 996/249 -	- 250 -	- NONE -	8105 - 11550 -	41.0 33.6 307 SQ.FT.	4-20 M.-	-	M.A.P.THRU DAYTON AAF 11/8/42
HAWKER TYPHOON IB ONE NAPIER SABRE II	1675/16250 1800/16250 2010	414/21000/- -	7.5/20000 34600 -	2500 2220	610/238/- 410/344/ -	124 124 -	NONE NONE -	8337 D 10500 10500 -	41'0" 42'0" 297 SQ.FT.	12-.303/500 OR 4-20MM.-150	ARMOR L.P. TANKS B.P. GLASS	M.I.D. 10/24/41 CABLE 6/15/41
MARTIN-BAKER ONE NAPIER SABRE II	1675/16250 1800/16250 2010	430/19000/- -	- - -	- -	1 3/4 HRS. ENDURANCE - -	- - -	- - -	- - -	37'0" - -	6-20MM.-200	-	SPECIAL ARMY OBSERV. 1/24/42
SUPERMARINE SPITFIRE VA ONE RR- MERLIN XLV	1200/16000 1235/17750 1185	373/19500/- -	5.2/15000 37600 -	- -	- 500/241/- -	- 102 -	- NONE -	- 6212 -	36'10" 30'0" 242 SQ.FT.	8-.303-350	ARMOR L.P. TANKS B.P. GLASS	AAF DAYTON FLIGHT TEST
SUPERMARINE SPITFIRE VB ONE RR-MERLIN XLV	1200/16000 1235/17750 1185	371/20000/- -	6.6/20000 37700 -	1200 1830	- 480/185/- 535/210/-	- 102 102	- NONE NONE	4935 - 6460 6460	36'10" 30'0" 242 SQ.FT.	4-.303-350 2-20MM.-60	ARMOR L.P. TANKS B.P. GLASS	B.A.C. 6/12/42

NOTES:

*ESTIMATE
**AT WEIGHT OF 10885#
D ESTIMATED TAKE-OFF WEIGHT OF 10500#

Prepared by: Technical Data Laboratory, Engineering Division

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AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 October 1942

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS & POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	AT. EMPTY WEIGHT AT. WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
SUPERMARINE SPITFIRE VC ONE RR-MERLIN XX	1200/16000 1235/17750 1185	369/29500/- -	7.0/20000 35500 -	- -	1085/206/- 474/ - /- -	- - -	NONE NONE -	5067 - 6745 -	36'10" 30'4" 242 SQ.FT.	4-20MM.-120	ARMOR L.P. TANKS	AIR. TECH. SEC STOUSA DT. NO. 274 /29/42
SUPERMARINE SPITFIRE VII ONE RR-MERLIN 61	1190/25000 1500/24000 1375	405/26500/- -	7.8/20000 40250 -	2085 2220	- 752/235/- -	- 144 -	- NONE -	6031 - 8000 -	40'2" 51'4" 248 SQ.FT.	4-.303-350 2-20MM.-120	ARMOR L.P. TANKS B.P. GLASS	M.A.P. THRU DAYTON BAC 11/8/42
SUPERMARINE SPITFIRE IX ONE RR-MERLIN 61	1190/25000 1500/24000 1378	405/26500/- -	4.2/15000 40750 -	.875 2140	- 472/228/- -	- 102 -	- NONE -	- 7450 -	36'10" 31'10" 242 SQ.FT.	4-.303-350 2-20MM.-120	ARMOR L.P. TANKS B.P. GLASS	M.A.P. THRU DAYTON BAC 11/8/42
SUPERMARINE SPITFIRE XX ONE RR-GRIFFON II	1470/15250 1800/15250 2010	391 /18000/- -	- 35500 -	1980 2460	- 500/249/- -	- 145 -	- NONE -	- 9400 -	40'5" - -	4-20MM.-120	ARMOR L.P. TANKS B.P. GLASS	M.A.P. THRU DAYTON BAC 11/8/42
AEST LAND MELKIN TWO RR-MERLIN 61	1190/25000 1500/24000 1375	431/26000/- -	6.25/20000 44000 -	1890 2850	- 1560/245/- -	- 554 -	- NONE -	12895 - 16700 -	70'3" 41'4" 460 SQ.FT.	4-20MM.-120	-	M.A.P. THRU DAYTON BAC 11/8/42
AEST LAND AHIRLWIND TWO RR-PEREGRINE I	860/13500 890/15000 855	338/15800/- -	8.4/20000 30000 -	1890 2250	590/190/- 370/305/-	165 105 -	NONE NONE -	8040 10118 10222 -	45'0" 32'5" 281 SQ.FT.	4-20MM.-60 OR 12-.303-	ARMOR L.P. TANKS B.P. GLASS	S.A.C. 5/12/42
BRISTOL BLENHEIM TYF TWO MERCURY XV	825/14000 - -	260/12000/- -	14/15000 24200 -	- -	- - -	- - -	- - -	9235 14100 12660 -	56'4" 42'7" 469 SQ.FT.	4-.303-500 2-.404-400 2-.303-	-	AIR INFO. DIV. NAVY DEPT. WASH. D.C. 8/43
DEHAVILLAND MOSQUITO X TWO MERLIN 76	1460/12000 1570/24000 -	417/25000/- -	- 40000 -	- -	- - -	- - -	- - -	14421 - 19700 -	54'2" 41'2" 454 SQ.FT.	4-.303-500 4-20MM-150	-	AS ABOVE

NOTES:

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BRITISH BOMBARDMENT

AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS % POWER: MAXIMUM NORMAL (WITH MAX. BOMBS) / MAXIMUM NORMAL (WITH MAX. BOMBS) / NONE NORMAL MAXIMUM / AT EMPTY WEIGHT WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS—CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
ARMS.-WHITWORTH WHITLEY V TWO RR-MERLIN X	965/15000 1010/11750 1075	225/17000/- -	27.5/15000 19000 -	- -	1945/170/- 1365/170/- 470/170/-	- - -	1250 3500 7000	18745 - 32000 -	84'0" 69'4" 1235 SQ.FT.	1-.303-400 4-.303-1000	-	AIR TECH.SEC. ETOUSA REPT. NO.274 10/29/42
AVRO LANCASTER I FOUR RR-MERLIN XX	1180/18000 1170/21000 1280	280/20000/-	18.5/15000 A. 25000 B. 24500	4200 2550	3000/185/- 2810/185/- 1130/195/-	3040 2556 1235	NONE 4250 12750	55000 60000 60000	102'0" 68'11" 1297 SQ.FT.	4-.303-2500 4-.303-1000 2-.303- 500	ARMOR L.P. TANKS B.P. GLASS	A.D./R.D.T.I M.A.P.
AVRO LANCASTER II FOUR BRIS. HERCULES	1500/16500 1650/16500 1610	241/16500/- -	20/15000 A. 21200 B. 25000	5000 2400	2950/185/- 2450/195/- 1075/195/-	3058 2556 1200	NONE 3900 12750	57970 63000 63000 63000	102'0" 68'11" 1297 SQ.FT.	4-.303-2500 4-.303-1000 2-.303- 500	ARMOR L.P. TANKS B.P. GLASS	A.D./R.D.T.I M.A.P.
BRISTOL BEAUFORT I TWO BRISTOL TAURUS VI	985/3750 1140/3570 1085	270/5500/- -	- 19500 -	- -	- 1765/195/- -	- - -	- - 500	11910 - 19090 *	58'0" 44'7" 503 SQ.FT.	2-.303-600 2-.303-600	-	AIR.TECH.SEC. ETOUSA REPT.NO.274 10/29/42
BRISTOL BLENHEIM IV TWO BRISTOL MERCURY	- 925/14000 920	266/15000/- -	-/10000 27000 -	- -	- 1410/270/75%	- 720 555	- 1100 1500	9250 - 14400 14400	56'4" 42'9" 459 SQ.FT.	4-.303	ARMOR L.P. TANKS B.P. GLASS	AEROPLANE 5/29/40 M.I.D. 5/28/41
BRISTOL BLENHEIM V BRISTOL MERCURY XV	- 925/14000 920	244/6000/- -	- 19400 -	- -	- 1250/170/- -	- - -	- 1000 -	- 17740 * -	56'4" 42'9" 459 SQ.FT.	1-.303-400 4-.303-1000	- -	AIR.TECH.SEC. ETOUSA REPT.NO.274 10/29/42
BRISTOL BUCKINGHAM TWO BRIS. CENTAURUS IV	- 1780/19250 -	350/19250/- -	16.0/15000 A. 22500 B. 27200	4350 2400	3500/215/ - 1670/281/- 1670/281/-	1890 1260 1260	NONE 4050 4000	21274 46800 35550 35550	71'9.6" 46'5" 710 SQ.FT.	8-.303-1000 2-.303-700	-	A.D./R.D.T.I M.A.P.
DEHAVILAND MOSQUITO MK V TWO RR-MERLIN XXI	1180/18000 1170/21000 1280	D 379/22200/- 102	11/1700 28800 *	2550 2400	- 1720/-/- 1540/-/-	- 643 643	- 2000 2800	15129 - 20540 21310	54'2" 41'2" 450 SQ. FT.	NONE	ARMOR L.P. TANKS B.P. GLASS	I.T.M. #11 DEH.CANADA
FAIREY ALBACORE ONE BRIS. TAURUS XII	985/3750 1130/5500 1085	170/4800/- 68-84	10.8/10000 14400 -	- -	** 790/114/- 680/195/-	234 - 234	NONE - 1500	7105 9000 - 12400	50'0" 40'0" 405 SQ.FT.	1-.303-400 2-.303-750	ARMOR L.P. TANKS	MID-ON! 11/7/44
FAIREY BARRACUDA ONE RR-MERLIN 30	1240/7150 1260/8750 1400	255/11000/- -	6.7/6000 21000 -	- -	- 655/138/- -	- - -	- 1610 -	9142 - 13177 *	49'2" 40'6" 414 SQ. FT.	2-.303 1-.303-600(RECONN. ONLY)	-	AIR.TECH.SEC. ETOUSA REPT.NO.274 10/29/42

NOTES:

* OPERATIONAL CEILING; 500 FT/MIN RATE OF CLIMB
** NORMAL RECONN. LOAD
A SERVICE CEILING AT MAXIMUM WEIGHT
B SERVICE CEILING AT MEAN WEIGHT
* MAXIMUM WEIGHT AT TAKE-OFF
D HIGH SPEED IN TEST ON MK IV AT BRIGHT FIELD WAS 355/20,500

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BRITISH BOMBARDMENT

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FAIREY SWORDFISH ONE BRIS. PEGASUS III OR 30	750/4750 – –	114/3500/– – 74	12.6/1000 17000	– –	** 672/103.5 – 466/103.5	 201 – 201	 NONE – 1500	5104 7853 – 9245	45'6" 35'4" 607 Sq.Ft.	2-.303- 500	L.P. Tanks Only	MID-ON 11/7/42
HANDLEY PAGE - HALIFAX II FOUR RR-MERLIN XX	1180/18000 1170/21000 1280	258/19000/–	25.0/15000 A. 2100 B. 2500	3900 2550	2250/195/– 1785/195/– 650/195/–	2815 2254 935	NONE 4250 13000	35255 59000 59000 59000	99'0" 70'1" 1250 Sq.Ft.	10-.303-1000 4800 Rds.Res.	ARMOR L.P. Tanks B.P. GLASS	A.D./R.D.T.
HANDLEY PAGE HALIFAX III FOUR BRIS.HERCULES VI	1500/13500 1530/15500 1610	270/15500/–	25.0/15000 A. 19000 B. 23000	3900 2700	2540/–/– 1810/–/– 630/–/–	5090 2254 924	NONE 4950 13000	33750 63000 63000 63000	99'0" 70'1" 1250 SQ.FT.	10-.303-1000 4800 Rds.Res.	ARMOR L.P. Tanks B.P. GLASS	A.D./R.D.T. M.A.P.
HANDLEY PAGE HAMPDEN TWO BRIS. PEGASUS XVIII	750/14750 885/15000 965	239/15800/– 74	26.5/15000 14000 –	3500 –	– 1720/–/– 700/–/–	– 785 376	– 2000 5000	12754 – 22500 22500	69'2" 53'4" 767 SQ.FT.	4-.303	L.P. Tanks	B.A.C. 6/12/42
SHORT SHETLAND FOUR BRIS. CENTAURUS 5 S.M.	1650/19000 2000/20000 2400	243/3280/– –	8.7/5000 A. 12500 B. 17000	– –	5520/–/– 2920/–/– 1130/–/–	7000 5590 2620	NONE 4000 24000	71000 120000 120000 120000	140'6" 110'9" 2736 Sq.Ft.	4-.50-1000 4-.40- 950 4-.30- 500	–	A.D./R.D.T. M.A.P.
SHORT STIRLING I FOUR BRIS. HERCULES XI	1200/14000 1510/11250 1590	255/10500 –	24.5/15000 A.15500 B.20500	4200 3300	2485/200/– 2060/200/– 915/200/–	3230 2706 1342	2250 5750 14000	45200 70000 70000 70000	99'0" 87'0" 1460 SQ.FT.	8-.303-1000	ARMOR L.P. Tanks B.P. GLASS	A.D./R.D.T. M.A.P.
SHORT STIRLING III FOUR BRIS.HERCULES VI	1500/15500 1530/15500 1610	285/15500/– –	25.4/15000 A.18000 B.22000	4200 3300	2445/200/– 2015/200/– 880/200/–	3230 2706 1314	1500 5000 14000	43545 70000 70000 70000	99'0" 87'0" 1460 SQ.FT.	10-.303-1000	ARMOR L.P. TANKS B.P. GLASS	A.D./R.D.T. M.A.P.
SHORT SUNDERLAND III FOUR BRIS.PEGASUS XVIII	750/14750 885/15000 965	195/3000/– –	10/5000 A.11700 B.15600 –	9900 –	2970/–/– 2300/–/– 1895/–/–	3060 2666 2245	NONE 1900 4700	31517 58000 58000 58000	112'0" 85'4" 1687 SQ.FT.	6-.303-1000 1-.303- 700	ARMOR L.P. TANKS B.P. GLASS	A.D./R.D.T. M.A.P.
SHORT SUNDERLAND IV FOUR BRIS HERCULES XVII	– 1675/9500/– –	264/9500/– –	5.5/5000 A.14500 B.19000 –	6600 –	3135/–/– 2845/–/– 2545/–/–	4080 3780 3450	NONE 1900 4000	41910 73350 73350 73350	112'9" 85'4" 1687 SQ.FT.	6-.303-1000 1-.303- 700	ARMOR L.P. TANKS B.P. GLASS	A.D./R.D.T. M.A.P.
VICKERS WARWICK I TWO P&W WASP S1H-G	– 1500/14000 –	245/14000/– –	18.0/15000 20000	4500 3300	1780/180/– 1460/180/– –	1458 1225 750	3875 5275 8000	28750 45000 45000 45000	98'8" 70'4" 1020 Sq. Ft.	4-.303-2000 4-.303-1000 2-.303- 500	–	A.D./R.D.T. M.A.P.

NOTES:
A. SERVICE CEILING AT MAXIMUM WEIGHT
B. SERVICE CEILING AT MEAN WEIGHT
**. NORMAL RECONNAISSANCE LOAD.

Prepared by: Technical Data Laboratory, Engineering Division

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AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - FIGHTERS (U.S. BUILT)

DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS & POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
VICKERS WARWICK II TWO BRAS. CENTAURUS - IV	– 1775/18400 –	277/20000/ – –	20.0/15000 A. 23000 B. 25500	3000 5300	1675/180/ – 1380/180/ – 1070/180/ –	1458 1223 978	5100 5500 8000	29000 47500 47500 47500	95'8" 72'4" 1020 Sq. Ft.	8–.303–1000 2–.303– 500	–	A.D./R.D.T.L. M.A.P.
VICKERS WELLINGTON IC TWO BRAS. PEGASUS XVIII	750/14750 895/15000 965	235/15500/– –	25/10000 15000 –	– –	2550/165/ – 1805/165/ – 1200/165/ –	– – –	1000 2750 4500	18800 – 30000 –	86'0" 60'10" 840 Sq. Ft.	6–.303–1000	–	AIR TECH.SEC ETOUSA REPT.NO.274 10/29/42
VICKERS WELLINGTON II TWO RR-MERLIN X	960/13000 1010/17750 1075	244/17000/ – –	33.5/15000 18000 –	4050 –	– 1580/195/ – –	– 900 737	– 3500 4500	20050 – 32000 32000	86'0" 60'10" 840 Sq. Ft.	4–.303–1000 2–.303– 500	YES	B.A.C. 5/12/42
VICKERS WELLINGTON III TWO BRAS.HERCULES XI	1200/14000 1510/11250 1590	265/11500/ – –	28.0/15000 20000 –	– –	2200/185/ – 1500/185/ – –	– – –	1500 4500 –	21220 – 34500+ –	86'0" 60'10" 830 Sq. Ft.	8–.303–1000	–	AIR TECH.SEC ETOUSA REPT.NO.274 10/29/42
VICKERS WELLINGTON VI TWO RR-MERLIN IX	1045/30000 1045/30000 1225	312/32000/ – –	65/35000 A. 36700 B. 38500	3078 2355	– – –	– – –	– – 4500	20290 – – 31600	86'2" 62'5" 840 Sq. Ft.	4–.303–1000	–	A.D./R.D.T.L. M.A.P.
VICKERS WELLINGTON X TWO BRAS.HERCULES VI	1500/13500 1550/15500 1610	265/15500/ – –	22.0/15000 A. 20500 B. 24000	2850 2550	2110/185/ – 1490/185/ – –	1245 900 –	1500 4500 –	21110 – 34500+ –	86'0" 60'10" 830 Sq. Ft.	6–.303–1000 2–.303– 500	–	A.D./R.D.T.L. M.A.P.

NOTES:

A. SERVICE CEILING AT MAXIMUM WEIGHT
B. SERVICE CEILING AT MEAN WEIGHT
+ MAXIMUM WEIGHT AT TAKE-OFF

Prepared by: Technical Data Laboratory, Engineering Division

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BRITISH - FIGHTERS (U.S. BUILT)

AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS & POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS—CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
BELL P-400												
"AIRACOBRA-I"	1000/11000	338/12400	5.1/10000	–	–	195-(U.S.)	–	5879				AAEE-774
	1150/11800		29000	–	–	120-(U.S.)	–	7982	34'10"	4-.30-1000		&
	1150	–	–		–	–	–	7835	29'9"	2-.50- 270	–	AFDU-No.34
ONE V-1710-E4								–	213 Sq. Ft.	2-20mm- 60		
CURTISS HK-81A								–				
"TOMAHAWK I"	–	–	–	–	–	–	–	–	–	2-.50		AAEE-765,A
	–	–	–	–	–	–	–	–	–	4-.303	–	
	–	–	–		–	–	–	–	–			
ONE V-1710-C-15												
CURTISS HK-81A		*		Ø				–				
"TOMAHAWK II"	–	343/16000	7.7/15000	1320	–	158	–	–	–	2-.50		AAEE-765
	–	83	31400	–	–	101	–	–	–	4-.30	–	
	–		–		–	–	–	–	–			
ONE V-1710-C15								7068 - Test				
CURTISS HK-87A					*			5973				
"KITTYHAWK I"	1000/11000	332/14400	14.2/20000	–	B 1050/ - / -	199	–	8866	37'4"			AAEE/785
	1150/11800	* 322/16200	28700	–	B 650/ - / -	148	–	8480	31'9"	6-.50-2460T	–	
	1150	–	–		–	–	–	–	236 Sq. Ft.			
ONE V-1710-F3R								8480 Test				
CURTISS HK-								5482				
"KITTYHAWK II"	1010/16000	354/20400	10.9/20000	–	–	209	–	–	–			AAEE/785,A
	1120/18500		34300	–	–	158	–	8910	–	–	–	
	1300	–	–		–	–	–	–	–			
ONE V-1650-1												
DOUGLAS DB-7								11775				
"HAVOC I"	1000/12500	–	–	–	–	–	–	–	61'4"			
	1050/13100		–		–	326	–	15332	47'6"	–	–	
	1200	–	–		–	–	–	–	455 Sq. Ft.			
TWO R-1830-S3C4G												
DOUGLAS DB-7				**				24144				
"HAVOC II"	1275/11500	329/13000	–	2640	–	–	–	–	–			AAEE/771
	–		–	–	–	326	–	17741	48'10"	–	–	
	1600	–	–		–	458	–	18751	–			
TWO R-2600-A5B												
GRUMMAN-G-36								–				
"MARTLETT I"	900/15200	–	–	1560	–	–	–	–	–			AAEE/762
	–		–	–	–	–	–	–	–	4-.50-	–	
	1200	–	–		–	–	–	–	–			
ONE R-1820-G205A												
GRUMMAN-G-36								5499				
"MARTLETT-II"	1000/12500	–	–	1710	890/ - / -	160	–	7790	38'3"			AAEE/762,A
	1050/13100		–	–	–	130	–	7550	29'1"	6-.50-225	–	
	1200	–	–		–	–	–	–	261 Sq. Ft.			
ONE R-1830-S3C4G												
GRUMMAN-G-36												
"MARTLETT III"		NO DATA AVAILABLE					NO DATA AVAILABLE					

NOTES:
* TESTED WITH JETTISONABLE FUEL TANK GR.WT. 8840#
** AT 17500# AND 0° FLAP
B ALLOWANCE MADE FOR WARM UP, TAKE OFF, ETC.
* STILL AIR RANGE.
A ANOTHER TEST AT 7300# GAVE 331 MPH
Ø AT WEIGHT= 6366#

Prepared by: Technical Data Laboratory, Engineering Division

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AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - FIGHTERS (U.S. BUILT)

DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS % POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
GRUMMAN	–	–	–	–	–	–	–	5591				AAEE/762,8
MARTLETT IV	–		–		–		–	–	–	2-.50-470		
	–	–	–	–	–	144 (U.S.)	–	7760	–	2-.50-450		
ONE R-1820-205A-3					–	–	–	–	–	2-.50-500		
NORTH AMERICAN NA-73	1000/11000		7.3/15000			A –	–	–	–	2-.50-900		AAEE/781
MUSTANG I*	1150/11800	370/15000	30000	1920	960/ – / –	155 (U.S.)	–	8525	–	2-.50-800		
ONE V-1710-F3R	1150	–	–	–	–	–	–	–	–	2-.50-300		
										2-.50-200		

NOTES:

* 15° FLAP FOR TAKEOFF.
A ONE TANK LABELLED 84 U.S. GAL. WOULD HOLD ONLY 72 GALS.

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CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - BOMBARDMENT (U.S. BUILT)

DATE: 1 October 1944

MODEL & MFR. / ENGINE / CONT. NO. PLANES	ENG. RATINGS: NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS: HIGH/ALT./H.P. LANDING	CLIMB: TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND: T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS % POWER: MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT WEIGHT	DIMENSIONS: SPAN LENGTH WING AREA	ARMAMENT: NO. OF GUNS—CAL—RDS. OF AMM. PER GUN	COMBAT PROT.: TYPE	REFERENCE
LOCKHEED 414 "HUDSON III" TWO R-1820-G205A	900/14200 – 1200	284/15100 – –	– – –	* 2100 –	13 HRS. 7.5 HRS. –	896 644 –	– 1080 –	– – –	55'6" 44'3" 551 SQ. FT.	2–.303–1500 3–.303–900 TOT. 2–.303–2000	–	AAEE/739.D.
LOCKHEED 414 "HUDSON IV" TWO R-1830-SC46	– – –	260/10000 – –	12.0/10000 – –	2620 – –	– – –	– – –	– – –	– – – 20000 TEST	– – –	– –	– –	AAEE/739.B.
LOCKHEED 414 "HUDSON V" TWO R-1830-S4C4-G	1000/12500 1050/14100 1200	– – –	– – –	– – –	– – –	– – –	– – –	– – –	– – –	– –	– –	
LOCKHEED VEGA 27 "VENTURA" TWO R-2800-S1A4G	1500/7500 1850/2700 1850	– – –	– – –	– – –	– – –	– 565 –	– 2500 –	17468 – 26700 –	– – –	4–.303–1000 2–.303–750 2–.50–250	– –	AAEE/790
MARTIN 167 MARYLAND I TWO R-1830-SC4G	900/12000 1050/7700 –	294/9000 60	10.1/15000 27240 –	1560 –	A 1870/179/ – – –	750 U.S. – –	– – –	11000 17830 15870 – 17890 TEST	51'4" 46'8" 542 SQ. FT.	5–.303–500	– –	AAEE/765
MARTIN 167 MARYLAND II TWO R-1830–	NO DATA AVAILABLE					NO DATA AVAILABLE						
MARTIN 187 BALTIMORE I TWO R-2600-A5BA	1275/11500 – 1500	– – –	– – –	– – –	– – –	– – –	– – –	– – –	– – –	4–.30 4–.30–500 2–.30–400 2–.50–400	– –	
MARTIN 187 BALTIMORE II TWO R-2600	NO DATA AVAILABLE					NO DATA AVAILABLE						
MARTIN 187 BALTIMORE III TWO R-2600-A5BA	1275/11500 – 1600	301/18400 –	10.5/14000 23500 –	– –	£ – 770/–/ – –	– 488 –	– 2000 –	– 20330 –	– – –	– –	– –	AAEE/782.A.
NORTH AMERICAN NA90 MITCHELL I TWO R-2600-9	1350/13000 1450/12000 1700	– – –	– – –	– – –	– – –	– – –	– – –	– – –	– – –	– –	– –	AAEE/794

NOTES:

* – AT 20500#
A – ALLOWING 91 U.S. GAL. FOR TAKEOFF, ETC.
£ – RANGE GIVEN IS PRACTICAL RANGE – 75% STILL AIR RANGE

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CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - BOMBARDMENT (U.S. BUILT) DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS & POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
BOEING 299Y "FORTRESS II" Four R-1820-65	1000/25000 1200/25000 1200	300/25000/- - -	16.1/15000 - -	2850 2400	2550/190/ - 2230/190/ - 1815/190/ -	2520 2120 1738	- 3700 7400	22065 - - -	- - -	2-.50-450 2-.50-650 2-.50-200 2-.50-	-	AAEE/770,A AND AD/RDTH
CONSOLIDATED 2 B "CATALINA" Two R-1830-	NO DATA AVAILABLE											
CONSOLIDATED-18-30 "LIBERATOR I" Four R-1830-S3C4G	1000/12500 1050/13100 1200	- - -	- - -	4800	- - -	- - -	- - -	- - -	110'0" 66'0" 104 Sq. Ft.	-	-	AAEE/769
CONSOLIDATED-18-30 "LIBERATOR II" Four-R-1830-S3C4G	1000/12500 1050/13100 1200	250/14000/- - -	- - -	- - -	- 2200/ - / - -	- - -	- 8000 -	- - 55000	- - -	4-.303-600 + 600 Res. 4- 303-2200 4- 303-1000 2- 303- 500	-	R.F.D.U.No 44
CONSOLIDATED-18-30 "LIBERATOR III" Four R-1830-43	1100/25000 1200/25000 1200	305/25000/- - -	25.0/10000 - -	3885 -	3000/ - / - 2180/ - / - 1540/ - / -	3120 2270 1610	NONE 4000 8000	33500 - - -	- - -	-	-	AAEE/769,A
DOUGLAS DB-7 "BOSTON I" Two R-1830-SC3G	900/12000 1000/11500 1050	307/10000/- - -	13/20000 **29800 22500	2025 -	2110/ - / - **750/ - / - 880/180/ -	- - -	- - -	- - - -	- - -	- -	-	
DOUGLAS DB-7 "BOSTON II" Two R-1830	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - - -	- - -	- -	-	*
DOUGLAS DB-7 "BOSTON III" Two R-2600-A5B	1275/11500 - 1600	£ 312/13000/- - -	- - - -	3540 A. 2835 B. -	- 620/170/ - 880/170/ -	512 382 526	- 2000 2000	15718 23000 21550 22400	C 61'4" 47'3" 455 Sq. Ft.	4-.303-500 4-20MM-60 2-.303-500	-	AAEE/752,C
LOCKHEED 214 "HUDSON I" Two R-1820-G102A	900/6700 - 1100	259/8000/- - -	- - -	2970 -	- - -	- - -	- - -	- - - 20500 - TEST	- - -	- -	-	AAEE/739
LOCKHEED-414 "HUDSON II" Two R-1820-G102A	900/6700 - 1100	- - -	- - -	- -	- - -	- - -	- - -	- - -	- - -	- -	-	AAEE/

NOTES:

* AT 53000# GROSS WEIGHT
** ESTIMATED
A AT 23000# GROSS WEIGHT WITH 15° FLAP
B AT 21500# GROSS WEIGHT WITH 15° FLAP
C ARMAMENT USED IN "INTRUDER" VERSION
£ AT 17500# GROSS WEIGHT

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AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH BOMBARDMENT (U.S. BUILT)

DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with SPEEDS % POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	FUEL with MAXIMUM NORMAL (WITH MAX. BOMBS)	BOMBS at NONE NORMAL MAXIMUM	WEIGHTS WT. EMPTY WEIGHT NORMAL WEIGHT MAXIMUM	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
NORTH AMERICAN NA-90	1350/13000	294/14800	10.8/15000	–	–	–	–	–	–	2-.50 –		AAEE/794,A
MITCHELL II	1450/12000	–	26700	–	–	–	–	–	–	2-.50 –	–	
TWO R-2600-13	1700		–		–	–	–	–	–	1-.50 –		
								26000 – TEST				
VOUGHT SIKORSKY V-156	750/9800	222/4700	20.0/10000	*				–				
CHESAPEAKE I	–	–	16000	2500	1170/ – / –	245 (U.S.)	500	9040	–	4-.50 –		AAEE/773
ONE R-1535-SB4G	825		–	–	–	–	–	–	–	1-.30-1400	–	
					–	–	–	–	–			
VOUGHT – SIKORSKY	–	**	**	**				3620				
KINGFISHER I	–	153/5900	29.2/10000	2130	–	244	–	–	–	1-.30-500		AAEE-785
ONE R-985-AN-2	–	–	11600	–	730/105/ –	100	–	4990	–	1-.30-600	–	
			–		440/105/ –	80	500	5455	–			
VULTEE	–	–	–	–	–	–	–	–				
VENGEANCE I	–	–	–	–	–	–	–	–	–			
ONE R-2600-A5B-5	–		–		–	–	–	–	–	6-.30 –	–	
									–			

NOTES:

* AT 8940#
** AT MAX. GROSS WEIGHT

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AIRPLANE CHARACTERISTICS & PERFORMANCE

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MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS & POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY GROSS WEIGHT GROSS WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
FOCKE-WULF 190A-* (1) BMW – [illegible] FIGHTER	1450/ – 1600/14000 1595/ S.L.	395/17000/– 110	6.25/18000 38000 NONE	2250 2700	820/220/ – 380/335/ – 440/230/ –	216 138 138	NONE NONE NONE	5240 9200 8500 9800	34'5" 29'2" 205 Sq. Ft.	2–7.9MM–1000 2–20MM– 250 2–20MM– 60	ALL	TECH. DATA FILES
JUNKER: [illegible] (2) BMW – [illegible] NIGHT FIGHTER	1450/18000 1550/20000 1595/ S.L.	347/17500 –	10.3/18500 30200 –	2510 2055	1620/243/ – 800/230/ – –	948 444 –	NONE	21000 27800 25000 –	55'0" 47'0" 590 Sq. Ft.	3–20MM– 120 7–7.9MM–1000	ALL	"
MESSERSCHMITT ME–109R –4 (1) DB–601E FIGHTER	1220/15000 1350/14500 1395/ S.L.	390/22000/– –	5.7/18000 39000 NONE	1800 2100	1050/205/ – 600/295/ – 540/200/ –	185 185 105	NONE – 550	4740 EST. 6980 5420 7000	32'5" 29'3" 172 Sq. Ft.	2–7.9MM–500 1–20MM– 200	ALL	"
MESSER: ME–109G2, 4A6 (1) DAIM. BENZ: DB605A FIGHTER	1330/16000 1520/15000 1455/ S.L.	395/22000/– –	6.3/18000 37500 NONE	1800 2100	1020/210/ – 415/315/ – 535/210/ –	185 105 105	NONE – 550	4987 7230 6670 7500	32'5" 29'3" 172 Sq. Ft.	2–7.9MM–500 1–20MM– 200 (2–20MM OPTIONAL)	ALL	"
MESSERSCHMITT 110 G (2) DB–605B FIGHTER	– 1350/18700 –	368/19000/– –	7.3/18000 35800 NONE	– –	1700/205/ – 905/205/ – –	675 280 280	615 – –	14500 20900 16700 –	53'11" 40'4" 415 Sq. Ft.	4–7.9MM–1000 2–7.9MM–750 2–20MM–180	ALL	"
MESSER: ME–210C–1 (2)DAIM.BENZ:DB–605E FIGHTER–BOMBER	– 1550/18700 –	370/21000/– –	11.8/19000 35000 –	– –	2350/245/ – 1350/240/ – 1240/245/ –	905 505 505	– 1100 2850	15500 24500 21500 23500	53'9" 40'3" 400 Sq. Ft.	2–7.9MM–500 2– 13MM–450 2– 20MM–300	ALL	"
MESSER: ME–410A–1 (2) DAIM.BENZ: DB–603A–2 FIGHTER–BOMBER	– 1700/19000 –	395/22000/– –	11.5/19000 39000 –	– –	2130/250/ – 1190/255/ – 1110/250/ –	905 505 505	– 1100 2850	18000 25000 24000 25000	53'8" 40'10" 400 Sq. Ft.	2–20MM – 2–7.9MM– 2–13MM –	ALL	"

NOTES:

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MODEL & MFR. / ENGINE / CONT. NO. PLANES	ENG. RATINGS: NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS: HIGH/ALT./H.P. LANDING	CLIMB: TIME TO/FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND: T. O. OVER 50' OBS. / LAND OVER 50' OBS.	RANGE with @ SPEEDS & POWER: MAXIMUM NORMAL (WITH MAX. BOMBS)	FUEL with: MAXIMUM NORMAL (WITH MAX. BOMBS)	BOMBS at: NONE NORMAL MAXIMUM	WEIGHTS: WEIGHT EMPTY / GROSS WEIGHT / GROSS WEIGHT	DIMENSIONS: SPAN / LENGTH / WING AREA	ARMAMENT: NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
DORNIER DO-217E (2)BMW – 801A BOMBER	1365/14250 1495/17750 1530/ S.L.	310/17000 –	21/17000 22500 –	4650 –	2150/920/ – 1010/255/ – 900/245/ –	1650 760 760	NONE 4400 6500	22500 34300 52000 34300	62'6" 56'5" 590 Sq. Ft.	1–20MM–60 2–7.9MM–1100 4–7.9MM – 2–13MM–450	ARMOR	TECH DATA FILES
FOCKE-WULF 200K (4) BRAMO-FAFNIR "323R" BOMBER	785/14000 940/12000 984/ S.L.	245/13000 95	11.7/14000 21500 –	– –	2450/170/ – 1250/170/ – 1140/215/ –	2112 1105 1004	5300 5300 11000	47200 50500	108'0" 78'0" 1200 Sq. Ft.	2–20MM–200 4–7.9MM–800 2–13MM–450	ARMOR	"
HEINKEL 111P (2) DB–601A BOMBER	850/15250 1035/13100 1065/ S.L.	274/12300 85	16/15000 23500 –	2200 1800	2640/230/ – 1630/215/ – 1090/195/ –	1321 912 848	NONE 4400 6200	24400 25600 25600 31000	73'10" 53'8" 948 Sq. Ft.	1–20MM–200 5–7.9MM–500 1–13MM–325	ALL	"
HEINKEL 177 (2) DB–610 BOMBER-RECONN.	– 2800/17000 –	305/20000 –	29/17000 32000 –	– –	3550/210/ – – 580/210/ –	EST. 3080 3080 600	1100 15800 22000	45200 58000 58000 –	123'6" 67'5" 1195 Sq. Ft.	EST. 6/10–13MM AND 20MM.	ALL	"
HENSCHEL HS–129 (2) GNOME–RHONE 14M BOMBER	560/13100 800/8000 800/ S.L.	275/9000 –	7/10000 24500 –	3000 1800	690/150/ – – 440/150/ –	240 150 150	220 220 770	9500 – 11400 12000	44'6" 33'4" 305 Sq. Ft.	2–7.9MM–1000 2–20MM–200 1–30MM– 30	ALL	"
JUNKERS JU–52/3M (3) BMW – 132A TROOP TRANSPORT	– 650/ S.L. –	165/ S.L. –	– 21000 –	1920 1800	790/132/ – 530/132/ – –	640 455 –	22 TROOPS	– 25100 25100	95'10" 62'0" 1190 Sq. Ft.	5–7.9MM–	NONE	"
JUNKERS 86P–1 (2) JUNKERS JU–207A PRESS. CABIN BOMBER	800/26000 1000/26200 1000/ S.L.	290/30000 –	– 42000 –	1980 2280	1700/ – / – 1500/240/ – –	640 580 –	NONE 1760 2200	– 22900 –	* 78'0" 53'0" 900 Sq. Ft.	NONE	NONE	"
JUNKERS 87D (1) JUNKERS JU–211J DIVE BOMBER	1175/14300 1300/12500 1360/ S.L.	255/14500 –	19/15000 18500 NONE	– –	1220/180/ – 720/180/ – 620/185/ –	350 204 204	NONE 2200 4400	8900 11500 12500 14300	45'4" 35'5" 535 Sq. Ft.	4–7.9MM–1000	ALL	"
JUNKERS 88A–4 (2) JUNKERS JU–211F BOMBER	– 1075/13500 –	275/14000 –	31.8/17500 28000 –	3000 1640	1853/224/ – 1195/230/ – 540/225/ –	1190 770 445	NONE 2200 6400	– 26500 26000 27600	66'0" 47'0" 590 Sq. Ft.	1–20MM– 7–7.9MM–	ALL	"
JUNKERS–188 (2) BMW 801 G–2 BOMBER	– 1530/20000 –	325/20000 –	– 34000 –	– –	– 800/254/ – –	990 640 MP. –	– 3800 –	– – –	72'6" 42'0" 600 Sq. Ft.	1–20MM – 3–13MM –	ALL	"

NOTES: * ESTIMATED

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TYPE O F ZEKE ONE NAKAJIMA SAKE 12 NK-1 FIGHTER	– – 950/13750 –	326/16000/– – –	2750/ S.L. 38500 –	– – –	1480/149/ – 895/146/ – –	225* 139 –	– – –	3708 6135 5555 –	39'5" 29'7" 248 Sq. Ft.	2–7.7MM – 500 2–20MM–60	NONE	FOR. EQUIP.
TYPE O F HAMP ONE NAKAJIMA SAKAE 21 FIGHTER	– 1020/6400 950/ S.L. –	328/16600/– 65 –	3410/ S.L. 35200 –	– – –	1580/146/ – 1180/153/ – –	228* 134 –	– – –	3913 5331 5750 –	36'2" 29'9" 238 Sq. Ft.	2–7.7MM – 500 2–20MM–100	NONE	" "
TYPE 4 F TONY ONE TYPE 2 KAWASAKI FIGHTER	– 1100/ – – –	370/18000 – –	– – –	– – –	1050/ – / – 700/ – / – –	– 192 –	– – –	– 5550 5800 –	38'4" 30'0" –	4–12.7MM –	ARMOR L.P. TANKS	" "
TYPE 2 F TOJO ONE 1450 NAKAJIMA FIGHTER	– – 1450/ – –	360/12300 – –	– – –	– – –	– – –	197 128 –	– – –	– 5200 5596 6080	31'0" 29'3" 185 Sq. Ft.	2–7.7MM – 2–12.7MM–	ARMOR L.P. TANKS (INEFFECTIVE)	" "
TYPE 2 2EF TWO MITSU 2 FIGHTER	945/17800 1050/8000 –	330/18000/– – –	– 34000 –	– – –	– 850/ – / – –	– 302 –	– – –	– 11500 –	50'0" 37'0" 535 Sq. Ft.	4–12.7MM– 1–37MM –	NONE	" "
TYPE 1 F OSCAR TYPE 99 FIGHTER	– 950/15000 990/ S.L.	315/15000/– –	– 35000 –	– – –	1225/175/ – – –	297* 149 –	– – –	3490 5700 4520 –	37'7" 29'0" 237 Sq. Ft.	2–13MM–220	L.P. TANKS (INEFFECTIVE) 13MM ARMOR	" "
TYPE 97 F NATE ONE HIKARI FIGHTER	800/13000 – –	280/13000/– –	3500 FPM 33000 –	– – –	800/200/ – 460/233/ – –	161* 80 –	– – –	3250 5000 4400 –	35'0" 24'4" –	4–7.7MM – 550	NONE	" "
TYPE O FPP RUFE ℰ ONE NAKAJIMA SAKAE 12NK-1 SEAPLANE FIGHTER	– 950/13750 –	280/16000/– –	2500/ S.L. 36500 –	– – –	1480/149/ – 895/146/ – –	225** 139 –	– – –	4345 6436 5920 –	39'5" 33'2" 248 Sq. Ft.	2–7.7MM–500 2–20MM– 60	NONE	" "
TYPE O 2EB HELEN TWO NAKAJIMA 1450 MEDIUM BOMBER	– – 1450/ S.L.	299/19700/– –	17.1/20000 29200 –	– – –	– 2040/233/ – –	1200 1200 –	– 2290 2290	14750 – 25491 –	58'0" 54'0" 755 Sq. Ft.	3–7.7MM– 1– 20MM–	L.P. TANKS (INEFFECTIVE) ARMOR	" "
TYPE 97 2EB SALLY M42 TWO TYPE 100 MITSU. MEDIUM BOMBER	– – 1450/	285/13000/– –	– 30000 –	– – –	– 950/ – / – –	– – –	– – 6600	– 21500 –	74'8" 48'0" –	5–7.7MM – 1–12.7MM–	L.P. TANKS (INEFFECTIVE)	" "

NOTES: R – REVISED

* – JETTISONABLE FUEL TANK.
** – EXTRA FUEL CARRIED IN MAIN FLOAT.
ℰ – THIS IS O 5SF ZEKE EQUIPPED WITH 1 MAIN AND TWO WING TIP FLOATS.

JAPANESE DO NOT USE NAME OF MANUFACTURERS IN DESIGNATING THEIR AIRCRAFT.

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JAPANESE AIR FORCE

DATE: 1 October 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS @ SPEEDS @ POWER MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	AT. EMPTY WEIGHT NORMAL WEIGHT MAXIMUM WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
TYPE 1 2EB BETTY TWO KAESI 15 MEDIUM BOMBER	– 1420/19800 1320/	288/15600/– – –	– 30000 –	– –	3000/190/– 1800/180/– –	1454 765 –	– 1760 –	14722 27500 20442 –	81'10" 66'4" –	4–7.7MM–500 1–20MM–90	L.P. TANKS (INEFFECTIVE)	FOR.TSU/F.
TYPE 99 2EB LILY MK2 TWO TYPE 2 NAKAJIMA LIGHT BOMBER	– – 1150/S.L.	312/17000/– – –	10.4/20000 51900 –	– –	– 1020/252/– –	650 450 –	– 800 1600	9700 – 14500 –	56'10" 43'4" 441 SQ.FT.	4–7.7MM–	NO ARMOR L.P. TANKS (INEFFECTIVE)	" "
TYPE 99 3D VAL ONE KINSEI 44 DIVE BOMBER	990/5500 1075/4500 1000/	239/5200/– – –	– 27000 –	– –	1320/140/– 875/190/– –	515 271 –	– 814 –	5900 – – 8070	48'10" 37'3" –	3–7.7MM–	NONE	" "
TYPE 97 TB KATE ONE NAKAJIMA SAKAE 11 TORPEDO BOMBER	– 1000/– –	230/10000/– – –	– 24000 –	– –	1100/164/– 980/179/– –	– – –	800 1760 –	4850 – 7250 8440	52'0" 34'0" 370 SQ.FT.	2–7.7MM–600 1–7.7MM–400	NONE	" "
TYPE 0 2ER DINAH TWO–OPM MITSUBISHI RECONNAISSANCE	– 1050/– –	315/24000/– – –	– – –	– – –	– – –	– – –	– – –	– – –	70'10" 36'10" –	NONE	NONE	" "
TYPE 2 R JUDY ONE 21 ATSUTA RECONNAISSANCE	964/– – 1200/	– – –	– – –	– – –	– – –	449* 275 –	– – –	5415 – 8048 –	37'8 33'6" 254 SQ.FT.	3–7.7MM–	–	" "
TYPE 0 FP PETE ONE SUISEI 13 REC. FLOAT PLANE	– – –	220/9000/– – –	– 26000 –	– – –	– – –	– – –	– – –	4192 – 5623 –	37'10" 26'5" –	2–7.9MM–500 1–7.7MM–700	NONE	" "
TYPE 97 4EFB MAVIS FOUR–KINSEI 45 FLYING BOAT	– 900/13000 –	160/13000/– – –	– 26000 –	– –	2400/110/– 1900/217/– 1750/110/–	2350 1747 1747	– – 3500	25000 50000 44100 –	131'0" 82'0" –	4–7.7MM– 1–20MM–	NONE	" "
TYPE 98 JILL ONE KASEI 25 TORPEDO BOMBER									48'6" 35'0" –	1–7.7MM–	NONE	" 1

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I-26 M-82 ENGINE FIGHTER	– 1900/15500 –	270/S.L./ 300/15000 –	5/15000 22000 NONE	– –	320/170/– 245/258/– –	67 67 –	– – –	6000 6000 –	29'2" 20'4" 125 SQ.FT.	4–7.6 MM	–	ATS ETOUSA 9/28/43
I-17 M-100 ENGINE FIGHTER	– – 1100	306/12780/–	6.2/12780 35000 NONE	– –	542/278/– – –	– – –	– – 220		55'2" 24'4" 141 SQ.FT.	4–MG	–	M.I.D. 10/10/40
MIG-3 M-35 ENGINE FIGHTER	1200/19500 – –	375/22000/– 310/S.L.	8.5/20000 35000 NONE	– –	470/230/– 390/210/– –	165 165 –	– – 140	6700 6700	34'6" 26'7" 140 SQ.FT.	2–7.6 MM 1–12.7 MM	ARMOR	ATS ETOUSA 9/28/43
IL-2 (STURMOVIK) M-38 ENGINE DIVE BOMBER	1600/6400 – –	250/S.L./– 295/8000/– –	5.6/1000 – –	– –	350/170/– 260/245/– –	120 120 –	1100 1100 –	12500 12500 –	47'11" 38'10" 555 SQ.FT.	2–20 MM 2–7.6 MM	ARMOR L.P. TANKS M.P. GLASS	–
TB-6 FOUR, A4 ENGINES HEAVY BOMBER	– – 600	250/–/–	24/13000 25000 –	– –	1250/–/– – – –	– – –	– – 6600 –	– – – –	– – –	6 MG	–	M.I.D. 4/26/41
SB-8 TWO, M108 ENGINES BOMBER	950/11800 – –	250/S.L./– 260/14000/– 59	10/14000 26248 –	– –	1085/250/– 850/220/– 480/150/–	420 420 242	1320 1320 2640	10055 17000 ? 17000 ?	66'11" 41'0" 518 SQ.FT.	2–7.6MM–350 1–7.6MM–1150 1–7.6MM–700	ARMOR L.P. TANKS	ATS ETOUSA 9/28/43
DB-3F TWO, M-87 ENGINES BOMBER	1100/19700 – –	270/16000/– –	15/16400 26300 –	– –	2500/150/– 1480/230/– 1000/210/–	1000 808 540	5500 2200 6400	21750 19700 21750	70'2" 47'7" 705 SQ. FT.	2–7.6MM–1100 2–7.6MM–1100 1–7.6MM– 650	–	–
PE-2 TWO,M-105 ENGINES DIVE BOMBER	1050/12000 – –	265/S.L./– 295/14000/– –	10/14000 – –	– –	580/185/– 485/255/– –	258 258 –	2200 2200 –	16500 16600 –	56'11" 41'5" 556 SQ.FT.	1–7.6MM– 1–12.7MM–	–	–
TB-7 FOUR,M-56A ENGINES HEAVY BOMBER	1200/13500 – –	235/S.L./– 275/22000/– –	28.5/22000 32000 –	– –	2550/185/– 2200/248/– 1850/185/–	2580 2580 1920	4400 4400 6800	58000 65000 65000	132'0" 74'0" 2080 SQ.FT.	2–7.6MM– 450 1–20MM– 160 1–20MM– 200 2–12.7MM–200	–	–

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