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QUARTERLY CHART

Airplane Characteristics and Performance of

FOREIGN AIRCRAFT

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Foreword

Characteristics and performance data shown are evaluations of the latest information obtained from various sources including British, U.S. 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 A.A.F. for the expression of characteristics and performance in similar charts. Therefore the definitions on the following page will be generally applicable:

THIS REPORT SUPERSEDES PREVIOUS TSEAL-6-A4 PUBLICATIONS; SUPERSEDED PUBLICATIONS, IF NO LONGER OFFICIALLY REQUIRED, WILL BE DESTROYED IN THE MANNER PRESCRIBED IN PARAGRAPH 23, A.R. 380-5.

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DEFINITIONS

ENGINE:	HORSEPOWER RATINGS at altitude are shown but not specified (i.e.) whether Military, War Emergency, etc.	WEIGHTS:	EMPTY WEIGHT consists of complete airplane minus crew, fuel oil, armament, bombs and disposable equipment. GROSS WEIGHT comprise loading with fuel and bombs listed immediately to the left and corresponding to range on same line.
SPEEDS:	MAXIMUM SPEED at altitude shown is based on military power unless otherwise noted. CRUISE SPEED at altitude shown is based on most economical power for long range cruising.	DIMENSIONS:	SPAN is the distance from wing tip to wing tip projected to ground plane. LENGTH is the distance from nose tip to fuselage tip with fuselage level (excluding protruding guns). HEIGHT is maximum in three point position (top of propeller arc). WING AREA is the standard aerodynamic surface area.
CLIMB:	TIME TO ALTITUDE is determined with normal weight and using take-off and then maximum continuous power unless otherwise noted. SERVICE CEILING is the altitude at which the rate of climb is 100 ft. per minute.	ARMAMENT:	Typical gun installations showing number of guns, caliber and rounds of ammunition per gun.
TAKE-OFF & LANDING:	AVERAGE TAKE-OFF & LANDING RUN: Clearance over 50 ft. obstacle shown for British aircraft - others unknown.	BOMBS:	Number and size or bomb load total shown.
RANGE:	RANGE is shown for three representative conditions and takes into account the fuel, bomb loads and weights shown in the columns immediately to the right. Range has been estimated from reliable sources but actual allowances made are not known.	REMARKS:	Miscellaneous features or aircraft.

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AIRPLANE CHARACTERISTICS & PERFORMANCE												DATE: 1 OCTOBER 1945.	
AIRPLANE MODEL	ENGINE MFR.	SPEEDS	CLIMB	T.C.	CREW	RANGE	FUEL	BOMBS	WEIGHTS	DIMENSIONS	ARMAMENT	BOMBS	REMARKS
MANUFACTURER TYPE	MODEL H.P. RATING/ALT.	MAX/ALT. CRUISE/ALT.	TIME TO ALT. SEPR. CEIL.	& LANDING		with MILES MILES	with GALLONS GALLONS	with NONE POUNDS MAX. LB.	EMPTY ALT. LB. POUNDS ALT. LB.	SPAN LENGTH HEIGHT WING AREA	NO/CAL. ROS. EA.	NO & SIZE	
FIGHTERS													
MODEL S 2B/43 FAIREY AVIATION CO. FIGHTER	(1) BRISTOL "CENTAURUS-175M" 2585/3000 2310/14000	367/16000 206/10000	4.0/10000 32400	1290 1680	1	1510/206/10000 950/206/10000 575/206/10000	504 288 204	NONE NONE 760	10940 15080 13670 14110	44' 6" 39' 6" 15' 10" 348 Sq. Ft.	2-50-190	8 - 95	EXTERIOR WITH WINGS FOLDED 30' 0".
SPITFIRE XLV SUPERMARINE AVIATION FIGHTER	(1) ROLLS ROYCE "GRIFFON-65" 2050/8000 1780/21000	448/26000 245/20000	7.0/20000 43500	1770 2280	1	850/245/20000 610/245/20000 450/245/20000	242 170 134	NONE NONE NONE	5578 8488 8058 7840	36' 10" 30' 0" 10' 0" 242 Sq. Ft.	2-20mm-120 4-303-150	NONE	
SPITFIRE XXI SUPERMARINE AVIATION NAVAL-FIGHTER	(1) ROLLS ROYCE "GRIFFON-61" 2080/8000 1820/21000	435/26000 266/20000	9.5/20000 37300	1885 2085	1	613/266/20000 558/266/20000 362/266/20000	186 180 144	NONE NONE 500	7173 9850 9740 10005	37' 2" 30' 0" 10' 0" 244 Sq. Ft.	4-20mm-150	1 - 500	NAVALIZED VERSION OF SPITFIRE XLV.
TEMPEST V HAWKER AERO. CO. FIGHTER	(1) NAPIER "SABRE-11A" 2190/SL 1830/11500	427/19500 246/15000	5.0/15000 36000	1800 2520	1	1530/246/15000 1790/246/15000 350/246/15000	410 302 158	NONE NONE NONE	9010 11510 10862 10000	43' 0" 33' 6" 14' 0" 308 Sq. Ft.	4-20mm-150	NONE	
WELKIN I WESTLAND AIRCRAFT FIGHTER	(2) ROLLS ROYCE "MERLIN-77" 1710/11000 1475/23250	385/27000 255/30000	12.0/30000 45000	1920 2490	1	- 1570/255/30000 -	- 612 -	NONE NONE NONE	12550 - 19500 -	70' 0" 40' 0" 11' 6" 460 Sq. Ft.	4-20mm-120	NONE	
BEAUFIGHTER II BRISTOL AERO. CO. FIGHTER	(2) BRISTOL "HERCULES VI" 1300/13500 1530/15500	333/15600 243/10000	7.8/15000 27000	1845 2550	2	- 1480/243/10000 -	- 660 -	NONE NONE NONE	13930 - 21322 -	57' 10" 41' 6" 15' 6" 451 Sq. Ft.	4-20mm-240 6-303-1000	NONE	
FIREFLY I FAIREY AVIATION CO. FIGHTER	(1) ROLLS ROYCE "GRIFFON II" 1755/SL 1380/19000	319/17000 216/10000	9.6/15000 29700	1950 -	2	1354/216/15000 772/216/15000 -	446 230 -	NONE NONE NONE	10290 13613 11400 -	44' 6" 37' 0" 12' 4" 328 Sq. Ft.	2-20mm-150 2-20mm-175	NONE	CARRIER BASED NAVY FIGHTER.
TYPHOON IB HAWKER AERO. CO. FIGHTER	(1) NAPIER "SABRE II" 2010/SL 1830/11500	405/18000 254/10000	6.2/15000 34000	2220 2810	1	1000/254/15000 610/254/15000 -	293 185 -	NONE NONE NONE	9800 11400 10600 -	41' 6" 32' 0" 15' 0" 278 Sq. Ft.	4-20mm-140	NONE	
SPITFIRE XXI SUPERMARINE AVIATION FIGHTER	(1) ROLLS ROYCE "GRIFFON 61" 1940/SL 1780/21000	454/26000 250/20000	8.0/20000 43000	1875 2490	1	880/250/20000 490/250/20000 -	252 144 -	NONE NONE NONE	7873 9188 8330 -	37' 1" 32' 0" 10' 0" 244 Sq. Ft.	4-20mm-150	NONE	
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AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 OCTOBER 1945

AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SERV. CEIL.	T.O. & LANDING	CREW	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO./CAL. ROS. EA.	BOMBS NO & SIZE	REMARKS	
						MAX. MILES MILES	MAX. GAL. GALLONS	NONE POUNDS MAX. LB.					EMPTY ALT. LB. POUNDS ALT. LB.
FIGHTERS													
SEAFIRE III SUPERMARINE AVIATION FIGHTER	(1) ROLLS ROYCE "MERLIN-55M" 1585/2750	341/6000 172/5000	2.0/5000 32200	320*	1	778/172/5000 513/172/6000	156 102	NONE NONE NONE	6204 7640 6784	36' 10" 30' 0" 10' 0" 242 Sq. Ft.	2-20mm-120 4-303-350	NONE	MARKED VERSION OF SPITFIRE CARRIER BASED WITH 20mm.
FIREBRAND T.F. III BLACKBURN AIRCRAFT TORPEDO & FIGHTER	(1) BRISTOL "CENTAURUS-175M" 2585/3000 2310/14000	362/16000 198/10000	3.7/10000 33400	1320 1710	1	1610/173/10000 1010/173/10000 542/173/10000	503 287 203	NONE NONE 760	11480 16073 14553 15181	51' 4" 37' 7" 12' 10" 383 Sq. Ft.	4-20mm-150	8 - 95	(2) SPAN WITH WINGS FOLDED IS 37' 5".
MOSQUITO-MK 40 DE HAVILLAND AIRCR. FIGHTER BOMBER	(2) PACKARD "MERLIN-31 or 33" 1450/6250 1435/11000	*378/14000 255/15000	9.5/15000 33000	2490 2670	2	1855/255/15000 1650/255/15000 1270/255/15000	736 960 540	NONE 1000 2000	14344 - 22258	54' 2" 40' 6" 12' 5" 454 Sq. Ft.	4-.303-500 4-20mm-150	BOMB BAY 1000 LB. WINGS-EXT. 1000 LB.	(4) HIGH SPEED AFTER DROPPING WINGS 1000 LB. BOMBS.

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AIRPLANE CHARACTERISTICS & PERFORMANCE DATE: 1 OCTOBER 1945

AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SERV. CEIL.	T.O. & LANDING	CREW	RANGE with FUEL with BOMBS		WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. - RDS. EA.	BOMBS NO & SIZE	REMARKS
						MAX. MILES MILES MILES	MAX. GAL. GALLONS GALLONS	NONE POUNDS MAX. LB.	EMPTY ALT. LB. POUNDS ALT. LB.				
BOMBERS													
BUCKINGHAM BRISTOL AERO. CO. BOMBER	(2) BRISTOL "CENTAURUS VIII" 2520/1000 2220/11000	345/11250 235/20000	16.9/20000 25500	3600 3000	4	3100/235/20000 2200/235/20000 1630/308/2000	1760 1280 1280	NONE 2000 4000	23900 39000 32250	71' 10" 48' 6" 18' 6" 710 Sq. Ft.	2-.303-700 8-.303-1000	2-2000	
HALIFAX VI HANDLEY PAGE BOMBER	(4) BRISTOL "HERCULES 100" 1800/10000 1630/20000	312/22000 210/20000	31.0/20000 23500	3000 3000	6	2970/210/20000 2190/210/20000 870/210/20000	3455* 2630 1205	NONE 4500 13000	38900 65000 65000 65000	104' 0" 70' 2" 20' 9" 1280 Sq. Ft.	1-.303-300 4-.303-1160 4-.303-1700 RESERVE AMMO. 4800 RDS.	13000 LB. (MAX.)	(1) 1200 LB. OF EQUIPMENT REMOVED TO CARRY THIS FUEL AT 65000*
LINCOLN A.V. ROE & CO. BOMBER	(4) ROLLS ROYCE "MERLIN 100" 1850/8250 1690/18500	337/21750 220/20000	24.5/20000 28200	3150 3000	7	- 3080/210/20000 1500/220/20000	- 3540 1888	NONE 4150 14000	43400 - 75000 75000	120' 0" 76' 1" 19' 6" 1408 Sq. Ft.	1-.50-500 2-.50-300 2-.50-1000 2-.20mm-400	14000 LB. (MAX.)	DEVELOPMENT OF AIRD LAM- CASTER.
MOSQUITO MK XVI DE HAVILLAND AIRCR. BOMBER (UNARMED)	(2) ROLLS ROYCE "MERLIN 72" 1680/8500 1460/21000	408/26000 245/15000	7.8/15000 37000	2670 2500	2	- 1485/245/15000 1370/245/15000	798 643 600	NONE 3000 5000	14635 - 23000	54' 2" 44' 6" 12' 6" 454 Sq. Ft.	NONE	BOMB BAY 4000 LB. WINGS-EXT. 2 x 500	
LANCASTER III A.V. ROE & CO. BOMBER	(4) PACKARD "MERLIN 28" 1280/SL 1120/18250	270/19000 210/15000	19.3/11000 21500	4200* 2700*	7	- 2230/210/15000 1160/210/15000	3540 2580 1440	NONE 7000 14000	41000 53000 65000 65000	102' 0" 68' 11" 19' 6" 1267 Sq. Ft.	4-.303-1000 4-.303-2500 RESERVE AMMO 4000 RDS.	14000 LB. (MAX.)	(1) D.O. DISTANCE AT MAX. WEIGHT (2) LAND. DIS- TANCE AT LIGHT WEIGHT.
STIRLING III SHORT BROS. BOMBER	(4) BRISTOL "HERCULES VI" 1610/SL 1530/15000	285/15500 200/10000	25.4/15000 22000	4200 3300	7	2450/200/10000 2015/200/10000 880/200/10000	3230 2706 1314	NONE 5000 14000	43545 - 70000	99' 0" 87' 0" 22' 9" 1460 Sq. Ft.	10-.303-1000	14000 LB. (MAX.)	
BARRACUDA V FAIREY AVIATION CO. TORPEDO BOMBER	(1) ROLLS ROYCE "GRIFFON VI" 1890/1250 1675/10500	254/12500 174/5000	4.3/5000 25000	2150 2535	2	700/148/5000 638/162/5000 445/154/5000	274 276 187	NONE 1672 2000	9860 12230 14550 13840	49' 3" 39' 10" 12' 4" 414 Sq. Ft.	2-.303-500	1672 TORPEDO 4-500 6-250 4-250 28 RECONN. FLARES	SHORT WING VERSION, MODEL WITH EXTENDED TIPS HAS 54" SPAN AND 446 SQ. FT. WING AREA.
SUNDERLAND III SHORT BROS. PATROL BOMBER	(4) BRISTOL "PEGASUS 18" 1065/1250	212/1500 143/5000	9.0/5000 17200	6600 -	6	3120/143/5000 1968/143/5000	3057 2233	NONE 4000 -	41250 - 49900 50000	112' 10" 85' 4" 28' 1" 1687 Sq. Ft.	1-.303-700 6-.303-1000 RESERVE AMMO. 2000 RDS.	4000 LB. (NORMAL)	BOMB LOAD CARRIED INTERNAL & EXTERNAL.
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AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 OCTOBER 1945

AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFG. MODEL H.P. RATING/ALT.	SPEEDS		CLIMB TIME TO ALT. SEPV. CEIL.	T.C. & LANDING	CREW	RANGE with FUEL with BOMBS		WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. LRS. EA.	BOMBS NO & SIZE	REMARKS
		MAX/ALT. CRUISE/ALT.					MAX. MILES MILES MILES	MAX. GAL. GALLONS GALLONS	NONE POUNDS MAX. LB.	EMPTY ALT. LB. POUNDS ALT. LB.				
TRANSPORT														
YORK A.V. ROE & CO. TRANSPORT	(4) ROLLS ROYCE "MERLIN XX" 1220/11250 1120/18250	290/20000 190/10000	12.5/10000 22500	3150 2550		5	3020/190/10000 2438/190/10000	2974 2436	8 PASSENGERS 24 PASSENGERS	36000 53000	102' 0" 78' 6" 17' 6" 1300 Sq. Ft.	NONE	NONE	
YORK II A.V. ROE & CO. CARGO-TRANSPORT	(4) BRISTOL "HERCULES VI" 1670/ 5000 1450/12000	287/15000 186/10000	10.5/10000 20500	2820 3600		4	2660/186/10000 1000/186/10000	2974 1350	5260 CARGO 15000 CARGO	39450 65000	102' 0" 78' 6" 17' 6" 1300 Sq. Ft.	NONE	NONE	
WARWICK III VICKERS AVIATION CARGO-TRANSPORT	(2) PRAIT & WHITNEY "R-2800" 1500/14000	273/14700 180/10000	14.8/10000 19500	2700		4	2100/180/10000 1690/180/10000	1476 1212	6710 CARGO 8300 CARGO	29000 45000 43000	96' 8" 70' 5" 18' 6" 1006 Sq. Ft.	NONE	8000 LB. CARGO (NORMAL)	RANGE AND LOADS AS CARGO CARRIER.
HALIFAX "B" HANDLEY PAGE TRANSPORT	(4) BRISTOL "HERCULES 100" 1800/10000 1830/20000	324/22000 185/10000	10.0/10000 24500	3000 3300		5	2470/185/10000 1710/185/10000	2628 1890	7600 CARGO 12000 CARGO	37950 65000 65000	104' 0" 70' 2" 20' 9" 1280 Sq. Ft.	NONE	12000 LB. CARGO (MAX.)	
SPITFIRE XIV PR SUPERMARINE AVIAT. PHOTO RECON.	(1) ROLLS ROYCE "GRIFFON 65" 2050/ 8000 1780/21000	456/26000 290/35000	15.5/35000 43000	2040 2100		1	1650/290/35000 1260/290/35000	415 308	NONE NONE NONE	6547 9000 8352	40' 3" 30' 0" 10' 0" 249 Sq. Ft.	NONE	NONE	UNARMED, HIGH ALTITUDE PHOTOGRAPHIC MODEL.

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DUE TO CONFLICTING AND INCONSISTENCY IN DATA CONTAINED IN VARIOUS REPORTS RECEIVED BY THIS OFFICE, ADDITIONAL CHARACTERISTICS AND PERFORMANCE OF GERMAN PROTOTYPES AND EXPERIMENTAL AIRCRAFT ARE STILL IN THE PROCESS OF EVALUATION. THESE DATA WILL BE INCLUDED IN SUBSEQUENT ISSUES OF THIS CHART AS FAST AS IT BECOMES AVAILABLE. THE AIRPLANE MODELS SHOWN ARE THOSE IN THE ADVANCE STAGES AND THE DATA IS BASED ON THE ACTUAL FLYING ARTICLE.

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AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 OCTOBER 1945

AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H. P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SEPV. CEIL.	T.O. & LANDING CREW	RANGE with FUEL with BOMBS		WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. RDS. EA.	BOMBS NO & SIZE	REMARKS	
					MAX. MILES MILES	MAX. GAL. GALLONS	NONE POUNDS MAX. LB.	EMPTY ALT. LB. POUNDS ALT. LB.					
FIGHTERS													
HE-219 HEINKEL FIGHTER	(2) DAIMLER-BENZ "DB 603" 1750/ S L 1680/18000	400/22000 -	- 32800	- -	2	1545/ - / - -	695 -	- -	19900 26100 27300	60' 8" 51' 0" 14' 5" 478 Sq. Ft.	6-20mm- or 4-20mm- 2-30mm-	MAY USE JET UNITS, BOOSTING SPEED TO 400 MPH.	
FW-190A FOCKE-WULF FIGHTER	(1) BAYERISCHE "BMW-801D" 1695/ S L 1530/20000	385/19000 220/18000	6.5/18000 36000	1800 3000	1	1250/220/18000 525/220/18000	374 162	NONE NONE NONE	5240 8600 10350	2-13mm- 4-20mm- MAY CARRY 11' 6" 2-20mm-140 ON WING RACKS	2200 LB.	LOW & MEDIUM ALTITUDE DAY FIGHTER	
ME-109G MESSERSCHMITT FIGHTER	(2) DAIMLER-BENZ "DB 605A" 1460/ S L 1340/18700	428/24250 200/18000	6.0/20000 38500	1500 2400	1	1045/205/18000 615/205/18000	185 106	NONE NONE NONE	4983 7230 6820	2-13mm- 4-20mm- MAY CARRY 10' 6" 2-20mm-140 ON WING RACKS	550 LB.	ALL AROUND DAY FIGHTER & FIGHTER-BOMBER	
ME-110G MESSERSCHMITT NIGHT FIGHTER	(2) DAIMLER-BENZ "DB-605B" 1460/ S L 1340/18700	368/19000 305/15000	7.3/18000 34800	- -	2	1700/205/18000 905/205/18000	6.3 337	NONE NONE NONE	9900 18000 20700	4-7.9-1000 2/4-20mm-240 1/2-7.9mm- OR 1-20mm-	4000 LB.	USED PRINCIP- ALLY AS A NIGHT FIGHTER	
ME-163B MESSERSCHMITT FIGHTER	(1) WALTERS "TYPE R 211" LIQUID ROCKET UNIT 3000# MAX. THRUST	550/20000 -	2.6/30000 -	APPROX. 3000 FT. RUN MAY NEEDED	1	ENDURANCE TO 12 MIN. WITH FULL POWER; APPROX. 1 HR. WITH INTER- MITTENT POWER.	- 748 -	NONE NONE NONE	- 11500 -	30' 3" 19' 6" -	2-20mm-	NONE	ALL DATA ESTIMATED
ME-262A MESSERSCHMITT FIGHTER	(2) JUNKERS "JUMO 004A" TURBO JET UNITS 2000# THRUST EACH	550/30000 540/20000 450/ -	5.0/32800 46000	3300 3300	1	775/515/20000 550/500/20000 -	745 585 585	NONE NONE 1100	12500 11648 12100	4-20mm- 4-20mm- 2-30mm-80 2-30mm-100	2200 LB. MAX.		
ME-410 MESSERSCHMITT FIGHTER-BOMBER	(2) DAIMLER-BENZ "DB-603A-2" 1750/ S L 1680/18000	395/22000 255/19000	11.5/19000 30000	- -	2	2130/250/19000 1190/255/19000	1192 610	NONE 1100 -	18000 24000 26000	2-7.9mm-1000 2-13mm-500 2/4-20mm-500 MAY CARRY EXTRA 20mm-	2850 LB.	ALSO USED FOR RECON. & PHOTO MISSIONS	
HE-162 HEINKEL FIGHTER	(1) BMW 003 TURBO JET UNITS 1760 LBS. THRUST * S L	522/19700 -	6.6/19700 39400	1200 -	1	620/ - /36000 410/ - /36000	250 205	- NONE	5400 5940 -	23' 8" 29' 9" -	2-30mm-50 2-20mm-120	NONE	*ASSISTED T.O.
FW-154A FOCKE-WULF NIGHT FIGHTER	(2) JUNKERS "JUMO 211R" 1900/ S L	394/26300 -	14.5/26200 35800	- -	2	1160/ - /23000 855/ - /23000	550 400	NONE -	- 18600 -	52' 6" 41' 3" 12' 1" 349 Sq. Ft.	2-20mm-200 2-30mm-110	NONE	
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AIRPLANE CHARACTERISTICS & PERFORMANCE

DATE: 1 OCTOBER 1945

AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SEPN. CEIL.	T.O. & LANDING	CREW	RANGE with FUEL with BOMBS at WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO./CAL. RDS. EA.	BOMBS NO & SIZE	REMARKS	
						MAX. MILES MILES MILES	MAX. GALL. GALLONS GALLONS					NONE POUNDS MAX. LB.
BOMBERS												
DO-217E DORNIER MEDIUM BOMBER	(2) BAYERISCHE "BMW-801A-2" 1495/17750	305/18000 210/15000	15.8/15000 21500	- -	4	2445/210/15000 1170/210/15000	1657 783	NONE 4400 5600	22000 32000 34200	62' 5" 58' 6" 12' 8" 510 Sq. Ft.	2/4-7.9mm- 5-13mm- 1-15mm-250	6600 LB. MAIN OPERATIONAL DORNIER BOMBER.
DO-217M-1 DORNIER MEDIUM BOMBER	(2) DAIMLER-BENZ "DB-603A-2" 1750/ S L 1700/19000	350/22000 240/18000	- 24000	- -	4	1000/240/18000	783	NONE 4400	- 34000	62' 5" 58' 6" 12' 8" 610 Sq. Ft.	2/4-7.9mm- 1-13mm-500 3-13mm- 1-15mm-250 1-20mm-	6600 LB. LATEST IN DORNIER SERIES OF MEDIUM BOMBERS.
HE-177 HEINKEL HEAVY BOMBER	(2) DAIMLER-BENZ "DB-610" 2800/17000	305/20000 210/17000	29.0/17000 32000	- -	7	3560/210/17000 580/210/17000	3596 1373 720	NONE - 22000	43000 - 58000 72500	103' 6" 67' 5" 21' 11" 1095 Sq. Ft.	9-13mm- 3-20mm-	11000 NOR. 22000 MAX. ACTUALLY 4 ENGINES IN TWO PACKAGES.
JU-88S-1 JUNKERS MEDIUM BOMBER	(2) BAYERISCHE "BMW-801G-2" 1695/ S L 1530/20000	370/26000 212/18000	16.5/18000 30000	- -	3	1620/213/18000 700/212/18000	1012 446	NONE 1980	15000 - 25400 29000	65' 11" 47' 0" 16' 8" 590 Sq. Ft.	1-7.9mm- 1-13mm-250 PLUS UNKNOWN ADDITIONAL GUNS	4400 LB. FITTED WITH GM-1 BOOST SYSTEM.
JU-188 JUNKERS MEDIUM BOMBER	(2) JUNKERS "JUMO-213A" 1700/22000	325/20000 254/ -	13.0/18000 33000	- -	4	1500/232/ S L 1200/232/ S L	952 771	NONE 4400 8800	- - -	72' 6" 49' 0" 16' 8" 600 Sq. Ft.	2-7.9mm- 2-13mm- 2-20mm-	8800 LB. SUPERSEDED JU-88 SERIES.
JU-288C JUNKERS BOMBER	(2) DAIMLER-BENZ "DB-610B" -	385/23000 -	- -	- -	-	- -	- -	- -	50600 -	75' 6" 59' 2" -	3-13mm- 1-15mm-	6600 LB. (MAX.)
Ar-234B ARADO RECONN. BOMBER	(2) JUNKERS "JUMO 004" TURBO JET UNITS 2000# THRUST # S L	470/19700 -	- 37700	2820 -	1	1050/416/32800	978	NONE	22000 18500 18700	47' 5" 41' 8" 13' 9" 298 Sq. Ft.	2-20mm-200	2-1000 LB. BOMBS * ASSISTED T.O.
Ar-234C ARADO RECONN. BOMBER	(4) BMW-003 TURBO JET UNITS 1600# THRUST # S L	546/20000 -	3600 fpm # S L -	4650 -	1	ENDURANCE OF 1 HR. 25 MIN. # 90% THRUST 870/520/39400	- 900	NONE	21100	-	-	1-4400 LB.
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AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. DEFL. CEIL.	T.C. & LANDING	CREW	RANGE with		FUEL with		BOMBS NO POUNDS MAX. LB.	WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. RDS. EA.	BOMBS NO & SIZE	REMARKS
						MAX. MILES MILES	MILES	MAX. GAL. GALLONS	GALLONS		EMPTY ALT. LB. POUNDS ALT. LB.	TRANS. PASSN. RECONN.				
TRANSPORT																
Ar-232B ARADO TRANS. TROOP CARRIER	(4) BMW 323K 1000/3 L	211/15100 180/6500	- -	- -	4	638/181/ 6500 -	- -	715 -	- -	- -	46600 -	110' 0" 77' 2" 18' 7" 1535 Sq. Ft.	1-20mm -500 1-13mm -500 2-MK121-100	- -	NONE	REAR CARGO DOOR 145 HAMP. 15 PAIRS OF WHEELS UNDER FUSELAGE
JU-290A JUNKERS RECONN. & TRANSPORT	(4) BAYERISCHE "BMW 801L-2" -	280/18000 -	10.0/6500 * 99000 LB. 19700 * 99000 LB.	- -	3	3785/ - / - 2490/ - / -	- -	5512 -	- -	- 17600 LB.	TRANS. 48000 PASSN. 90500 RECONN. 100000	138' 0" 92' 6" 4-7.5mm 2210 Sq. Ft.	TRANS. VERSION 1-20mm - 4-7.5mm - RECONN. VERSION 2-20mm - 2-13mm -	- -	NONE	
JU-352A JUNKERS TRANSPORT	(3) BAYERISCHE "BMW 323R-2" -	- 150/ -	- -	- -	4	1860/ - / - 1120/ - / -	- -	1245 770	- -	5750 9500 CARGO	27500 43000 43000	112' 0" 79' 6" -	- -	NONE	NONE	
JU-390 JUNKERS TRANSPORT	(6) BAYERISCHE "BMW 801E " -	285/18700 -	788 fpm -	- -	-	4970/205/ 6500 4040/217/ 6500	- -	9000 7200	- -	- -	161000 148300	165' 0" -	- -	NONE	NONE	
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AIRPLANE MODEL MANUFACTURED TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SERV. CEIL.	T.O. & LANDING	CREW	RANGE with		FUEL with		BOMBS at WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. ROS. EA.	BOMBS NO & SIZE	REMARKS
						MAX. MILES MILES MILES	(HIGHER ALT.)	(HIGHER ALT.)	(HIGHER ALT.)	EMPTY ALT. LBS. POUNDS ALT. LBS.					
EXP. & PILOTLESS BOMBS															
FW-183 FOCKE-WULF FIGHTER	(1) HEINKEL-HIRTH MES 011A TURBO JET UNIT 3000H THRUST @ S L	588/22900	4760 fpm @ SL 47200	2200	1	ENDURANCE 2 HRS. * 404 mph @ 22900 * 55% THRUST.	520 820	NONE	11200 9510	32' 10" 30' 7" 12' 8" 242 Sq. Ft.	2-30mm-120 2-30mm-110	1-1100 LBS.			
DO-335 ** DORNIER FIGHTER RECON.	(2) DAIMLER BENZ DB-603 1800/ S L	475/25000	1920 fpm	-	1- 2	1200/ - - 2400/385/19700 1460/ - -	627 1260 790	-	17600 22450	45' 1" 45' 2" 430 Sq. Ft.	3-30mm- 2-20mm-	3300 LBS. MAX.	** DO ENVS IS TWO DO ENVS APPLIED TOGETHER. POWERED BY 4-DORNIER ENGINES		
ME-263 MESSERSCHMITT FIGHTER	(2) WALTERS LIQUID ROCKET UNITS (1) 3750H THRUST (1) 660H THRUST (NOTE 4)	590/ -	3.0/32800	3000	1	ENDURANCE 15 MIN. * 497 mph.	610	NONE	-	30' 3" 19' 5" 188 Sq. Ft.	2-20mm-	NONE	(4) SMALLER ROCKET USED FOR CRUISING ONLY.		

PILOTLESS BOMBS

TYPE	ENGINE	DIMENSIONS	WEIGHTS	FUEL	SPEEDS	ALTITUDE	RANGE
Long Range Rocket A-4 (V-2)	Rocket Venturi 68,500 lb. thrust for 85 Seconds	SPAN. - None Length - 45' - 10" Body Diam. - 5' - 6"	T.O. Weight 24400 lbs. (Warhead weights 2150 lbs.)	Alcohol and liquid oxygen 16,700 lbs. Total Fuel	* 5100 ft. per sec. (3500 m.p.h.)	60-70 miles	Max. - 220 miles
Flying Bomb Type FZG-76 (V-1)	Impulse Duct Engine 550 lb. thrust * 400 600 lbs. Thrust @ 180	SPAN. - 17' - 0" Length - 21' - 5" Diam. - 2' - 8" Wg. Area - 60 Sq. Ft.	T.O. Weight 5,200 lbs. (Warhead weights 2450 lbs.)	Gasoline 150 gal. capacity	390 m.p.h. @ 2,000 ft.	2,000 ft.	Max. - 150 miles

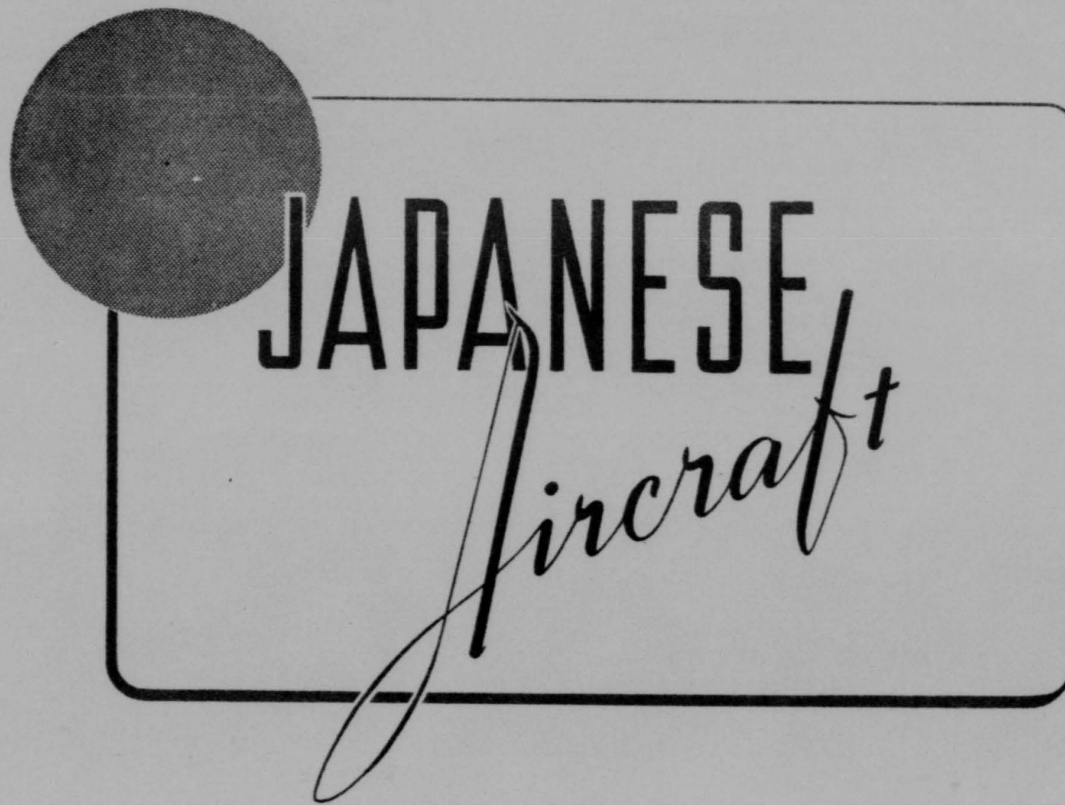
NOTES * Speed at impact approx. 2500 ft. per. sec. (1700 m.p.h.)

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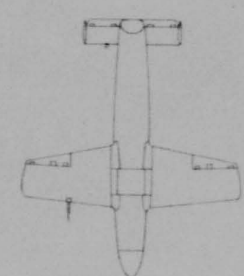
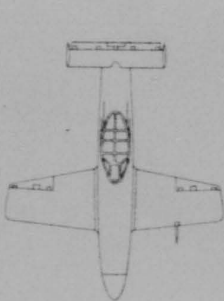
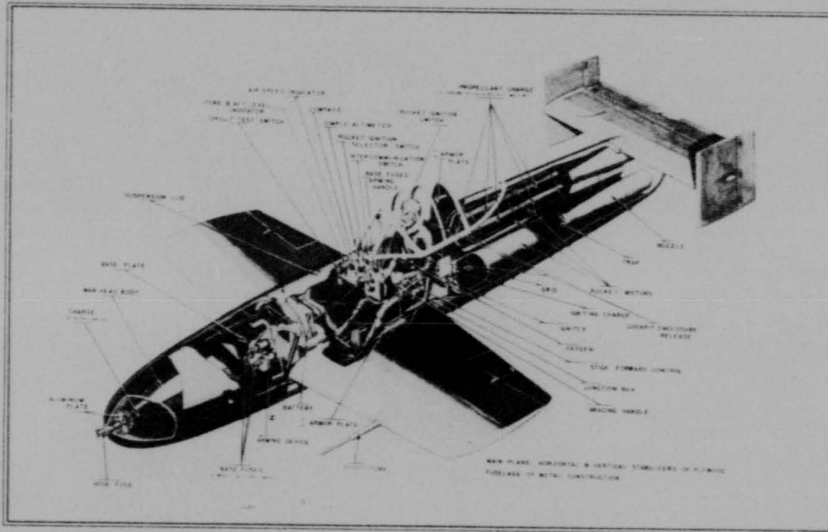
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BAKA
ROCKET PROPELLED PILOTED AIRCRAFT BOMB



ENGINE	DIMENSIONS	WEIGHTS	ANGLE OF DIVE (PRIOR TO LEVELING OFF)	TERMINAL SPEED IN DIVE (INITIAL SPEED LEVEL 1000)	LEVEL FLIGHT IMPACT SPEED AFTER FIRING ROCKETS			HORIZONTAL DISTANCE TRAVELED UNDER ROCKET POWER (S.L.)			TOTAL HORIZONTAL RANGE miles		
					1 ROCKET	2 ROCKETS	3 ROCKETS	1 ROCKETS	2 ROCKETS	3 ROCKETS			
1750 HP (1000) 1000 1750 HP (1000) 1000 1750 HP (1000) 1000 1750 HP (1000) 1000 1750 HP (1000) 1000 1750 HP (1000) 1000 1750 HP (1000) 1000 1750 HP (1000) 1000	SPAN 18' 0"	2645 2645 2645 2645 2645 2645 2645 2645	5° 24'	230	52.0	350	455	535	0.6	1.3	2.3	54.3	
	WING AREA 171.5		30°	280	375	465	535	0.75	1.5	2.6	11.6		
	WING AREA 171.5		45°	325	5	400	475	535	0.75	1.75	3.0	8.0	
	WING AREA 171.5		60°	365	3	430	500	535	1.0	2.1	3.4	6.4	
	WING AREA 171.5		70°	420	1.8	475	520	535	1.0	* 2.3	3.8	5.6	
	WING AREA 171.5		80°	535	0.9	535	535	535	1.7	3.4	5.1	4	
	WING AREA 171.5												
	WING AREA 171.5												

NOTES:
 (1) BAKA IS PRIMARILY A GLIDER AND SECONDARILY A POWERED PLANE.
 (2) BAKA IS LAUNCHED FROM THE PARENT AIRCRAFT BETTY 22. THE POSSIBLE CARRIERS ARE PEGGY 1, HELEN 11, SALLY 11, TAI'ZAN, RITA 11 AND FRANCIS 11.

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AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SEPV. CEIL.	T.C. & LANDING CREW	RANGE with		FUEL with		BOMBS NO MAX. LB.	WEIGHTS EMPTY ALT. LB. POUNDS ALT. LB.	DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. ROD. EA.	BOMBS NO & SIZE	REMARKS
					MAX. MILES MILES MILES	(MILES/HOR. ALT.)	MAX. GAL. GALLONS GALLONS	(GAL./HOR.)						
FIGHTERS														
OSCAR 2 MAKAJIMA FIGHTER	(1) MAKAJIMA TYPE 2 1105/ S L 1095/ 9200 965/19700 1165/ 8000we	347/20000 we 202/ 1500	3.0/10000 37100	- 1	1745/137/1500 1405/185/1500 1180/145/1500	257 257 149	NONE NONE NONE	4170 5240 5240 5500		35' 7" 29' 2" 9' 0" 232 Sq. Ft.	2-12.7mm-250 or 2-20mm-150		NONE	
NICK 1 (TYPE 2) KAWASAKI FIGHTER	(1) MITSUBISHI TYPE 1 1055/ S L 1040/ 9200 1135/ 8500we	354/20400 we 203/ 1500	4.0/10000 35100	- 2	1405/152/1500 1125/203/1500	363 363 -	NONE NONE NONE	8335 12213 12213 -		49' 6" 34' 8" - 365 Sq. Ft.	2-12.7mm or 1-37mm 1-7.9mm 1-20mm			
TONY 1 KAWASAKI FIGHTER	(1) KAWASAKI TYPE 2 1160/ S L 1085/13800 1100/12500we	361/15800 215/ 1500	4.0/10000 35100	- 1	2010/148/1500 1520/156/1500	299 199 -	NONE NONE NONE	5010 7682 5982 -		39' 4" 28' 11" - 215 Sq. Ft.	2-12.7mm 2-12.7mm or 2-20mm	2 x 220 (EXTERNAL)		
TOJO 2 (TYPE 2) MAKAJIMA FIGHTER	(1) MAKAJIMA TYPE 2 1500/ S L we 1420/ 7000 1305/ 12200 1570/ 5000we	383/17400 we 174/ 9500	2.8/10000 36350	- 1	1050/166/1500 740/174/1500	197 128 -	NONE NONE NONE	4300 6610 6100 -		31' 0" 29' 2" - 169 Sq. Ft.	2-7.7mm-500 or 2-12.7mm-250 2-12.7mm-250 or 2-40mm		NONE	ARMY FIGHTER ENCOUNTERED IN CHINA THEATER.
FRANK 1 MAKAJIMA FIGHTER	(1) MAKAJIMA No 45 1970/ S L 1695/20000 1850/17900we	427/20000 we 254/ 1500	2.6/10000 38800	- 1	1815/173/1500 1025/176/1500	359 185 -	NONE NONE -	5194 7940 -		37' 1" 32' 4" 11' 2" 226 Sq. Ft.	2-12.7mm-350 2-20mm-150		NONE	
ROB 1 KAWASAKI FIGHTER	(2) No 201			1	NO OTHER DATA AVAILABLE									
STEVE 1 FIGHTER	MITSUBISHI No 42 1970/ S L 1665/15400 2040/ 3100 we				NO OTHER DATA AVAILABLE									
PAT 1 LONG RANGE FIGHTER					NO OTHER DATA AVAILABLE									
RANDY 1 KAWASAKI ATTACK-FIGHTER	(2) MITSUBISHI No 112 MOD. 2 1580/ S L 1100/ 9200	406/18700 168/ 1500	10.0/20000 32970	2092 2	1375/170/1500 455/302/1500	430 430 -	NONE NONE -	10800 15760 -		51' 1" 37' 7" 12' 0" 364 Sq. Ft.	1-57mm- 1-12.7mm- 2-20mm-	1 x 1100		

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AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SEPV. CEIL.	T.O. & LANDING	CREW	RANGE with FUEL with BOMBS at WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. PDS. EA.	BOMBS NO & SIZE	REMARKS		
						MAX. MILES MILES MILES	MAX. GAL. GALLONS GALLONS					NONE POUNDS MAX. LB.	EMPTY ALT. LB. POUNDS ALT. LB.
FIGHTERS													
ZEKE 52 MITSUBISHI & NAKAJIMA NAVY FIGHTER	(1) NAKAJIMA SAKAE 31A 1120/ S L 830/ 1500 1210/ 8000 WE	398/22000 WH	3.6/10000	-	1	1844/148/1500 1200/148/1500	248 156	NONE NONE NONE	4235 5600 3025	36' 1" 29' 10" 9' 2" 230 Sq. Ft.	2-7.7mm-700 2-13.2mm - 2-20mm-100 2-20mm-100 & 2-13.2mm -	NONE	
RUFÉ 11 NAKAJIMA NAVY FIGHTER	(1) NAKAJIMA SAKAE 12 925/ S L 725/ 1500 935/1380 W	273/14700	4.3/10000	-	1	1585/124/1500 530/ 87/1500	233 87	NONE NONE	3205 5405 5420	39' 4" 33' 10" 241 Sq. Ft.	2-7.7mm-500 2-20mm- 50	NONE	
IRVING 11 NAKAJIMA NAVY FIGHTER	(2) NAKAJIMA SAKAE 21 1115/ S L 1085/ 9350 1180/ 7500 WE	333/19700	5.5/10000	-	2	1985/145/1500 1560/181/1500	566 492	NONE NONE	10700 17544 16600	55' 8" 59' 11" 15' 0" 410 Sq. Ft.	2-20mm- 100 2-20mm -100	1100 #	
JACK 11 MITSUBISHI NAVY FIGHTER	(1) MITSUBISHI KASEI 23 1870/ S L 1550/17900 1940/ 4400 WE	407/17400	5.6/20000	-	1	1127/158/1500 650/165/1500	223 109	NONE NONE	5175 4045 7080	35' 5" 31' 9" 12' 11" 216 Sq. Ft.	4-20mm-100 or 2-7.7mm-550 8ND 2-20mm -100	2 x 130 (EXTERNAL)	
FRANCIS 12 NAKAJIMA NAVY FIGHTER	(2) MITSUBISHI KASEI 25 1885/ S L 1520/18050 1735/16800 WE	354/20050	5.1/10000	-	3	2935/159/1500 2385/159/1500	1274 998	NONE NONE	17950 25835 23940	65' 7" 49' 3" 17' 5" 892 Sq. Ft.	4-20mm -100 1-30mm - 42	NONE	RADAR INSTALLED FOR NIGHT FIGHTING.
GEORGE 11 KAWANISHI NAVY FIGHTER	(1) NAKAJIMA KOMARE 21 1975/ S L 1875/ 5900 2050/ 2500	408/20000	2.6/10000	-	1	1085/167/1500 670/169/1500	212 125	NONE NONE	5962 8390 7717	39' 5" 29' 5" 13' 4" 253 Sq. Ft.	2-7.7mm - 4-20mm -	2 x 130 (EXTERNAL)	
SAM 11 MITSUBISHI NAVY FIGHTER	(1) NAKAJIMA KOMARE 41 1790/ S L 1900/ 6560	355/19686	6.0/19686	-	1	1440/ - / -	397	NONE	5645 9260 8380	36' 1" 29' 6" -	2-20mm -120 2-13mm -300	LITTLE IS KNOWN OF THIS MODEL. DATA VERY INCOMPLETE.	
REX 11 KAWANISHI NAVY FIGHTER	(1) MITSUBISHI KASEI 24 1825/ S L 1655/ 6900 1520/18700	336/18680	6.3/19680	-	1	-	-	-	7962 7700	39' 3" 35' 4" -	2-7.7mm - 2-20mm - or 4-7.7mm -	NOW IN OPERATION.	
LUKE 11 MITSUBISHI NAVY FIGHTER	(1) - MX 90 1970/ S L 1380/27500 1740/27900	437/29250	9.7/29250	-	1	575/288/ -	-	-	-	-	1-30mm -100 2-20mm -200	MAY BE USED FOR AIR TO AIR BOMBING.	

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AIRPLANE MODEL MANUFACTURED TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SEPV. CYCL.	T.O. & LANDING	CREW	RANGE with FUEL with BOMBS		WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. RDS. EA.	BOMBS NO & SIZE	REMARKS
						MAX. MILES MILES	MAX. GAL. GALLONS	EMPTY ALT. LB. POUNDS	ALT. LB. POUNDS				
BOMBERS													
SALLY 2 MITSURISHI ARVY BOMBER	(2) MITSUBISHI TYPE 100 1490/ 5 L 1350/ 15100 1580/ 7500 wh	294/ 15400 wh 175/ 1500	5.4/ 10000 30500	- -	4 10 7	2000/ 132/ 1500 # 1635/ 133/ 1500 1350/ 176/ 1500	822 591 591	NONE 2200 2200	- 23500 23500	74' 7" 53' 0" 2 758 Sq. Ft.	5-7.9mm-600 1-12.7mm-600	2200 MAX.	FUEL TANKS TAKE PARTIAL LOADING COVERING
LILLY 2 KAWASAKI ARVY BOMBER	(2) KAWASAKI TYPE 2 1105/ 5 L 1045/ 9200 1165/ 8000	313/ 19900 wh 185/ 1500	4.6/ 10000 34200	- -	4 5	1800/ 139/ 1500 # 1505/ 138/ 1500 1215/ 185/ 1500	518 445 445	NONE 880 880	9790 14334 14730	57' 4" 42' 1" - 452 Sq. Ft.	3-7.9mm-525 1-12.7mm-700	880 MAX.	HEAVY ARMOR PLATE FOR WING AND TAIL INSTALLATION
HELEN 2 NAKAJIMA ARVY BOMBER	(2) NAKAJIMA TYPE 2 1500/ 5 L 1420/ 7000 1570/ 5000 wh	312/ 18900 wh 184/ 1500	5.6/ 10000 30980	- -	7	2220/ 145/ 1500 1915/ 184/ 1500 1375/ 184/ 1500	924 924 651	NONE 1650 2200	14730 22822 24400 23523	66' 7" 54' 0" - 684 Sq. Ft.	3-7.9mm - 2-12.7mm - 1-20mm -	2200 MAX.	HEAVY ARMOR PLATE FOR WING AND TAIL INSTALLATION
PEGGY 1 MITSURISHI ARVY BOMBER	(2) MITSUBISHI HA 42 1890/ 5 L 1450/ 10400 1985/ 8000 wh	348/ 18700 198/ 1500	5.9/ 10000 30250	- -	7	1985/ 159/ 1500 1985/ 159/ 1500 1735/ 194/ 1500	1025 1025 1025	NONE 1763 1763	29137 30990 30900	73' 10" 61' 5" 18' 5" 709 Sq. Ft.	-	2526 MAX.	FUEL TANKS TAKE PARTIAL LOADING
NOTES: # ESTIMATES													

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AIRPLANE CHARACTERISTICS & PERFORMANCE

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AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SEPV. CEIL.	T.C. & LANDING	CREW	RANGE with FUEL with BOMBS at WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. ROS. EA.	BOMBS NO & SIZE	REMARKS	
						MAX. MILES MILES MILES	MAX. GAL. GALLONS GALLONS					NONE POUNDS MAX. LB.
BOMBERS												
JILL 12 NAKAJIMA NAVY TORP. BOMBER	(1) MITSUBISHI KASEI 25 1825/ S L 1855/ 6900 1880/ 4400 we	318/19500 183/ 1500	5.2/10000 33400	- -	3	2175/141/1500 1850/142/1500 1565/183/1500	450 450 450	NONE 1750 1760	6300 10205 12070 12070	49' 0" 36' 1" -	1-7.7mm-400 1-7.7mm-700 1-7.7mm-700	6- 200# or 1-1750# T
FRANCIS 11 NAKAJIMA NAVY TORP. BOMBER	(1) NAKAJIMA HOMARE 11 1795/ S L 1295/ 9500 1840/ 3020	355/20500 210/ 1500	5.0/10000 35900	- -	3	3600/155/1500 2425/164/1500	1566 998	NONE 1755	14685 28450 26480	65' 7" 49' 2" 17' 5"	1-20mm - 135 1-20mm - 225	2231 MAX.
JUDY 33 TECHNICAL AIR ARSENAL NAVY DIVE BOMBER	(1) MITSUBISHI KINSEI 62 1580/ S L 1005/ 1500 1620/ 2800 we	378/18500 211/ 1500	3.6/10000 38300	- -	2	2505/157/1500 1055/161/1500 870/211/1500	495 172 172	550 550 550	5450 9855 8040 8080	37' 9" 33' 7" 10' 5" 254 Sq. Ft.	2-7.7mm- 400 1-7.7mm- 582	1000 MAX. JUDY 33 HAS NEUTER-BULLET NIX FUEL TANK PROTECTION.
GRACE 11 AICHI NAVY DIVE OR TYP. BOMBER	(1) NAKAJIMA HOMARE 11 1795/ S L 1625/ 6580 1840/ 3000 we	350/19586 230/13125	7.5/3125 -	- -	2	2070/ - / - -	384 -	- -	5817 11808 10742	47' 4" 37' 6" -	2-7.7mm or 2-20mm AND 1-7.7mm	1765 MAX.
VAL 22 AICHI NAVY DIVE BOMBER	(1) MITSUBISHI KINSEI 54 1280/ S L 1185/ 9850 1355/ 7700 we	281/20300 198/ 1500	4.5/10000 33600	- -	2	1580/125/1500 965/125/1500 785/167/1500	285 175 175	NONE 550 550	5670 8492 8380 8380	47' 5" 35' 5" 13' 0" 376 Sq. Ft.	2-7.7mm-791 1-7.7mm-1000	550 MAX.
JUDY 11 AICHI NAVY DIVE BOMBER	(1) AICHI ATSUTA 21 1185/ S L 815/ 1500 1205/ 1400 we	339/13800 195/ 1500	4.7/10000 33100	- -	2	2580/155/1500 1155/155/1500 985/198/1500	435 172 172	550 550 550	5620 9829 8059 8059	37' 10" 33' 7" 10' 5" 254 Sq. Ft.	2-7.7mm-791 1-7.7mm-1000	1102 MAX.
JUDY 12 AICHI NAVY DIVE BOMBER	(1) AICHI ATSUTA 31 1280/ S L 1320/ 5500 1440/ 5700 we	377/19300 we 215/ 1500	3.6/10000 36400	- -	2	2445/160/1500 2070/206/1500 1080/162/1500	435 439 172	550 550 550	5620 10025 8255 8255	37' 9" 33' 7" 10' 5" 254 Sq. Ft.	3-7.7mm - -	1100 MAX. SAME AS JUDY 11 EXCEPT FOR INCREASED SPEED & CLIMB.
BETTY 22 NAKAJIMA NAVY BOMBER	(2) MITSUBISHI KASEI 21 1825/ S L 1655/ 6900 1880/ 4400	331/16700 we 204/ 1500	7.5/10000 30800	- -	5 to 7	3290/153/1500 2790/163/1500 2330/204/1500	1715 1499 1499	NONE 2200 2200	17400 31980 33080 33080	82' 0" 64' 8" -	2-7.7mm-500 1-13mm - 1-20mm- 90 2-7.7mm-500 2-20mm - 90 1-20mm - 90	2200 MAX. USED FABRIC & CARBIDE "WINDOW" STRIPS OF ALUM- MINIUM BACKED PAPER FOR RADAR INTERFERENCE.
LIZ 11 NAKAJIMA NAVY BOMBER	(4) NAKAJIMA HAMORU 12 1850/ S L 1730/ 4600 1580/ 16100	270/16100 166/ 1500	9.1/10000 29100	- -	- -	3100/129/1500 2540/166/1500	3500 3500	NONE 7250	40000 67750 75000	138' 3" 101' 8" -	- -	7250 MAX. NOW USED AS A TRANSPORT.

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AIRPLANE CHARACTERISTICS & PERFORMANCE

1 OCTOBER 1945

DATE:

AIRPLANE MODEL MANUFACTURER TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SEPN. CEIL.	T.O. & LANDING CREW	RANGE with FUEL with BOMBS		WEIGHTS EMPTY ALT. LB. POUNDS ALT. LB.	DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. NOS. EA.	BOMBS NO & SIZE	REMARKS	
					MAX. MILES MILES MILES	MAX. GAL. GALLONS GALLONS						NONE POUNDS MAX. LB.
RECONN.												
DINAH 2 MITSUBISHI ARMY RECONN.	(2) MITSUBISHI TYPE 1 1085/ S L 1040/ 9200 1135/ 8500 w/b	372/20400 219/ 1500	3.6/10000 27400	- 2	1795/158/1500 1405/219/1500	438 438	NONE NONE	8058 11882 11882		1-7.7mm -	NONE	3700 8 GALLONS ARE FOR WING POWER WEIGHT WHERE INDICATED AS APPL.
DINAH 3 MITSUBISHI ARMY RECONN.	(2) MITSUBISHI HX 112 1540/ 3 L 1185/19700 1340/17000 w/b	407/19300 219/ 1500	3.1/10000 27800	- 2	1915/158/1500 1495/219/1500	499 499	NONE NONE	8215 12405 12405		1-7.7mm - (USUALLY NONE)	NONE	
CLARA 1 TACHIKAWA ARMY RECONN.					NO DATA AVAILABLE							CONSIDERED AS POSSIBLE REPLACEMENT FOR DINAH.
EDNA 1 ARMY RECONN.					NO DATA AVAILABLE							
PETE 11 MITSUBISHI NAVY RECONN.	(1) MITSUBISHI ZUISEI MODEL 23 840/ S L 865/13100 910/11400 w/b	236/13100 144/ 1500	5.0/10000 30900	- 2	1025/111/1500 800/109/1500	166 132	NONE 253	4250 5935 5200		3-7.7mm -	264 MAX.	PETE 11 HAS NEITHER ARMOR NOR FUEL TANK PROTECTION.
JAKE 11 WATANABE NAVY RECONN.	(1) MITSUBISHI KINSEI 43 1045/ S L 1085/ 6600	222/ 7600 150/ 1500	5.4/10000 29800	- 3	1375/119/1500 975/112/1500 710/150/1500	297 179 179	NONE NONE NONE	5820 8820 5820 5820		1-20mm-60 1-20mm-280	530 MAX.	
MYRT 11 NAKAJIMA NAVY RECONN.	(1) NAKAJIMA NOMARE 21 1970/ S L 1657/19700 2050/ 2500 w/b	398/16600 -	3.8/10000 34100	- 2 3	2640/178/1500 1815/175/1500 1410/243/1500	550 358 358	NONE NONE NONE	6340 11580 9320 9420		1-7.9mm-450	1760 TORP.	THIS PLANE WILL POSSIBLY CARRY ONE 174 TORPEDO.
PAUL 11 AICHI NAVY RECONN.	(1) MITSUBISHI KINSEI 54 1280/ S L 1085/20400 1355/ 7700	282/21700 164/ 1500	5.2/10000 33500	- 2	1685/131/1500 1345/132/1500 1195/163/1500	317 264 264	NONE 550 550	5985 9110 9370 9370		1-7.9mm - 2-20mm-250	1388 MAX.	
NORM 11 KIWANISHI NAVY RECONN.	(1) MITSUBISHI KASEI 24 1825/ S L 1520/18050 1880/ 4400	319/19688 207/ -	8.5/16400 -	- 2	2465/ - / - - -	- - -	- - -	9020 10780 -		1-7.7mm -	-	HIGH SPEED RECONN. FLOAT PLANE.

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AIRPLANE CHARACTERISTICS & PERFORMANCE

1 OCTOBER 1945

DATE:

AIRPLANE MODEL MANUFACTURED TYPE	ENGINE MFR. MODEL H.P. RATING/ALT.	SPEEDS MAX/ALT. CRUISE/ALT.	CLIMB TIME TO ALT. SEPV. CEIL.	T.O. & LANDING	CREW	RANGE with		FUEL with	BOMBS NONE POUNDS MAX. LB.	at WEIGHTS		DIMENSIONS SPAN LENGTH HEIGHT WING AREA	ARMAMENT NO/CAL. - RDS. EA.	BOMBS NO & SIZE	REMARKS
						MAX. MILES MILES	MAX. GAL. GALLONS	EMPTY ALT. LB. POUNDS ALT. LB.							
MISC.															
CHERRY 11															
						NO DATA AVAILABLE									
NAVY FLY. BOAT															
EMILY 22	(4) MITSUBISHI KASEI 22	295/19500	8.1/10000	-	4	4190/138/1500	4400	NONE	34176	124' 7"	5-20mm -	4400 MAX.			THIS PLANE HAS THE MOST PROTECTED FUEL SYSTEM AND IS THE MOST HEAVILY ARMED OF ANY JAP. ACFT.
KAWANISHI	1825/ S L				3	3810/116/1500	3739	2120	58342	92' 3"	4-7.7mm -				
NAVY FLY. BOAT	1555/ 4900 1880/ 4400	172/ 1500	30500	-	3	3251/171/1500	3739	2120	56932	30' 2"	4-7.7mm -				
NELL 23	(2) MITSUBISHI KINSEI 53	270/19500	6.2/10000	-	4	2550/118/1500	956	NONE	10950	82' 0"	4-7.7mm-300	1750 MAX.			
NAKAJIMA	1280/ S L				10	2125/102/1500	795	1100	20400	53' 1"	1-20mm - 50				
NAVY TRANSPORT	1085/20300 1355/ 7700	157/ 1500	34250	-	7	1690/157/1500	795	1100	20400	662 Sq. Ft.					
MAVIS 22	(4) MITSUBISHI KINSEI 43	217/ 5200	9.9/10000	-	8	3980/112/1500	3330	NONE	25500	131' 4"	4-20mm -	3520 MAX.			THIS PLANE IS RAPIDLY DECOMING UNDEVELOPED.
KAWANISHI	1030/ S L				10	3300/109/1500	2745	3520	50700	82' 0"	1-7.7mm -				
NAVY TRANSPORT	910/ 8200 1050/ 5200	145/ 1500	24680	-	10	2740/144/1500	2745	3520	50700	20' 6"					
LORNA 11	(2) HITSCHI "AMIKAZE 21"	190/ 4900	11.3/10000	-	3	3150/106/1500	595	NONE	9920	52' 5"					WAS TO BE USED FOR ANTI-SUBMARINE PATROL.
KYUSHU	445/ S L	179/ S L	20300	-	3	1580/105/1500	378	1100	11140	39' 4"	1-7.7mm-582	2 x 550			
PATROL	470/ 4900					595/158/1500	378	1100	11140	437 Sq. Ft.					

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