

A ABBREVIATIONS USED IN A/C PRECIS

HOV	Head on view.
PV	Plan view.
SV	S ide view.
FUSE	Fuselage.
TU	Tail unit.
TP	Tail plane.
SFR	Single fin and rudder.
TFR	Twin fins and rudders.
LN S/Eng.	Low wing single engined.
HW S/Eng.	High wing single engined.
SW T/Eng.	Shoulder wing twin engined.
3/Eng..	Three engined.
F/Eng.	Four engined.
MW	Mid-wing.
Monop.	Monoplane.
ILLC	In-line liquid cooled.
ILAC	In-line air cooled.
Rad.	Radiator.
DB	Dialer Ben.,
ST	Straight taper.
LE	Leading edge.
TE	Trailing edge.
CP	Cock pit.
U/C	Undercarriage.
POGT	Power operated gun turret.
GP	Gun position.
GB	Gun blister.
CS	Centre section.
OS	Outer section.
Ret.	Retractable.
A/C	Aircraft.
Lt.	Length.

NAME NOMAD NORTHROP A17-A
 TYPE Trainer
 DIMENSIONS W.S. 48 ft. Lt. 31 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 radial Pratt & Whitney of 825 h.p.
 PERFORMANCE Speed 200 m.p.h. Range 800 mi. Ceiling 20,700 ft.
 ARMAMENT 4 m.g.'s in wings. 1 m.g. in aft CP.
 HOV FUSE Round, appearing superimposed on wings. Rounded CP on top.
 WINGS Short straight CB, marked dihedral on O S.
 TU TP mounted high. SFR medium height.
 PV NOSE Radial engine projecting short distance.
 WINGS Rect. CS with unequal ST on OS more marked on TE. Rounded tips.
 FUSE Large fillets at roots of TE.
 TP Tapering to a point.
 SV NOSE Unequal ST more marked on LE and rounded tips. Large V bite.
 FUSE Radial engine and small spinner.
 SFR Top line broken by long low dual CP which has a dark central panel. Bottom line steps up slightly aft of the wings.
 SFR Moderate ST on LE, broad rounded tip and slight ST on TE.

GENERAL IMPRESSION--

NAME AMSON
 TYPE Trainer
 DIMENSIONS W.S. 56 ft. Lt. 42 ft.
 CONSTRUCTION LW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 radial Cessna or Jacobs of 325 h.p.
 PERFORMANCE Speed 188 m.p.h. Range 790 mi. Ceiling 19,000 ft.
 ARMAMENT 1 m.g. fixed in nose; 1 m.g. free in top turret. Bomb load 2 of 100 lbs. and 8 of 20 lbs.
 HOV FUSE Squarish, slightly wider at the top. Small turret visible.
 WINGS Dihedral from roots.
 ENGS Radial and mid-mounted with wheels projecting slightly.
 TU TP not visible. SFR visible.
 PV NOSE Short and well rounded. Engines project 2/3 length.
 WINGS Broad with slight ST on both edges to broad rounded tips.
 FUSE Fillets at wing roots on TE.
 TP Tapers to TP.
 SV NOSE Equal moderate ST to slim pointed tips. Diamond shaped.
 FUSE Slim and well rounded.
 SFR Deep and slightly tapered to SFR. Top line broken by turret.
 SFR Long transparent side windows. Engine nacelles break bottom line.
 SFR Low and broad. Moderate ST on LE, rounded tip and slight ST on TE. Paired into fuse on LE.

GENERAL IMPRESSION-- flying glass-house.

NAME MESSERSCHMITT 109E
 TYPE Single seat fighter.
 DIMENSIONS W.S. 32 ft. Lt. 27 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 ILLC Daimler Benz 601 of 1,150 h.p.
 PERFORMANCE Speed 354 m.p.h. Range 560 mi. Ceiling 36,000 ft.
 ARMAMENT 2 cannon, 4 m.g.'s fixed.
 HOV FUSE Oval with a flat base. Small CP on top.
 WINGS Dihedral from roots with rads. below outboard of fuse.
 TU TP high. SFR visible.
 PV NOSE Bluntly pointed with a small spinner.
 WINGS Slight ST on LE, moderate ST on TE and square tips. Small fillets at TE roots.
 FUSE Long and tapering to a point aft of the TP.
 TP Equal ST with broad rounded tips and a V bite out of TE.
 SV NOSE Tapering, bluntly pointed with a small spinner.
 FUSE Nearly straight top line with low CP well back. Bottom line broken by oil cooler under nose and rads under wings. Curved.
 SFR Low and squat. Moderate ST on LE, rounded tip, curved TE.

GENERAL IMPRESSION--

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NAME TOMAHAWK P40
 TYPE Single seat fighter. Army co-op.
 DIMENSIONS W.S. 37 ft. Lt. 32 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 ILLC Allison of 1,090 h.p.
 PERFORMANCE Speed 328 m.p.h. Range 700 mi. Ceiling 29,000 ft.
 ARMAMENT 6 m.g.'s 2 On fuse, 4 in wings.
 HOV FUSE Oval with CP on top and prominent rad. below.
 WINGS Dihedral from roots. U/C fairings visible below close to fuse.
 TP high. SFR visible.
 PV NOSE Long and pointed.
 WINGS Straight LE with fillet at root, rounded tips and moderate ST on TE with large fillets at roots.
 FUSE Short and tapers to TP.
 TP Marked ST on LE with rounded tips and TE and a large V bite. Resembles a wing nut.
 SV NOSE Pointed spinner. Air intake on top and a rad. below near spinner.
 FUSE Deep and tapering with a prominent CP 1/2 way along.
 SFR Large with ST on LE and rounded TE.
 GENERAL IMPRESSION--Deep and sturdy appearing.

NAME KITTYHAWK
 TYPE Single seat fighter.
 DIMENSIONS W.S. 37 ft. Lt. 32 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 ILLC Allison of 1,150 h.p. Warhawk has 1,280 h.p. Merlin. Will carry small bombs.
 PERFORMANCE Speed 345 m.p.h. Range 800 mi. Ceiling 29,000 ft.
 ARMAMENT 6 m.g.'s of .50 cal. in wings.
 HOV FUSE Deep oval with prominent CP.
 WINGS Dihedral from roots and small wheel fairings below near fuse.
 TP high. SFR visible.
 PV NOSE Long with a pointed spinner.
 WINGS Straight LE, rounded tips and moderate ST on TE. Fillets on both edges.
 FUSE Tapers to a point aft of TP.
 TP Straight marked taper on LE, rounded tips and TE. Wing nut shaped.
 SV NOSE Large pointed spinner with a deep rad. aft of rad.
 FUSE Top line straight to high CP and tapering from there. Bottom line tapers and fairing from deep rad. goes to TE of wings.
 SFR Large with moderate ST on LE, rounded tip and TE.
 GENERAL IMPRESSION--Deep nosed and sturdy looking.

NAME FULMAR
 TYPE Navy fighter.
 DIMENSIONS W.S. 46 ft. Lt. 40 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 ILLC Merlin of 1,145 h.p.
 PERFORMANCE Speed 300 m.p.h. Range 1,300 mi. Ceiling 30,000 ft.
 ARMAMENT 8 m.g.'s in the wings.
 HOV FUSE Stirrup shaped with a flat base and rad. included in outline.
 WINGS Thick and tapering with marked dihedral.
 TP medium height. SFR prominent.
 PV NOSE Short and bluntly pointed.
 WINGS Nearly equal ST with well rounded tips. Fillets at roots.
 FUSE Tapering to a point well aft of TP.
 TP Moderate ST on LE, rounded tips and a straight TE.
 SV NOSE Tapers to a blunt point.
 FUSE Slender and tapering. Top line straight from dual CP which has a dark central panel. Bottom line curves slightly from rad. under nose to SFR.
 SFR Large and broad. Moderate ST on LE, broad rounded tip and slight ST on TE.
 GENERAL IMPRESSION--Long and slender.

NAME TYPE TYPHOON
 TYPE Single seat fighter.
 DIMENSIONS W.S. 42 ft. Lt. 32 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 radial Napier Sabre of 2,350 h.p.
 PERFORMANCE Speed over 400 m.p.h. Range 1,300 mi. Ceiling 40,000 ft.
 ARMAMENT 14 cannon; 12 m.g.'s.
 BOV FUSE Deep with rad. below wings. Small CP above.
 WINGS Appear slightly cranked owing to taper of top surface of the straight OS. Marked dihedral on OS.
 TU TF medium height. SFR visible.
 FV NOSE Very short and pointed with a large spinner.
 WINGS Unequal ST, slightly more marked on TE, large rounded tips and small fillets.
 FUSE Finely tapered to TP.
 TP Unequal ST more marked on TE, rounded tips, no cut-out.
 SV NOSE Very short with deep rad. below and a large spinner.
 FUSE Nearly straight top, with small CP. Bottom line slightly bellied.
 SFR Large and rounded with a straight TE and extending below fuse for an anti-spin stabilizer.

GENERAL IMPRESSION--

NAME FW 190
 TYPE Single seat fighter.
 DIMENSIONS W.S. 37 ft. Lt. 29 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 radial BMW 801 of 1,600 h.p.
 PERFORMANCE Speed 370 m.p.h. or 390 for 1 min. Range 525 mi. Ceiling 38,000 ft.
 ARMAMENT 2 m.g.'s on nose; 4 cannon on wings.
 BOV FUSE Round with a small CP on top.
 WINGS Dihedral from roots.
 TU TP high. SFR visible.
 FV NOSE Very short and blunt. Large spinner.
 WINGS Unequal ST more marked on TE, rounded tips, small fillets.
 FUSE Tapers sharply.
 TP Tapered LE, small blunt tips, almost straight TE.
 SV NOSE Short and radial engined.
 FUSE Shallow CP, top tapers to SFR, bottom tapers slightly.
 SFR Moderate ST on LE, curved broad tip and slight taper to TE.

GENERAL IMPRESSION--All engine.

NAME BOG
 TYPE Two seat navy fighter.
 DIMENSIONS W.S. 46 ft. Lt. 36 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C or two floats.
 ENGINE 1 radial Perseus of 905 h.p.
 PERFORMANCE Speed 280 m.p.h. Range 800 mi. Ceiling 17,000 ft.
 ARMAMENT 4 m.g.'s in a Boulton Paul top turret.
 BOV FUSE Round, appears superimposed on wings. Prominent top turret.
 WINGS Short straight OS, moderate dihedral on OS.
 TU TP high. SFR visible.
 FV NOSE Fairly long, radial engined.
 WINGS Short rect. OS; unequal ST on OS, more marked on TE. Rounded tips.
 FUSE Tapering sharply.
 TP Equal ST with a short straight OS on the TE. Rounded tips.
 SV NOSE Radial engined.
 FUSE Top line broken by CP and turret aft of CP well faired in.
 SFR Bottom line slightly curved. A anti-spin stabilizer at rear.
 High with unequal curved taper more marked on TE. Set ahead.

GENERAL IMPRESSION--

NAME SKUA
 TYPE Dive bomber.
 DIMENSIONS W.S. 46 ft. Lt. 36 ft.
 CONSTRUCTION LW S/Eag. mono. with SFR and ret. U/C.
 ENGINE 1 radial Perceus of 905 h.p.
 PERFORMANCE Speed 225 m.p.h. Range 800 mi. Ceiling 20,200 ft.
 ARMAMENT 1 m.g. fixed in wing. 1 m.g. free in aft CP.
 HOV FUSE Round, appears superimposed on wing. Prominent CP.
 WINGS Short straight CS, slight taper on rear with turned up tips.
 TU TP high. SFR visible.
 PV NOSE Fairly long and radial engined.
 WINGS Short straight CS with unequal ST on OS, more marked on TS.
 FUSE Tips rounded.
 TP Long and tapering.
 SV NOSE Equal ST with a short straight CS on TE. Tips rounded.
 FUSE Radial engined.
 SFR Top line broken by long prominent CP. Bottom line curved. Anti-spin stabilizer at rear of fuse.
 SFR High with unequal curved taper, more marked on LE. Set ahead well.
 GENERAL IMPRESSION--

NAME MARTLET
 TYPE Navy fighter.
 DIMENSIONS W.S. 38 ft. Lt. 29 ft.
 CONSTRUCTION MW S/Eag. mono. with SFR and ret. U/C.
 ENGINE 1 radial Wright Cyclone of 1,200 h.p.
 PERFORMANCE Speed 325 m.p.h. Range 1,150 mi. Ceiling 28,000 ft.
 ARMAMENT 4 m.g.'s in wings.
 HOV FUSE Round with a small CP.
 WINGS Dihedral from roots. Small projections visible below near fuse.
 TU TP high. SFR visible.
 PV NOSE Short and radial engined.
 WINGS Slight ST on LE, square tips and more ST on TE.
 FUSE Tapering.
 TP Marked S² on LE, square tips, slight S² on TE and a V bite out.
 SV NOSE Slightly tapering.
 FUSE Tubby with a low CP and top line curving back to SFR. Bottom line curved.
 SFR Angular and faired into fuse.
 GENERAL IMPRESSION--

NAME BUFFALO
 TYPE Navy fighter.
 DIMENSIONS W.S. 35 ft. Lt. 26 ft.
 CONSTRUCTION MW S/Eag. mono. with SFR and ret. U/C.
 ENGINE 1 radial Wright Cyclone of 1,200 h.p.
 PERFORMANCE Speed 330 m.p.h. Range 650 mi. Ceiling 24,500 ft.
 ARMAMENT 6 m.g.'s.
 HOV FUSE Round with CP included in outline.
 WINGS Dihedral from roots.
 TU TP low mounted. SFR visible.
 PV NOSE Short and fairly large spinner.
 WINGS Slight ST on LE, more on TE and rounded tips.
 FUSE Torpedo shaped.
 TP Elliptical with pointed tips and a bite out of TE.
 SV NOSE Slightly tapering.
 FUSE Tubby with a low CP and top line tapering to a point at rear. Bottom line curved.
 SFR Low and appears set on top. Rounded triangular shaped.
 GENERAL IMPRESSION--Fragrant peanut. Tubby.

NAME
 TYPE Two seat fighter. Night fighter.
 DIMENSIONS W.S. 39 ft. Lt. 30 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 ILLC Merlin of 1,145 h.p.
 PERFORMANCE Speed 310 m.p.h. Range 950 mi. Ceiling 27,000 ft.
 ARMAMENT 4 m.g.'s in top turret. 8 m.g.'s in wings.
 HOV FUSE Oval with a prominent turret on top and rad. below.
 WINGS Long straight OS with moderate dihedral on OS.
 TU TP fairly high. SFR visible.
 PV NOSE Fairly long and bluntly pointed.
 WINGS Broken ST on both edges, rounded tips and small fillets.
 FUSE Long and tapering to a point aft of TF.
 TP Marked ST on both edges, rounded tips and a bite out of TE.
 SV NOSE Pointed.
 FUSE Top line broken by top turret aft of CP. Bottom line broken by oil cooler under nose and rad. under wings.
 SFR Large and triangular with a rounded tip.
 GENERAL IMPRESSION--

NAME VANGUARD
 TYPE Single seat fighter.
 DIMENSIONS W.S. 36 ft. Lt. 28 ft.
 CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 radial Pratt & Whitney of 1,200 h.p.
 PERFORMANCE Speed 350 m.p.h. Range 1,190 mi. Ceiling 33,000 ft.
 ARMAMENT 10 fixed m.g.'s.
 HOV FUSE Round with a prominent CP.
 WINGS Dihedral from roots.
 TU TP low mounted. SFR prominent.
 PV NOSE Short and radial engined.
 WINGS Slight ST on LE, more on the TE and rounded tips.
 FUSE Tapers slightly.
 TP Equal ST with rounded tips.
 SV NOSE Radial engined with small spinner.
 FUSE Slightly tapered with a small CP and from it tapering to SFR.
 Bottom line slightly curved.
 SFR High with equal ST and rounded tip.
 GENERAL IMPRESSION--

NAME VENGANCE
 TYPE Dive bomber.
 DIMENSIONS W.S. 48 ft. Lt. 40 ft.
 CONSTRUCTION MW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 radial Double Cyclone.
 PERFORMANCE Speed 300 m.p.h. plus. Range 1,200 mi. Ceiling
 ARMAMENT 4 m.g.'s fixed, 2 free. Bomb load 1,700 lbs.
 HOV FUSE Oval with CP faired into outline.
 WINGS Long straight OS, dihedral on OS. Fairings show below wings.
 TU TP high. SFR prominent.
 PV NOSE Long with a large spinner.
 WINGS Marked ST on inner section, OS straight on LE. The OS of TE has marked ST and inner section is straight. Tips square.
 FUSE Tapering.
 TP Unequal ST more marked on TE and square tips.
 SV NOSE Untapered and a large spinner.
 FUSE Top line broken by a high dual CP. Bottom line tapers aft of wings.
 SFR Very high with equal ST and a square tip.
 GENERAL IMPRESSION--Tail high and prominent.

NAME CHESSAPPAKE VOUGHT 156 --S-- Course No. 2

TYPE Dive bomber.

DIMENSIONS W.S. 42 ft. Lt. 34 ft.

CONSTRUCTION LW S/Eng. mono. with SFR and ret. U/C.

ENGINE 1 radial Pratt & Whitney of 825 h.p.

PERFORMANCE Speed 257 m.p.h. Range 1,055 mi. Ceiling 28,200 ft.

ARMAMENT 2 m.g.'s fixed, 1 m.g. free in aft CP. Bomb load 1,500 lbs.

HOV FUSE Round with a small CP on top.

WINGS Straight OS with dihedral on OS.

TU TP high. SFR prominent.

PV NOSE Short and radial engined.

WINGS Rect. OS with unequal ST on the OS more marked on the TE. Rounded tips quite broad.

FUSE Tapering and fairing into wings which pass under fuse.

TP Unequal ST more marked on the TE and rounded tips.

SV NOSE Radial engined with a small spinner.

FUSE Untapered with a long low dual CP which has a dark central panel. Bottom line slightly curved.

SFR High with equal ST and rounded tip.

GENERAL IMPRESSION--

NAME AIRACOBRA P-39.

TYPE Single seat fighter. Ground attack fighter.

DIMENSIONS W.S. 34 ft. Lt. 30 ft.

CONSTRUCTION LW S/Eng. mono. with SFR and ret. tricycle U/C.

ENGINE 1 ILLC Allison of 1,150 h.p. mounted behind the CP.

PERFORMANCE Speed 400 m.p.h. Range 965 mi. Ceiling 35,000 ft.

ARMAMENT 1 cannon--20 mm. or 37 mm. 6-8 m.g.'s fixed.

HOV FUSE High and oval with small CP faired into outline.

WINGS Dihedral from roots.

TU TP high. SFR visible.

PV NOSE Long and tapering, bluntly pointed.

WINGS Unequal ST more marked on the TE and rounded tips. Broad and large fillets at TE roots.

FUSE Tapering.

TP Marked ST on the LE, rounded tips and slight curved taper on TE with a bite out of TE.

SV NOSE Bluntly pointed and tapering.

FUSE Curved top and bottom with a small well faired in CP. Inlet for supercharger visible aft of CP.

SFR ST on LE, rounded tip and curve on TE curving into fuse.

GENERAL IMPRESSION--Streamlined, nose and tail swept up.

NAME JU 87B

TYPE Dive bomber.

DIMENSIONS W.S. 45 ft. Lt. 35 ft.

CONSTRUCTION LW S/Eng. mono. with SFR and fixed U/C.

ENGINE 1 ILLC Jumo of 1,000 h.p.

PERFORMANCE Speed 242 m.p.h. Range 500 mi. Ceiling 27,900 ft.

ARMAMENT 2 m.g.'s fixed over wheels, 1 free m.g. in aft CP. Bomb load is 1100 lbs.

HOV FUSE Oval in section with large rad included in outline. Prominent CP above.

WINGS Cranked and prominent fixed U/C at base of crank. Dive brakes visible outboard of U/C.

TU TP High and struts braced. Anti-flutter weights at tips. SFR visible.

PV NOSE Pointed.

WINGS Slight ST on LE broken by U/C spats, blunt tips, broken ST on TE.

FUSE Tapers sharply to TP.

TP Rectangular.

SV NOSE Pointed with prominent rad below.

FUSE Top line broken by prominent dual glazed CP with a concave sweep to SFR. Bottom line tapers and is broken by fixed U/C.

SFR Angular and faired into fuse.

GENERAL IMPRESSION--Ugly and angular. Noisy in a dive.

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NAME BERMUDA
 TYPE Dive bomber.
 DIMENSIONS W.S. 47 ft. Lt. 39 ft.
 CONSTRUCTION MW S/Eng. mono. with SFR and ret. U/C.
 ENGINE 1 radial Double Cyclone of 1,700 h.p.
 PERFORMANCE Speed 300 m.p.h. Range 1,500 mi. Ceiling
 ARMAMENT Fixed wing m.g.'s. Free m.g.'s in aft CP. Bomb load 1,700 lbs.
 HOV FUSE Nearly round with CP hidden by prominent fairing over rear gun position.
 WINGS Mid-mounted and dihedral from roots.
 TU TF low mounted. SFR visible.
 PV NOSE Long and radial engined.
 WINGS Slight ST on both edges more marked on TE and rounded tips.
 FUSE Tapers to a point.
 TP Elliptical with a bite out of TE.
 SV NOSE Radial engined with a small spinner.
 FUSE Tapers near rear to a point. Most of fuse almost untapered. Long low dual CP with a turret like fairing at aft CP
 SFR High and broad with curved lines on all sides.
 GENERAL IMPRESSION—Long and straight appearing.

NAME HLENHEIM IF.
 TYPE Multi-seat fighter.
 DIMENSIONS W.S. 56 ft. Lt. 40 ft.
 CONSTRUCTION MW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 radial Mercury of 840 h.p.
 PERFORMANCE Speed 285 m.p.h. Range 1,125 mi. Ceiling 27,280 ft.
 ARMAMENT 4 m.g.'s in a trough under fuse, 2 m.g.'s in top turret, 1 m.g. in port wing. (bomber version without m.g.'s in trough)
 HOV FUSE Rect. with a rounded top. Turret visible on top and m.g. trough beneath.
 WINGS Short straight CS and dihedral on OS.
 TU TF medium high. SFR prominent.
 PV NOSE Short and stubby. Engines nearly as long as nose.
 WINGS Short straight CS and unequal ST on OS more pronounced on TE. Duo curved wing tips and fillets at TE roots.
 FUSE Torpedo shaped.
 TP Shaped like a capital "B".
 SV NOSE Short, blunt and glazed.
 FUSE Straight topped broken by top turret. Curved bottom line broken by m.g. trough.
 SFR Curved taper on both edges to a rounded pointed tip.
 GENERAL IMPRESSION—

NAME HLENHEIM IV
 TYPE Bomber or fighter bomber.
 DIMENSIONS W.S. 56 ft. Lt. 43 ft.
 CONSTRUCTION MW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 radial Mercury XV of 920 h.p.
 PERFORMANCE Speed 295 m.p.h. Range 1,900 mi. Ceiling 27,000 ft.
 ARMAMENT 1 fixed m.g. in port wing, 2 m.g.'s in top turret. Some had a m.g. position under the nose firing backwards. Fighter models with 4 m.g.'s in a trough under nose well back. Bombs 1,000 lbs.
 HOV FUSE Stirrup shaped with turret visible on top.
 WINGS Straight CS and dihedral on OS.
 ENGS Mid-mounted at end of OS.
 TU TF high. SFR prominent.
 PV NOSE Fairly long, untapered and rounded at tip. Engines project 1/2 length of nose.
 WINGS Straight CS with unequal ST on OS more marked on TE. Duo curved tips and small fillets at roots.
 FUSE Tapers to a point aft of TP.
 TP Slight ST on both edges and broad rounded tips. A V bite at TE.
 SV NOSE Glazed and slopes backward from top to bottom. Long.
 FUSE Straight top line with a ret. turret aft of wings. Slight taper to bottom line with a trough in fighter versions visible.
 SFR Curved taper on both edges with a rounded pointed tip.
 GENERAL IMPRESSION—

8V
WORN
PUSE
Straight top line with a red, curved slit of white, slight taper to bottom line with a trough in lighter portions visible.
SER
Curved taper on both sides with a rounded pointed tip.

SECRET

TO: SAC, NEW YORK
FROM: SAC, BOSTON
SUBJECT: [Illegible]

[Illegible body text follows]

SECRET

SECRET

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-19-2001 BY SP-6 BTJ/KJS

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NAME JUNKERS 32A6
 TYPE Bomber and dive bomber, Night fighter.
 DIMENSIONS W.S. 65 ft. Lt. 47 ft.
 CONSTRUCTION LV T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 ILLC Jumo 212 Of 1,450 h.p. Radial appearing.
 PERFORMANCE Speed 276 m.p.h. Range 1,310 mi. Ceiling 26,700 ft.
 ARMAMENT Varied 6 m.g.'s free as bomber. Usually 3 cannon 4 m.g.'s as a night fighter. Bomb load 5,750 lbs.
 HOV FUSE Round with prominent CP and offset GB below.
 WINGS Dihedral from roots with bomb racks between engines and fuse.
 ENGS Radial appearing and underslung.
 TU TP medium low. SFR prominent.
 PV NOSE Hunt and glazed. Engines project equally with nose.
 WINGS Broken ST on LE and TE with rounded tips. (Early model sq. tips)
 FUSE Curved taper to TP and projects beyond.
 TP Equal ST with bluntly rounded tips.
 SV NOSE Glazed and rounded with compact dual CP prominent.
 FUSE Straight topped from CP. Bottom line tapers to SFR, broken by large engine nacelles.
 SFR ST on the LE, rounded tip and curved TE. Large.
 GENERAL IMPRESSION--Bulky nosed.

NAME DOERNIER 17P
 TYPE Light bomber and dive bomber.
 DIMENSIONS W.S. 59 ft. Lt. 54 ft.
 CONSTRUCTION HW T/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 radial BMW 132 of 88 h.p.
 PERFORMANCE Speed 298 m.p.h. Range 770 mi. Ceiling 30,170 ft.
 ARMAMENT 1 m.g. fixed in nose, 1 free m.g. in aft CP and belly. Bomb load 1,350 lbs.
 HOV FUSE Broad oval with a low flat topped CP.
 WINGS Straight and thick, fairing into fuse on lower side.
 ENGS Low mounted.
 TU TP not visible. TFR prominent and appear outboard of engines.
 PV NOSE Medium length and glazed rounded tip. Engines project 1/2 way.
 WINGS Broad with slight ST more marked on the TE, rounded tips and fillets at both edges.
 FUSE Tapering slightly to TP.
 TP Angular with unequal ST more marked on the LE. Small cutouts at elevator ends.
 SV NOSE Slim with a rounded glazed nose.
 FUSE Long and tapering slightly at bottom. Flying pencil.
 TFR Catted with unequal ST more marked on the LE and a rounded base. Rudder carries over top of fin.
 GENERAL IMPRESSION--Flying pencil.

NAME DOERNIER 215
 TYPE Recon. bomber.
 DIMENSIONS W.S. 59 ft. Lt. 54 ft.
 CONSTRUCTION HW T/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 radial DB 600 of 1,050 h.p.
 PERFORMANCE Speed 311 m.p.h. Range 965 mi. Ceiling 29,600 ft.
 ARMAMENT 5 m.g.'s. Bomb load 1,600 lbs.
 HOV FUSE Broad oval with prominent CP.
 WINGS Straight.
 ENGS Appear underslung.
 TU TP invisible. TFR appear above engines.
 PV NOSE Long rounded and well glazed. Engines project 1/2 way.
 WINGS Slight ST to broad rounded tips and fillets at both edges.
 FUSE Slim and tapering to TU.
 TP Angular with unequal ST more marked on the LE. Cutouts at elevator ends.
 SV NOSE Bulbous and glazed with a compact dual CP on top.
 FUSE Tapers on bottom line to TP.
 TFR Small with unequal ST more marked on the LE and a rounded base. Rudder carries over top of fin.
 GENERAL IMPRESSION--Nose heavy and bulbous.
 NOTE-----A later model with a radial engine is similar in appearance and is known as the 17Z. Performance similar.

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NAME DORNIER 217E1 & 217E2.
 TYPE Bomber and dive bomber.
 DIMENSIONS W.S. 62 ft. Lt. 56 ft.
 CONSTRUCTION HW T/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 radial BMW 801 of 1,600 h.p. and BMW 802 of 2,000 h.p.
 PERFORMANCE Speed 309 and 324 m.p.h. respectively. Range 1,500 mi. Ceiling 37,000 ft. approx.
 ARMAMENT 1 cannon 15 mm fixed in nose, 1 cannon 20 mm. free in nose, 2 m.g.'s in belly, 2 m.g.'s aft CP (turret in E2), 2 window m.g.'s, Bomb load 6,600 lbs. Torpedoes or mines carried too.
 HOV FUSE Broad oval with a broad rounded CP.
 WINGS Very slight dihedral.
 ENGINES appear underslung.
 TU TF NOT visible. TFR appear just outboard of engines.
 PV NOSE Long and well rounded. Glazed. Engines project 1/2 way.
 WINGS Broad with unequal ST more marked on the TE. Rounded tips.
 FUSE Tapers to well aft of the TF. (TE broken by engine nacelles).
 TF Equal ST with square tips.
 SV NOSE Well rounded with a low compact dual CP and chinned beneath.
 FUSE Straight top line from CP. Bottom line has a step near nose.
 TFR Unequal S" more marked on the LE, rounded base and rudder carries over fin.

GENERAL IMPRESSION—Bulbous nosed.

NAME FW 187
 TYPE Two-seat fighter.
 DIMENSIONS W.S. 51 ft. Lt. 39 ft.
 CONSTRUCTION LW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 ILLO DB 601 of 1,150 h.p.
 PERFORMANCE Speed 365 m.p.h. Range 1,300 mi. Ceiling 38,940 ft.
 ARMAMENT 2 cannon, 4 m.g.'s fixed on fuse.
 HOV FUSE Oval in section including CP. Spall.
 WINGS Anhedral on long CS to just beyond engines, dihedral on OS.
 ENGS Low mounted with deep rads.
 TU TF mounted centrally and long. SFR prominent.
 PV NOSE Slim and pointed. Engines project equally with nose, blunt tips.
 WINGS LE has straight CS with slight ST on rest, blunt tips and moderate ST to TE. Small fillets.
 FUSE Long and slim, tapering past TF.
 TF ST on the LE, rounded tips and a straight TE.
 SV NOSE Short and pointed, partially hidden by engines.
 FUSE Slim, tapering to TU.
 SFR High with equal ST and a rounded tip.

GENERAL IMPRESSION—Sleek and powerful appearing.

NAME WHIRLWIND
 TYPE Single seat fighter.
 DIMENSIONS W.S. 45 ft. Lt. 32 ft.
 CONSTRUCTION LW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 ILLO Peregrine of 850 h.p.
 PERFORMANCE Speed 400 m.p.h. Range 1,200 mi. Ceiling 33,000 ft.
 ARMAMENT 4 cannon fixed in nose.
 HOV FUSE Small and round with a small CP visible.
 WINGS Long straight OS and slight dihedral on OS.
 ENGS Low mounted.
 TU TF very high. SFR high with TF well up on it.
 PV NOSE Short and rounded. Engines project past nose.
 WINGS Very long rect. OS and unequal ST on the OS, more marked on the TE. Tips bluntly curved. Engines project on the TE.
 FUSE Long with little taper till near TF.
 TF Equal slight ST with rounded tips. Rudder projects on the TE.
 SV NOSE Engines project beyond fuse.
 FUSE Top line nearly straight, broken by small CP. Bottom line by engine nacelles very deeply at nose.
 SFR Very high with slight equal ST and rounded tip. TF is 2/3 up it.

GENERAL IMPRESSION—Tail high and prominent.

NAME MOSQUITO --12--
 TYPE Two-seat fighter, night fighter or bomber recon.
 DIMENSIONS W.S. 54 ft. Lt. 41 ft.
 CONSTRUCTION MW 2/Eng. mono. with SFR and ret. U/O.
 ENGINES 2 ILLC Merlins of 1,475 h.p.
 PERFORMANCE Speed 380 m.p.h. and well over 400 stripped. Range 2,000 mi.
 Ceiling 36,000 ft.
 ARMAMENT 2 to 4 cannon, 4 m.g.'s. Bomb load 2,000 lbs.
 HOV FUSE Small with a rounded bottom, flat sides and a wide CP.
 WINGS Dihedral from roots.
 ENGS Low mounted.
 TU TF invisible. SFR prominent.
 FV NOSE Well rounded. Engines almost equal in length, with large spinners.
 WINGS CS between engines project ahead of OS. This has slight ST, rounded tips and marked ST on TE broken by engine nacelles.
 FUSE Tapers slightly.
 TF Unequal curved taper, more marked on the LE and rounded tips.
 SV NOSE Well rounded.
 FUSE Streamlined with low CP near nose. Bottom line curved.
 SFR High and set well ahead on fuse. Curved taper more marked on LE and a rounded tip.
 GENERAL IMPRESSION—Trim and speedy looking.

NAME WELLINGTON IV
 TYPE BOMBER
 DIMENSIONS W.S. 86 ft. Lt. 62 ft.
 CONSTRUCTION MW 2/Eng. mono. with SFR and ret. U/O.
 ENGINES 2 radial Hercules of 1,400 h.p. Mk. II had Merlins of 1,145 h.p.
 PERFORMANCE Speed 287 m.p.h. Range 3,240 mi. Ceiling 24,500 ft.
 ARMAMENT Nose and tail turrets and window m.g.'s. Bomb load 4,000 lbs.
 HOV FUSE Stirrup shaped.
 WINGS Dihedral from roots.
 ENGS Centrally mounted.
 TU TF not visible. SFR high and prominent.
 FV NOSE Long and blunt pointed. Engines project 1/2 way.
 WINGS Unequal ST more marked on the TE. Tips rounded and slim.
 FUSE Long, extending aft of TF for a turret.
 TF Unequal ST more marked on the LE with small rounded tips.
 SV NOSE Long and blunt.
 FUSE Top straight, bottom line bellied. It projects aft of SFR.
 SFR Tall and conical in shape.
 GENERAL IMPRESSION—Slightly bellied and high aspect wings.

NAME WHITLEY
 TYPE Bomber.
 DIMENSIONS W.S. 84 ft. Lt. 70 ft.
 CONSTRUCTION MW 2/Eng. mono. with TFR and ret. U/O.
 ENGINES 2 ILLC Merlins of 1,030 h.p.
 PERFORMANCE Speed 245 m.p.h. Range 1,250 mi. Ceiling 25,000 ft.
 ARMAMENT Nose and tail turrets. Bomb load 2 tons.
 HOV FUSE Deep and rect. with CP faired into outline.
 WINGS Long straight OS to well past engines, slight dihedral on OS.
 ENGS Low mounted.
 TU TF low. TFR inrigged greatly and with a brace visible.
 FV NOSE Long and slender. Engines project 1/2 length.
 WINGS Broad with unequal slight ST more marked on LE and square tips.
 FUSE Long and slender.
 TF Rect. with a slight ST to the LE.
 SV NOSE Long and box-like.
 FUSE Long and box-like. CP near nose. Turret projects at rear of TFR.
 TF Rect. with slight curved taper on LE. Mk. V with ST to LE.
 GENERAL IMPRESSION—Box-like and slender. Nose down attitude in the air.

NAME HAMPDEN
 TYPE Bomber
 DIMENSIONS W.S. 69 ft. Lt. 54 ft.
 CONSTRUCTION MW T/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 radial Pegasus of 1,000 h.p.
 PERFORMANCE Speed 265 m.p.h. Range 1,725 mi. Ceiling 22,700 ft.
 ARMAMENT 2 m.g.'s in nose, top aft and ventral positions. Bomb load 3,000.
 HOW FUSE Deep and narrow rect. with rounded top and bottom.
 WINGS Long straight CS, dihedral on OS.
 ENGS Mid-mounted 1/2 way along CS.
 TU TP high. TFR inrigged some and extend slightly below TP. They appear slightly inboard of engines.
 FV NOSE Long and slender. Engines project 1/3 length.
 WINGS Very slight ST on the LE, small blunt tips and pronounced ST on the TE.
 FUSE Very slim.
 TP Moderate ST on the LE, rounded tips and a straight TE.
 SV NOSE Rounded and well glazed.
 FUSE Deep and straight to dorsal and ventral CP, from there boom-like and tapering.
 TFR Small curved LE, small rounded tip and a straight TE.
 GENERAL IMPRESSION--Flying tadpole. HEREFORD same with ILAC engines.

NAME HENSCHEL 126
 TYPE Army co-op.
 DIMENSIONS W.S. 48 ft. Lt. 36 ft.
 CONSTRUCTION Parasol wing S/Eng. mono. with SFR and fixed U/C.
 ENGINE 1 radial BMW 132 of 880 h.p.
 PERFORMANCE Speed 221 m.p.h. Range 620 mi. Ceiling 28,000 ft.
 ARMAMENT 1 fixed m.g. on nose. 1 free m.g. in aft CP.
 HOW FUSE Round with small CP over it and fixed U/C beneath it.
 WINGS Set above fuse. and braced to it.
 TU TP slightly below wings. SFR barely visible.
 FV NOSE Short with radial engine.
 WINGS Marked ST to the LE, rounded tips, moderate ST to the OS of TE and the OS is swept forward and has a large "v" bite at centre.
 FUSE Tapers to TP.
 TP Rect. with rounded tips and a V bite out of the TE.
 SV NOSE Radial engine.
 FUSE Untapered with wing high over fuse and dual CP below wing.
 SFR Bottom line broken by Fixed U/C.
 Moderate ST to the LE, rounded tip and slight ST to the TE.
 GENERAL IMPRESSION--

NAME LYSANDER
 TYPE Army co-op.
 DIMENSIONS W.S. 50 ft. Lt. 30 ft.
 CONSTRUCTION Parasol wing S/Eng. mono. with SFR and fixed U/C.
 ENGINE 1 radial Perseus XII of 905 h.p.
 PERFORMANCE Speed 230 m.p.h. Range 600 mi. Ceiling 26,000 ft.
 ARMAMENT 2 fixed m.g.'s in wheel housings, 1 m.g. in aft CP. Small bombs.
 HOW FUSE Round with small CP above and fixed U/C below. Bomb racks are sometimes seen on wheel spats.
 WINGS Set above the fuse and braced to it.
 TU TP appears central on fuse. SFR visible.
 FV NOSE Radial engine and short.
 WINGS Straight LE, rounded tips; moderate ST on OS of TE and CS straight.
 FUSE Tapering to TP.
 TP Broad, marked ST on the LE, rounded tips, slight ST on TE.
 SV NOSE Radial engine.
 FUSE Wings set well above the fuse and CP extends to it. Top line tapers in line with CP to the SFR. Fixed U/C below & large spats.
 SFR Large and triangular with a rounded tip.
 GENERAL IMPRESSION--

NAME	POCKE WULF 189	--14--
TYPE	Reconn., trainer and ambulance work.	
DIMENSIONS	W.S. 60 ft. Lt. 39 ft.	
CONSTRUCTION	LW 7/Eng. none. with TFR and ret. U/C.	
ENGINES	2 ILAC Argus of 450 h.p.	
PERFORMANCE	Speed 220 m.p.h. Range 1,300 mi. Ceiling 27,500 ft.	
ARMAMENT	2 m.g.'s in wing roots, 1 free on top and 1 free in rear of fuse.	
HOV	Rect. and glazed.	
	FUSE	
	WINGS	CS straight to engines, OS dihedral.
	ENGS	Low mounted.
	TU	TP mid-mounted, TFR outrigger and appear over engines.
FT	NOSE	Short glazed and broad, Engines project well past nose.
	WINGS	CS straight to engines, marked ST on OS. Slim pointed tips and a straight TE. Twin booms extend from engines to the TU.
	FUSE	Projects aft of TE and terminates in a glazed tip.
	TP	Rect. with cutouts at elevator ends.
ST	NOSE	Shorter than engines, bulky and glazed.
	FUSE	Tear drop shaped, tapering to a slim point. M.g position on top. Slim booms extend from engines well aft of fuse, and to the TU.
	TFR	Moderate ST on the LE, flat top and slight ST to the TE.
GENERAL IMPRESSION	Slender with a tear drop fuse, and tiny engines.	

NAME	LIGHTNING F-38
TYPE	Single seat fighter.
DIMENSIONS	W.S. 52 ft. Lt. 38 ft.
CONSTRUCTION	MW T/Bng. mono. with TFR and ret. U/C.
ENGINES	2 ILLC Allison of 1,090 h.p.
PERFORMANCE	Speed 404 m.p.h. Range 1,070 h.p. Ceiling 39,000 ft.
ARMAMENT	4 m.g.'s .303 cal., 2 m.g.'s .50 cal., 1 cannon all in nose.
NOV	FUSE
WINGS	Oval and small.
WINGS	Dihedral from roots.
WINGS	Low mounted.
TU	TF high, TFR inrigged and appear over engines.
FV	NOSE
WINGS	Long and tapering to a point. Engines project 3/4 length. Equal ST with slim rounded tips. Booms extend from engines to support the TU. Rads. show on both sides of booms.
FUSE	Terminates at the TE of the wing.
TF	Long and rect. with rounded tips.
SV	NOSE
FUSE	Nicely pointed and streamlined.
FUSE	Small prominent CP central on fuse which tapers front and rear
TFR	Egg shaped and extend below the TF slightly.
GENERAL IMPRESSION	Sleek and streamlined. Twin booms prominent.

NAME MARYLAND MARTIN 167 --15--
 TYPE Medium bomber.
 DIMENSIONS W.S. 61 ft. Lt. 47 ft.
 CONSTRUCTION LMW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 radial Pratt & Whitney Twin Wasp of 1,050 h.p.
 PERFORMANCE Speed 316 m.p.h. Range 1,300 mi. Ceiling 29,500 ft.
 ARMAMENT 4 m.g.'s fixed, 1 free on top and 1 free belly position.
 Some had 6 m.g.'s fixed. Bomb load 2,000 lbs.
 HOV FUSE Rect. with rounded top and bottom. Turret visible on top.
 WINGS Dihedral from roots.
 ENGS Mid-mounted.
 TU TP high. SFR prominent.
 FV NOSE Blunt and medium length. Engines project 1/2 length.
 WINGS Equal ST with curved tips.
 FUSE Torpedo shaped.
 TP Unequal ST more marked on the LE, broad rounded tips, V cut-out.
 SV NOSE Long, rounded and glazed.
 FUSE Top line straight from CP and broken by turret. In front of the fin is a raised platform for the TP. Bottom line straight to step aft of wings and then tapers to TU.
 SFR ST on the LE, rounded tip, curved TE. Large.
 GENERAL IMPRESSION--High tail and slender fuse.

NAME BALTIMORE MARTIN 187
 TYPE Medium bomber.
 DIMENSIONS W.S. 61 ft. Lt. 48 ft.
 CONSTRUCTION MW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 radial Wright Cyclones of 1,600 h.p.
 PERFORMANCE Speed 335 m.p.h. Range 1,700 mi. Ceiling 31,000 ft.
 ARMAMENT 4 m.g.'s in nose. 2 m.g.'s top and belly positions. Bombs 3,000 lbs.
 HOV FUSE Stirrup shaped.
 WINGS Dihedral from roots.
 ENGS Mid-mounted.
 TU TP high. SFR prominent.
 FV NOSE Long with a glazed panel in the tip. Engines project 1/3 length.
 WINGS Equal ST with rounded tips and the TE broken by engine nacelles.
 FUSE Torpedo shaped.
 TP Broad with unequal ST more marked on the LE and a bite out of TE.
 SV NOSE Long and well rounded with a glazed panel at tip.
 FUSE Long low dual CP extending to aft CP breaks the top line. Bottom line deepens to belly gun position which shows as a deep step and then tapers to the TU.
 SFR Marked ST on the LE, rounded tip and TE. Paired into fuse on LE.
 GENERAL IMPRESSION--

NAME MARAUDER B-26
 TYPE Medium bomber.
 DIMENSIONS W.S. 65 ft. Lt. 58 ft.
 CONSTRUCTION SW T/Eng. mono. with SFR and ret. U/C. of tricycle type.
 ENGINES 2 radial Pratt & Whitney of 1,350 h.p.
 PERFORMANCE Speed 346 m.p.h. Range 2,400 mi. Ceiling 34,500 ft.
 ARMAMENT Nose and tail m.g.'s and top turret. Bomb load 4,000 lbs.
 HOV FUSE Round.
 WINGS Slim and straight appearing.
 ENGS Low mounted.
 TU TP DIHEDRAL from roots. SFR prominent.
 FV NOSE Long and well rounded with a glazed tip. Engines project 1/3 lt.
 WINGS Centrally mounted on fuse with equal ST and rounded tips.
 TE broken by engine nacelles.
 FUSE Cigar shaped and nicely streamlined.
 TP Unequal ST more marked on the LE and rounded tips.
 SV NOSE Well rounded with a glazed tip.
 FUSE Top line broken by CP near nose and turret near SFR. Bottom line curved. Fuse projects at rear of SFR.
 SFR High with a slight ST on the LE, rounded tip and moderate ST on the TE.
 GENERAL IMPRESSION--Very streamlined and pleasing in outline.

NAME JUNKERS 52 3m.
 TYPE Troop transport and glider tower.
 DIMENSIONS W.S. 96 ft. Lt. 62 ft.
 CONSTRUCTION LW 3/Eng. mono. with SFR and fixed U/C.
 ENGINES 3 radial BMW 132 of 845 h.p.
 PERFORMANCE Speed 207 m.p.h. Range 546 mi. Ceiling 19,000 ft.
 ARMAMENT 1 m.g. above CP, 1 m.g. in dorsal GF; some had a dustbin below.
 HOV FUSE Square in section with a rounded top line. In some dustbin visible
 WINGS Dihedral from a very short CS to which the fixed U/C is fastened.
 ENGS 2 centrally mounted on wings and 1 on nose.
 TU TF high and strut braced. SFR prominent.
 FV NOSE Blunt and fitted with radial engine. Engines on wings short
 and set a right angles to the wing, giving an offset appearance.
 WINGS Equal moderate ST with small blunt tips and Junkers double
 type wing flap visible on the TE.
 FUSE Curved taper to the TU.
 TP Appears rect with elevators of wider span.
 SV NOSE Snout like and upswep on bottom line.
 FUSE A lancet straight top line broken by GF and curved undersurface
 broken by fixed U/C. Dustbin when fitted just aft of U/C.
 SFR Square cut with ST on the LE and the rudder aft of the fuse.
 GENERAL IMPRESSION---

NAME BOMBAY
 TYPE Troop transport.
 DIMENSIONS W.S. 96 ft. Lt. 69 ft.
 CONSTRUCTION HW 2/Eng. mono. with TFR and fixed U/C.
 ENGINES 2 radial Pegasus of 1,010 h.p.
 PERFORMANCE Speed 192 m.p.h. Range 2,230 mi. Ceiling 25,000 ft.
 ARMAMENT Nose and tail single m.g.'s in Bristol turrets.
 HOV FUSE Square with rounded corners. Pairing for tail turret vis. on top.
 WINGS Straight CS with slight dihedral on CS.
 ENGS Mid-mounted with U/C below and braced to the fuse.
 TU TF invisible. TFR irrigated and braced.
 FV NOSE Long and blunt tipped. Engines project slightly.
 WINGS Broad with a straight LE, square tips; slight ST on CS of the
 TE and a straight CS.
 FUSE Tapers slightly to a turret aft of the TP.
 TP Rect. with slightly curved tips.
 SV NOSE Long with a square tip. CF near tip.
 FUSE Long and box-like, tapering at rear slightly. Top line broken
 by wings and engines and bottom by the fixed U/C.
 TFR High and extending below TP some. Kidney shaped, rounded sides.
 GENERAL IMPRESSION--Broad winged and box-like.

NAME MITCHELL II D-25
 TYPE Medium bomber.
 DIMENSIONS W.S. 67 ft. Lt. 54 ft.
 CONSTRUCTION MW 2/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 radial Wright Cyclone of 1,350 h.p.
 PERFORMANCE Speed 310 m.p.h. Range 2,600 mi. Ceiling 26,500 ft.
 ARMAMENT Nose and tail m.g.'s. Top and belly turrets. Bomb load 3,000 lbs.
 HOV FUSE Somewhat rect. with turret visible on top.
 WINGS Gull wings, mid-mounted. Mitchell I has wings dihedral from fuse.
 ENGS Low mounted and near top of inner dihedral section.
 TU TF high. TFR outriggered and appear near outer side of engines.
 FV NOSE Long and well rounded at tip. Engines project 1 1/4 of length.
 WINGS Mounted centrally on fuse. Unequal ST more marked on the TE
 and rounded tips. Engine nacelles project at TE.
 FUSE Tapers slightly to just aft of TP.
 TP Moderate ST on the LE, square tips and straight on TE with
 cutouts on elevator ends.
 SV NOSE Glazed and tapers on top line.
 FUSE Long and slightly tapered. Top line straight from CF and broken
 by turret near tail. Turret projects slightly on bottom. No tur-
 rets on the Mitchell I.
 TFR Rect. with slight ST on the LE.
 GENERAL IMPRESSION---

NAME BEAUFORT --17--
 TYPE Torpedo bomber.
 DIMENSIONS W.S. 58 ft. Lt. 44 ft.
 CONSTRUCTION MW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 radial Taurus of 1,060 h.p.
 PERFORMANCE Speed 310 m.p.h. Range 1,500 mi. Ceiling
 ARMAMENT 2 free m.g.'s in nose, side window m.g.'s, top turret. Some had fixed m.g.'s. Bomb load up to 2,000 lbs. Carries 1,500 lbs. for range of 1,500 mi.
 HOV FUSE Rect. with a rounded top.
 WINGS Straight CS to the engines, dihedral on OS.
 ENOS Underslung at end of OS.
 TU TF high. SFR visible.
 FV NOSE Short and well rounded. Engines project 1/2 length.
 WINGS Unequal ST more marked on the TE and rounded tips. TE broken by semi-circular plates on wing aft of the engines. Not on all. Tapers to a point aft of the TF.
 FUSE Straight LE, rounded tips, slight ST on the TE with a bite out.
 SV NOSE Rounded on top half and back swept on lower half. Deep
 FUSE Top line broken by long raised section from CP to top turret. Bottom line tapers slightly.
 SFR Curved taper on both edges to a rounded pointed tip. Bristol SFR.

GENERAL IMPRESSION--

NAME MESSERSCHMITT 110
 TYPE Two seat fighter, night fighter.
 DIMENSIONS W.S. 53 ft. Lt. 40 ft.
 CONSTRUCTION LW T/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 ILCC DB 601 of 1,150 h.p.
 PERFORMANCE Speed 375 m.p.h. Range 1,500 mi. Ceiling 35,000 ft.
 ARMAMENT 2 cannon, 4 m.g.'s fixed in nose, 1 free m.g. in aft CP.
 HOV FUSE Oval in section with a small CP on top.
 WINGS Dihedral from roots.
 ENOS Underslung with rads. outboard of engines below wings.
 TU TF high. TFR outriggered and appear above engines.
 FV NOSE Blunt pointed. Engines project 1/2 length.
 WINGS Nearly equal ST to square cut slim tips.
 FUSE Slim and tapers to TU.
 TF Rect. with slight ST to both edges. Cutouts at elevator ends.
 SV NOSE Round and blunted.
 FUSE Slim and tapers to TU from a long dual glazed CP. Bottom line broken by engine nacelles.
 TFR Curved on LE and TE, rounded top and flat base. Small.

GENERAL IMPRESSION--Slim and sleek.

NAME MESSERSCHMITT JAGUAR
 TYPE Bomber.
 DIMENSIONS W.S. 55 ft. Lt. 40 ft.
 CONSTRUCTION LW T/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 ILCC Mercedes Benz of 1,150 h.p.
 PERFORMANCE Speed 320 m.p.h. Range 1,500 mi. Ceiling 35,000 ft.
 ARMAMENT 1 cannon free in nose, 4 m.g.'s fixed in nose, 1 m.g. free aft CP. Bomb load 1,600 lbs.
 HOV FUSE Oval and small with a flat base.
 WINGS Dihedral from roots.
 ENOS Low mounted with rads. beneath.
 TU TF high. TFR outriggered and appear outboard of engines.
 FV NOSE Glazed and well rounded. Engines project 2/3 length.
 WINGS Unequal ST more marked on the TE and square tips.
 FUSE Tapers off slim and is long.
 TF Unequal ST more marked on the TE and square tips with cutouts at elevator ends.
 SV NOSE Long, well rounded and glazed.
 FUSE Slender with the top line broken by long low dual CP and the bottom line by the engines and rads.
 TFR Curved taper on both edges, rounded tip and flat base.

GENERAL IMPRESSION--

NAME BOSTON I --15--
 TYPE Attack bomber. Night fighter.
 DIMENSIONS W.S. 61 ft. Lt. 47 ft.
 CONSTRUCTION SW T/Eng. mono. with SFR and ret. U/C of tricycle type.
 ENGINES 2 radial Twin Wasp of 1,050 h.p.
 PERFORMANCE Speed 305 m.p.h. Range 1,200 mi. Ceiling
 ARMAMENT 4 m.g.'s in nose, 2 in rear top GF. Bomb load 1,000 lbs.
 As a night fighter it has 4 cannon and up to 8 m.g.'s. Varied.
 HOV FUSE Stirrup shaped.
 WINGS Dihedral from roots.
 ENGS Underslung greatly.
 TU TF high and dihedral. SFR prominent.
 FV NOSE Long and blunt pointed. Engines project 1/3 length.
 WINGS Straight LE, rounded tips and marked ST on the TE. Engine nacelles break the TE slightly.
 FUSE Torpedo shaped.
 TF Moderate ST on the LE, rounded tips and curved taper on TE.
 SV NOSE Long and rounded, glazed.
 FUSE Top line raised slightly from CP to GF. Bottom tapers aft of wings and has a tail skid at rear.
 SFR Prominent and high. Conical.

GENERAL IMPRESSION--

NAME BOSTON III
 TYPE Medium bomber. Night fighter.
 DIMENSIONS W.S. 61 ft. Lt. 47 ft.
 CONSTRUCTION SW T/Eng. mono. with SFR and ret. tricycle U/C.
 ENGINES 2 radial Wright Cyclone 1,600 h.p.
 PERFORMANCE Speed 350 m.p.h. Range 1,200 mi. Ceiling
 ARMAMENT 4 m.g.'s in nose, 2 in top turret, 1 in each engine nacelle tip. Bomb load 1,600 lbs. As a night fighter same as Boston I.
 HOV FUSE Stirrup shaped.
 WINGS Dihedral from roots.
 ENGS Underslung greatly.
 TU TF high and dihedral from roots. SFR high and prominent.
 FV NOSE Long and glazed. Engines project 1/4 length.
 WINGS Mounted centrally on fus. Straight LE, rounded slim tips and marked ST on the TE. Engine nacelles break TE deeply.
 FUSE Torpedo shaped.
 TF ST on the LE, rounded tips and curved taper on TE.
 SV NOSE Long and well rounded with a glazed tip.
 FUSE Top line has a long low section from CP to GF. Bottom line tapers from aft of wings to TU and has a tail skid at rear.
 SFR High and cone shaped with a broad tip.

GENERAL IMPRESSION--Tail high.

NAME MESSERSCHMITT 210
 TYPE Bomber.
 DIMENSIONS W.S. 55 ft. Lt. 36 ft.
 CONSTRUCTION LW T/Eng. mono. with SFR and ret. U/C.
 ENGINES 2 ILLC Mercedes Benz of 1,450 h.p.
 PERFORMANCE Speed 285 m.p.h. Range 1,500 mi. Ceiling 38,000 ft.
 ARMAMENT 2 cannon, 4 m.g.'s in nose. Bomb load 4,000 lbs.
 HOV FUSE Oval with a flat base.
 WINGS Dihedral from roots. Rads. outboard of engines beneath wings.
 ENGS Low mounted.
 TU TF low mounted. SFR visible.
 FV NOSE Short and well rounded. Engines project past nose.
 WINGS Unequal ST more marked on the TE and rounded tips.
 FUSE Tapering.
 TF Unequal ST more marked on the LE. Rounded tips and a small cutout at TE.
 SV NOSE Engines project and have large spinners.
 FUSE Tapering with the CP prominent over nose. Bottom line broken by engine nacelles at nose.
 SFR Moderate ST on the LE and faired into fus. tip rounded and slight ST to the TE.

GENERAL IMPRESSION--

NAME Halifax II
TYPE Heavy bomber.
DIMENSIONS W.S. 99 ft. Lt. 70 ft.
CONSTRUCTION MW F/Eng. mono. with TFR and ret. U/C.
ENGINES 4 ILLC Merlin of 1,350 h.p.
PERFORMANCE Speed 295 m.p.h. Range 3,000 mi. Ceiling 25,000 ft.
ARMAMENT Nose, top and tail turrets. Bomb load 11,000 lbs.
HOV FUSE Rect. with rounded corners. Turret visible on top.
 WINGS Short straight CS, dihedral on OS.
 ENGS Underlung; 2 at end of OS, 2 on OS.
 TU TF high and wide. TFR outriggered and appear outboard of inner engines.
PV NOSE Long and blunt pointed. Engines staggered and well apart.
 WINGS Rect. OS to inboard engines. OS has unequal ST more marked on the LE and square tips.
 FUSE Thick and tapering to a turret aft of TF.
 TF Somewhat rect. with ST on the LE.
SV NOSE Blunt and deep.
 FUSE Top line straight and broken by turret. Bottom line tapers from aft of wings to turret aft of TU.
 TFR Somewhat rect. with a broad shallow "V" on the LE.
GENERAL IMPRESSION--Large with straight lines and angular.

NAME LANCASTER
TYPE Heavy bomber.
DIMENSIONS W.S. 102 ft. Lt. 70 ft.
CONSTRUCTION MW F/Eng. mono. with TFR and ret. U/C.
ENGINES 4 ILLC Merlin of 1,350 h.p.
PERFORMANCE Speed 300 m.p.h. Range 3,000 mi. Ceiling
ARMAMENT Nose, tail, top and belly turrets. Bomb load 8 tons.
HOV FUSE Stirrup shaped with turret visible on top.
 WINGS Straight OS and dihedral on OS.
 ENGS Underlung. 2 at end of OS, 2 on the OS.
 TU TF low mounted. TFR outriggered and appear between engines.
PV NOSE Long and bluntly pointed. Engines staggered and project 1/2 lt.
 WINGS Straight OS to inner engines. The OS has unequal ST more marked on LE and with rounded tips.
 FUSE Long and box-like and projects aft of TU for a turret.
 TF Angular with unequal ST more marked on the LE.
SV NOSE Deep.
 FUSE Box-like with a top turret visible and bottom line tapering from aft of wings to turret aft of TU.
 TFR High and a slim oval. They extend slightly below TF.

NAME MANCHESTER
TYPE Bomber.
DIMENSIONS W.S. 90 ft. Lt. 70 ft.
CONSTRUCTION MW T/Eng. mono. with TFR and ret. U/C.
ENGINES 2 ILLC Vulture of 1,345 h.p.
PERFORMANCE Speed 300 m.p.h. Range 2,000 mi. Ceiling 20,000 ft.
ARMAMENT Nose, tail and top turrets. Bomb load 5 tons.
HOV FUSE Rect. tapering to the top. Turret visible.
 WINGS Straight OS with dihedral on OS.
 ENGS Underlung near end of OS.
 TU TF not visible. TFR set well outboard of engines, prominent.
PV NOSE Long and bluntly pointed. Engines project 1/2 length.
 WINGS Rect. OS with unequal ST on the OS more marked on LE, round tips.
 FUSE Tapers slightly to a turret aft of TU.
 TF Angular with unequal ST more marked on the TE. Small cutouts at elevator ends.
SV NOSE Blunt.
 FUSE Box-like with a low CF near nose and a turret aft of wings.
 TFR High and a slim oval. They extend below TF some.
GENERAL IMPRESSION--

NAME KURIER II PW 200 K
 TYPE Recon. heavy bomber.
 DIMENSIONS W.S. 108 ft. Lt. 78 ft.
 CONSTRUCTION LW F/Eng. mono. with SFR and ret. U/C.
 ENGINES 4 radial BMW 801 of 1,600 h.p.
 PERFORMANCE Speed 279 m.p.h. Range 2,300 mi. Ceiling 23,550 ft.
 ARMAMENT 1 cannon rear of bomb well, 1 cannon in nose, 2 m.g.'s top turret near nose, 2 m.g.'s side windows, 2 m.g.'s dorsal GP.
 Bomb load 6,000 lbs.
 HOV FUSE Small with slightly curved sides. Rounded top and bomb well offset below.
 WINGS Long straight OS and dihedral on OS.
 ENGS All on OS; inboard ones underslung and outer mid-mounted.
 TU TP low. SFR prominent.
 PV NOSE Long and thick pointed. Engines staggered and project approx. 1/2.
 WINGS Broken ST on the LE, small rounded tips; slight ST on TE with a shallow long "V" aft of engine nacelles.
 FUSE Well streamlined to TU.
 TP Unequal ST more marked on the LE and square cut tips.
 SV NOSE Long and pointed.
 FUSE Curved taper to TU with a turret near nose and GP aft of wings on top. Bottom line broken by engines and long bomb well.
 SFR Equal ST with a broad blunt tip. Prominent.
 GENERAL IMPRESSION--Whale like.

NAME HEINKEL 177
 TYPE Heavy bomber.
 DIMENSIONS W.S. 103 ft. Lt. 67 ft.
 CONSTRUCTION MW T/Eng. (appearing) mono. with SFR and ret. U/C.
 ENGINES 4 ILDO DB 601 of 1,150 h.p. mounted side by side in 2 nacelles and called the DB 606. They drive opposite rotating propellers.
 PERFORMANCE Speed 280 m.p.h. Range 7,040 mi. Ceiling 25,000 ft.
 ARMAMENT Free cannon nose and tail; m.g.'s below and some with top turret. Bomb load approx. 5 tons.
 HOV FUSE Rect. with rounded corners. Blister shows below.
 WINGS Straight OS and dihedral on OS.
 ENGS Mid-mounted, radial in appearance and placed at end of OS.
 TU TP mid-mounted. SFR prominent.
 PV NOSE Long with a glazed tip. Engine nacelles project nearly 1/2.
 WINGS Rect. OS with unequal ST on OS more marked on the TE. Round tips.
 FUSE Long and slightly tapering to a GP aft of the TP.
 TP Marked ST on the LE, square tips and slight ST on the TE.
 SV NOSE Glazed tip with a blister beneath.
 FUSE Long and box-like with top line straight and no CP visible.
 Bottom line has blister near nose and a step aft of wings.
 SFR High with a moderate ST on the LE, square tip and vert. TE.
 GENERAL IMPRESSION--

NAME STIRLING I
 TYPE Heavy bomber.
 DIMENSIONS W.S. 99 ft. Lt. 57 ft.
 CONSTRUCTION MW F/Eng. mono. with SFR and ret. U/C.
 ENGINES 4 radial Hercules of 1,600 h.p.
 PERFORMANCE Speed 267 m.p.h. Range 2,050 mi. Ceiling 25,000 ft.
 ARMAMENT Nose, tail, top and some with belly turret. Bomb load 3 tons.
 HOV FUSE Stirrup shaped.
 WINGS Dihedral from roots.
 ENGS Equally spaced along wing; 2 inner engines underslung.
 TU TP not visible. SFR prominent.
 PV NOSE Long and blunt pointed. Engines staggered.
 WINGS Unequal ST more marked on the TE, rounded tips and fillets at roots.
 FUSE Long and thick, tapering slightly to turret aft of TU.
 TP Long with unequal ST more marked on the LE and rounded tips.
 SV NOSE Long and blunt.
 FUSE Top line broken by prominent CP near nose and a turret. Bottom line tapers last 1/4 of length.
 SFR Tall and conical in shape. Broad.
 GENERAL IMPRESSION--

NAME		Heavy bomber.
TYPE		W.S. 110 ft. Lt. 64 ft.
DIMENSIONS		SW F/Eng. mono. with SFR and ret. tricycle U/C.
CONSTRUCTION		4 Pratt & Whitney of 1,200 h.p.
ENGINES		Speed 335 m.p.h. Range 3,000 mi. Ceiling 36,000 ft.
PERFORMANCE		2 side, 1 top and 1 belly turrets. Bomb load 4 tons. As a
ARMAMENT		patrol fighter it has 4 cannon in the nose.
HOV	FUSE	Deep and broad with rounded sides and bottom. Turret visible.
	WINGS	Dihedral from fuse.
	ENGS	Low mounted.
	TU	TP high. SFR outrigger and high and appear over inboard engines.
PV	NOSE	Long and well rounded. Engines project 1/4 length.
	WINGS	Equal ST with rounded tips. Very long and narrow appearing.
	FUSE	Long and slightly tapering.
SV	TP	Broad and rect. with small cutouts at elevator ends.
	NOSE	Deep with a glazed tip tapering backwards from top to bottom.
	FUSE	Deep with a straight top line broken by turret. Bottom line slightly rounded. Mk. III has turret near CP.
	SFR	High with straight sides and rounded top and bottom.

GENERAL IMPRESSION--

NAME		FORTRESS I BOEING B17 C
TYPE		Heavy bomber.
DIMENSIONS		W.S. 104 ft. Lt. 68 ft.
CONSTRUCTION		LW F/Eng. mono. with SFR and ret. U/C.
ENGINES		4 radial Wright Cyclones of 1,200 h.p.
PERFORMANCE		Speed 320 m.p.h. Range 3,000 mi. Ceiling 36,000 ft.
ARMAMENT		2 side, 1 top and 1 belly blister with m.g.'s. Bomb load 4 tons.
HOV	FUSE	Round with a low flat topped CP. Belly blister visible.
	WINGS	Very thick, approx. 1/2 diam. of fuse. and dihedral from fuse.
	ENGS	Almost enclosed within wings. Wheels project slightly.
	TU	TP not visible. SFR prominent.
PV	NOSE	Long and well rounded. Engines project nearly 1/2 and staggered.
	WINGS	Unequal ST more marked on the LE and rounded tips.
	FUSE	Tapers to a point aft of the TP.
SV	TP	Marked ST on the LE, rounded tips and slight ST on the TE.
	NOSE	Deep and well rounded.
	FUSE	Tapers from a low flat CP near nose on top line and curved taper on bottom line broken by wheels and blister.
	SFR	High with a slight ST on the LE, curved on top and straight TE.

GENERAL IMPRESSION--

NAME		FORTRESS II BOEING B17 E
TYPE		Heavy bomber.
DIMENSIONS		W.S. 104 ft. Lt. 74 ft.
CONSTRUCTION		LW F/Eng. mono. with SFR and ret. U/C.
ENGINES		4 radial Wright Cyclones of 1,200 h.p.
PERFORMANCE		Speed 325 m.p.h. Range 4,000 mi. Ceiling 36,000 ft.
ARMAMENT		13 m.g.'s of .50 c.l. except 1 nose, 2 in tail, 4 in two aft blisters near SFR, 2 in belly turret, 2 in top front turret.
HOV	FUSE	2 in nose at sides and 1 in nose front. Bomb load 4 tons.
	WINGS	Round with top and belly turrets visible.
	ENGS	Thick, approx. 1/2 diam. of fuse. Dihedral from roots.
	TU	TP high and visible. SFR prominent.
PV	NOSE	Almost enclosed in wings. Wheels project slightly.
	WINGS	Well rounded and of medium length. Engines staggered and 1/2 lt.
	FUSE	Broad with unequal ST more marked on the LE and rounded tips.
SV	TP	Tapers to a rear gun position aft of the TP.
	NOSE	Unequal ST more marked on the LE and rounded tips.
	FUSE	Long and well rounded, tapering slightly backward from top. Tapering slightly with a low CP and a turret just aft of it.
	SFR	High with a long stabilizer from aft of the wings to the SFR. Rounded tip and a slight ST on the TE. The fuse. projects aft.

GENERAL IMPRESSION--

NAME
TYPE
DIMENSIONS
CONSTRUCTION
ENGINES
PERFORMANCE
ARMAMENT
HOV
FUSE
WINGS
ENGS
TU
FV
NOSE
WINGS
FUSE
TP
SV
NOSE
FUSE
TFR

Tracy transport.
W.S. 135 ft. Lt. 86 ft.
W 1/2 Eng. mono. with TFR and ret. U/C.
4 radial EVO 132 of 830 h.p.
Speed 211 m.p.h. Range 1,300 mi. Ceiling 18,000 ft.
Window m.g's.
Square with rounded corners.
Short straight OS with dihedral on OS.
mid-mounted.
TF high and long. TFR enlarged slightly and appear between engines. They extend below TF some.
Long, broad and well rounded. Engines project 1/3 and staggered. Marked ST to the LE, blunt tips. The TE is straight on the OS and the OS while a middle section is swept forward some.
Tapers to a point aft of the TF.
Moderate ST on the LE, slight ST on the TE. Elevators shorter.
Slantly pointed.
Straight top line with CF almost at nose. Bottom line curved and fuse. Projects at rear.
Broad with a round LE and a slightly curved TE. Rudder carries over top of the fin.

GENERAL IMPRESSION--

NOTE--Ju. 89 is a military version with nose and tail turrets and a top CF. It is powered by 4 ILLC Ju. JUMO 211 of 1,100 h.p. Otherwise similar.

NAME
TYPE
DIMENSIONS
CONSTRUCTION
ENGINES
PERFORMANCE
ARMAMENT
HOV
FUSE
WINGS
ENGS
TU
FV
NOSE
WINGS
FUSE
TP
SV
NOSE
FUSE
SPR

BEAUFIGHTER I
Two-seat fighter. Fight fighter.
W.S. 58 ft. Lt. 41 ft.
W 1/2 Eng. mono. with SPR and ret. U/C.
2 radial Hercules of 1,400 h.p. Mc. II has ILLC Merlin.
Speed 320 m.p.h. Range 1,500 mi. Ceiling 23,900 ft.
4 cannon, 6 m.g.'s fixed.
Pear shaped with a large glazed CF.
Short straight OS, dihedral on OS.
Centrally mounted at end of OS.
TF median high. SPR visible.
Short and stubby. Engines project past nose some.
Unmarked ST more marked on the TE. TE rounded and fillets at TE.
Curved taper to the TF.
Straight LE, rounded tips and slight ST on the TE with a V bite.
Hidden by engines.
Tapers slightly, mostly on top. Observers dome breaks top line and engine nacelles the bottom line, especially in LE. TF.
Broken curved taper on LE, rounded pointed tip and curved TE.

GENERAL IMPRESSION--

NAME
TYPE
DIMENSIONS
CONSTRUCTION
ENGINES
PERFORMANCE
ARMAMENT
HOV
FUSE
WINGS
ENGS
TU
FV
NOSE
WINGS
FUSE
TP
SV
NOSE
FUSE
SPR

HEINKEL HE 111 Mc. V
Bomber.
W.S. 74 ft. Lt. 54 ft.
W 1/2 Eng. mono. with SPR and ret. U/C.
2 ILLC Ju. Jumo 211 of 1,150 h.p.
Speed 250 m.p.h. Range 1,100 mi. Ceiling 24,100 ft.
1 m.g. offset in nose, 2 m.g.'s in ventral position, 1 m.g. dorsal and 2 m.g.'s in side windows. Some had 1 cannon ventral. Some had 1 m.g. remotely controlled in tail or a grenade thrower. Bomb load 4,400 lbs. Latest will carry two torpedoes. It is He III Hae.
Large and oval. Blister shows below and CF above.
Dihedral from roots
Underslung.
TF low. SPR prominent.
Pointed, glazed and offset to starboard. Engines project equally.
LE straight to the engines. Marked ST on OS, rounded tips, slight ST on the LE with a prominent GUTTER BITE out at TE roots.
Tapering.
Ellipsoidal and broad.
Rounded and glazed, partially hidden by engines.
Aerofair shaped, well streamlined, with no external CF. A CF on top and a blister below aft of wings. Tapers to a point at tail.
High with curved sides and a large bite out of TE at bottom.

GENERAL IMPRESSION--Very streamlined and tapering.

NAME CAZALINA PSY-5 CANSO (amphibian) PSY-5A --23--
 TYPE Recon. flying boat.
 DIMENSIONS W.S. 104 ft. Lt. 64 ft.
 CONSTRUCTION HW 7/Eng. mono. with SFR and ret. wing tip floats.
 ENGINES 2 radial Twin Wasp of 1,200 h.p.
 PERFORMANCE Speed 190 m.p.h. Range 4,000 mi. Ceiling 24,000 ft.
 ARMAMENT 4 m.g.'s in two side blisters, 1 nose and belly m.g. Bomb load
 4 depth charges of 450 lbs. each.
 HOV FUSE Rounded low flying boat hull with a central spar supporting wing.
 WINGS Long, straight and braced to hull. Blunt tips come down for floats.
 ENGS Mounted close together centrally on wings.
 TU TP Not visible. SFR visible.
 PV NOSE Long broad and rounded tip. Engines partially hidden by hull.
 WINGS Long rect. CS and equal slight ST on CS to square tips.
 FUSE Curved taper to TP with blister visible on both sides.
 TP ST on the LE, rounded tips and a straight TE.
 SV NOSE Blunt, housing CP and CF.
 FUSE Straight top broken by superstructure supporting wings and engine nacelles. Also by blisters midships. Bottom line two-stepped
 SFR Large and prominent and well faired into fuse. TP set high on it.

GENERAL IMPRESSION--

NAME DORNIER 18K2
 TYPE Recon. flying boat.
 DIMENSIONS W.S. 78 ft. Lt. 53 ft.
 CONSTRUCTION HW 7/Eng. mono. with SFR and spars on hull.
 ENGINES 2 radial BRW 132 of 865 h.p. Earlier model had 2 ILLC Jumo diesels of 600 h.p. In both models the engines are in tandem.
 PERFORMANCE Speed 186 m.p.h. Range 2,700 mi. Ceiling 17,400 ft.
 ARMAMENT 1 m.g. in nose and top aft turret. Bomb load 1,500 lbs. on wings.
 HOV FUSE Low flying boat hull with spars on sides and high central spar.
 CONSTRUCTION WINGS Straight and braced to spars.
 ENGS High mounted centrally over hull. Ceiling 24,000 ft.
 TU TP braced, not visible. SFR not visible. Belly m.g. bomb load
 PV NOSE Pointed flying boat hull extending well beyond wings.
 WINGS Have slight ST and broad rounded tips. LE broken by spars.
 FUSE Tapers to a point aft of the TP.
 TP Rect. with a bite out of TE. Elevators slightly longer than rest.
 SV NOSE Pointed bluntly. Center centrally on wings.
 FUSE Two-stepped hull broken on top by low CP near nose, high central spar and turret aft of wings. Engines partially hidden by hull.
 SFR High with marked ST on the LE and faired into fuse. Tip blunt and a slight ST to the TE. Not visible on both sides.

GENERAL IMPRESSION--

NAME DORNIER 25
 TYPE Recon. flying boat.
 DIMENSIONS W.S. 98 ft. Lt. 80 ft.
 CONSTRUCTION HW 7/Eng. mono. with SFR and ret. wing tip floats.
 ENGINES 4 ILLC Ju. Jumo diesels of 600 h.p. mounted in two nacelles in tandem.
 PERFORMANCE Speed 208 m.p.h. Range 5,600 mi. Ceiling 20,000 ft.
 ARMAMENT Cannon in nose turret, 2 m.g. blisters aft of wings. Bomb load 3,000 lbs. or 1,000 lbs. for 5,100 mi.
 HOV FUSE Flying boat hull with a rounded top.
 WINGS Gull winged. Bldg. appear on both sides of engines beneath wings.
 ENGS High mounted near top of dihedral section. CS is straight.
 TU TP high and braced. SFR very prominent.
 PV NOSE Long and rounded. Engines project 1/3 length and high curved
 WINGS Straight CS to engines, moderate ST on CS, blunt tips and a straight TE broken by the engine nacelles.
 FUSE Tapers to a point aft of TP.
 TP Unequal ST more marked on the LE. Elevator longer slightly and has a bite out.
 SV NOSE Well rounded with a turret prominent near tip.
 FUSE Two-step hull with top line broken by CP, engines and blisters.

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NAME	DORNIER 24
TYPE	Reconn. flying boat.
DIMENSIONS	W.S. 89 ft. Lt. 72 ft.
CONSTRUCTION	Parasol wing 3/Eng. mono. with TFR and sparsens.
ENGINES	3 BMW 132 of 760 h.p. Used by the Dutch with Wright Cyclones.
PERFORMANCE	Speed 195 m.p.h. Range 2,050 mi. Ceiling 17,390 ft.
ARMAMENT	1 m.g. in nose, top and tail turrets. Bomb load 12 of 112 lbs.
HOV	FUSE Low and flat topped with sparsens on sides.
	WINGS Supported by struts over hull. Thick and straight.
	ENGS Nearly enclosed in wings. Centre engine slightly higher.
	TU TP not visible. TFR appear outboard of engines.
FV	NOSE Broad and pointed. Engines project slightly.
	WINGS Rect. OS with marked ST on the OS on the LE and slight ST on TE. Tips are square. Sparsens and engines break LE.
	FUSE Tapers to aft of TP for a turret.
	TP Unequal ST more marked on the LE, square tips. Small cutouts at elevator ends.
SV	NOSE Long with a turret near tip.
	FUSE Long and untapered with a two-step hull. Struts, wings, engines and three turrets on top line.
	TFR Moderate ST on the LE, Slight ST on TE, rounded base. Small.

GENERAL IMPRESSION--

NAME	BLOHM & VOSS 139
TYPE	Reconn. seaplane.
DIMENSIONS	W.S. 81 ft. Lt. 64 ft.
CONSTRUCTION	LW F/Eng. mono. with twin floats and TFR.
ENGINES	4 Ju. Jumo diesels of 600 h.p.
PERFORMANCE	Speed 196 m.p.h. Range 3,100 mi. Ceiling 12,100 ft.
ARMAMENT	Window m.g.'s. Mine laying apparatus.
HOV	FUSE Rounded.
	WINGS Cranked with dihedral on OS. Rads. show below between engines.
	ENGS High mounted and well apart. Inboard engines and floats are placed at end of crank. These are on spars and not braced.
	TU TP high. TFR inrigged and appear over inboard engines.
FV	NOSE Long, untapered and well rounded. Floats extend equally with nose and outboard engines 1/3 length.
	WINGS Rect. with blunt tips and floats projecting aft of TE.
	FUSE Tapers to a point.
	TP Straight LE, rounded tips, marked ST to the OS of TE and st. OS.
SV	NOSE Slim and rounded.
	FUSE Top line straight from CP near nose. Bottom line broken by the inboard engines and spar supporting fuse.
	TFR Semi-circular with rounded face in front. Rudder slightly wider.

GENERAL IMPRESSION--

NAME	BLOHM & VOSS 142
TYPE	Troop transport.
DIMENSIONS	W.S. 97 ft. Lt. 65 ft.
CONSTRUCTION	LW F/Eng. mono. with TFR and ret. U/O.
ENGINES	4 radial BMW 132 of 880 h.p.
PERFORMANCE	Speed 248 m.p.h. Range 2,730 mi. Ceiling 22,300 ft. Load 30 men.
ARMAMENT	Window m.g.'s.
HOV	FUSE Round.
	WINGS Cranked with dihedral on OS.
	ENGS Set well apart and mid-mounted. Inner engines at end of crank.
	TU TP high and braced. TFR cutrigged and appear outboard of inner engines. They extend below TP.
FV	NOSE Nose long and well rounded. Engines project 1/4.
	WINGS Rect. with square tips. Inboard engine nacelles project at TE.
	FUSE Tapers to a point aft of TP slightly.
	TP Rect. with a shorter TE caused by large cutouts at ends.
SV	NOSE Slim and pointed.
	FUSE Top line nearly straight from CP near nose. Bottom line broken by inner engines.
	TFR Rect. with a broad "v" to the LE. Whole TU is set up on a spar.

NAME SUNDERLAND
 TYPE Recon. flying boat.
 DIMENSIONS W.S. 113 ft. Lt. 85 ft.
 CONSTRUCTION HW P/Eng. mono. with SFR and fixed wing tip floats.
 ENGINES 4 radial Pegasus of 1,010 h.p.
 PERFORMANCE Speed 210 m.p.h. Range 2,350 mi. Ceiling 20,500 ft.
 ARMAMENT Nose and tail turrets, 2 gun positions aft of wings, window m.g.'s. Bomb load 4,000 lbs.
 HOV FUSE Deep flying boat hull with a rounded top.
 WINGS Dihedral from hull with fixed wing tip floats.
 ENGS Mid-mounted.
 TU TP not visible. SFR prominent.
 PV NOSE Long and rounded tip. Engines project slightly and are staggered.
 WINGS Unequal ST more marked on the LE with rounded tips.
 FUSE Long and projecting aft of the TF for a turret.
 TP Unequal ST more marked on the LE with rounded tips.
 SV NOSE Deep and blunt.
 FUSE Deep with two-step bottom. Top line straight from CP near nose.
 SFR High with unequal ST more marked on the LE with a rounded tip.
 GENERAL IMPRESSION--

NAME LERWICK
 TYPE Recon. flying boat.
 DIMENSIONS W.S. 81 ft. Lt. 64 ft.
 CONSTRUCTION HW T/Eng. mono. with SFR and fixed wing tip floats.
 ENGINES 2 radial Hercules of 1,375 h.p.
 PERFORMANCE Speed 250 m.p.h. Range 2,000 mi. Ceiling 22,000 ft.
 ARMAMENT Nose, tail and mid-upper turrets. Bombs and depth charges.
 HOV FUSE Deep with a marked taper to the top.
 WINGS Straight CS with dihedral on OS.
 ENGS Somewhat high mounted.
 TU TP not visible. SFR prominent.
 PV NOSE Long and tapering to a rounded tip. Engines project 1/3.
 WINGS Rect. CS with almost equal ST on the OS and rounded tips.
 FUSE Tapers to a turret aft of the TF.
 TP Marked ST on the LE, rounded tips and slight ST on the TE.
 SV NOSE Deep and tapering from CP near tip.
 FUSE Deep with the top line tapering and broken by the engines and turret. Bottom line of single step construction.
 SFR High with unequal ST more marked on the LE and a square tip. Cutout at base of rudder for gun movement.
 GENERAL IMPRESSION--

NAME HEINKEL 115
 TYPE Recon. seaplane.
 DIMENSIONS W.S. 76 ft. Lt. 57 ft.
 CONSTRUCTION MW T/Eng. mono. with SFR and twin floats.
 ENGINES 2 radial BMW 132 of 830 h.p.
 PERFORMANCE Speed 217 m.p.h. Range 1,305 mi. Ceiling 21,400 ft.
 ARMAMENT 1 m.g. in nose, aft CP and in the rear of each engine nacelle remotely controlled. Torpedo of 1,760 lbs. carried between floats.
 HOV FUSE Oval.
 WINGS Slight anhedral OS with dihedral on OS. Floats at end of CS and braced to the hull.
 ENGS Mid-mounted at end of CS.
 TU TP high and braced. SFR visible.
 PV NOSE Slim with a rounded tip. Floats extend equally with fuse.
 WINGS Straight OS to engines with marked taper on OS, rounded tips and a straight TE broken by the floats.
 FUSE Tapering and slim.
 TP Marked ST on the LE with rounded tips and slight ST on the TE and a bite out of the elevators.
 SV NOSE Glazed and slightly pointed.
 FUSE Straight topped with a long dual CP prominent. Bottom line tapers from aft of the wings.
 SFR Moderate ST on the LE, square tip and vert. TE. Angular.
 GENERAL IMPRESSION--

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NAME	BLOHM & VOSS 138	
TYPE	Reconn. flying boat.	
DIMENSIONS	W.S. 89 ft. Lt. 65 ft.	
CONSTRUCTION	HW 3/Eng. mono. with TFR and fixed wing tip floats.	
ENGINES	3 ILCC Junc diesels of 600 h.p.	
PERFORMANCE	Speed 171 m.p.h. Range 1,490 mi. Ceiling 16,000 ft.	
ARMAMENT	1 m.g. in nose and rear turrets and in GP in centre engine. Bomb load 1,300 lbs.	
HOV	FUSE	Deep and broad flying boat hull.
	WINGS	Straight OS with dihedral on OS. Fixed wing tip floats.
	TU	TF very high. TFR outrigger and appear over outer engines.
	ENGS	High mounted and the centre one over fuse and higher than outer.
FV	NOSE	Long broad and rounded tip. Engines project slightly and small.
	WINGS	Straight LE with blunt tips. Moderate ST on OS of TE and inner section straight.
	FUSE	Ends 1/2 way to the TF in a tapering section. Two booms run from engines to support TU.
	TF	Rect. between booms and with small cutouts at elevator ends.
SV	NOSE	Somewhat pointed with a turret in front of GP.
	FUSE	Odd in appearance with engines and booms above fuse entirely and the centre engine higher than rest. Fuse is cut off square aft of wings in older models and is tapered in later models.
	TFR	Outrigger at end of booms. Marked taper on LE, rounded tip and upright TE.

GENERAL IMPRESSION--

NAME	BLOHM & VOSS 140	
TYPE	Reconn. seaplane.	
DIMENSIONS	W.S. 69 ft. Lt. 58 ft.	
CONSTRUCTION	HW 2/Eng. mono. with TFR and seaplane floats.	
ENGINES	2 radial BMW 132 of 880 h.p.	
PERFORMANCE	Speed 199 m.p.h. Range 1,500 mi. Ceiling 23,000 ft.	
ARMAMENT	Nose and top aft turrets. Mine layer and torpedo carrier. Load 2,000 lbs.	
HOV	FUSE	Deep and rect. with rounded top and bottom.
	WINGS	Straight OS to engines and dihedral on OS.
	ENGS	Mid-mounted and floats below them.
	TU	TF high and braced. TFR outrigger and appear outboard of engines.
FV	NOSE	Slin and rounded tip. Floats extend equally with nose.
	WINGS	Broad with a rect. OS and unequal ST on OS more marked on L. LE and blunt broad tips.
	FUSE	Slin and torpedo shaped.
	TF	Broad and rect. with small cutouts at elevator ends.
SV	NOSE	Glazed and rounded with a turret on top.
	FUSE	Tapering on top from GP. Bottom line broken by broad spar to support floats.
	TFR	Rounded with the rudder carried slightly over the fin.

GENERAL IMPRESSION--

NAME	CAPRONI 310	
TYPE	Bomber reconn.	
DIMENSIONS	W.S. 53 ft. Lt. 44 ft.	
CONSTRUCTION	LW 2/Eng. mono. with SFR and ret. U/O.	
ENGINES	2 radial Piaggio of 470 h.p.	
PERFORMANCE	Speed 230 m.p.h. Range 750 mi. Ceiling 23,000 ft.	
ARMAMENT	2 fixed m.g's, 1 free m.g. in top retractable turret. Bomb load 800 lbs.	
HOV	FUSE	Square in outline and large.
	WINGS	Dihedral from roots.
	ENGS	Large and mid-mounted.
	TU	TF medium high. SFR visible.
FV	NOSE	Long glazed section and well rounded. Engines project little.
	WINGS	Slight ST on the LE, rounded tips and moderate ST on the TE. Large fillets at TE roots and the wing is broad.
	FUSE	Tapering to a point aft of the TF.
	TF	Marked ST on the LE, rounded tips and a straight TE.
SV	NOSE	Long glazed lower section and well rounded.
	FUSE	Curved taper from the CF which is over the wings. Turret visible aft of wings. Bottom line tapers and broken by engines.
	SFR	Large with moderate ST on the LE, rounded tip and TE.

GENERAL IMPRESSION--

NAME Caproni 311
TYPE Recon. bomber.
DIMENSIONS W.S. 53 ft. Lt. 44 ft.
CONSTRUCTION LW 2/Eng. mono. with SFR and ret. U/C,
ENGINES 2 radial Piaggio of 650 h.p.
PERFORMANCE Speed 258 m.p.h. Range 1,240 mi. Ceiling 27,300 ft.
ARMAMENT 2 fixed m.g.'s, 1 free m.g. in top ret. turret. Bomb load 1200 lbs.
HOV FUSE Square in outline and glazed.
WINGS Dihedral from roots.
ENGS Large and slightly low-mounted.
TU TP medium high, SFR prominent.
PV NOSE Glazed tip, well rounded and short. Engines project 1/2 length.
WINGS Broad at roots with unequal ST more marked on the TE. Rounded tips and large fillets at the roots at TE.
FUSE Cigar shaped.
TP Marked ST on the LE, rounded tips and a straight TE.
SV NOSE Large and glazed with the top line curving down. CP included in outline.
FUSE Turret visible on top line near nose. Top line tapers to SFR.
Bottom line broken by the engine nacelles.
SFR Large with moderate ST on the LE, rounded tip and TE.

GENERAL IMPRESSION—Glass nosed.

NOTE—The Caproni 312 is a seaplane version of the 311 and is a bomber recon. A/C. The 312 I.S. is the same with a fairing below and is a torpedo bomber. Speeds are 243 and 236 m.p.h. respectively. Range 930 mi.

NAME MACCHI 200
TYPE Single seat fighter.
DIMENSIONS W.S. 35 ft. Lt. 27 ft.
CONSTRUCTION LW 5/Eng. mono. with SFR and ret. U/C.
ENGINE 1 radial Fiat of 840 h.p.
PERFORMANCE Speed 313 m.p.h. Range 435 mi. Ceiling 31,000 ft.
ARMAMENT 2 m.g.'s of .50 cal. or 4 of .303 cal. Small bombs in fuse.
HOV FUSE Round with a small CP on top.
WINGS Dihedral from roots. Span 40 ft. Ceiling 27,300 ft.
ARMAMENT TP central. SFR visible. In top ret. turret. Bomb load 1200 lbs.
PV NOSE Radial engine projecting little and bulky appearing.
WINGS Almost rectangular with very slight taper and rounded tips. Fillets at the TE. Slightly low-mounted.
ENGS FUSE Tapering to a point aft. of the TP.
PV TAPER Elliptical with a small bite out of the TE. project 1/2 length.
SV NOSES Bulky and appear set down on fuse slightly. In the TE. Rounded top line curved with small CP on top. Bottom line curved.
FUSE High with moderate ST on the LE, rounded tip and TE.
SFR ST on the LE, rounded tip and a straight TE.

GENERAL IMPRESSION—ST on the LE, rounded tip and a straight TE.

SV NOSE Large and glazed with the top line curving down. CP included

NAME MACCHI 202
TYPE Single seat fighter. Like near nose, top line tapers to SFR.
DIMENSIONS W.S. 35 ft. Lt. 29 ft. 6 in. engine nacelles.
CONSTRUCTION LW 5/Eng. mono. with SFR and ret. U/C. and tip and TE.
ENGINES 1 ILLCO DB 601 of 1,150 h.p.
PERFORMANCE Speed 375 m.p.h. Range 1,200 mi. Ceiling 35,000 ft. a bomber
ARMAMENT 2 m.g.'s on fusel. In the same with a fairing below and is a
HOV FUSE Oval with a small CP above and rad. below. Ceiling 330 mi.
WINGS Dihedral from roots.
ENGS TU TP mid-mounted, SFR visible.
PV NOSE Bullet like with a large pointed spinner.
WINGS Slight equal ST with fillets on both edges and rounded tips.
FUSE Tapers to a point aft. of the TP.
TP Elliptical with a small bite out of the TE.
SV NOSE Long and bullet shaped, tapering to a large pointed spinner.
FUSE Carved taper top and bottom with a small CP over TE of wings and rad. below it.
PV NOSE Slight curved taper both edges and a rounded tip. Paired into
FUSE fusel. with a small CP over TE. Turret with lead 1200 lbs.
GENERAL IMPRESSION—Streamlined and bullet like.

NAME FALCO I
 TYPE Single seat fighter.
 DIMENSIONS W.S. 37 ft. Lt. 26 ft.
 CONSTRUCTION LW 8/Eng. mono. with SFR and ret. U/C.
 ENGINES 1 radial Piaggio of 1,000 h.p.
 PERFORMANCE Speed 329 m.p.h. Range 620 mi. Ceiling 31,000 ft.
 ARMAMENT 2 m.g.'s in wings of .50 cal.
 HOV FUSE Round with a small CP on top.
 WINGS Slight dihedral from roots. Small wheel fairings visible below.
 TU TP mid-mounted, SFR visible.
 PV NOSE Radial and blunt.
 WINGS Slight ST on the LE, rounded tips and a curved TE, Broad.
 FUSE Tapers to a point aft of the TP.
 TP Marked ST on the LE, rounded tips and TE with a large bite cut.
 SV NOSE Wing nut shaped.
 FUSE Large and radial engined.
 SFR Tapering from nose with a small CP well faired in over wings.
 Very marked ST on the LE, rounded tip and slightly curved taper on the TE, Broad and elongated appearing.

GENERAL IMPRESSION—

NAME BREDA 88
 TYPE Two seat fighter bomber.
 DIMENSIONS W.S. 51 ft. Lt. 38 ft.
 CONSTRUCTION SW 2/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 radial Piaggios of 1,000 h.p.
 PERFORMANCE Speed 321 m.p.h. Range 1,120 mi. Ceiling 27,860 ft.
 ARMAMENT 2 cannon, 2 m.g.'s of .50 cal. fixed in nose. 1 free m.g. in aft CP. Bomb load 2,200 lbs.
 HOV FUSE Oval with small CP included in outline.
 WINGS Dihedral from roots.
 ENGS Large and very underlance.
 TU TP mid-mounted and not visible. TFR inrigged and inboard of engines, extending below TP.
 PV NOSE Slim and pointed. Engines large and extend 1/2 length.
 WINGS Unequal ST more marked on the TE and rounded tips. Small fillets at the TE.
 FUSE Cigar shaped and slim, tapering to a point.
 TP Elliptical with a small bite out of the TE.
 SV NOSE Pointed and projecting beyond engines.
 FUSE Cigar shaped with the wing tips breaking the top line slightly and the engine nacelles the lower slightly. Pointed at rear.
 TFR Rounded and slightly elongated with a bite out of TE over TP.

GENERAL IMPRESSION—

NAME FIAT B.R. 20
 TYPE Bomber
 DIMENSIONS W.S. 71 ft. Lt. 53 ft.
 CONSTRUCTION MW 2/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 radial Fiat of 1,030 h.p.
 PERFORMANCE Speed 268 m.p.h. Range 1,740 mi. Ceiling 29,520 ft.
 ARMAMENT 1 m.g. in nose, 1 in top turret, 1 in belly—all of .50 cal. Bomb load 2,550 lbs. It will go 1,240 mi. with this load.
 HOV FUSE Rect. tapering slightly at bottom.
 WINGS Thick with straight CS and dihedral on CS.
 ENGS Almost enclosed in wings at end of CS.
 TU TP barely visible. TFR inrigged and appear inside engines.
 PV NOSE High and braced.
 WINGS Short and blunt. Engines project nearly 1/2 length.
 FUSE Slight ST on the LE, rounded tips and marked ST on the TE.
 TP Torpedo shaped.
 SV NOSE Marked ST on the LE, rounded tips and a straight TE.
 FUSE Elant and untapered.
 TFR Box-like with a straight top line from the CP broken by turret aft of the wings. Bottom line stepped aft of wings. Fillets High and upright with a curved LE, a rounded tip and upright TE.

GENERAL IMPRESSION—shaped and blunt, tapering to a point.

TP Elliptical with a small bite out of the TE.
 SV NOSE Pointed and projecting beyond engines.
 FUSE Cigar shaped with the wing tips breaking the top line slightly and the engine nacelles the lower slightly. Pointed at rear.
 TFR Rounded and slightly elongated with a bite out of TE over TP.

GENERAL IMPRESSION—

NAME CANT Z1007
 TYPE Bomber.
 DIMENSIONS W.S. 61 ft. Lt. 60 ft.
 CONSTRUCTION LW 3/E
 ENGINES 3 radial Piaggio's of 1,000 h.p.
 PERFORMANCE Speed 280 m.p.h. Range 3,100 mi. Ceiling 31,000 ft.
 ARMAMENT 1 m.g. top aft of wings, 1 m.g. belly aft of wings of .50 cal. Bomb load

HOV FUSE Deep with rounded top and bottom and engine below centre line.
 WINGS Dihedral from roots.
 ENGS Low mounted on wings, higher on fuse.
 TU TP high and braced. SFR visible.

PV NOSE Long with radial engine at tip. Outer engines project 1/3.
 WINGS Very slight ST on the LE, rounded tips, more ST on the TE and fillets at LE roots
 FUSE Torpedo shaped, slim and long.
 TF Elliptical with a bite out of TE.

SV NOSE Engine at tip gives a blunt tipped appearance.
 FUSE Bulky centre with top line curved and a small step aft of wing for a m.g. and another on bottom line.
 SFR Low and broad with equal curved taper and a rounded tip. (a later model has a dihedral TF and TFR outriggered and round).

GENERAL IMPRESSION—

NAME SAVOIA MARCHETTI S.M. 79
 TYPE Bomber.
 DIMENSIONS W.S. 70 ft. Lt. 52 ft.
 CONSTRUCTION LW 3/Eng. mono. with SFR and ret. U/C.
 ENGINES 3 radial Alfa Romeo of 750 h.p.
 PERFORMANCE Speed 264 m.p.h. Range 1,145 mi. Ceiling 23,000 ft.
 ARMAMENT 1 cannon 23 mm. in bulge over nose fixed, 1 m.g. of .50 cal. in same bulge firing aft, 1 m.g. in belly and window m.g. Bomb load 2,640 lbs.

HOV FUSE Deep and rect. with a rounded top and a small blister below.
 WINGS Slightly dihedral from roots, tapering from thick roots.
 ENGS Low mounted on wings, higher on fuse.
 TU TP fairly high. SFR small.

PV NOSE Medium length and radial engine at tip. Outer engines project 1/2.
 WINGS Slight ST on LE, rounded tips, Moderate ST on TE and small fillets.
 FUSE Torpedo shaped and slim.
 TF Marked curved taper on LE to the TE which is straight.

SV NOSE Blunt nose with radial engine.
 FUSE Prominent bulge from CP to aft of wings and tapering from there. Bottom line broken by engine and belly blister aft of wings.
 SFR Marked curved taper on LE to the TE which is straight.

GENERAL IMPRESSION—

NAME SAVOIA MARCHETTI S.M. 82
 TYPE Bomber transport.
 DIMENSIONS W.S. 97 ft. Lt. 73 ft.
 CONSTRUCTION LW 3/Eng. mono. with SFR and ret. U/C.
 ENGINES 3 radial Alfa Romeo of 950 h.p.
 PERFORMANCE Speed 230 m.p.h. Range 2,480 mi. Ceiling 20,000 ft.
 ARMAMENT Top ret. turret, window m.g.'s. Bomb load Will carry small A/C internally.

HOV FUSE Deep and rect. tapering towards bottom slightly. Turret visible.
 WINGS Dihedral from roots.
 ENGS Almost enclosed in wings and centre engine set higher on nose.
 TU TP high and braced. SFR visible.

PV NOSE Medium length with engine in tip. Outer engines project slightly.
 WINGS Unequal ST more marked on the TE and rounded tips. Small fillets on both edges.
 FUSE Torpedo shaped.
 TF Semi-circular.

SV NOSE Blunt tipped.

NAME SAVOIA MARCETTI S.M. 85
 TYPE Dive bomber
 CONSTRUCTION MW T/Eng. mono. with SFR and ret. U/C.
 DIMENSIONS W.S. 52 ft. Lt. 41 ft.
 ENGINES 2 radial Piaggio of 1,000 h.p.
 PERFORMANCE Speed 317 m.p.h. Range Ceiling
 ARMAMENT 1 m.g. of .50 cal. under nose. Bomb load
 HOV FUSE Deep and rect. with a small CP on top.
 WINGS Dihedral from roots and slim.
 ENGS Slightly low mounted and large.
 TU TF high and braced. SFR prominent.
 PV NOSE Long and well rounded. Engines project nearly 1/3.
 WINGS Slight ST on LE, rounded tips and a straight taper more pronounced on TE. Small fillets at TE roots.
 FUSE Tapers off slim.
 TP Marked ST on the LE, rounded tips and a straight TE with a deep bite out.
 SV NOSE Tapering and rounded.
 FUSE Straight top line, small CP near nose. Bottom line very bellied.
 SFR High with moderate ST on LE, rounded tip and TE. Appears to lean backwards.

GENERAL IMPRESSION--

NAME CA FROM 135
 TYPE Bomber.
 DIMENSIONS W.S. 62 ft. Lt. 47 ft.
 CONSTRUCTION LMW T/Eng. mono. with TFR and ret. U/C.
 ENGINES 2 radial Piaggio of 1,000 h.p.
 PERFORMANCE Speed 273 m.p.h. Range 1,240 mi. Ceiling 26,240 ft.
 ARMAMENT 1 m.g. in nose, belly and top ret. turret. Bomb load 3,500 lbs.
 HOV FUSE Squarish with well rounded corners.
 WINGS Dihedral from fuse.
 ENGS Radial, large and mid-mounted.
 TU TF high. TFR inrigged and show 1/2 way between engines and fuse.
 PV NOSE Medium length and well rounded. Glazed tip. Engines project 1/2.
 WINGS Broad chord at roots with unequal ST more marked on TE and rounded tips. TE broken by engine nacelles. Small fillets at TE.
 FUSE Tapers to a point. Short.
 TP Marked ST on LE, rounded tips and a straight TE.
 SV NOSE Short and rounded.
 FUSE Top line straight from CP with a turret visible near CP. Bottom line curved and broken by wheels slightly. A m.g. position projects aft of wings and a large glazed panel behind it.
 WINGS An elongated circle in shape with a bite out of rudder.
 TFR

GENERAL IMPRESSION--

NAME CA MT 506B
 TYPE Recon. and torpedo A/C.
 DIMENSIONS W.S. 37 ft. Lt. 63 ft.
 CONSTRUCTION MW 3/Eng. mono. with SFR and fixed seaplane floats.
 ENGINES 3 radial Alfa Romeo of 770 h.p.
 PERFORMANCE Speed 236 m.p.h. Range 1,240 mi. Ceiling 24,500 ft.
 ARMAMENT Top turret and belly m.g. Bomb load 2,000 lbs.
 HOV FUSE Rect. with rounded top and bottom. Engine mid-mounted.
 WINGS Dihedral from roots.
 ENGS Mid-mounted and floats below them and braced to the fuse.
 TU TF very high and braced. SFR prominent.
 PV NOSE Short and blunt with radial engine. Floats project past nose.
 WINGS Equal slight ST with rounded tips and a small fillet at TE roots.
 FUSE Slim and torpedo shaped.
 TP Carved taper on LE, rounded tips and a straight TE having a bite out.
 SV NOSE Blunt with engine at tip.
 FUSE Top line straight with a raised section for CP and turret aft of it. Bottom line broken by a long bulge for bombs, etc. and m.g. position. Floats below and struts.
 SFR Upright with curve on both edges and top.