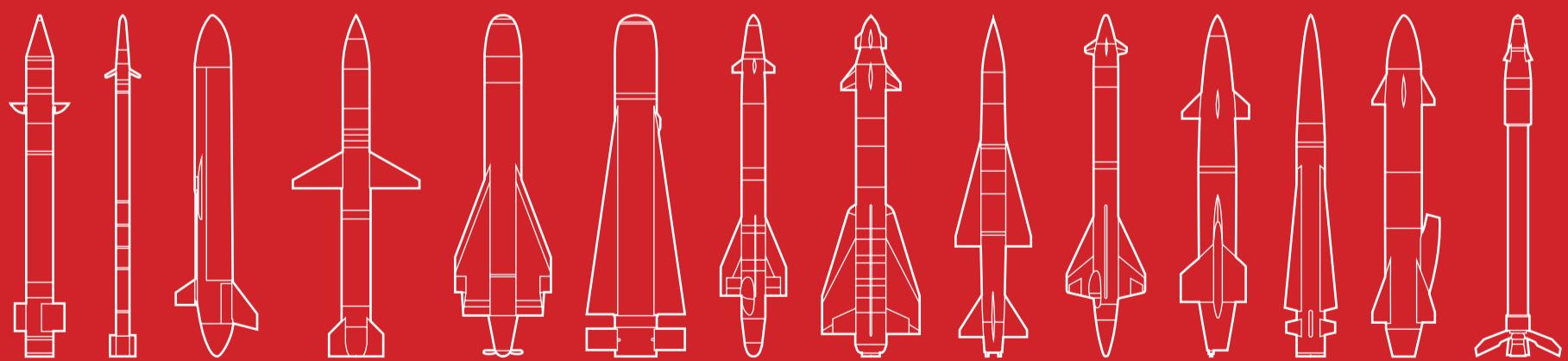
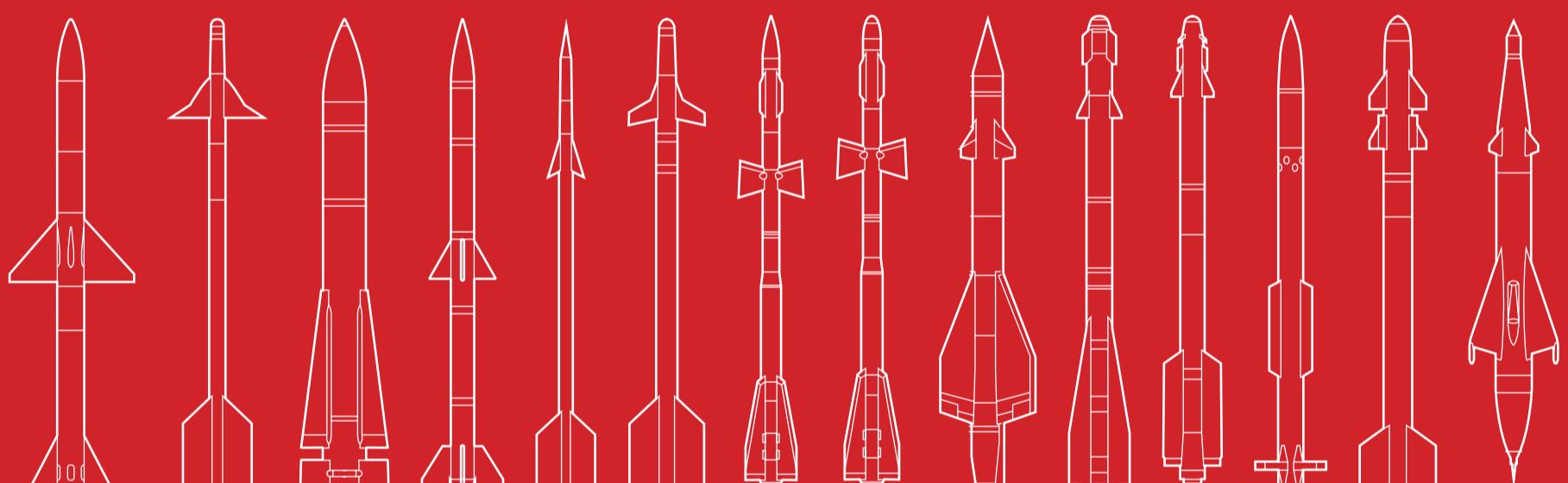
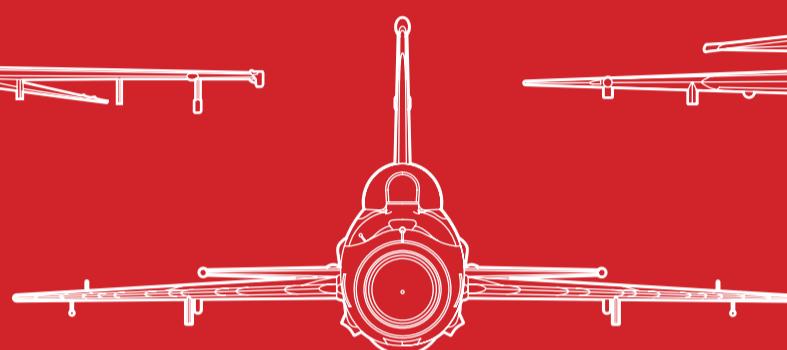
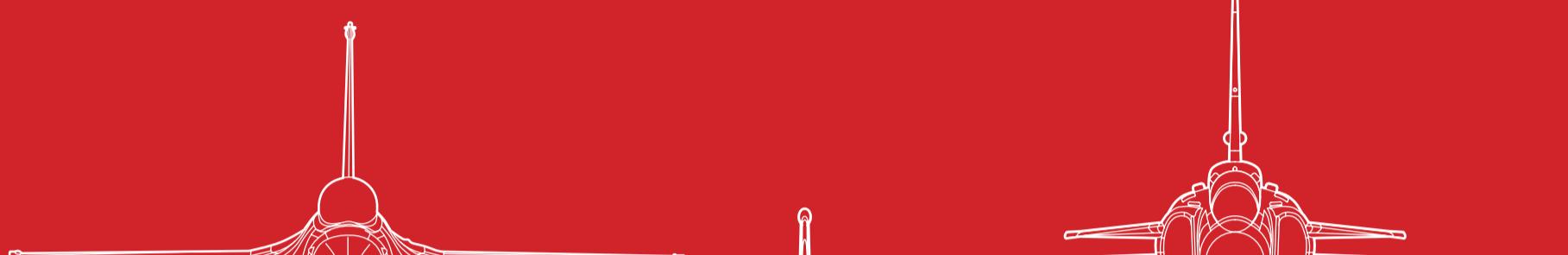


# DCS REFERENCE GUIDE



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# REFERENCES & THANKS

Information for this guide was collected from various websites and from DCS itself.

Key contributors to the information are:

- [airgoons.com](#)
- [wikipedia.org](#)
- [the Vault \(A guide to weapons in Falcom BMS\)](#).
- [Aerodrome Data and Frequencies by Dmitriy Kozyrev](#)

All weapon illustrations were created by Goldwolf. Aircraft illustrations were created by Kaboldy and Goldwolf.

Aircraft information has been taken from DCS, Aircraft Manuals, online and Chuck's guides.

Turn rates are based on max sustained turn rate on this [website](#).

Thank you to the Hoggit community and everyone who gave their feedback and helped make the guide more complete.

## DCS Files created by Goldwolf

Find below other files online, each is clickable.

- [DCS Stream Deck Profiles](#)
- [A-10C HOTAS](#)
- [Quick Reference Guide - This document](#)
- [F-16C HOTAS](#)

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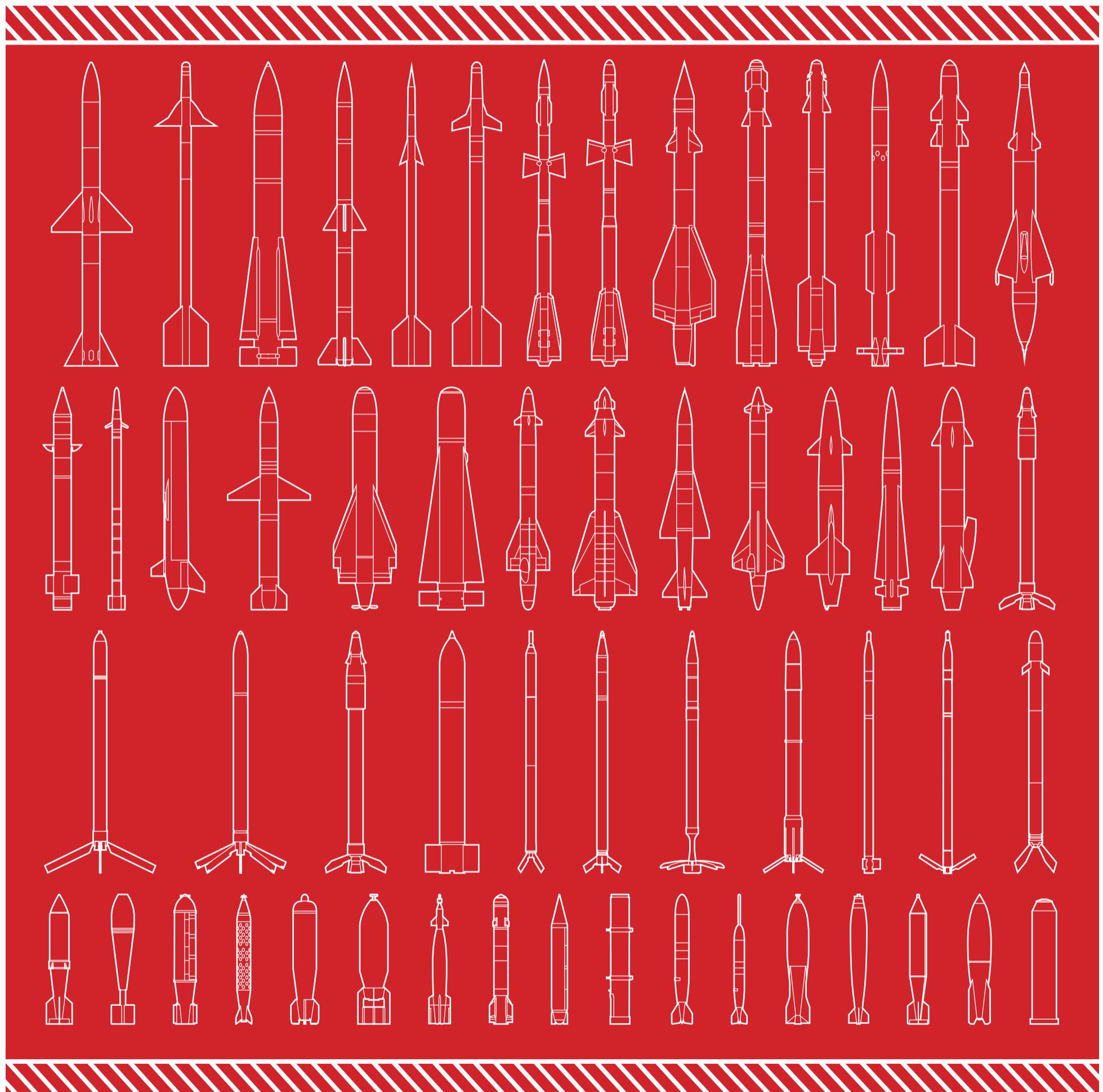
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# WEAPON SYSTEMS



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# WEAPON SYSTEMS

## AIR TO AIR WEAPONS

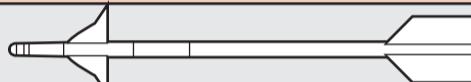
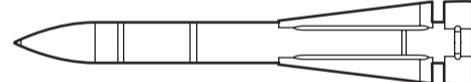
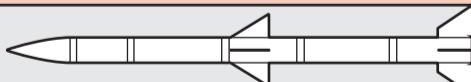
### Introduction

All air to air missiles in DCS fall under one of three categories; infrared, semi-active radar or active radar. All missile ranges are an approximation of maximum range and for initial reference only. Many factors can influence overall range and therefore ranges can vary greatly.

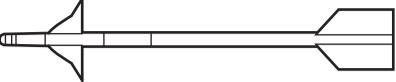
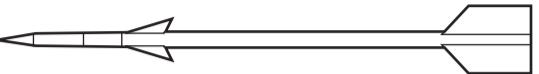
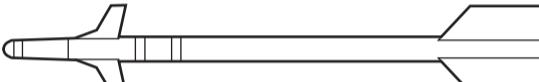
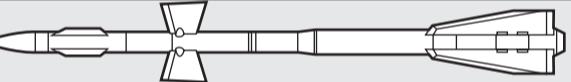
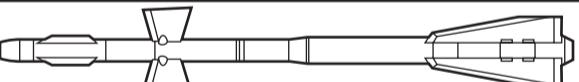
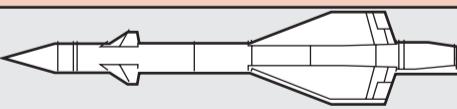
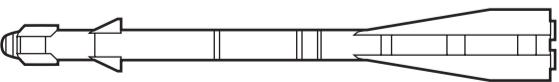
The brevity code used for each is as follows:

- Fox One:** Indicates launch of a semi-active radar-guided missile (such as the AIM-7 Sparrow).
- Fox Two:** Indicates launch of an infrared-guided missile (such as the AIM-9 Sidewinder).
- Fox Three:** Indicates launch of an active radar-guided missile (such as the AIM-120 AMRAAM).
- Maddog:** Indicates launch of a Fox Three missile without radar guidance from launch aircraft. The missile will rely on its own radar.
- Pitbull:** Indicates that the Fox Three missile is at active range and no longer requires radar input from launch aircraft.

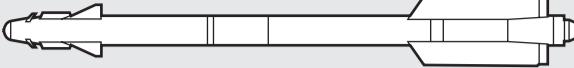
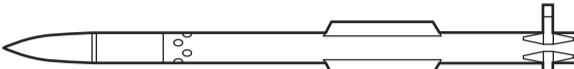
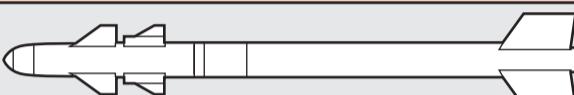
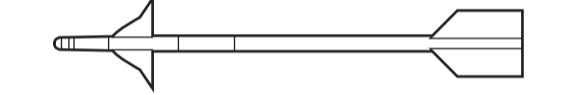
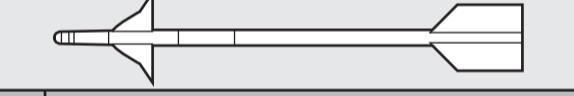
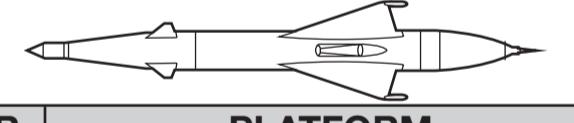
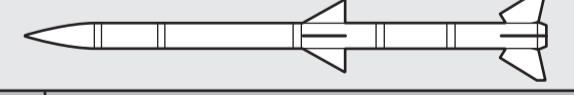
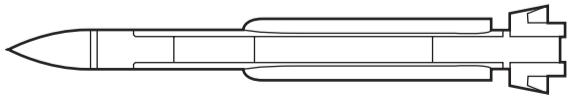
## AIR TO AIR WEAPONS

WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>9M220</b>		RADIO GUIDED			<b>ATAKA</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>O</b>	3.8 nm 7 km	ALL	1980	Mi-24P	Anti-Air variation with a proximity fuse.		
WEAPON	TYPE	IMAGE		NAME	RANGE		
<b>AIM-7</b>		SEMI-ACTIVE RADAR			<b>SPARROW</b>	MEDIUM	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>E</b>	24 nm 45 km	ALL	1970	F-15C	First model.		
<b>F</b>	38 nm 70 km		1976	F-14 A/B, F-15C, F/A-18C	Improved range.		
<b>M</b>			1982		Improved warhead.		
<b>MH</b>			1985		Improved tracking and loft.		
WEAPON	TYPE	IMAGE		NAME	RANGE		
<b>AIM-9</b>		INFRARED			<b>SIDEWINDER</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>B</b>	2.5 nm 4.6 km	REAR	1956	A-4E, F-5E, F-86F	Early model.		
<b>L</b>	10 nm 18.5 km	ALL	1977	A-10A, A-10C, A-10CII, F-14 A/B, F-15C, F-16, F/A-18C	9G launch capable, CM resistant.		
<b>M</b>			1982	A-10A, A-10C, A-10CII, AV-8B, C-101CC, F-5E, F-14 A/B, F-15C, F-16, F/A-18C	Improved slightly over L.		
<b>P</b>		REAR	1975	A-4E, A-10A, C-101CC, F-5E, F-15C	Improved over B.		
<b>P5</b>		LIMITED FRONT	1975	A-4E, A-10A, F-5E, F-15C	Improved over P.		
<b>X</b>	20 nm 37 km	ALL	2003	F-16, F/A-18C	High off boresight.		
WEAPON	TYPE	IMAGE		NAME	RANGE		
<b>AIM-54</b>		ACTIVE RADAR			<b>PHOENIX</b>	LONG	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>A MK47</b>	120 nm 222.2 km	ALL	1974	F-14 A/B	Earliest model		
<b>A MK60</b>	145 nm 268.5 km		1975		High-thrust / long burn engine		
<b>C MK47</b>	130 nm 240.7 km		1986		Smokeless engine, improved seeker		
WEAPON	TYPE	IMAGE		NAME	RANGE		
<b>AIM-120</b>		ACTIVE RADAR			<b>AMRAAM</b>	MEDIUM	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	NOTE		
<b>B</b>	40 nm 75 km	ALL	1994	F-15C, F-16, F/A-18C	Improved variant over A.		
<b>C-5</b>	60 nm 111 km		1996		Smaller control surfaces over B.		
WEAPON	TYPE	IMAGE		NAME	RANGE		
<b>MISTRAL</b>		INFRARED			<b>SHOOTDOWN</b>		
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	4 nm 7 km	ALL	1988	SA342 Mistral	Laser proximity or impact triggered.		

## AIR TO AIR WEAPONS

WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>PL-5</b>		INFRARED			<b>THUNDERBOLT</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
EII	10 nm 18 km	ALL	1994	JF-17	Based on the AA-2 Atoll.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-3R</b>		SEMI-ACTIVE RADAR			<b>AA-2 ADV-ATOLL</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	4.5 nm 8 km	ALL	1966	MiG-21	Up to 2G maneuvres.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-3S</b>		INFRARED			<b>AA-2 ATOLL</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	4 nm 7 km	REAR	1962	L-39C, MiG-19, MiG-21	Slow lock, Up to 3G maneuvres.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-13</b>		INFRARED			<b>AA-2 ADV-ATOLL</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>M</b>	8.1 nm 15 km	REAR	1974	MiG-21	Up to 7G maneuvres.		
<b>M1</b>	9.2 nm 17 km		1976		Up to 8G maneuvres.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-27</b>		SEMI-ACTIVE RADAR			<b>AA-10 ALAMO</b>	MEDIUM	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>ER</b>	35 nm 65 km	ALL	1990	J-11, MiG-29, Su-27, Su-33	Lock on after launch capability.		
<b>R</b>	23 nm 42 km		1986				
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-27</b>		INFRARED			<b>AA-10 ALAMO</b>	MEDIUM	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>ET</b>	28 nm 52 km	ALL	1990	J-11, MiG-29, Su-27, Su-33	Lock on before launch.		
<b>T</b>	18 nm 33 km		1986				
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-55</b>		SEMI-ACTIVE RADAR			<b>AA-1 ALKALI</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	2.7 nm 5 km	REAR	1957	MiG-21	Semi-active homing radar.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-60</b>		INFRARED			<b>AA-8 APHID</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	4.5 nm 8 km	REAR	1974	MiG-21	Up to 8G maneuvres.		
<b>M</b>	LIMITED ALL	1982	L-39, MiG-21, MiG-29, Su-25				

## AIR TO AIR WEAPONS

WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-73</b>		INFRARED			<b>AA-11 ARCHER</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	16 nm 30 km	ALL	1984	J-11, MiG-29, Su-25T, Su-27, Su-33	High off boresight.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R-77</b>		ACTIVE RADAR			<b>AA-12 ADDER</b>	MEDIUM	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	27 nm 50 km	ALL	1992	J-11, MiG-29	Can be used against missiles.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>R.550</b>		INFRARED			<b>MAGIC 2</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	8 nm 15 km	ALL	1986	C-101CC, M-2000C	Frontal engagement		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>RB-24</b>		INFRARED			<b>SIDEWINDER</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	2.5 nm 4.6 km	REAR	1956	AJS-37	Early model. Equivalent to the AIM-9B.		
<b>J</b>	10 nm 18.5 km	LIMITED ALL	1975		Improved over early model. Equivalent to the AIM-9P.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>RB-74</b>		INFRARED			<b>SIDEWINDER</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	10 nm 18.5 km	ALL	1977	AJS-37	9G launch capable, CM resistant. Equivalent to the AIM-9L.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>RS</b>		BEAM RIDING			<b>AA-1 ALKALI</b>	SHORT	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>2US</b>	2.7 nm 5 km	REAR	1965	MiG-21	Beam riding missile.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>SD-10</b>		ACTIVE RADAR			<b>LIGHTNING</b>	MEDIUM	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
	50 nm 100 km	ALL	2005	JF-17	Comparable to the AIM-120.		
WEAPON		TYPE	IMAGE		NAME	RANGE	
<b>SUPER 530</b>		SEMI-ACTIVE RADAR				MEDIUM	
VERSION	MAX RNG	ASPECT	YR	PLATFORM	INFO		
<b>D</b>	20 nm 37 km	ALL	1988	M-2000C	Comparable to the AIM-7.		

# WEAPON SYSTEMS

## AIR TO GROUND WEAPONS



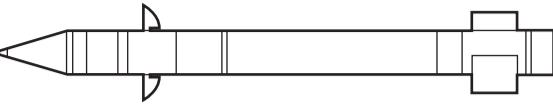
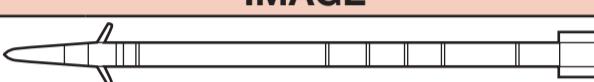
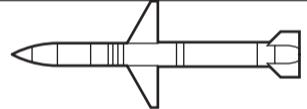
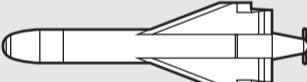
### Introduction

All missile ranges are an approximation of maximum range and for initial reference only. Many factors can influence overall range and therefore ranges can vary greatly.

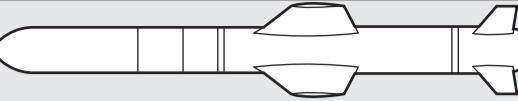
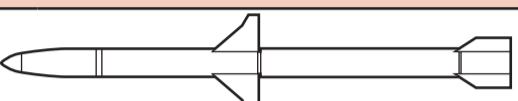
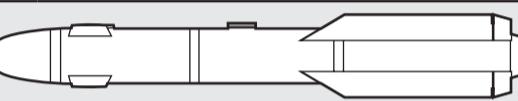
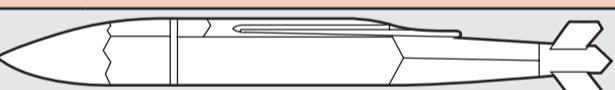
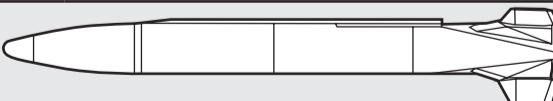
The brevity code used when launching is as follows:

- Bruiser:** Indicates launch of an air to ship missile.
- Duck:** Indicates launch of a tactical air-launched decoy (TALD).
- Magnum:** Indicates the release of an anti-radiation missile.
- Pickle:** Indicates release of a bomb or munition.
- Pig:** Indicates launch of a JSOW.
- Rifle:** Indicates launch of an air to ground missile.

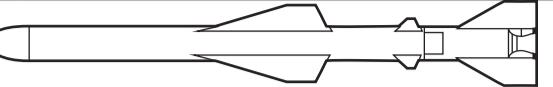
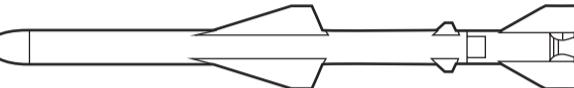
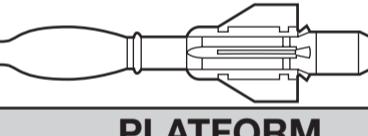
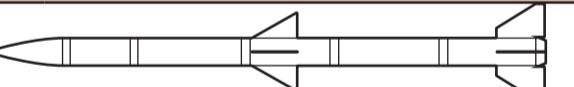
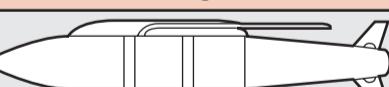
## AIR TO GROUND WEAPONS - MISSILES

WEAPON		TYPE	IMAGE		NAME		
<b>9M114</b>		RADIO GUIDED			<b>SHTURM</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
	3.8 nm 7 km	ANTI-ARMOR	1976	Mi-24P	HEAT Charge, Armor penetrator.		
WEAPON		TYPE	IMAGE		NAME		
<b>9M120</b>		RADIO GUIDED			<b>ATAKA</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
	3.2 nm 6 km	ANTI-ARMOR	1980	Mi-24P	HEAT Tandem warhead.		
F		SOFT TARGET			Thermobaric warhead.		
WEAPON		TYPE	IMAGE		NAME		
<b>9M121</b>		LASER GUIDED			<b>VIKHR</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
	6.5 nm 12 km	ANTI-ARMOR	1990	Ka-50, Su-25T	HEAT Charge, Armor penetrator. Proximity fuse can be used against air and groups.		
WEAPON		TYPE	IMAGE		NAME		
<b>ADM-141</b>		DECOY			<b>TALD</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
	68 nm 125 km	AIR DEFENCE	1990	F14 A/B	Tactical Air Launched Decoy.		
WEAPON		TYPE	IMAGE		NAME		
<b>AGM-45</b>		ANTI-RADIATION			<b>SHRIKE</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
A	2.5 nm 4.6 km	RADAR	1965	A-4E	Passive radar homing, fragmentation warhead.		
WEAPON		TYPE	IMAGE		NAME		
<b>AGM-62</b>		GLIDE BOMB			<b>WALLEYE II ER/DL</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
	30 nm 55.6 km	HARD TARGET	1972	F/A-18C	TV guided 2000 lb bomb.		
WEAPON		TYPE	IMAGE		NAME		
<b>AGM-65</b>		AIR TO SURFACE			<b>MAVERICK</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
D	8 nm 15 km	ANTI-ARMOR	1975	A-10A, A-10C, A-10CII, F-16	Infrared Seeker. Shaped charge.		
E		HARD TARGET, SHIP		AV-8B, F/A-18C	Semi-active laser. Penetrating blast fragmentation.		
F		HARD TARGET		AV-8B, F/A-18C	Infrared Seeker. Penetrating blast fragmentation.		
G	15 nm 27 km	ANTI-ARMOR	1986	A-10A, A-10C, A-10CII, F-16	Electro-Optical TV. Shaped charge.		
H	5 nm 9 km	HARD TARGET, SHIP		A10C-II, AV-8B	Semi-active laser. Penetrating blast fragmentation.		
K							
L							

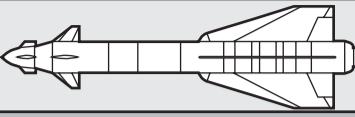
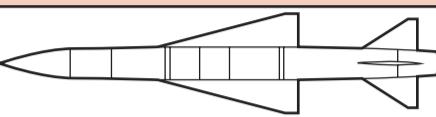
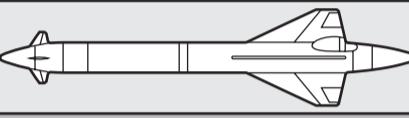
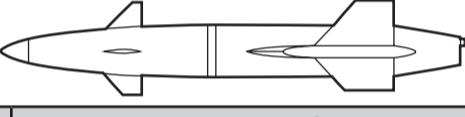
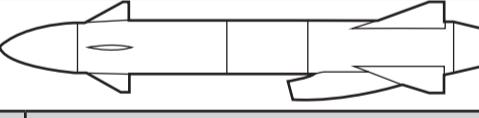
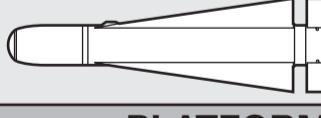
## AIR TO GROUND WEAPONS - MISSILES

WEAPON		TYPE	IMAGE		NAME		
<b>AGM-84</b>		ANTI-SHIP			<b>HARPOON</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
<b>D</b>	50 - 70 nm 92 - 130 km	SHIPS	1977	F/A-18C	Active radar homing.		
<b>E</b>		STATIONARY TARGET, SHIP	1990		SLAM. Standoff Land Attack Missile. Man-In-The-Loop (MITL) control.		
<b>H</b>	120 - 155 nm 222 - 287 km		2000		SLAM-ER. Standoff Land Attack Missile-Expanded Response. Man-In-The-Loop (MITL) control.		
WEAPON		TYPE	IMAGE		NAME		
<b>AGM-88</b>		ANTI-RADIATION			<b>HARM</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
<b>C</b>	80 nm 150 km	RADAR	1983	F-16, F/A-18C	Can detect and home in on multiple radar antennas or transmitters.		
WEAPON		TYPE	IMAGE		NAME		
<b>AGM-114</b>		LASER/RADAR GUIDED			<b>HELLFIRE</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
<b>K</b>	4.3 nm 8 km	ANTI-ARMOR	1993	AH-64D	Semi-Active Laser Homing (SALH).		
<b>L</b>			1995		Radar guided fire and forget.		
WEAPON		TYPE	IMAGE		NAME		
<b>AGM-122</b>		ANTI-RADIATION			<b>SIDEARM</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
	9 nm 16 km	RADAR	1986	AV-8B	Based on the AIM-9C Sidewinder.		
WEAPON		TYPE	IMAGE		NAME		
<b>AGM-154</b>		GLIDE BOMB			<b>JSOW</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
<b>A</b>	12 - 70 nm 22 - 130 km	SOFT TARGET	1998	F-16, F/A-18C	GPS/INS guided. 145 bomb submunitions.		
<b>C</b>		HARD TARGET			GPS/INS guided.		
WEAPON		TYPE	IMAGE		NAME		
<b>AGR-20</b>		LASER HOMING			<b>APKWS</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
<b>M151</b>	6 nm 11 km	SOFT TARGET	2008	A10C-II, AV-8B	High explosive 10 pounder.		
<b>M282</b>		LIGHT ARMOR			Multi-purpose penetrator warhead.		
WEAPON		TYPE	IMAGE		NAME		
<b>BK-90</b>		GLIDING CLUSTER BOMB			<b>MJÖLNER</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
<b>MJ1</b>	5.5 nm 10 km	SOFT TARGET	1990	AJS37	INS-guided bomb has 24 barrels and 72 submunitions.		
<b>MJ2</b>		ANTI-ARMOR			Code 921 for Long Area.		
<b>MJ1+2</b>		SOFT TARGET & ANTI-ARMOR			Code 922 for Wide Area. Code 923 for Compact Area.		

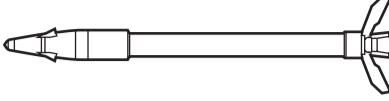
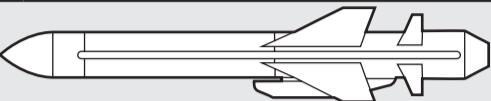
## AIR TO GROUND WEAPONS - MISSILES

WEAPON		TYPE	IMAGE		NAME		
<b>C-701</b>		AIR TO SURFACE					
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
IR	8 nm 15 km	ANTI-ARMOR	2004	JF-17	Infrared guidance. Similar to the AGM-65.		
T					Passive homing TV guidance. Similar to the AGM-65.		
WEAPON		TYPE	IMAGE		NAME		
<b>C-802</b>		ANTI-SHIP			<b>SACCADE</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
AK	97 nm 180 km	SHIP	1998	JF-17	Active radar homing.		
WEAPON		TYPE	IMAGE		NAME		
<b>CM-802</b>		AIR TO SURFACE			<b>SACCADE</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
AKG	97 nm 180 km	HARD TARGET	1998	JF-17	Infrared seeker. Man-In-The-Loop (MITL) control.		
WEAPON		TYPE	IMAGE		NAME		
<b>GB-6</b>		GLIDE BOMB					
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
	42 nm 77.8 km	SOFT TARGET	2006	JF-17	GPS guided bomblets.		
HE		HARD TARGET			GPS guided hgh explosive warhead.		
SFW		ANTI-ARMOR			GPS guided smart bomblets.		
WEAPON		TYPE	IMAGE		NAME		
<b>HOT3</b>		AIR TO SURFACE			<b>HOT</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
	2.2 nm 4 km	ANTI-ARMOR	1977	SA342 M	High subsonic, optical, remote-guided, tube launched.		
WEAPON		TYPE	IMAGE		NAME		
<b>LD</b>		ANTI-RADIATION			<b>THUNDERBOLT 12</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
10	60 nm 111 km	RADAR	2012	JF-17	20 kg warhead.		
WEAPON		TYPE	IMAGE		NAME		
<b>LS-6</b>		GLIDE BOMB			<b>THUNDER STONE</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
500	50 nm 92.6 km	HARD TARGET	2006	JF-17	GPS Precision-guided munition.		
WEAPON		TYPE	IMAGE		NAME		
<b>Kh-25</b>		AIR TO SURFACE			<b>KAREN</b>		
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO		
ML	6 nm 11 km	ANTI-ARMOR	1975	Ka-50, Su-25	Semi-active laser guidance.		
MP	10 nm 18 km	RADAR	1977	Su-25T	AS-12 Kegler. Modular anti-radiation variant.		
MPU	16 nm 30 km		1979	Su-25T	AS-12 Kegler. Updated version of the MP.		

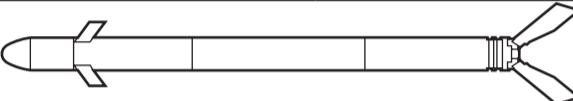
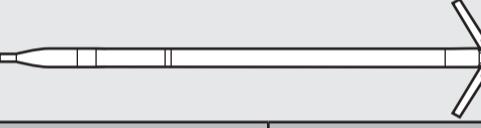
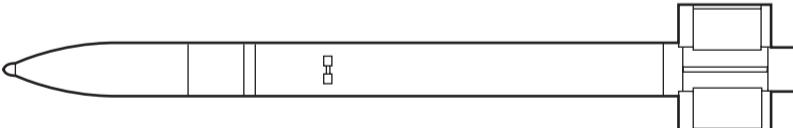
## AIR TO GROUND WEAPONS - MISSILES

WEAPON		TYPE	IMAGE		NAME
<b>Kh-29</b>		AIR TO SURFACE			<b>KEDGE</b>
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
L	5 nm 10 km	HARD TARGET, SHIP	1980	Su-25	Semi-active laser guidance. Similar to the AGM-65.
T	6 nm 12 km			Su-25T	Passive homing TV guidance. Similar to the AGM-65.
WEAPON		TYPE	IMAGE		NAME
<b>Kh-58</b>		ANTI-RADIATION			<b>KILTER</b>
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
U	130 nm 250 km	RADAR	1982	Su-25T	Improved version with longer range and lock-on-after-launch
WEAPON		TYPE	IMAGE		NAME
<b>Kh-66</b>		BEAM RIDING			<b>KERRY</b>
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
	5.5 nm 10 km	HARD TARGET	1968	MiG-21	Heavy warhead and beam riding version of the K-8.
WEAPON		TYPE	IMAGE		NAME
<b>RB-04</b>		ANTI-SHIP			<b>ROBOT 04</b>
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
E	17 nm 32 km	SHIPS	1980	AJS37	Long-range fire-and-forget air-to-surface, anti-ship missile
WEAPON		TYPE	IMAGE		NAME
<b>RB-05</b>		GUIDED AIR TO SURFACE			<b>ROBOT 05</b>
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
E	5 nm 9 km	HARD TARGETS	1972	AJS37	Tracking flare helps the pilot steer the missile towards the target.
WEAPON		TYPE	IMAGE		NAME
<b>RB-15</b>		ANTI-SHIP			<b>ROBOT 15</b>
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
F	37 nm 70 km	SHIPS	1989	AJS37	Multiple waypoint capable cruise missile.
WEAPON		TYPE	IMAGE		NAME
<b>RB-75</b>		AIR TO SURFACE			<b>ROBOT 75</b>
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
A	11.9 nm 22 km	ANTI-ARMOR	1970	AJS37	Electro-Optical TV. Equivalent to the AGM-65A. Shaped charge.
B					Electro-Optical TV. Equivalent to the AGM-65B. Magnified seeker. Shaped charge.
T		LARGE TARGET			Electro-Optical TV. Equivalent to the AGM-65A. Blast Fragmentation.

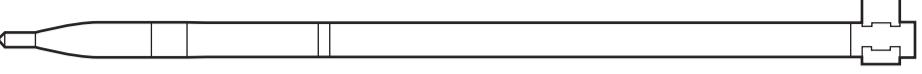
## AIR TO GROUND WEAPONS - MISSILES

WEAPON	TYPE	IMAGE		NAME	
S-25	LASER HOMING				
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
L	4 nm 7 km	HARD TARGET	1980	Su-25, Su-25T	Limited range rocket with laser guidance.
WEAPON	TYPE	IMAGE		NAME	
SEA EAGLE	ANTI-SHIP			SEA EAGLE	
VERSION	MAX RNG	TARGET	YR	PLATFORM	INFO
		SHIP	1980	C-101CC	BAE anti-ship missile.

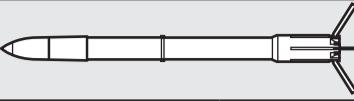
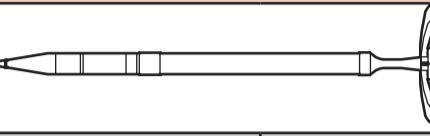
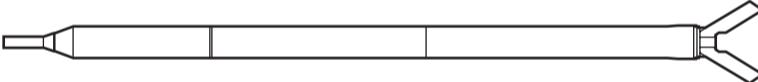
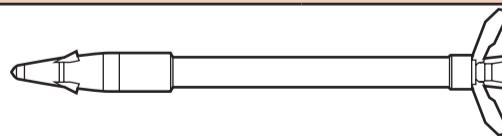
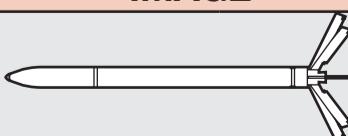
## AIR TO GROUND WEAPONS - ROCKETS

WEAPON	SIZE	IMAGE			
BRM	3.54 in 90 mm				
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO
1	HARD TARGET	LAU-68	16	JF-17	Laser Guided High Explosive.
WEAPON	SIZE	IMAGE			
FFAR	2.75 in 70 mm				
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO
M156	TARGET MARKING	LAU-3	19	A-4E, F-5E	White phosphorus.
M257		LAU-68	7		
M274	SOFT TARGET	LAU-3	19	A-4E, F-5E	Parachute illumination.
MK1				A-4E	Parachute smoke.
MK5	HARD TARGET	LAU-68	7		Blast fragmentation.
		LAU-3	19	A-4E, F-5E	High explosive Anti-Tank warhead.
		LAU-68	7		
WEAPON	SIZE	IMAGE			
HVAR	5 in 127 mm				
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO
	SOFT TARGET		2	F-86F	High explosive warhead.

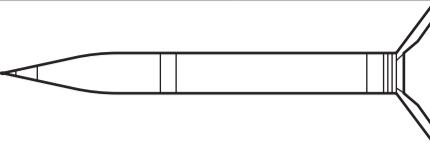
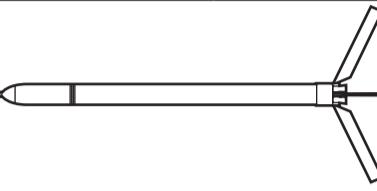
## AIR TO GROUND WEAPONS - ROCKETS

WEAPON	SIZE	IMAGE				
<b>HYDRA</b>	<b>2.75 in 70 mm</b>					
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO	
<b>M151</b>	SOFT TARGET	<b>BRU-42</b>	<b>21</b>	A-10C, A-10CII	High Explosive.	
		<b>LAU-3/61</b>	<b>19</b>	F-16, F/A-18C		
		<b>LAU-68/131</b>	<b>7</b>	A-10A, A-10C, A-10CII, AV-8B, C-101CC, F-5E, F/A-18C		
		<b>M261</b>	<b>19</b>	AH-64D, UH-1H		
		<b>XM158</b>	<b>7</b>			
<b>M156</b>	TARGET MARKING	<b>BRU-42</b>	<b>21</b>	A-10C, A-10CII	White phosphorus.	
		<b>LAU-3/61</b>	<b>19</b>	F-16		
		<b>LAU-68/131</b>	<b>7</b>	A-10A, A-10C, A-10CII, AV-8B, C-101CC, F-5E		
		<b>XM158</b>		UH-1H		
<b>M229</b>	HARD TARGET	<b>M261</b>	<b>19</b>	AH-64D	High Explosive 17 Pounder.	
<b>M257</b>	TARGET MARKING	<b>BRU-42</b>	<b>21</b>	A-10C, A-10CII	Parachute illumination.	
		<b>LAU-68/131</b>	<b>7</b>	A-10A, A-10C, A-10CII, A-4E, AV-8B, C-101CC, F-5E		
		<b>M261</b>	<b>19</b>	AH-64D		
		<b>XM158</b>	<b>7</b>	UH-1H		
<b>M274</b>	TARGET MARKING	<b>BRU-42</b>	<b>21</b>	A-10C, A-10CII	Parachute smoke.	
		<b>LAU-68/131</b>	<b>7</b>	A-10A, A-10C, A-10CII, AV-8B, C-101CC, F-5E		
		<b>M261</b>	<b>19</b>	AH-64D		
		<b>XM158</b>	<b>7</b>	UH-1H		
<b>M282</b>	HARD TARGET	<b>M261</b>	<b>19</b>	AH-64D	Multipurpose Penetrator.	
<b>MK1</b>	SOFT TARGET	<b>BRU-42</b>	<b>21</b>	A-10C, A-10CII	Unarmored targets. Blast fragmentation.	
		<b>LAU-68/131</b>	<b>7</b>	A-10A, A-10C, A-10CII, F-5E		
		<b>XM158</b>		UH-1H		
<b>MK5</b>	HARD TARGET	<b>BRU-42</b>	<b>21</b>	A-10C, A-10CII	High explosive Anti-Tank warhead.	
		<b>LAU-3/61</b>	<b>19</b>	F-16		
		<b>LAU-68/131</b>	<b>7</b>	A-10A, A-10C, A-10CII, A-4E, AV-8B, F-5E, F/A-18C, JF-17		
		<b>M261</b>	<b>19</b>	UH-1H		
		<b>XM158</b>	<b>7</b>			
<b>MK61</b>	TARGET MARKING	<b>BRU-42</b>	<b>21</b>	A-10C, A-10CII	Smoke.	
		<b>LAU-3/61</b>	<b>19</b>	F-16		
		<b>LAU-68/131</b>	<b>7</b>	A-10A, A-10C, A-10CII, F-5E		
<b>WTU-1/8</b>	PRACTICE TARGET	<b>BRU-42</b>	<b>21</b>	A-10C, A-10CII	Inert warhead for training purposes.	
		<b>LAU-3/61</b>	<b>19</b>	F-16		
		<b>LAU-68/131</b>	<b>7</b>	A-10A, A-10C, A-10CII, AV-8B, F-5E		

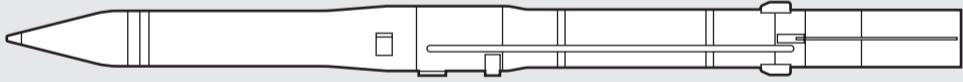
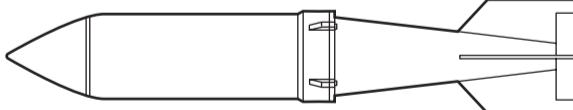
## AIR TO GROUND WEAPONS - ROCKETS

WEAPON		SIZE	IMAGE					
<b>M/70B</b>		5.3 in 135 mm						
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO			
<b>AP</b>	HARD TARGET	ARAK	6	AJS37	Anti-armor.			
<b>HE</b>	SOFT TARGET				High explosive.			
WEAPON		SIZE	IMAGE					
<b>S-5</b>		2.2 in 57 mm						
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO			
<b>KO</b>	HARD TARGET	UB-32A	32	L-39C, Mi-24P, Su-25	Lightly armored targets.			
<b>M</b>	SOFT TARGET	UB-16UM	16	Mi-24P, MiG-19P, MiG-21	Unarmored targets. Blast fragmentation.			
		UB-32UM	32					
WEAPON		SIZE	IMAGE					
<b>S-8</b>		3.2 in 80 mm						
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO			
<b>KOM</b>	HARD TARGET	B-8MI	20	J-11, MiG-29, Su-25, Su-27, Su-33	High explosive Anti-Tank warhead.			
		B-8V20A	10	KA-50, Mi-8, Mi-24P, Su-27, Su-33				
<b>OPF2</b>	SOFT TARGET	B-8MI	20	J-11, MiG-29, Su-25, Su-27, Su-33	Unarmored targets. Blast fragmentation.			
		B-8V20A	10	KA-50, Mi-8, Mi-24P, Su-27, Su-33				
<b>OM</b>	TARGET MARKING	B-8MI	20	KA-50, Mi-8, Mi-24P	Illumination.			
<b>TsM</b>	TARGET MARKING			KA-50, Mi-8, Mi-24P, Su-27, Su-33	Smoke.			
	B-8V20A	10	KA-50, Mi-8, Mi-24P, Su-27, Su-33					
WEAPON		SIZE	IMAGE					
<b>S-13</b>		4.8 in 122 mm						
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO			
<b>OF</b>	SOFT TARGET	B-13L	5	J-11, KA-50, Mi-24P, Su-25, Su-27, Su-33	Unarmored targets. Blast fragmentation.			
WEAPON		SIZE	IMAGE					
<b>S-24</b>		9.4 in 240 mm						
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO			
<b>A</b>	SOFT TARGET		1	MiG-21	Lightly armored targets.			
<b>B</b>				Mi-24P, MiG-21, MiG-29, Su-25	Reduced smoke version of A.			
WEAPON		SIZE	IMAGE					
<b>S-25</b>		13.4 in 340 mm						
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO			
<b>OFM</b>	HARD TARGET		1	J-11, Su-25, Su-27, Su-33	High explosive Anti-Tank warhead.			
WEAPON		SIZE	IMAGE					
<b>SNEB</b>		2.7 in 68 mm						
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO			
	SOFT TARGET	TYPE 155	18	M-2000C	Lightly armored targets.			

## AIR TO GROUND WEAPONS - ROCKETS

WEAPON	SIZE	IMAGE			
<b>UG</b>	3.6 in 90 mm				
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO
	HARD TARGET		1	JF-17	High explosive Anti-Tank warhead.
WEAPON	SIZE	IMAGE			
<b>ZUNI</b>	5 in 127 mm				
VERSION	TARGET	LAUNCHER	QTY	PLATFORM	INFO
<b>MK71</b>	SOFT TARGET	LAU-10	4	A-4E, AV-8B, F-14A/B, F/A-18C	High explosive warhead.

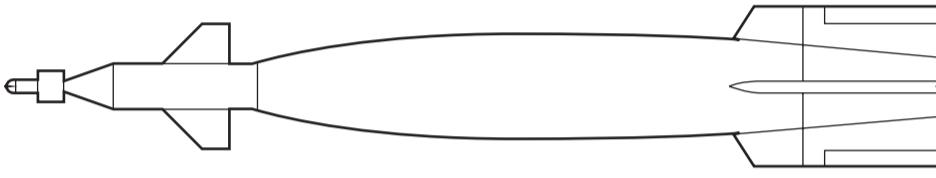
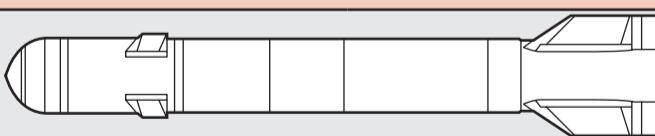
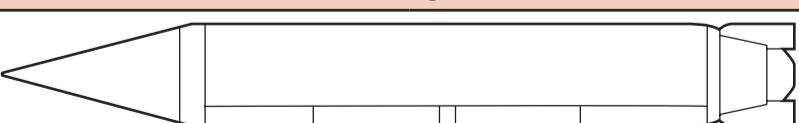
## AIR TO GROUND WEAPONS - BOMBS

WEAPON	TYPE	IMAGE			
<b>AN</b>	FREE FALL				
VERSION	TARGET	WEIGHT	PLATFORM	INFO	
<b>M30A1</b>	SOFT TARGET	100 lbs 45.4 kg	A-4E	High-explosive.	
<b>M57</b>		250 lbs 113.4 kg			
<b>M64</b>	LT STRUCTURE	500 lbs 227 kg	A-4E, F-86F		
<b>M65</b>	SOFT TARGET	1000 lbs 453.6 kg	A-4E		
<b>M66A2</b>	HARD TARGET	2000 lbs 907.2 kg			
<b>M81</b>	SOFT TARGET	260 lbs 117.9 kg			
<b>M88</b>		220 lbs 100 kg		Fragmentation bomb	
WEAPON	TYPE	IMAGE			
<b>BAP</b>	ANTI-RUNWAY				
VERSION	TARGET	WEIGHT	PLATFORM	INFO	
<b>100</b>	RUNWAY	100 lb 45.4 kg	M-2000C	Anti-runway bomb.	
WEAPON	TYPE	IMAGE			
<b>BETAB</b>	FREE FALL				
VERSION	TARGET	WEIGHT	PLATFORM	INFO	
<b>500</b>	BUNKER	1,100 lbs 477 kg	J-11, MiG-21, MiG-29, Su-25, Su-27, Su-33	Concrete piecing bomb.	
<b>500ShP</b>	RUNWAY				

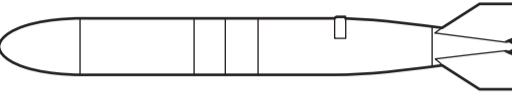
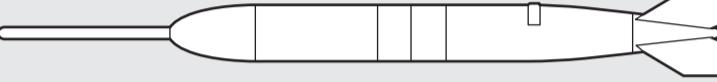
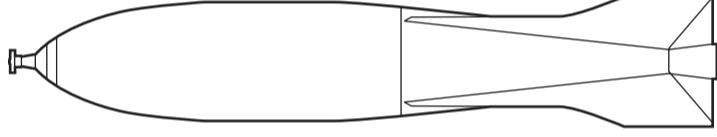
## AIR TO GROUND WEAPONS - BOMBS

WEAPON		TYPE	IMAGE		
VERSION	TARGET	WEIGHT	PLATFORM	INFO	
<b>33</b>	TRAINING TARGET	25 lbs 11.3 kg	A-10A, A-10C, A-10CII, AV-8B, C-101CC, F-5E, F-14A/B, F-16	Training smoke.	
<b>45</b>		500 lbs 226.8 kg	F-14A/B, F/A-18C	Training smoke. Mk-82.	
<b>45B</b>			A-10A, A-10C, A-10CII, F-5E	Training smoke. Mk-82 AIR.	
<b>50HD</b>			A-10C, A-10CII, F-5E	Training smoke. GBU-12.	
<b>50LD</b>			A-10A, A-10C, A-10CII, F-5E	Training smoke. Mk-82.	
<b>50LGB</b>			A-10A, A-10C, A-10CII, F-5E	Training smoke. Mk-82.	
WEAPON		TYPE	IMAGE		
<b>BIN</b>	INCENDIARY BOMB	INCENDIARY BOMB			
<b>200</b>			C-101CC	Spanish incendiary bomb.	
WEAPON		TYPE	IMAGE		
<b>BL755</b>	CLUSTER	CLUSTER			
<b>66</b>			C-101CC, MiG-21	Multiple armored targets.	
WEAPON		TYPE	IMAGE		
<b>BLG</b>	CLUSTER	CLUSTER			
<b>66</b>			C101CC, M-2000C	High-drag HEAT.	
WEAPON		TYPE	IMAGE		
<b>BR</b>	FREE FALL	FREE FALL			
<b>250</b>			C-101CC	Low-drag, high explosive.	
<b>500</b>					
WEAPON		SIZE	IMAGE		
<b>CBU</b>	CLUSTER	CLUSTER			
<b>52B</b>			F-5E	High-explosive.	
<b>87 CEM</b>	SOFT TARGET	785 lbs 356 kg			
<b>97 SFW</b>		950 lbs 431 kg			
<b>99</b>	HARD TARGET	1000 lbs 453.6 kg	AV-8B, F/A-18C	HEAT.	
<b>100</b>		490 lbs 222.3 kg	F/A-18C, JF-17		
<b>103</b>	SOFT TARGET	950 lbs 431 kg	A-10C, A-10CII, F-16	INS-guided, wind-corrected CBU-87.	
<b>105</b>	ANTI-ARMOR	1000 lbs 453.6 kg	A-10C, A-10CII, F-16	INS-guided, wind-corrected CBU-97.	

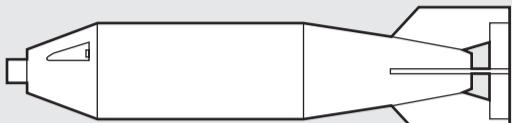
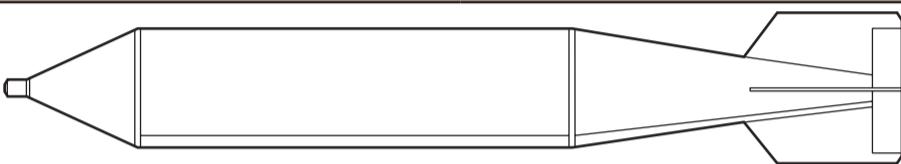
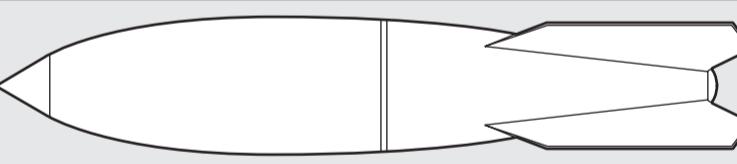
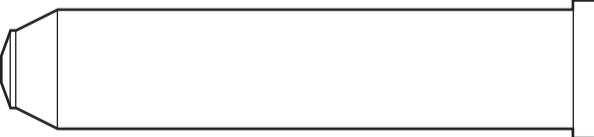
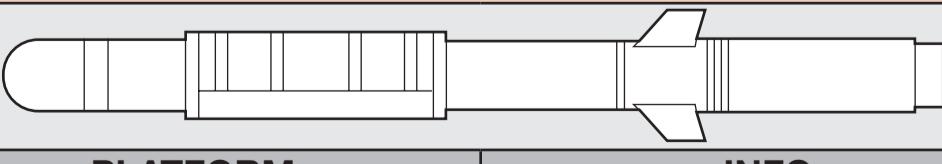
## AIR TO GROUND WEAPONS - BOMBS

WEAPON	TYPE	IMAGE		
<b>FAB</b>	FREE FALL			
VERSION	TARGET	WEIGHT	PLATFORM	
50	SOFT TARGET	110.2 lbs 50 kg	MiG-19P	
100		220.5 lbs 100 kg	J-11, L-39C, Mi-8, Mi-24P, MiG-19P, MiG-21, Su-25, Su-27	
250	LIGHT STRUCTURE	551.2 lbs 250 kg	J-11, L-39C, Ka-50, Mi-8, Mi-24P, MiG-21, MiG-29, Su-25, Su-27, Su-33	
250 M54			MiG-21	
500 M62	MEDIUM STRUCTURE	1102.3 lbs 500 kg	J-11, Ka-50, Mi-8, Mi-24P, MiG-21, MiG-29, Su-25, Su-27, Su-33	
WEAPON	TYPE	IMAGE		
<b>GBU</b>	GUIDED			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
10	HARD STRUCTURE	2,000 lbs 907.2 kg	A-10C, A-10CII, F-14A/B, F-16, F/A-18C, JF-17	Laser guided Mk-84.
12	MEDIUM STRUCTURE	500 lbs 226.8 kg	A-10C, A-10CII, AV-8B, F-5E, F-14A/B, F-16, F/A-18C, M-2000C, JF-17	Laser guided Mk-82.
16	HARD STRUCTURE	1,000 lbs 453.6 kg	AV-8B, F-14A/B, F/A-18C, JF-17, M-2000C	Laser guided Mk-83.
24		2,000 lbs 907.2 kg	F/A-18C, M-2000C	Laser guided Mk-84 with penetrator.
31(V)1/B			A-10C, A-10CII, F-16, F/A-18C	INS guided Mk-84.
31(V)2/B			F/A-18C	
31(V)3/B			A-10C, A-10CII, F-16, F/A-18C	INS guided BLU-109 hardened penetration.
31(V)4/B			F/A-18C	
32(V)2/B	MEDIUM STRUCTURE	1,000 lbs 453.6 kg	AV-8B, F/A-18C	INS guided Mk-83.
38		500 lbs 226.8 kg	A-10C, A-10CII, AV-8B, F-16, F/A-18C	INS guided Mk-82.
54			A-10C II, AV-8B	Dual guidance Mk-82.
54(V)1/B			AV-8B	
WEAPON	TYPE	IMAGE		
<b>KAB</b>	GUIDED			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
500kr	MEDIUM STRUCTURE	1146.4 lbs 520 kg	Su-25T	TV guided.
WEAPON	TYPE	IMAGE		
<b>KMGU</b>	MUNITION DISPENSER			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
A0-2.5RT	SOFT TARGET	96 x 5.5 lbs 96 x 2.5 kg	J-11, Ka-50, Mi-24P, MiG-29, Su-25, Su-27, Su-33	Fragmentation
PTAB-2.5KO	MEDIUM TARGET			HEAT anti-tank

## AIR TO GROUND WEAPONS - BOMBS

WEAPON		TYPE	IMAGE	
<b>LUU</b>		ILLUMINATION FLARE		
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>2</b>	TARGET MARKING	30 lbs 13.6 kg	A-10A, A-10C, A-4E, AV-8B, F-5E, F-14A/B	Illuminating targets.
WEAPON		TYPE	IMAGE	
<b>LysB</b>		ILLUMINATION		
VERSION	TARGET	WEIGHT	PLATFORM	INFO
	TARGET MARKING	176.4 lbs 80 kg	AJS-37	Illuminating targets.
WEAPON		TYPE	IMAGE	
<b>M/71</b>		HIGH & LOW DRAG		
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>HD</b>	LIGHT STRUCTURE, STATIONARY VEHICLES	275.6 lbs 125 kg	AJS-37	High-explosive, high-drag.
<b>LD</b>				High-explosive, Low-drag.
WEAPON		TYPE	IMAGE	
<b>M117</b>		FREE FALL		
VERSION	TARGET	WEIGHT	PLATFORM	INFO
	MEDIUM STRUCTURE	750 lbs 340 kg	F-5E, F-86F	High-explosive.
WEAPON		TYPE	IMAGE	
<b>MK</b>		HIGH & LOW DRAG		
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>20</b>	HARD TARGET	222.3 lbs 490 kg	A-10A, A-4E, AV-8B, F-14A/B, F/A-18C, JF-17	HEAT.
<b>77 MOD 0</b>	SOFT TARGET	750 lbs 340 kg	A-4E	Incendiary bomb.
<b>77 MOD 1</b>		500 lbs 226.8 kg		
<b>81</b>	SOFT TARGET	250 lbs 113.4 kg	A-4E, AV-8B, F-14A/B	High-explosive, low-drag.
<b>81 SE</b>			A-4E	Mk-81 with high-drag fin kit.
<b>81 LD</b>			A-4E, AV-8B, F-14A/B	
<b>82</b>	LIGHT STRUCTURE	500 lbs 226.8 kg	A-10A, A-10C, A-10CII, A-4E, AV-8B, C-101CC, F-5E, F-14A/B, F-16, F/A-18C, JF-17, M-2000C	High-explosive, low-drag.
<b>82 SE</b>			A-4E, AV-8B, F-5E, F-14A/B, F-16, F/A-18C, JF-17, M-2000C	Mk-82 with high-drag fin kit.
<b>82 AIR</b>			A-10A, A-10C, A-10CII, AV-8B, F-14A/B, F-16, M-2000C	Mk-82 with high-drag ballute kit.
<b>82Y</b>			F/A-18C	Mk-82 with higher-drag ballute kit.
<b>83</b>	MEDIUM STRUCTURE	1000 lbs 453.6 kg	A-4E, AV-8B, F-5E, F-14A/B, F/A-18C, JF-17	High-explosive, low-drag.
<b>84</b>	HARD STRUCTURE	2000 lbs 907.2 kg	A-10A, A-10C, A-10CII, A-4E, F-5E, F-16, F/A-18C, JF-17	

## AIR TO GROUND WEAPONS - BOMBS

WEAPON	TYPE	IMAGE		
<b>OFAB</b>	FREE FALL			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>100</b>	SOFT TARGET	220.5 lbs 100 kg	L-39	General purpose high explosive
WEAPON	TYPE	IMAGE		
<b>P-50</b>	TRAINING			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>T</b>	TRAINING TARGET	110.2 lbs 50 kg	L-39	Practice bomb.
WEAPON	TYPE	IMAGE		
<b>RBK</b>	CLUSTER			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>250 PTAB-25KO</b>	MEDIUM TARGET	551.2 lbs 250 kg	J-11, MiG-21, MiG-29, Su-25, Su-27, Su-33	High-drag.
<b>250 A0-1Sch</b>	SOFT TARGET		J-11, MiG-21, MiG-29, Su-25, Su-27, Su-33	
<b>500 PTAB-1M</b>	HEAVY TARGET	1,102.3 lbs 500 kg	J-11, MiG-21, MiG-29, Su-25, Su-27, Su-33	High-drag. HEAT Anti-Tank
<b>500 PTAB-10.5</b>			J-11, MiG-21, MiG-29, Su-25, Su-27, Su-33	
<b>500 OAB-2.5RT</b>	SOFT TARGET	J-11, MiG-21, MiG-29, Su-25, Su-27, Su-33		High-drag. Fragmentation
WEAPON	TYPE	IMAGE		
<b>RN</b>	NUCLEAR			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>24</b>	LARGE TARGET	1 kt	MiG-21	Nuclear bomb.
<b>28</b>		10 kt		
WEAPON	TYPE	IMAGE		
<b>SAB</b>	ILLUMINATION			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>100</b>	TARGET MARKING	220.5 lbs 100 kg	J-11, Mi-8, MiG-21, Su-25, Su-27, Su-33	Illuminating targets.
WEAPON	TYPE	IMAGE		
<b>TYPE-200</b>	ANTI-RUNWAY			
VERSION	TARGET	WEIGHT	PLATFORM	INFO
<b>A</b>	RUNWAY	750 lbs 340 kg	JF-17	Parachute deployed anti-runway bomb.

## AIR TO GROUND WEAPONS - PODS

POD	TYPE	IMAGE		
<b>AKAN</b>	<b>GUN</b>			
MODEL	WEIGHT	PLATFORM	INFO	
<b>30/55</b>	608 lbs 275.8 kg	AJS37	ADEN 30mm gun with 150 rounds.	
POD	TYPE	IMAGE		
<b>ALQ</b>	<b>ECM</b>			
MODEL	WEIGHT	PLATFORM	INFO	
<b>131</b>	672 lbs 304.8 kg	A-10A, A-10C	Electronic countermeasures pod.	
<b>184</b>	648 lbs 294 kg	A-10A, A-10C, F-16		
POD	TYPE	IMAGE		
<b>AN/AAQ</b>	<b>TARGETING</b>			
MODEL	WEIGHT	PLATFORM	INFO	
<b>14 LANTIRN</b>	754 lbs 342 kg	F-14A/B	IR/Laser target spotting and marking pod.	
<b>28 LITENING</b>	458 lbs 207.7 kg	A-10C, AV-8B, F-16, F/A-18C		
POD	TYPE	IMAGE		
<b>AN/ALQ</b>	<b>ECM ELINT</b>			
MODEL	WEIGHT	PLATFORM	INFO	
<b>164 DECM</b>	317 lbs 143.8 kg	AV-8B	ECM/ELINT pod.	
POD	TYPE	IMAGE		
<b>AN/ASQ</b>	<b>TARGETING</b>			
MODEL	WEIGHT	PLATFORM	INFO	
<b>228 ATFLIR</b>	336 lbs 152.4 kg	F/A-18C	ATFLIR targeting pod.	
<b>213 HTS</b>	126 lbs 57 kg	F-16	HARM targeting pod. Used to locate SAM radar emitters.	
POD	TYPE	IMAGE		
<b>AN/ASQ</b>	<b>TRAINING</b>			
MODEL	WEIGHT	PLATFORM	INFO	
<b>T50 TCTS</b>	139 lbs 63 kg	A-10A, A-10C, A-4E, AV-8B, F-5E, F-14A/B, F-15C, F-16, F-18C	Recording/simulation pod.	
POD	TYPE	IMAGE		
<b>AN</b>	<b>GUN</b>			
MODEL	WEIGHT	PLATFORM	INFO	
<b>M3</b>	481 lbs 218.2 kg	C-101CC	Browning .50 caliber machine guns.	

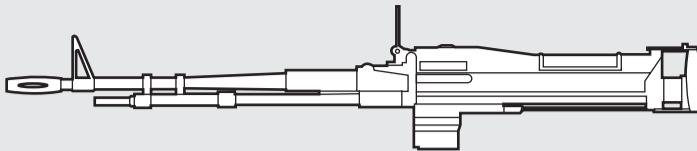
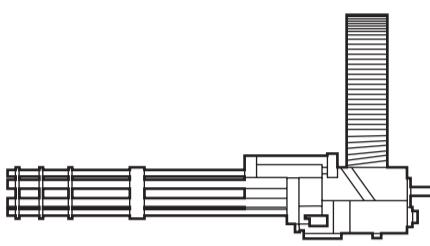
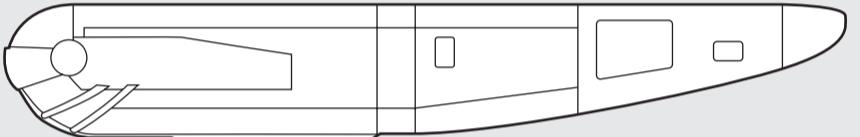
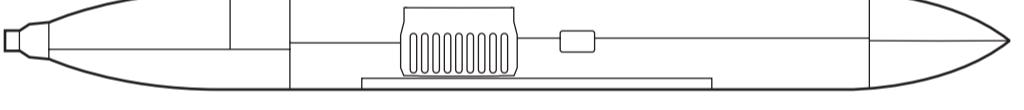
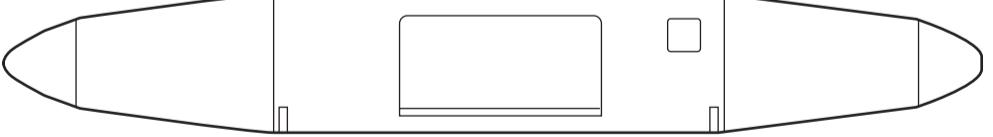
## AIR TO GROUND WEAPONS - PODS

POD	TYPE	IMAGE	
<b>ASO</b>	COUNTER MEASURES		
MODEL	WEIGHT	PLATFORM	INFO
<b>2</b>	49 lbs 22.2 kg	MiG-21	Countermeasures pod.
POD	TYPE	IMAGE	
<b>AWW</b>	DATA LINK		
MODEL	WEIGHT	PLATFORM	INFO
<b>13 DATALINK</b>	752 lbs 341.1 kg	F/A-18C	Data link pod for MitL weapons guidance.
POD	TYPE	IMAGE	
<b>CBU</b>	SUB-MUNITION DISPENSER		
MODEL	WEIGHT	PLATFORM	INFO
<b>1/A</b>	Dependant on submunition	A-4E	Submunition dispenser.
POD	TYPE	IMAGE	
<b>DATA-LINK</b>	DATA LINK		
MODEL	WEIGHT	PLATFORM	INFO
<b>2</b>	651 lbs 295.3 kg	JF-17	Data link pod for MitL weapons guidance.
POD	TYPE	IMAGE	
<b>DEFA</b>	GUN		
MODEL	WEIGHT	PLATFORM	INFO
<b>553</b>	481 lbs 218.2 kg	C-101CC	30mm caliber rounds.
POD	TYPE	IMAGE	
<b>ECLAIR</b>	COUNTER MEASURES		
MODEL	WEIGHT	PLATFORM	INFO
	44 lbs 20 kg	M-2000C	Extended countermeasures pod. Replaced drag chute.
POD	TYPE	IMAGE	
<b>GAU</b>	GUN		
MODEL	WEIGHT	PLATFORM	INFO
<b>12</b>	626 lbs 284 kg	AV-8B	25mm gun pod.

## AIR TO GROUND WEAPONS - PODS

POD	TYPE	IMAGE	
<b>GUV</b>	<b>GUN</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>AP-30</b>	604 lbs 274 kg	Mi-8, Mi-24P	30mm automatic grenade launcher
<b>YakB GSHP</b>	996 lbs 451.8 kg		2x7.62mm + 1x12.7mm machine gun pod.
POD	TYPE	IMAGE	
<b>KB F/C</b>	<b>COUNTER MEASURES</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>12</b>	653 lbs 296.2 kg	AJS37	Countermeasure dispenser used in conjunction with U22 or U22/A.
POD	TYPE	IMAGE	
<b>KG / SPJ</b>	<b>COUNTER MEASURES</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>600</b>	595 lbs 269.9 kg	JF-17	Self-protection jammer pod.
POD	TYPE	IMAGE	
<b>KMGU</b>	<b>BOMB DISPENSER</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>2</b>	Dependant on submunition	Ka-50, MiG-29, Su-25, Su-27, Su-33	Submunition dispenser pod.
POD	TYPE	IMAGE	
<b>KORD</b>	<b>GUN</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>25</b>	209 lbs 94.8 kg	Mi-8	12.7mm gun emplacement.
POD	TYPE	IMAGE	
<b>L-081</b>	<b>ELINT</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>FANTASMAGORIA</b>	662 lbs 300.3 kg	Su-25T	Electronic intelligence (ELINT) emission targeting for Kh-25MP/MPU and Kh-58U.
POD	TYPE	IMAGE	
<b>L005</b>	<b>COUNTER MEASURES</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>SORBTSIYA</b>	661 lbs 299.8 kg	J-11, Su-27, Su-33	Electronic countermeasures (ECM) pod.

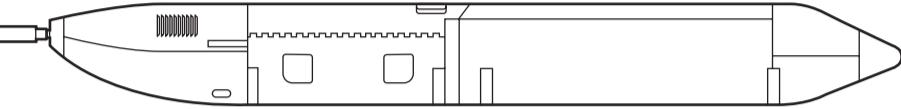
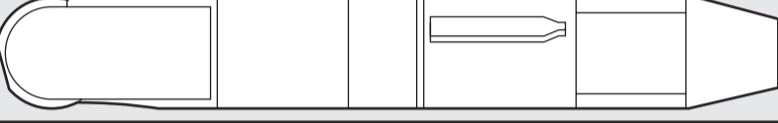
## AIR TO GROUND WEAPONS - PODS

POD	TYPE	IMAGE		
<b>M60</b>	GUN			
MODEL	WEIGHT	PLATFORM	INFO	
	311 lbs 141.1 kg	UH-1H	7.62mm M60 machine gun emplacement.	
POD	TYPE	IMAGE		
<b>M134</b>	GUN			
MODEL	WEIGHT	PLATFORM	INFO	
<b>PYLON</b>	322 lbs 146 kg	UH-1H	7.62mm Minigun emplacement.	
<b>WINDOW</b>	595 lbs 269.9 kg			
POD	TYPE	IMAGE		
<b>MERCURY</b>	TARGETING			
MODEL	WEIGHT	PLATFORM	INFO	
	1,047 lbs 474.9 kg	Su-25T	Low-light television (LLTV) EO targeting for Kh-29T, KAB-500kr.	
POD	TYPE	IMAGE		
<b>MK4</b>	GUN			
MODEL	WEIGHT	PLATFORM	INFO	
<b>HIP EG</b>	1,349 lbs 611.9 kg	A-4E	20mm cannon. 750 rounds.	
POD	TYPE	IMAGE		
<b>MPS</b>	COUNTER MEASURES			
MODEL	WEIGHT	PLATFORM	INFO	
<b>410</b>	871 lbs 398.1 kg	Su-25T	Electronic countermeasures (ECM) pod.	
POD	TYPE	IMAGE		
<b>MXU</b>	TRAVEL			
MODEL	WEIGHT	PLATFORM	INFO	
<b>648</b>	662 lbs 300.3 kg	A-10C, F-5E, F-16	Travel/cargo pod.	

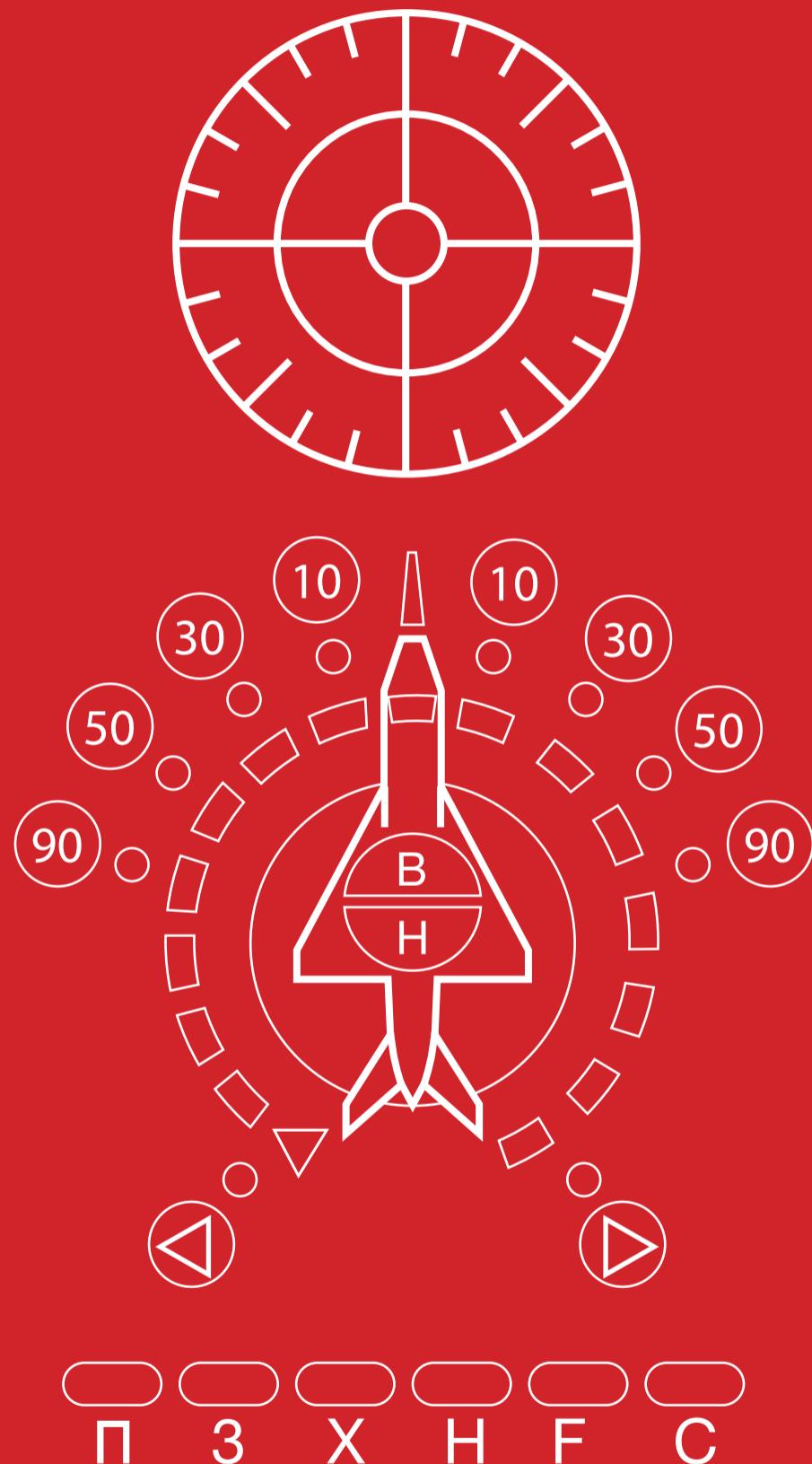
## AIR TO GROUND WEAPONS - PODS

POD	TYPE	IMAGE	
<b>PK</b>	<b>GUN</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>3</b>	<b>480 lbs 217.7 kg</b>	L-39	3 7.62mm guns.
POD	TYPE	IMAGE	
<b>PKT</b>	<b>GUN</b>		
MODEL	WEIGHT	PLATFORM	INFO
	<b>198 lbs 89.8 kg</b>	Mi-8	7.62mm gun emplacement.
POD	TYPE	IMAGE	
<b>SMOKE GENERATOR</b>	<b>SMOKE</b>		
MODEL	WEIGHT	PLATFORM	INFO
	<b>1,025 lbs 464.9 kg</b>	MiG-19P, MiG-29, Su-25, Su-27, Su-33, JF-17	Smoke pod for wing tip pylons.
POD	TYPE	IMAGE	
<b>SMOKE WINDER</b>	<b>SMOKE</b>		
MODEL	WEIGHT	PLATFORM	INFO
	<b>441 lbs 200 kg</b>	A-10A, A-10C, A-4E, AV-8B, F-5E, F-14A/B, F-15C, M-2000C	Smoke pod for wing tip pylons.
POD	TYPE	IMAGE	
<b>SPPU</b>	<b>GUN</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>22-1</b>	<b>1,179 lbs 534.8 kg</b>	Su-25	Dual traversable 23mm GSh-23.
POD	TYPE	IMAGE	
<b>SPRD</b>	<b>TAKE OFF</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>99</b>	<b>1,103 lbs 500.3 kg</b>	MiG-21	Take-off assist rockets.
POD	TYPE	IMAGE	
<b>SPS</b>	<b>COUNTER MEASURES</b>		
MODEL	WEIGHT	PLATFORM	INFO
<b>141</b>	<b>331 lbs 150.1 kg</b>	Su-25	Electronic countermeasures (ECM) pod with ASO countermeasures. ASO Pod cannot be used when equipped.
<b>141-100</b>		<b>MiG-21</b>	

## AIR TO GROUND WEAPONS - PODS

POD	TYPE	IMAGE	
<b>U22</b>	COUNTER MEASURES		
MODEL	WEIGHT	PLATFORM	INFO
<b>/A</b>	767 lbs 347.9 kg	AJS37	Electronic countermeasures (ECM) used in conjunction with KB F/C.
			ECM and ELINT gathering pod used in conjunction with KB F/C.
POD	TYPE	IMAGE	
<b>UPK</b>	GUN		
MODEL	WEIGHT	PLATFORM	INFO
<b>23-250</b>	481 lbs 218.2 kg	Ka-50, Mi-8, MiG-21	Dual GSh-23L 23mm gun pod.
POD	TYPE	IMAGE	
<b>WMD7</b>	TARGETING		
MODEL	WEIGHT	PLATFORM	INFO
<b>99</b>	651 lbs 295.3 kg	JF-17	IR/Laser target spotting and marking pod.

# DEFENSIVE SYSTEMS



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# DEFENSIVE SYSTEMS

## RADAR WARNING RECEIVER (RWR) SYMBOLISM

# BLUFOR Threat Display - A-10, F-5, F-15, F-16, F-18

The BLUFOR RWR displays radar warning threats being received by your aircraft. Your aircraft is located in the very centre of these circles. The closer the threat is to the centre of the circle the greater the threat to you. The threats position around the circle represents approximately where that threat is coming from. The display does not convey distance to threat, only the greatest threat to you. If an **F** is shown in the centre, the RWR has failed.



**PRIMARY THREAT**



**THREAT IS TRACKING/LOCKED ON YOU**



**NEWEST THREAT DETECTED**



**AIRBORNE THREAT**

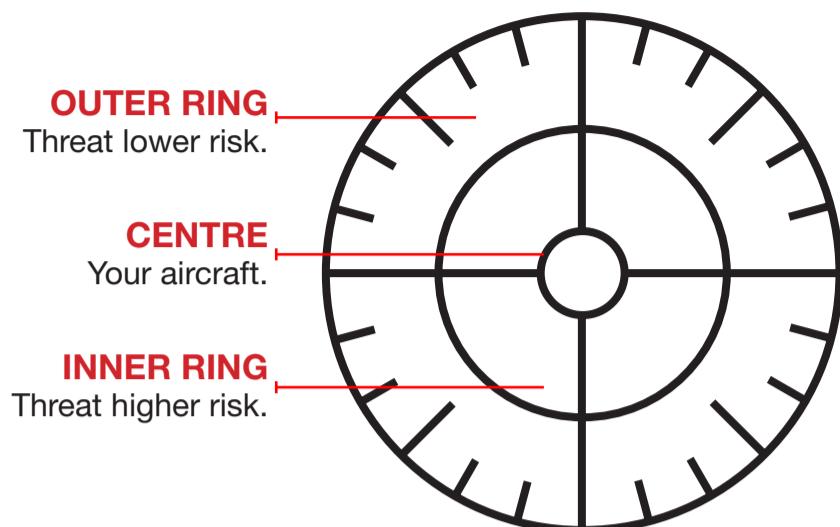
## EXAMPLES:



S-300 Clam Shell is tracking/locked on to you and is the primary threat.



SA-3 Flat Face is the newest threat detected but not the primary threat. It is not tracking you.



## AUDIBLE WARNINGS

**SINGLE BEEP** - A new ground or sea based emitter has been detected.

**DOUBLE BEEP** - A new airborne emitter has been detected.

**REPEATING BEEP** - An emitter is tracking.

**FAST REPEATING BEEP** - An emitter is guiding a missile or is a missile.

# REDFOR Threat Display - J-11, MiG-29, Su-25, Su-27, Su-33

## RANGE

95 km  
80 km  
70 km

## DIRECTION OF PRIMARY THREAT

Both angle and green circle lit up.

## SECOND THREAT DETECTED

Only green circle lit up.

## RANGE\*

55 km  
40 km  
30 km  
13 km

## THREAT LOCKED

Red circle solid, enemy locked on. Red Circle flashing, missile launch!

## PRIMARY THREAT

Both top and bottom lit up.

# SPO-15

## RANGE\*

110 km  
125 km  
140 km  
165 km

## DIRECTION OF THREAT

In degrees.

## THREAT ABOVE

Only top lit up.



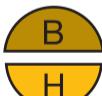
## THREAT SAME ALTITUDE

Both lit up.



## THREAT BELOW

Only bottom lit up.



## RANGE\*

180 km  
190 km  
200 km  
225 km

## THREAT BEHIND

Only vaguely indicated.

## SECONDARY THREAT

Only bottom lit up.

AIRBORNE RADAR

LONG RANGE RADAR

MEDIUM RANGE RADAR

SHORT RANGE RADAR

EARLY WARNING RADAR

AIRBORNE WARNING & CONTROL

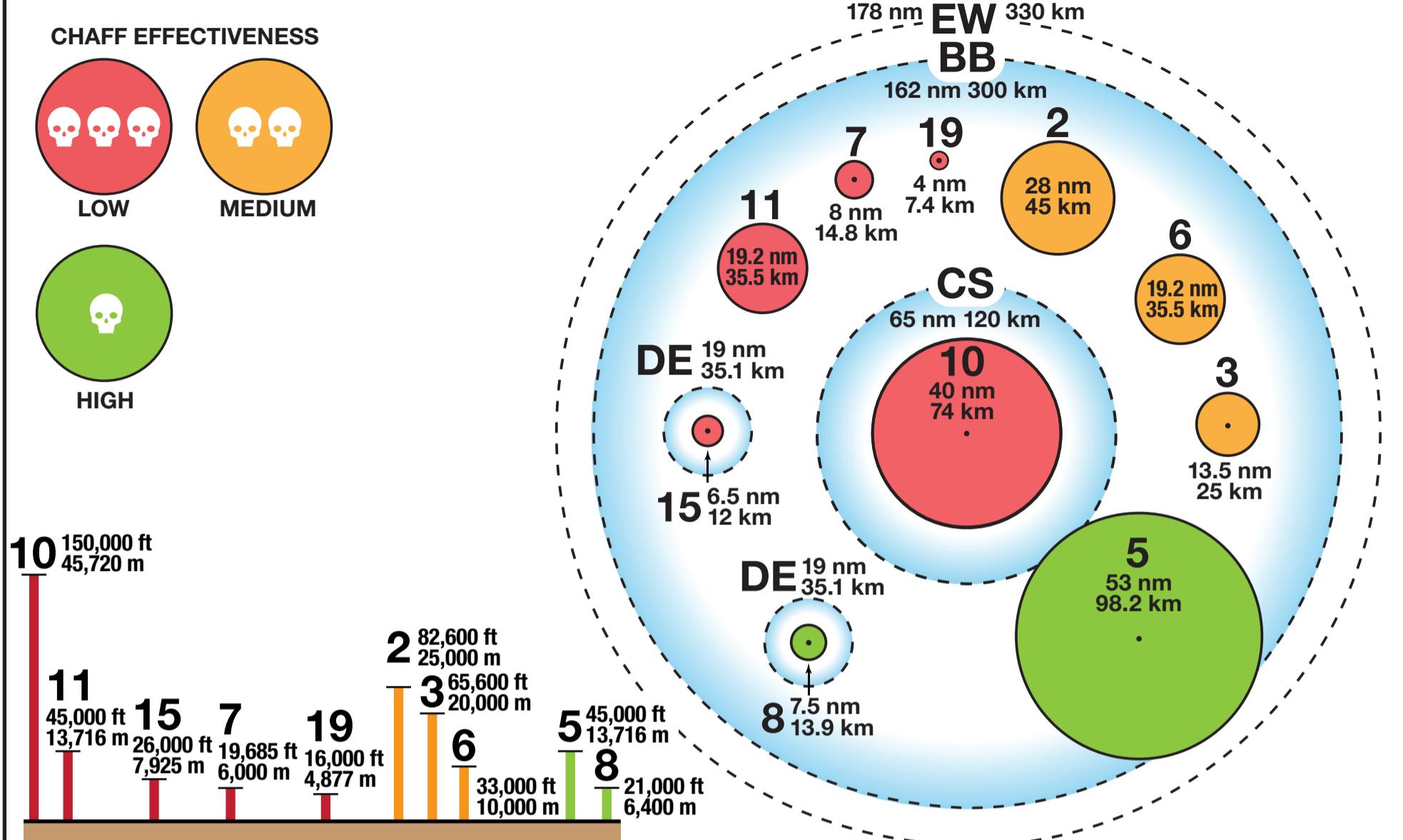
\* **RANGE**  
Shows radar intensity so the range could vary from numbers shown.

REDFOR		BLUFOR		RADAR						DEATH		DANGER		RISKY		
RWR	IMAGE	NAME	NATO	HARM ID & CLASS			MAX RNG	MAX ALT	DEFEAT		INFO					
2		Dvina	SA-2 Guideline	Track	126	2	<b>28 nm 45 km</b>		82,600 ft 25,000 m			Chaff: Medium	1 per launcher			
3				Search	129	2			65,600 ft 20,000 m			Chaff: Medium	4 per launcher			
5		Dubna	SA-5 Gammon	Track	130	1	<b>53 nm 98.2 km</b>		45,000 ft 13,716 m			Chaff: High	1 per launcher			
6				Search & Track	108	2			<b>19.2 nm 35.5 km</b>		33,000 ft 10,000 m			Chaff: Medium	3 per TEL	
7		HQ-7	Red Flag Red Banner	Track	127	1	<b>8 nm 14.8 km</b>		19,685 ft 6,000 m			Chaff: Low	4 per launcher			
8				Search	128	1			<b>7.5 nm 13.9 km</b>		21,000 ft 6,400 m			Chaff: High	6 per vehicle	
10		S-300 PS	SA-10 Grumble	Track	110	1	<b>40 nm 74 km</b>		150,000 ft 45,720 m			Chaff: None	4 per tel <b>CAN SHOOT DOWN MISSILES</b>			
11		Buk	SA-11 Gadfly	Track	115	1	<b>19.2 nm 35.5 km</b>		45,000 ft 13,716 m			Chaff: None	4 per tel			
15		Tor	SA-15 Gauntlet	Track	119	1	<b>6.5 nm 12 km</b>		26,000 ft 7,925 m			Chaff: None	7 per vehicle <b>CAN SHOOT DOWN MISSILES</b>			
19		Tunguska	SA-19 Grison	Track	120	3	<b>4 nm 7.4 km</b>		16,000 ft 4,877 m			Chaff: Low	1936 rounds, 8 missiles <b>CAN SHOOT DOWN MISSILES</b>			
A		Shilka	Gun Dish	Radar	121	3	<b>1.3 nm 2.4 km</b>		6,500 ft 1,981 m			High Speed & jink	2000 rounds			
A		Gepard		Radar	207	8	<b>2 nm 3.7 km</b>		9,500 ft 2,896 m			High Speed & jink	660 rounds			
A		Vulcan		Radar	208	8	<b>1.4 nm 2.6 km</b>		4,500 ft 1,372 m			High Speed & jink	2280 rounds			
BB		S-300 Big Bird	SA-10 Grumble	Surv	104	1	<b>162 nm 300 km</b>					Chaff: None	<b>CAN SHOOT DOWN MISSILES</b>			
CS		S-300 Clam Shell	SA-10 Grumble	Search	103	1	<b>65 nm 120 km</b>					Chaff: None	<b>CAN SHOOT DOWN MISSILES</b>			
DE		Sborka Dog Ear	SA-8/15 Gecko/Gauntlet	Search	109	3	<b>19 nm 35.1 km</b>					Chaff: High	<b>CAN SHOOT DOWN MISSILES</b>			
EW		Nebo	SA-10 Grumble									Chaff: None	<b>CAN SHOOT DOWN MISSILES</b>			
FF S		Danube	SA-3 Goa	Track	122	2	<b>13.5 nm 25 km</b>		65,600 ft 20,000 m			Chaff: Medium	4 per launcher			
HK		Hawk		Track	204	7	<b>25.6 nm 47.4 km</b>		45,000 ft 13,716 m			Chaff: Low	3 per launcher			
NS				Search	203	7						Chaff: low	4 per launcher			
PT		Patriot		CWAR	206	7						Chaff: low	4 per tel			
RO		Roland		Track	201	7	<b>3.4 nm 6.2 km</b>		19,500 ft 5,944 m			Chaff: Low	10 per vehicle			
RP/RT				Search	205	7						Chaff: Medium	4 per launcher			
				Track	125	7	<b>4.6 nm 8.2 km</b>		9,800 ft 3,000 m			Chaff: Medium	4 per launcher			
				Search	124							Chaff: Medium	4 per launcher			

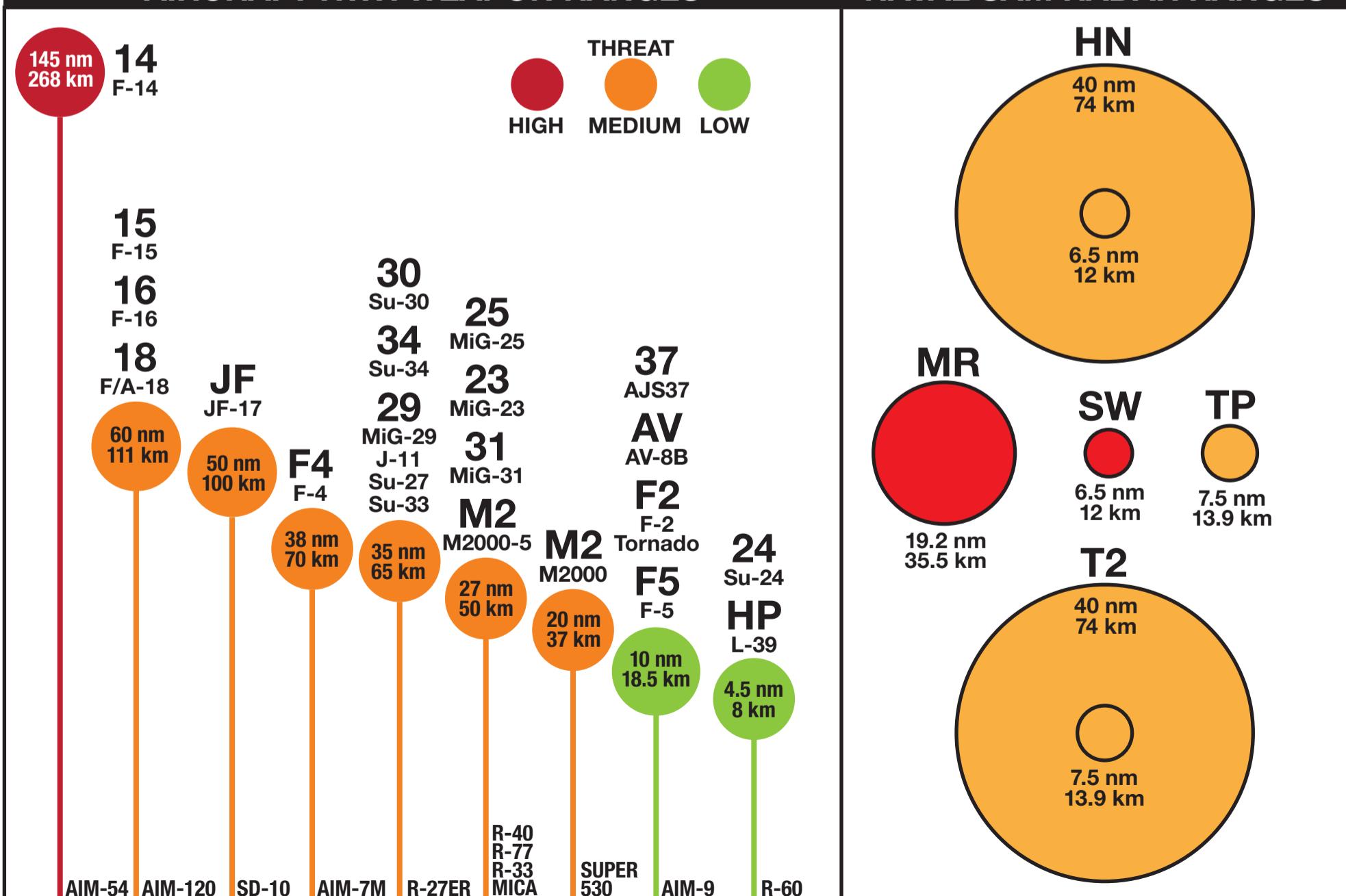
REDFOR		BLUFOR		RA			DEATH		DANGER		RISKY
RWR	IMAGE	NAME	NATO	HARM ID & CLASS			MAX RNG	MAX ALT	DEFEAT	INFO	
SD		Buk TAR	SA-11/17 Gadfly	Search	107	1	46 nm 85.2 km		<span>Skull</span> <span>Skull</span> <span>Skull</span>	Chaff: None	Target Acquisition Radar
		S-200 Tin Shield	SA-5 Gammon	Search	130	1	81nm 150 km		<span>Green</span>	Chaff: High	
<b>INFRARED</b>											
RWR	IMAGE	NAME	CODE	HARM ID & CLASS			MAX RNG	MAX ALT	DEFEAT	INFO	
9		Strela-1	SA-9 Gaskin				2.5 nm 4.6 km	12,000 ft 3,658 m	<span>Skull</span>	Flare: Medium	4 per vehicle
13		Strela-10	SA-13 Gopher	Track	118	2	2.8 nm 5.2 km	15,000 ft 4,572 m	<span>Skull</span>	Flare: Medium	4 per vehicle
		Igla	SA-18 Grouse				2.5 nm 4.6 km	12,000 ft 3,658 m	<span>Green</span>	Flare: High	3 (1 per launcher)
<b>ANTI-AIRCRAFT ARTILLERY</b>											
RWR	IMAGE	NAME	CODE	HARM ID & CLASS			MAX RNG	MAX ALT	DEFEAT	INFO	
		ZU-23 Sergey					1.3 nm 2.4 km	6,500 ft 1,981 m	<span>Up</span>	High Speed & jink	100 rounds
		ZSU-57-2 Sparka					2 nm 3.7 km	14,000 ft 4,267 m	<span>Up</span>	High Speed & jink	254 rounds
<b>NAVAL</b>											
RWR	IMAGE	NAME	NATO	HARM ID & CLASS			MAX RNG	MAX ALT	DEFEAT	INFO	
49		Oliver Hazard Perry	SM-2	Radar	401	10			<span>Skull</span> <span>Skull</span>	Chaff: Low	40x missiles
AE		Ticonderoga		Radar	315	10			<span>Skull</span> <span>Skull</span>	Chaff: Low	2x 61 Cell Mk41 VLS
		Arleigh Burke		Radar	412	10			<span>Skull</span> <span>Skull</span>	Chaff: Low	96 Cell Mk41 VLS
HN		Kirov Cruiser	SA-N-6 Grumble	Radar	313	5	40 nm 74 km	150,000 ft 45,720 m	<span>Skull</span>	Chaff: Medium	96x SA-N-6 40x SA-N-9
			SA-N-9 Gauntlet				6.5 nm 12 km	26,000 ft 7,925 m	<span>Skull</span>	Flare: Medium	
HP		Grisha Corvette	SA-N-4 Gecko	Radar	306	5	7.5 nm 13.9 km	21,000 ft 6,401 m	<span>Skull</span>	Chaff: Medium	20x SA-N-4
		Type 54A	HQ-16	Radar	411	5	19.2 nm 35.5 km	45,000 ft 13,716 m	<span>Skull</span>	Chaff: Low	1x 32 Cell VLS
		Type 052B		Radar	409	5			<span>Skull</span>	Chaff: Low	48 HQ-16
SW		Kuznetsov	SA-N-9 Gauntlet	Radar	301 320	5	6.5 nm 12 km	26,000 ft 7,925 m	<span>Skull</span>	Flare: Medium	
SS		CVN	RIM-7	Radar	402 403 404 405 406 413	10			<span>Skull</span> <span>Skull</span>	Chaff: Low	
T2		Slava Cruiser	SA-N-6 Grumble	Radar	303	5	40 nm 74 km	150,000 ft 45,720 m	<span>Skull</span>	Chaff: Medium	64x SA-N-6 40x SA-N-4
			SA-N-4 Gecko				7.5 nm 13.9 km	21,000 ft 6,401 m	<span>Skull</span>	Chaff: Medium	
TP		Krivak Frigate	SA-N-4 Gecko	Radar	309	5	7.5 nm 13.9 km	21,000 ft 6,401 m	<span>Skull</span>	Chaff: Medium	40x SA-N-4

REDFOR	BLUFOR	AIRCRAFT	HIGH	MEDIUM	LOW	NONE	
RWR	NAME	MAX WEAPON RNG	MAX ALT	THREAT	INFO		
11	F-111			66,000 FT			
13	C-130			33,000 FT			
14	F-14	145 nm   268.5 km	53,000 FT			Fighter	
15	F-15	60 nm   111 km	58,000 FT				
16	F-16		59,000 FT				
17	C-17			45,000 FT			
18	F/A-18	60 nm   111 km	69,800 FT			Fighter	
19	MiG-19	4 nm   7 km	57,000 FT				
21	MiG-21	9.2 nm   17 km	61,000 FT			Fighter	
22	Tu-22			43,600 FT			
23	MiG-23	27 nm   50 km	60,000 FT				
24	Su-24	4.5 nm   8 km	36,000 FT			Bomber	
25	MiG-25	43 nm   80 km	67,900 FT			Fighter	
29	MiG-29, J-11, Su-27, Su-33	35 nm   65 km	60,000 FT				
30	Su-30	35 nm   65 km	56,800 FT			Fighter	
31	MiG-31	162 nm   300 km	82,000 FT				
34	Su-34	35 nm   65 km	56,000 FT			Bomber	
37	AJS37	10 nm   18.5 km	65,000 FT			Ground Attack	
39	Su-39, Su-25	4.5 nm   8 km	23,000 FT				
50	A-50, KJ-2000			39,000 FT			
52	B-52			50,000 FT			
76	IL-76			43,000 FT		Transport	
78	IL-78			39,000 FT			
95	Tu-95			45,000 FT		Bomber	
AN	An-26, An-30			25,000 FT			
AV	AV-8B	10 nm   18.5 km	20,000 FT			Ground Attack	
B1	B-1			60,000 FT		Bomber	
BJ	Tu-160			52,000 FT			
E2	E-2			34,700 FT		AWACS	
E3	E-3			29,000 FT			
E6	EA-6B			37,600 FT		EW Aircraft	
F2	F-2, Tornado GR4	10 nm   18.5 km	50,000 FT			Fighter/Bomber	
F4	F-4	38 nm   70 km	60,000 FT			Fighter	
F5	F-5	10 nm   18.5 km	54,000 FT				
HP	L-39 Albatros	4.5 nm   8 km	37,729 FT			Light Fighter	
JF	JF-17	50 nm   100 km	55,500 FT			Fighter	
KC	KC-130, KC-135			50,000 FT		Tanker	
M2	M-2000, M-2000-5	20 nm   37 km 27 nm   50 km	59,000 FT				
S3	S-3			40,900 FT		Tanker	
Tu	Tu-142			39,000 FT			
U	Unknown					Bomber	

# REDFOR SAM RADAR RANGES & ALTITUDES



## AIRCRAFT RWR WEAPON RANGES



# AIRCRAFT QUICK REFERENCE

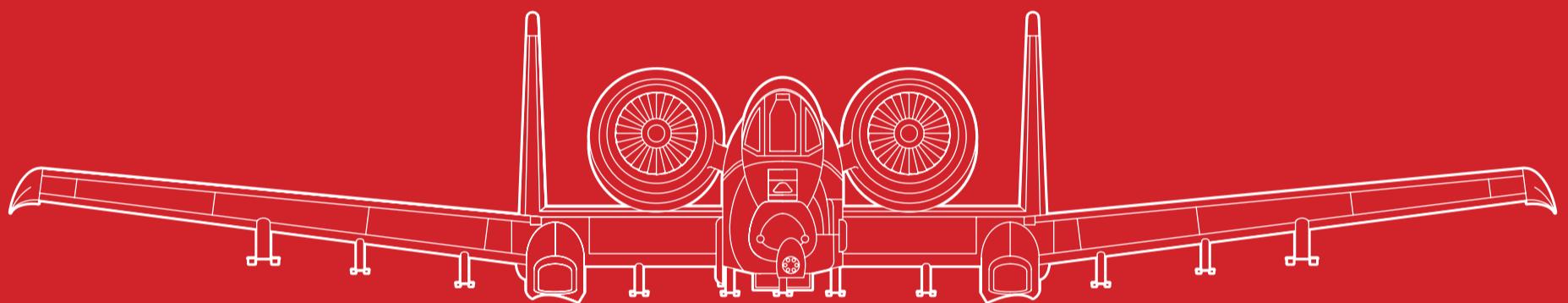


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# AIRCRAFT QUICK REFERENCE



## A-10 A / C / CII WARTHOG

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# A-10 A / C / CII WARTHOG

WEIGHT	CLEAN	25,629 LBS											WEAPONS AVAILABLE ON STATION	1 ●
	MAX	46,476 LBS												2 ○
TAKE OFF	CLEAN	120 KTS												3 ○
	LOADED*	135 KTS												
LANDING	FLAPS	275 KTS												
	GEAR	250 KTS												
	GROUND	150 KTS												
TOP SPEED		450 KTS												
MAX RANGE	COMBAT	252 NM												
	FERRY	2,240 NM												
	MAX G	+7.3G -3G												
MAX TURN RATE	CLEAN	215 KTS												
GUN	1,150 ROUNDS													
COUNTER MEASURES	C:240 F:240													
STATION		11	10	9	8	7	6	5	4	3	2	1		
AIR TO AIR MISSILES	AIM-9	L	●○										○○	●○
		M	●○										○○	●○
		P	●○										○○	●○
		P5	●○										○○	●○
AIR TO GROUND MISSILES	AGM-65	D			●○○○								○○○○	
		G			●								●	
		H			●○○○								○○○○	
		K			●								●	
		L			●								●	
ROCKETS	HYDRA	M151			●○	●○	●○						○○○○	●○
		M156			●○	●○	●○						○○○○	●○
		M257			●○	●○	●○						○○○○	●○
		M274			●○	●○	●○						○○○○	●○
		MK1			●○	●○	●○						○○○○	●○
		MK5			●○	●○	●○						○○○○	●○
		MK61			●○	●○	●○						○○○○	●○
		WTU-1/8			●○	●○	●○						○○○○	●○
BOMBS	BDU	33			○	○	○	○	○	○	○	○		
		50HD	●	●	●	●	●	●	●	●	●	●		
		50LD	●	●	●	●	●	●	●	●	●	●		
		50LGB	●	●	●	●	●	●	●	●	●	●		
	CBU	87 CEM	●	●	●	●	●	●	●	●	●	●		
		97 SFW	●	●	●	●	●	●	●	●	●	●		
		103			●	●	●	●	●	●	●	●		
		105			●	●	●	●	●	●	●	●		
	GBU	10			●	●	●	●	●	●	●	●		
		12	●	●	●○	●○	●○	●○	●○	●○	●○	●○		
		31(V)1/B			●	●	●	●	●	●	●	●		
		31(V)3/B			●	●	●	●	●	●	●	●		
		38			●	●	●	●	●	●	●	●		
		54			●	●	●	●	●	●	●	●		
	LUU	2		●	●	●								
		20	●		●	●	●	●	●	●	●	●		
		82	●		●○	●○	●○	●○	●○	●○	●○	●○		
		82 AIR	●		●○	●○	●○	●○	●○	●○	●○	●○		
		84			●	●	●	●	●	●	●	●		
PODS	ALQ	131	●											●
		184	●											●
	AN/AAQ	28 LITENING			●								●	
		AN/ASQ	T50 TCTS		●									●
	MXU	648				●	●				●	●		
SMOKE WINDER			●											●
FUEL TANK		FT600					●		●		●			

NEVER USE FUEL TANK IN COMBAT AS IT IS UNARMORED AND HAS NO SELF-SEALING CAPABILITY.

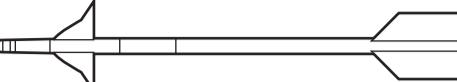
Available on all

Available on A-10C and A-10C II only

Available on A-10A only

Available on A-10C II only

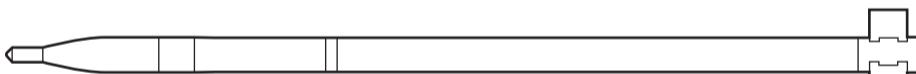
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE
<b>AIM-9</b>	INFRARED					<b>SIDEWINDER</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 11	L	10 nm 18.5 km	ALL	1-4	1977	9G launch capable, CM resistant.	
	M				1982	Improved slightly over L.	
	P		REAR		1975	Improved over B.	
	P5		LMT FRONT			Improved over P.	

## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME	
<b>AGM-65</b>	AIR TO SURFACE					<b>MAVERICK</b>	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO	
3, 9	D	8 nm 15 km	ANTI-ARMOR	1-6	1975	Infrared Seeker. Shaped charge.	
	G	15 nm 27 km	HARD TARGET	1-2		Infrared Seeker. Penetrating blast fragmentation.	
	H	5 nm 9 km	ANTI-ARMOR	1-6		Electro-Optical TV. Shaped charge.	
	K		HARD TARGET, SHIP	1-2	1986	Semi-active laser. Penetrating blast fragmentation.	
	L		HARD TARGET, SHIP				
WEAPON	TYPE	IMAGE				NAME	
<b>AGR-20</b>	LASER HOMING					<b>APKWS</b>	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO	
2, 3, 4, 8, 9, 10	M151	6 nm 11 km	SOFT TARGET	7, 14, 21, 28, 35, 42, 63, 84	2008	High explosive 10 pounder	
	M282		HARD TARGET			Multipurpose penetrator warhead.	

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE				
<b>HYDRA</b>	2.75 in 70 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 4, 8, 9, 10	M151	SOFT TARGET	LAU-68/131	7, 14, 21, 28, 35, 42	High Explosive.	
			BRU-42	7, 14, 21, 28, 35, 42, 63, 84, 105, 126		
	M156	TARGET MARKING	LAU-68/131	7, 14, 21, 28, 35, 42	White phosphorus.	
			BRU-42	7, 14, 21, 28, 35, 42, 63, 84, 105, 126		
	M257		LAU-68/131	7, 14, 21, 28, 35, 42	Parachute illumination.	
			BRU-42	7, 14, 21, 28, 35, 42, 63, 84, 105, 126		
	M274		LAU-68/131	7, 14, 21, 28, 35, 42	Parachute smoke.	
			BRU-42	7, 14, 21, 28, 35, 42, 63, 84, 105, 126		
	MK1	SOFT TARGET	LAU-68/131	7, 14, 21, 28, 35, 42	Unarmored targets. Blast fragmentation.	
			BRU-42	7, 14, 21, 28, 35, 42, 63, 84, 105, 126		
	MK5	HARD TARGET	LAU-68/131	7, 14, 21, 28, 35, 42	High explosive Anti-Tank warhead.	
			BRU-42	7, 14, 21, 28, 35, 42, 63, 84, 105, 126		
	MK61	TARGET MARKING	LAU-68/131	7, 14, 21, 28, 35, 42	Smoke.	
			BRU-42	7, 14, 21, 28, 35, 42, 63, 84, 105, 126		
	WTU-1/8	PRACTICE TARGET	LAU-68/131	7, 14, 21, 28, 35, 42	Inert warhead for training purposes.	
			BRU-42	7, 14, 21, 28, 35, 42, 63, 84, 105, 126		

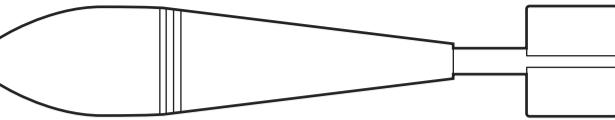
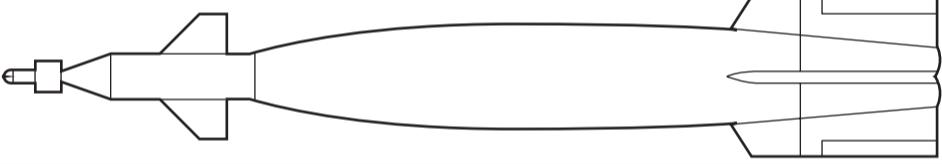
 Available on all

 Available on A-10C and A-10C II only

 Available on A-10A only

 Available on A-10C II only

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE						
<b>BDU</b>	TRAINING							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
3, 4, 5, 6, 7, 8, 9	33	TRAINING TARGET	25 lbs 11.3 kg	3, 6, 9, 12, 15, 18, 21	Training smoke.			
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	50HD		500 lbs 226.8 kg	1-11	Training smoke. Mk-82 AIR.			
	50LD				Training smoke. Mk-82.			
	50LGB				Training smoke. GBU-12.			
WEAPON	TYPE	IMAGE						
<b>CBU</b>	CLUSTER							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	87 CEM	SOFT TARGET	950 lbs 431 kg	1-11	High-explosive, high-drag.			
	97 SFW	HARD TARGET	1000 lbs 453.6 kg		High-drag.			
3, 4, 5, 7, 8, 9	103	SOFT TARGET	950 lbs 431 kg	1-6	INS-guided, wind-corrected CBU-87.			
	105	HARD TARGET	1000 lbs 453.6 kg		INS-guided, wind-corrected CBU-97.			
WEAPON	TYPE	IMAGE						
<b>GBU</b>	GUIDED							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
3, 4, 5, 6, 7, 8, 9	10	HARD STRUCTURE	2,000 lbs 907.2 kg	1-7	Laser guided Mk-84.			
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	12	MEDIUM STRUCTURE	500 lbs 226.8 kg	1-23	Laser guided Mk-82.			
3, 4, 5, 7, 8, 9	31(V)1/B	HARD STRUCTURE	2,000 lbs 907.2 kg	1-6	INS guided Mk-84.			
	31(V)3/B				INS guided BLU-109 hardened penetration.			
	38	MEDIUM STRUCTURE	500 lbs 226.8 kg		INS guided Mk-82.			
	54				Dual guidance Mk-82.			
WEAPON	TYPE	IMAGE						
<b>LUU</b>	ILLUMINATION FLARE							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
2, 3, 9, 10	2	TARGET MARKING	30 lbs 13.6 kg	2	4	Illuminating targets.		

 Available on all

 Available on A-10C and A-10C II only

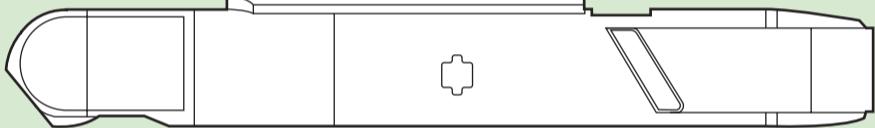
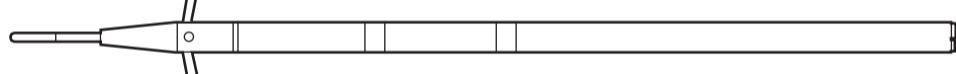
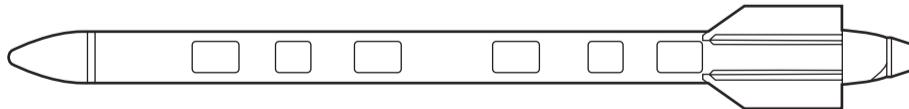
 Available on A-10A only

 Available on A-10C II only

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
1, 3, 4, 5, 6, 7, 8, 9, 11	20	HARD TARGET	222.3 lbs 490 kg	1-9	High-drag HEAT.
	82	LIGHT STRUCTURE	500 lbs 226.8 kg	1-17	High-explosive, low-drag.
	82 AIR				Mk-82 with high-drag ballute kit.
3, 4, 5, 6, 7, 8, 9	84	HARD STRUCTURE	2000 lbs 907.2 kg	1-7	High-explosive, low-drag.

## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
STATION	VERSION	WEIGHT	INFO			
1, 11	131	672 lbs 304.8 kg	Electronic countermeasures pod.			
	184	474 lbs 215 kg				
POD	TYPE	IMAGE				
AN/AAQ	TARGETING					
STATION	VERSION	WEIGHT	INFO			
3, 10	28 LITENING	458 lbs 207.7 kg	IR/Laser target spotting and marking pod.			
POD	TYPE	IMAGE				
AN/ASQ	TRAINING					
STATION	VERSION	WEIGHT	INFO			
1, 11	T50 TCTS	139 lbs 63 kg	Recording/simulation pod.			
POD	TYPE	IMAGE				
MXU	TRAVEL					
STATION	VERSION	WEIGHT	INFO			
3, 4, 8, 9	648	662 lbs 300.3 kg	Travel/cargo pod.			
POD	TYPE	IMAGE				
SMOKEWINDER	SMOKE					
STATION	VERSION	WEIGHT	INFO			
1, 11		441 lbs 200 kg	Smoke pod for wing tip pylons.			

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
FT600	4, 6, 8	242 lbs 109.7 kg	

 Available on all

 Available on A-10C and A-10C II only

 Available on A-10A only

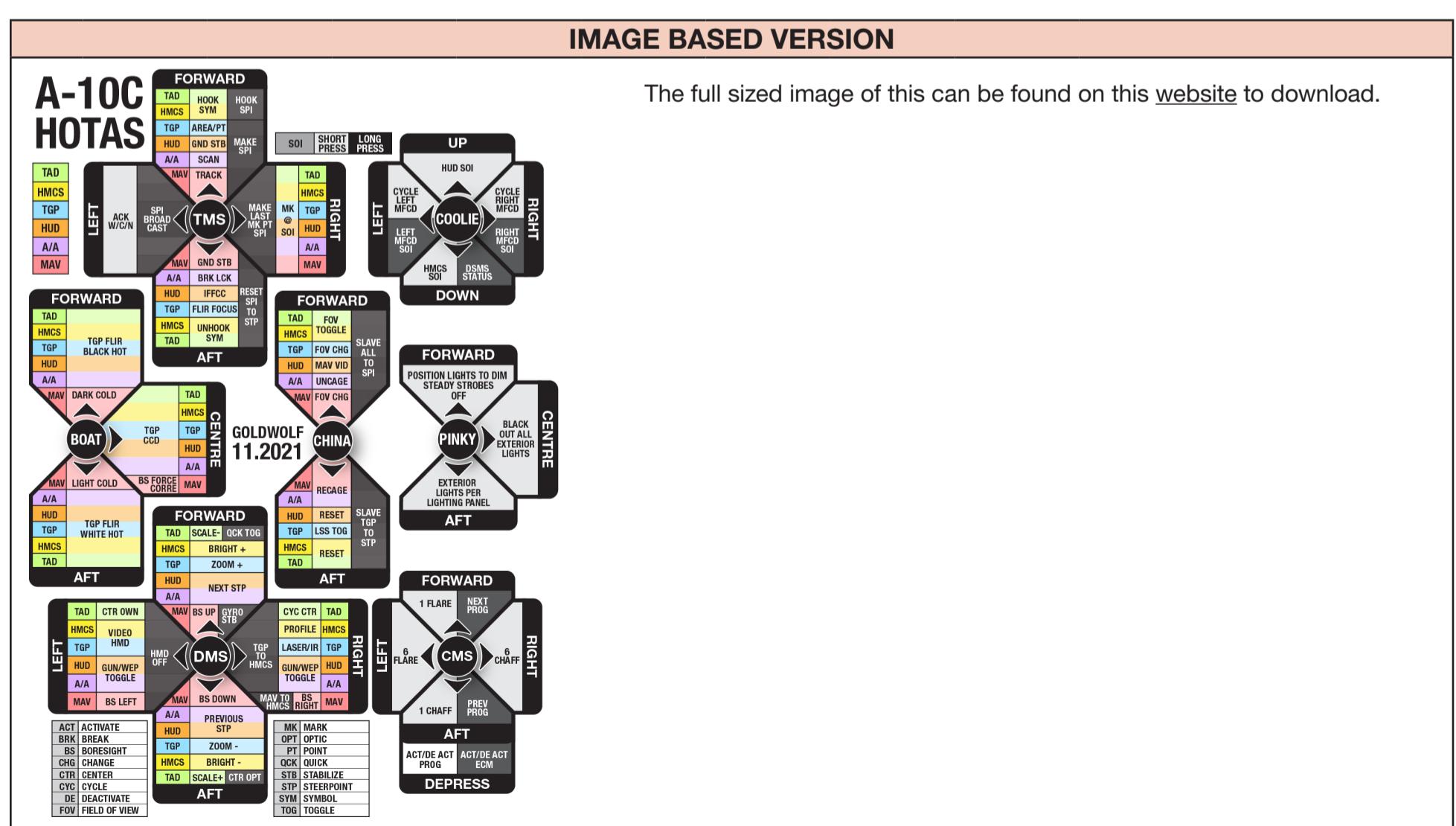
 Available on A-10C II only

# HOTAS

SOI	TMS								DMS									
	FORWARD		AFT		LEFT		RIGHT		FORWARD		AFT		LEFT		RIGHT			
	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT	LONG		
TAD	HOOK SYMB	HOOK SPI	UN HOOK SYMB	RESET SPI TO STEER POINT	ACK W/C/N	SPI BROAD CAST	MAKE LAST MARK POINT SPI	MARK AT SOI	SCALE -	QUICK TOG	SCALE +	CENTRE OPT	CENTRE OWN	HMD OFF	CYCLE CENTRE	TGP TO HMCS		
HMCS									BRIGHTNESS -	BRIGHTNESS +					PROF			
TGP	AREA / POINT	MAKE SPI	FLIR FOCUS		IFFCC	BROAD CAST			ZOOM +	ZOOM -			VIDEO HMD		LASER / IR			
HUD	GND STAB								NEXT STEER POINT	PREVIOUS STEER POINT			GUN TOGGLE		GUN TOGGLE			
A/A	SCAN		BREAK LOCK						UP	GYRO STAB			DOWN	LEFT	RIGHT	MAV TO HMCS		
MAV	TRACK		GND STAB															

SOI	BOAT			CHINA				COOLIE							
	FOR	AFT	CENTRE	FORWARD		AFT		UP	DOWN		LEFT		RIGHT		
	SHORT	SHORT	SHORT	SHORT	LONG	SHORT	LONG	SHORT	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT
TAD								RESET							
HMCS								LSS TOG							
TGP	TGP FLIR BLACK HOT	TGP FLIR WHITE HOT	TGP CCD	FOV TOG	SLAVE ALL TO SPI	SLAVE TGP TO SPI	HUD SOI	HMCS SOI	DSMS STATUS	CYCLE LEFT MFCD	LEFT MFCD SOI	CYCLE RIGHT MFCD	RIGHT MFCD SOI	RIGHT MFCD	RIGHT MFCD SOI
HUD				FOV CHG											
A/A				MAV VID											
MAV	DARK COLD	LIGHT COLD	BR FOR CORRE	UN CAGE											

SOI	CMS								PINKY				
	FORWARD		AFT		LEFT		RIGHT		DEPRESS		FORWARD	AFT	CENTRE
	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT	LONG			
ALL	1 FLARE	NEXT PROG	1 CHAFF	PREV PROG	6 FLARES	6 CHAFF	ACT / DEACT PROGRAM	ACT / DEACT PROGRAM	LIGHTS TO DIM	EXT LIGHTS PER PANEL			BLACK OUT ALL
SOI	MIC				SPEED BRAKE				NOSE WHEEL STEERING				
	FORWARD	AFT	UP	DOWN	FORWARD	AFT	CENTRE		GROUND	ENGAGE / DISENGAGE NWS			
	TRANSMIT FRT RADIO	TRANSMIT AFT RADIO	NO TRANSMIT	UHF	RETRACT BRAKE	EXTEND BRAKE	HOLD BRAKE	AIR TO AIR REFUELING	AIR	LASER/IR POINTER FIRE			
ALL										DISCONNECT / RESET			



# AIRCRAFT QUICK REFERENCE

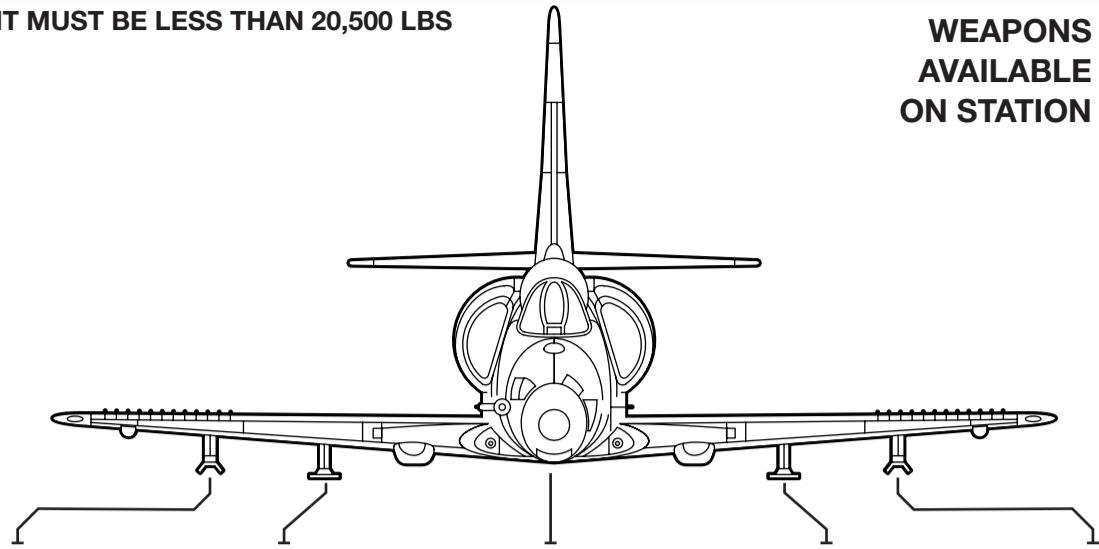


**A-4E  
SKYHAWK**

CREATED BY GOLDWOLF  
04/26/22  
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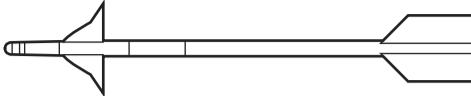
# A-4E SKYHAWK

WEIGHT	CLEAN	11,589 LBS	* WEIGHT MUST BE LESS THAN 20,500 LBS					WEAPONS AVAILABLE ON STATION	
	MAX	24,500 LBS							
TAKE OFF	CLEAN	120 KTS							
	LOADED	133 KTS							
LANDING	FLAPS	225 KTS							
	GEAR	225 KTS							
GROUND									
TOP SPEED									
MAX ALTITUDE									
MAX G									
GUN	200 ROUNDS								
COUNTER MEASURES	CHAFF	30							
	FLARE	30							
STATION		5	4	3	2	1			
AIR TO AIR MISSILES	AIM-9	B		●			●		
		P		●			●		
		P5		●			●		
AIR TO GROUND MISSILES	AGM-45	A	●	●			●	●	
ROCKETS	FFAR	M156	●	●●○	●●○○	●●○○○	●●○○○	●●○○○○	
		MK1	●	●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
		MK5	●	●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
	HYDRA	M257	●						
		MK5				●			
BOMBS	AN	MK71	●	●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
		M30A1	●	●	●	●	●	●	
		M57	●	●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
		M64	●	●	●	●	●	●	
		M65		●	●	●	●	●	
		M66A2				●			
		M81	●	●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
	MK	M88	●	●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
		M117		●	●	●	●	●	
		20		●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
PODS	MK	M77MOD0		●	●	●	●		
		M77MOD1	●	●	●●○	●●○○	●●○○○	●●○○○○	
		81	●	●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
	CBU	81 SE	●	●●○	●●○○	●●○○○	●●○○○○	●●○○○○○	
		82	●	●●○	●●○○	●●○○○○	●●○○○○○	●●○○○○○○	
		82 SE	●	●●○	●●○○	●●○○○○	●●○○○○○○	●●○○○○○○○	
	HIPEG	83		●	●	●●○○○	●●○○○○○	●●○○○○○○○	
		84		●	●	●●○○○○	●●○○○○○○○	●●○○○○○○○○○	
		CBU 1/A		●	●	●	●		
FUEL TANK	REFUEL	MK4 HIPEG		●	●	●	●		
		SMOKEWINDER	●		●	●		●	
		150 GAL		●	●	●	●		
300 GAL			●	●	●	●	●		
400 GAL				●	●	●			
REFUEL				●	●	●			

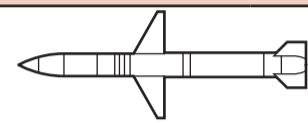


- 1 ●
- 2 ○
- 3 ○
- 4 ○
- 5 ○
- 6 ○

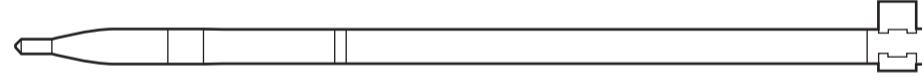
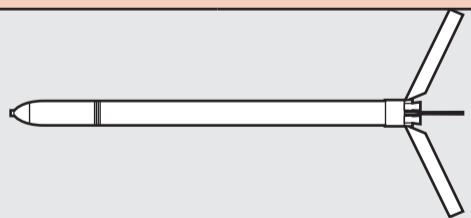
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE
<b>AIM-9</b>	INFRARED					<b>SIDEWINDER</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
<b>2, 4</b>	B	2.5 nm 4.6 km	REAR	1-2	1956	Early model.	
	P	10 nm 18.5 km	REAR		1975	Improved over B.	
	P5		LIMITED FRONT		1975	Improved over P.	

## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME
<b>AGM-45</b>	ANTI-RADIATION					<b>SHRIKE</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
<b>1, 2, 4, 5</b>	A	2.5 nm 4.6 km	RADAR	1-4	1965	Passive radar homing, fragmentation warhead.

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE				
<b>FFAR</b>	2.75 in 70 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
<b>1, 2, 3, 4, 5</b>	M156	TARGET MARKING	LAU-3/LAU-68	7, 14, 19, 21,	White phosphorus.	
	MK1	SOFT TARGET		28, 35, 38,	Blast fragmentation.	
	MK5	HARD TARGET		57, 76	High explosive Anti-Tank warhead.	
WEAPON	SIZE	IMAGE				
<b>HYDRA</b>	2.75 in 70 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
<b>1, 5</b>	M257	TARGET MARKING	LAU-68/131	7, 14	Parachute illumination.	
<b>3</b>	MK5	HARD TARGET		21	High explosive Anti-Tank warhead.	
WEAPON	SIZE	IMAGE				
<b>ZUNI</b>	5 in 127 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
<b>1, 2, 3, 4, 5</b>	MK71	SOFT TARGET	LAU-10	4, 8, 12, 16, 20, 24, 28	High explosive warhead.	

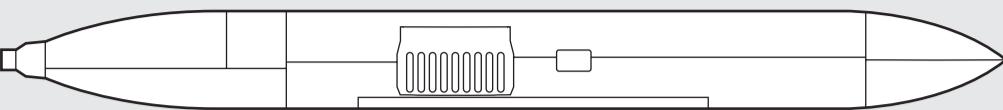
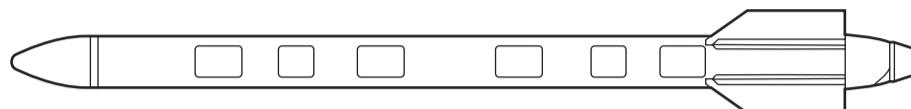
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
<b>AN</b>	<b>FREE FALL</b>					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
<b>1, 2, 3, 4, 5</b>	<b>M30A1</b>	<b>SOFT TARGET</b>	100 lbs 45.4 kg	<b>1-5</b>	High-explosive.	
	<b>M57</b>		250 lbs 113.4 kg	<b>1-5, 10, 12, 13, 16, 18</b>		
	<b>M64</b>	<b>LT STRUCTURE</b>	500 lbs 227 kg	<b>1-5</b>		
<b>2, 3, 4</b>	<b>M65</b>	<b>SOFT TARGET</b>	1000 lbs 453.6 kg	<b>1-3</b>		
<b>1, 2, 3, 4, 5</b>	<b>M66A2</b>	<b>HARD TARGET</b>	2000 lbs 907.2 kg	<b>1</b>	Fragmentation bomb	
	<b>M81</b>	<b>SOFT TARGET</b>	260 lbs 117.9 kg	<b>1-5, 10, 12, 13, 16, 18</b>		
	<b>M88</b>		220 lbs 100 kg			
WEAPON	TYPE	IMAGE				
<b>M117</b>	<b>FREE FALL</b>					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
<b>2, 3, 4</b>		<b>MEDIUM STRUCTURE</b>	750 lbs 340 kg	<b>1-3</b>	High-explosive.	
WEAPON	TYPE	IMAGE				
<b>MK</b>	<b>HIGH &amp; LOW DRAG</b>					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
<b>2, 3, 4</b>	<b>20</b>	<b>HARD TARGET</b>	222.3 lbs 490 kg	<b>1-7</b>	High-drag HEAT.	
<b>2, 3, 4</b>	<b>MK77 MODO</b>	<b>SOFT TARGET</b>	750 lbs 340 kg	<b>1-3</b>	Incendiary bomb.	
<b>1, 2, 3, 4, 5</b>	<b>MK77 MOD1</b>		500 lbs 226.8 kg	<b>1-6</b>		
	<b>81</b>		250 lbs 113.4 kg	<b>1-5, 10, 12, 13, 16, 18</b>	High-explosive, low-drag.	
	<b>81 SE</b>				Mk-81 with high-drag fin kit.	
	<b>82</b>	<b>LIGHT STRUCTURE</b>	500 lbs 226.8 kg	<b>1-10, 12</b>	High-explosive, low-drag.	
	<b>82 SE</b>				Mk-82 with high-drag fin kit.	
<b>2, 3, 4</b>	<b>83</b>	<b>MEDIUM STRUCTURE</b>	1000 lbs 453.6 kg	<b>1-7</b>	High-explosive, low-drag.	
	<b>84</b>	<b>LARGE STRUCTURE</b>	2000 lbs	<b>1-3</b>	High-explosive, low-drag.	

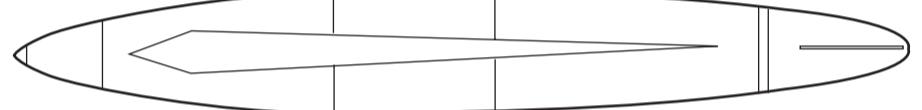
## AIR TO GROUND - PODS

POD	TYPE	IMAGE		
<b>CBU</b>	<b>SUB-MUNITION DISPENSER</b>			
STATION	VERSION	WEIGHT	INFO	
<b>2, 4</b>	<b>1/A</b>	Dependant on submunition	Submunition dispenser. 18	

## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
<b>MK4</b>	<b>GUN</b>		
STATION	VERSION	WEIGHT	INFO
<b>1, 3, 5</b>	<b>HIPEG</b>	<b>1,349 lbs 611.9 kg</b>	20mm cannon. 750 rounds.
POD	TYPE	IMAGE	
<b>SMOKEWINDER</b>	<b>SMOKE</b>		
STATION	VERSION	WEIGHT	INFO
<b>1, 3, 5</b>		<b>441 lbs 200 kg</b>	Smoke pod for wing tip pylons.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>150 GAL</b>	<b>2, 3, 4</b>	<b>137 lbs 62.1 kg</b>	
<b>300 GAL</b>		<b>183 lbs 83 kg</b>	
<b>400 GAL</b>	<b>3</b>	<b>240 lbs 108.9 kg</b>	
<b>REFUEL</b>		<b>719 lbs 326.1 kg</b>	

# AIRCRAFT QUICK REFERENCE



**AJS37  
VIGGEN**

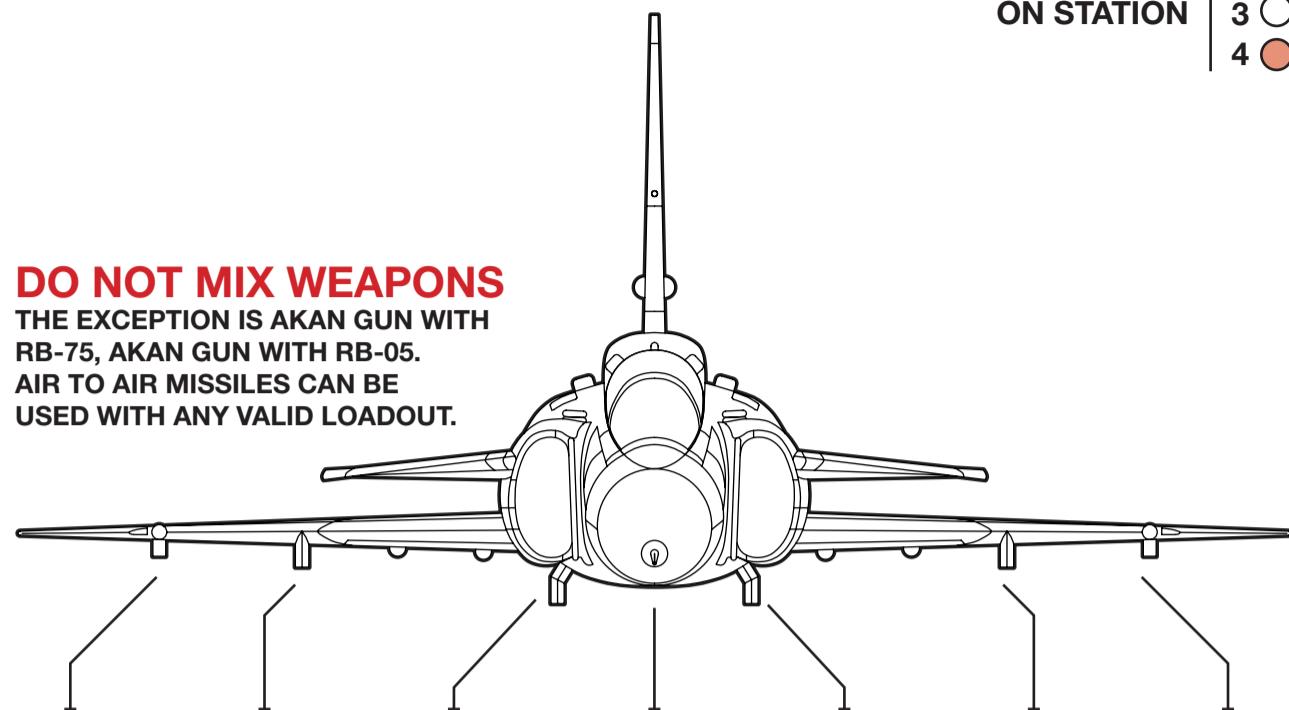
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# AJS37 VIGGEN

WEIGHT	CLEAN	33,565 lbs	* AIR TO AIR LOADOUT AND DROP TANK. ** MUST HAVE AKAN GUN POD EQUIPPED. *** MUST HAVE KB F/C EQUIPPED.					WEAPONS AVAILABLE ON STATION
	MAX	44,092 lbs						1 ● 2 ○ 3 ○ 4 ○
TAKE OFF	CLEAN	200 KPH						
	FULL LOAD	310 KPH						
LANDING	GEAR	550 KPH						
	FLAPS	AUTO						
	GROUND	+250 KPH						
TOP SPEED	MACH 2 OR 1,350 KPH							
	MAX ALTITUDE	65,000 FT						
MAX RANGE	INTERNAL	1,700 KM						
	EXTERNAL	2,300 KM						
	MAX G	7G						
MAXIMUM TURN RATE	CLEAN	337 KTS						
RADAR	MAX RNG	120 KM						
GUN	150 ROUNDS**							
COUNTER MEASURES	CHAFF	220***						
	FLARES	44***						
STATION	7	6	5	4	3	2	1	
AIR TO AIR MISSILES	RB-24	● ●	● ●	● ●		● ● ●	● ●	● ●
	J	● ●	● ●	● ●		● ● ●	● ●	● ●
	RB-74		● ●	● ●		● ● ●	● ●	● ●
AIR TO GROUND MISSILES	MJ1		● ●	● ●		● ● ●	● ●	● ●
	BK-90	MJ2	● ●	● ●		● ● ●	● ●	● ●
		MJ1+2	● ●	● ●		● ● ●	● ●	● ●
	RB-04	E	● ●					
	RB-05			● ●		● ●		
	RB-15	F	● ●				● ●	
		A	● ●				● ●	
	RB-75	B	● ●				● ●	
		T	● ●				● ●	
ROCKETS	M/70B	AP	● ●	● ●		● ● ●	● ●	● ●
		HE	● ●	● ●		● ● ●	● ●	● ●
BOMBS	LysB		● ●	● ●		● ● ●	● ●	● ●
	M/71	HD	● ●	● ●		● ● ●	● ●	● ●
		LD	● ●	● ●		● ● ●	● ●	● ●
PODS	AKAN	30/55	● ●					● ●
	KB F/C	12	● ●					● ●
	U/22	A	● ●	● ●				
FUEL TANK					● ●			

## DO NOT MIX WEAPONS

THE EXCEPTION IS AKAN GUN WITH RB-75, AKAN GUN WITH RB-05.  
AIR TO AIR MISSILES CAN BE USED WITH ANY VALID LOADOUT.



AIR TO AIR WEAPONS							
WEAPON	TYPE	IMAGE			NAME	RANGE	
<b>RB-24</b>	INFRARED				<b>SIDEWINDER</b>	SHORT	
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 2, 3, 5, 6, 7	J	2.5 nm 4.6 knm	REAR	1-6	1956	Early model. Equivalent to the AIM-9B.	
		10 nm 18.5 km	LIMITED ALL		1975	Improved over early model. Equivalent to the AIM-9P.	
WEAPON	TYPE	IMAGE			NAME	RANGE	
<b>RB-74</b>	INFRARED				<b>SIDEWINDER</b>	SHORT	
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
2, 3, 5, 6	B	10 nm 18.5 km	ALL	1-4	1977	9G launch capable, CM resistant.	

## AIR TO AIR GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME		
<b>BK-90</b>	GLIDING CLUSTER BOMB					<b>MJÖLNER</b>		
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO		
2, 3, 5, 6	<b>MJ1</b>	5.5 nm 10 km	SOFT TARGET	1-4	1990	INS-guided bomb has 24 barrels and 72 submunitions.		
	<b>MJ2</b>		ANTI-ARMOR			Code 921000 for Long Area. Code 922000 for Wide Area. Code 923000 for Compact Area.		
	<b>MJ1+2</b>		BOTH					
WEAPON	TYPE	IMAGE				NAME		
<b>RB-04</b>	ANTI-SHIP					<b>ROBOT 04</b>		
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO		
2, 6	<b>E</b>	17 nm 32 km	SHIPS	1,2	1980	Long-range fire-and-forget missile.		
WEAPON	TYPE	IMAGE				NAME		
<b>RB-05</b>	GUIDED AIR TO SURFACE					<b>ROBOT 05</b>		
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO		
3, 5	<b>E</b>	5 nm 9 km	HARD TARGET	1,2	1972	Tracking flare helps the pilot steer the missile towards the target.		
WEAPON	TYPE	IMAGE				NAME		
<b>RB-15</b>	ANTI-SHIP					<b>ROBOT 15</b>		
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO		
2, 6	<b>F</b>	37 nm 70 km	SHIPS	1,2	1989	Multiple waypoint capable cruise missile.		
WEAPON	TYPE	IMAGE				NAME		
<b>RB-75</b>	AIR TO SURFACE					<b>ROBOT 75</b>		
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO		
2, 3, 5, 6	<b>A</b>	11.9 nm 22 km	ANTI-ARMOR	1-4	1970	Electro-Optical TV. Equivalent to the AGM-65A. Shaped charge.		
	<b>B</b>					Electro-Optical TV. Equivalent to the AGM-65B. Magnified seeker. Shaped charge.		
	<b>T</b>		LARGE TARGET			Electro-Optical TV. Equivalent to the AGM-65A. Blast Fragmentation.		

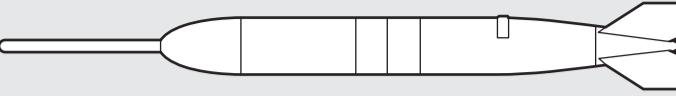
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE				
<b>M/70B</b>	5.3 in 135 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 5, 6	<b>AP</b>	HARD TARGET	<b>ARAK</b>	6, 12, 18, 24	Anti-armor.	Code 220 for Target Motion Measurement. Code 221 for No Target Motion. Code 251 for Radar Ranging on Code 253 for Radar Ranging off
	<b>HE</b>	SOFT TARGET			High explosive.	

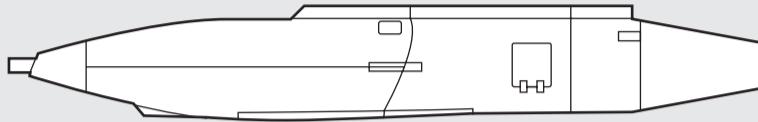
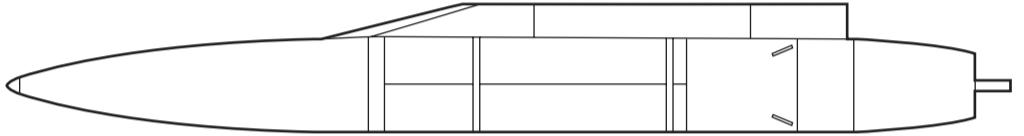
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
<b>LysB</b>	ILLUMINATION					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 6		TARGET MARKING	176.4 lbs 80 kg	2, 4	Illuminating targets.	Code 231 for 1 km offset distance Code 232 for 2 km offset distance Code 233 for 3 km offset distance

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>M/71</b>	<b>HIGH &amp; LOW DRAG</b>				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
<b>2, 3, 5, 6</b>	<b>HD</b>	LIGHT STRUCTURE	275.6 lbs 125 kg	<b>4, 8,</b> <b>12, 16</b>	High-explosive, high-drag.
	<b>LD</b>				High-explosive, low-drag.

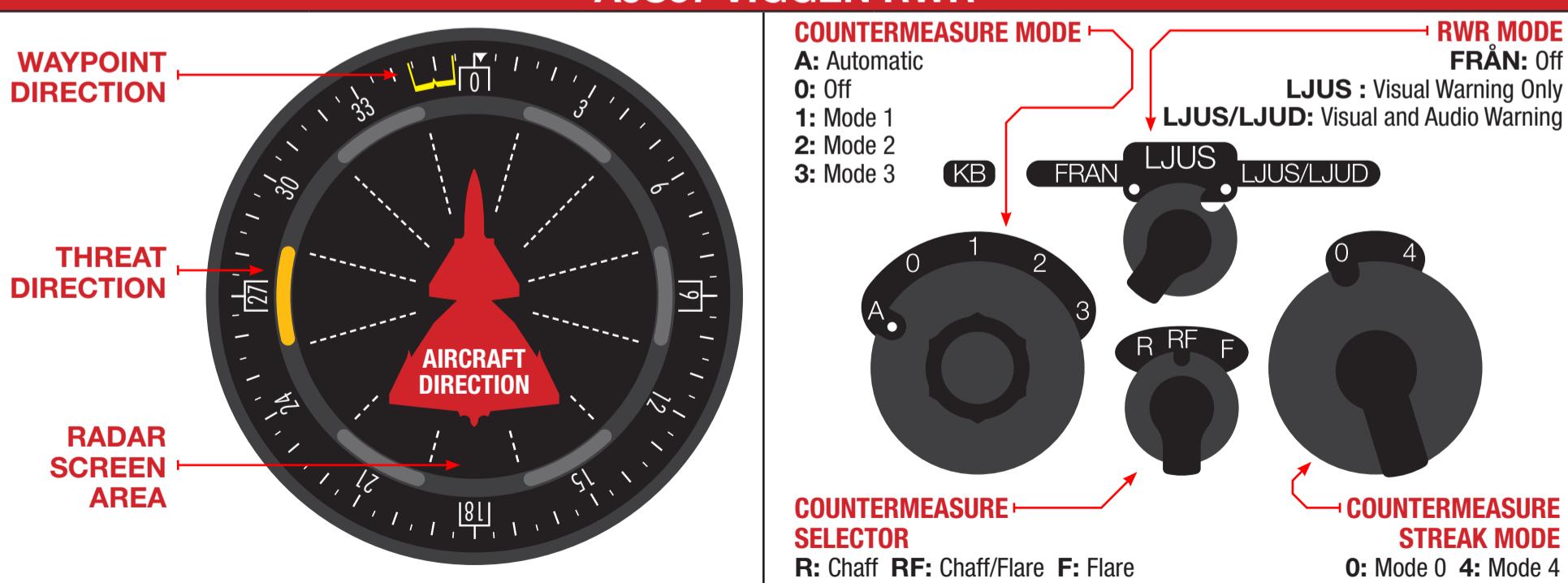
## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
<b>AKAN</b>	<b>GUN</b>					
STATION	VERSION	WEIGHT	INFO			
<b>2, 6</b>	<b>30/55</b>	608 lbs 275.8 kg	ADEN 30mm gun with 150 rounds.	Code <b>220</b> for Target Motion Measurement. Code <b>221</b> for No Target Motion.		
POD	TYPE	IMAGE				
<b>KB F/C</b>	<b>COUNTER MEASURES</b>					
STATION	VERSION	WEIGHT	INFO			
<b>2, 6</b>	<b>12</b>	653 lbs 296.2 kg	Countermeasure dispenser used in conjunction with U22 or U22/A.			
POD	TYPE	IMAGE				
<b>U22</b>	<b>COUNTER MEASURES</b>					
STATION	VERSION	WEIGHT	INFO			
<b>6</b>	<b>/A</b>	767 lbs 347.9 kg	Electronic countermeasures (ECM) used in conjunction with KB F/C.			
			ECM and ELINT gathering pod used in conjunction with KB F/C.			

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>430 lbs</b>	<b>4</b>	430 lbs 195 kg	

## AJS37 VIGGEN RWR



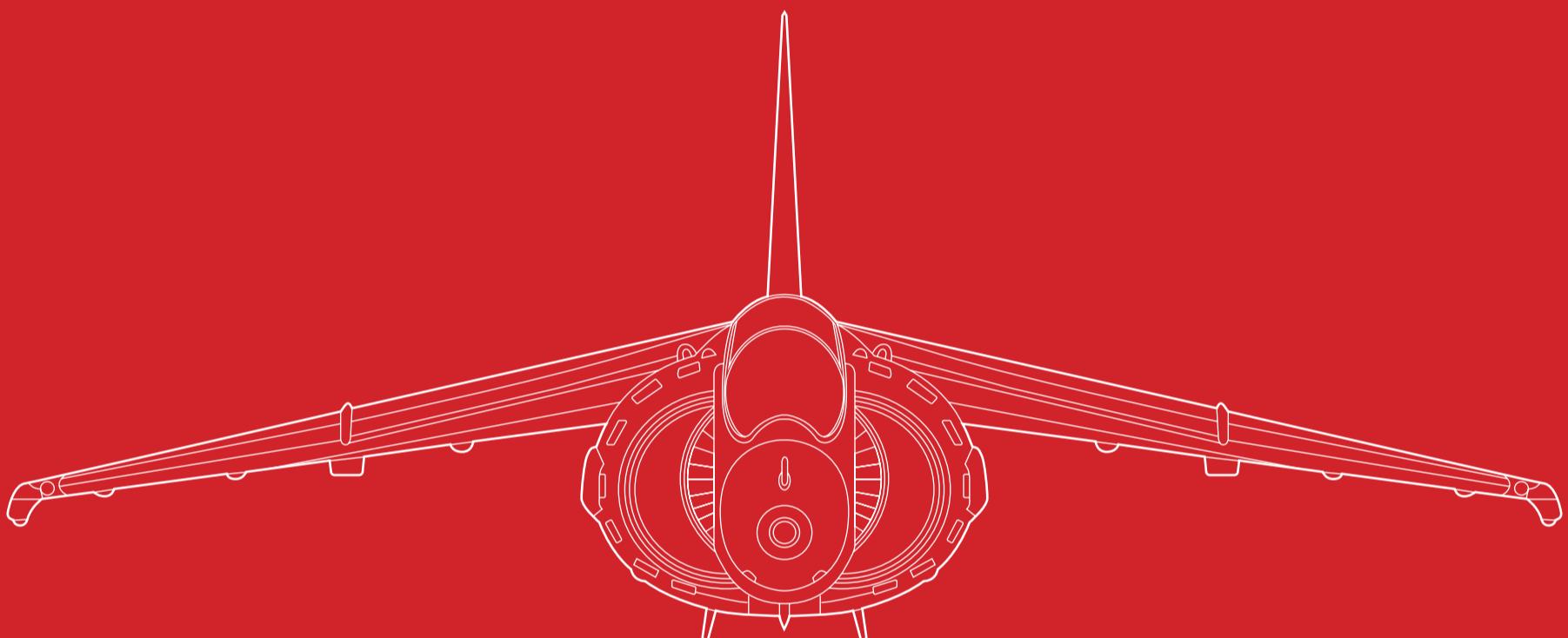
## SOUND WARNING

Slow Continuous Beep	Radar detecting you.	Fast Continuous Beep	Locked or Radar Locked and Guiding.
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# AJS37 CK37 FLIGHT COMPUTER INPUT CODES

MODE	INPUT	CONFIRM	FUNCTION	DESCRIPTION
REF/ LOLA	9099	LS/SKU	Data transfer	Load data from cartridge. Should read 000000 when finished without error.
	90XX	L MÅL	L1 Ref Number	Landing base L1 reference number XX (kneeboard). XX=00 to clear.
	99XX		L2 Ref Number	Divert landing base L2 reference number XX (kneeboard). XX=00 to clear.
	DDMMSS	B1-B9	Lo/La NAV WP	Longitude (E/W) and Latitude (N/S) for nav waypoints
		L MÅL	Lo/La L1	Longitude (E/W) and Latitude (N/S) for landing base L1.
		BX + Y	Lo/La BX	Longitude (E/W) and Latitude (N/S) for mark point Y (BX1-BX9), Y=1-9 on data panel.
TID	HHMMSS	LS/SKU	Current Time	Set current time in HH=hours, MM=minutes, SS=seconds.
		B1-B9	ToT NAV WP	Time on target for navigation waypoints B1-B9.
		BX	ToT RB15	Time on target (missile in target area) for RB 15.
	XXX	B1-B9	Ingress Speed	Ingress speed XXX in Mach (095=0.95M) for WPs not corresponding to target WPs.
BANA/ GRÄNS	XXXYYZZ	LS/SKU	Takeoff RWY	Runway heading XXX.Y [deg] and TILS channel ZZ of starting base.
		L MÅL	Landing RWY	
	XXXYYY	B1-B9	Boundaries	Boundary lines for nav WPs B1-B9. XXX [deg] first line, YYY [deg] second line towards WP.
VIND/ RUTA/ MÅL	XXXYY	LS/SKU	Wind	Forecast wind direction XXX [deg] and speed YY [km/h]. Enter 00000 for reset.
	DDMMSS	B1-B9	Lo/La R1-R9	Longitude and Latitude of recon corner/center points (R1-R8) or center point R9.
		L MÅL + X	Lo/La M1-M9	Longitude and Latitude of measured recon target "red" M1-M9 [X=1-9 on data panel].
TAKT	9	B1-B9	Set Target WP	Turn nav WP into target WP (e.g. B3 => M3).
	0		Restore nav WP	Turn target WP into nav WP (e.g. M3 => B3).
	XXXYY0		Pop-up Point	Pop-up point "U" with heading XXX [deg] from U to target WP (M1-M9) and distance YY [km].
	20ABCD	LS/SKU	Loadout	Pretend a fictional loadout on pylons (not functional).
	21X		Fixed Sight	Fixed (backup) sight mode X=1 on or X=0 off.
	22X		Lead Correct	Target motion measurement X=1 off or X=0 on for AKAN A/G, ARAK pods and dive bombing.
	23X		Lysbomb	Illumination bombs offset distance X=1,2,3 [km]. Sight mode RAKT=on top, VÄ=left, HÖ=right.
	25X		Radar Lock	Radar lock on: X=1 before trigger unsafe, X=2 after trigger unsafe, X=3 disabled.
	30XX		Recon Standoff	Standoff warning distance XX [km] for recon (XX between 01-99 km). XX=00 no warning.
	51XX		Fuel Reserve	Fuel reserve XX [%] at L1 (XX between 10% and 99%).
	58X		TERNAV	Turn terrain navigation system X=1 on or X=0 off.
	666		HAL 9000	Summon HAL 9000. Enter 666+LS again to banish. Easter Egg.
	800000	RB 15 Main Modes	RB 15 Main Modes	Single target, large search area. Same as targeting mode=STD.
	800001			Confined area attack. Multiple targets N, medium area search.
	800002			Unconfined area attack. Multiple targets A, medium area search.
	800003			Convoy attack. Group target, large area search.
	800004			Bearing attack. Bearing search mode.
TAKT (RB 15)	81ABCD	LS/SKU	RB 15 Main Modes	Target selection (0=yes, 1=no) for A=Single, B=Multiple N, C=Multiple A, D=Group. Default=810111.
	82ABCD			Analysis/acquisition (No Function). Default=820000.
	83ABCD			A=Altitude after BX6 (0=?, 1=30m), B=Area search (0=?, 1=Bearing). CD=Empty. Default=830000.
	84ABCD			Search area (0=yes, 1=no) A=Precise, B=Small, C=Medium, D=Large. Default=841110.
	85ABXX			Boundary A=left (0=yes, 1=no), B=right (0=yes, 1=no) and XX=Distance 01-15 km. Default=851100.
	86ABCD		RB 15 Special Modes	Target approach A=0 10m ASL, A=1 sea skimming. BC=No Function, D=Empty. Default=861000.
	87XXX			Wind direction XXX [deg] in target area (000-360 deg). Default=sourced from aircraft.
	88XX			Wind strength XX [km/h] in target area (00-99 km/h). Default=sourced from aircraft.
TAKT (BK 90)	91XXX	LS/SKU	Altitude	BK 90 approach altitude XXX [m] between 030-500 m (targeting mode=VALB). Default 60 m.
	92X000		Area Pattern	BK 90 area of effect pattern: X=1 long, X=2 wide, X=3 compact (X=0 reset to default).

# AIRCRAFT QUICK REFERENCE

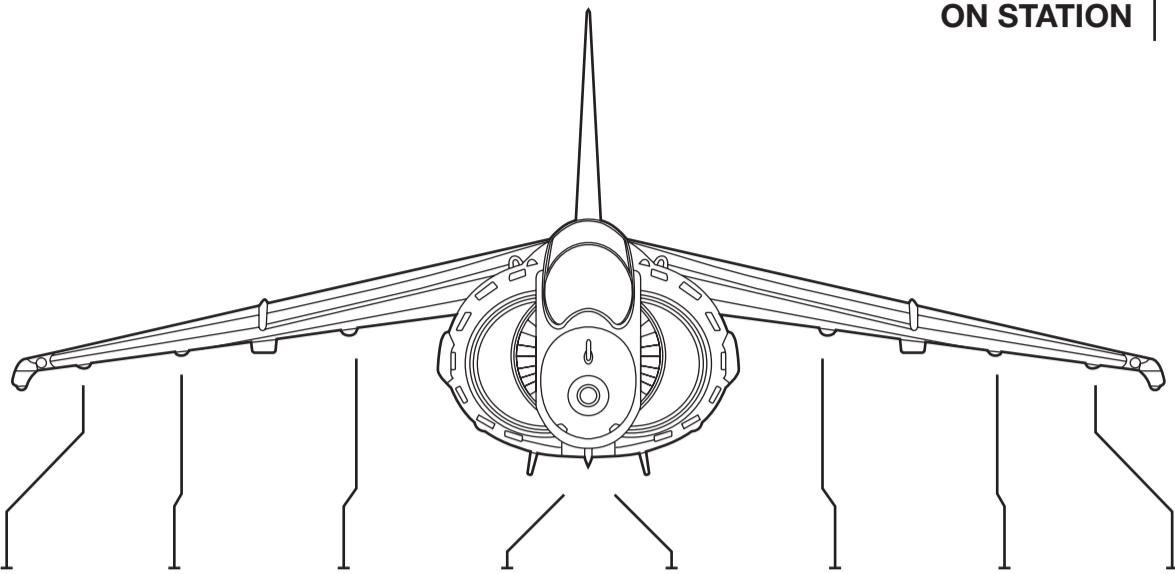


**AV-8B  
HARRIER**

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# AV-8B HARRIER

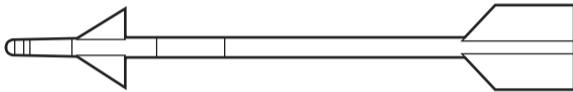
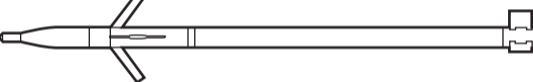
WEIGHT	CLEAN	14,804 LBS	* WEIGHT MUST BE LESS THAN 20,500 LBS ** DEPENDING ON WEIGHT, CONSULT THE VREST PAGE.						WEAPONS AVAILABLE ON STATION	
	MAX	31,085 LBS								
TAKE OFF	VTO*	0 KTS							1 ● 2 ○ 3 ○	
	STO	96 KTS**								
	LOADED	135 KTS								
LANDING	FLAPS	300 KTS							1 ● 2 ○ 3 ○	
	GEAR	250 KTS								
	GROUND	150 KTS								
TOP SPEED		585 KTS								
MAX ALTITUDE		40,000 FT								
MAX G		+7 G								
MAXIMUM TURN RATE	CLEAN	248 KTS								
GUN	300 ROUNDS (GAU-12)									
COUNTER MEASURES	CHAFF	60								
	FLARE	120								
STATION		7	6	5	4B	4A	3	2	1	
AIR TO AIR MISSILES	AIM-9	M	●	●				●	●	
AIR TO GROUND MISSILES	AGM-65	E		●	●			●	●	
		F		●	●			●	●	
		L		●	●			●	●	
	AGM-122		●	●				●	●	
	AGR-20	M151		●	●			●	●	
		M282		●	●			●	●	
ROCKETS	HYDRA	M151		●	●			●	●	
		M156		●	●			●	●	
		M257		●	●			●	●	
		M274		●	●			●	●	
		MK5		●	●			●	●	
		WTU-1/8		●	●			●	●	
	ZUNI	MK71		●	●			●	●	
BOMBS	BDU	33	●	●○	●○			○●	○●	
	CBU	99		●○	●○			●●	●●	
	GBU	12	●	●○○	●○			●●	○○●●	
		16		●	●			●	●	
		32(V)2/B		●	●			●	●	
		38		●○○	●○			●●	○○●●	
		54		●○○	●○			●●	○○●●	
		LUU	2	●○	●			●	○●	
	MK	20	●	●○	●○			●●	●●	
		81	●	●○	●○			○●	○●	
		82	●	●○○	●○			●●	○○●●	
		82 SE	●	●○○	●○			●●	○○●●	
		82 AIR	●	●○○	●○			●●	○○●●	
		83		●	●○			●●	●	
PODS	AN/AAQ	28 LITENING		●	●	●		●	●	
	AN/ALQ	164 DECM				●				
	AN/ASQ	T50 TCTS	●							
	GAU	12					●			
	SMOKE WINDER		●	●				●	●	
FUEL TANK		300 GAL		●	●	●		●	●	



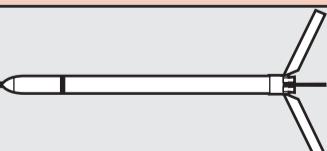
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 2, 6, 7	M	10 nm 18.5 km	ALL	1-4	1977	Improved slightly over L.	

## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO	
2, 3, 5, 6	E	8 nm 15 km	HARD TARGET, SHIP	1-4	1975	Semi-active laser. Penetrating blast frag. Needs active laser	
	F		HARD TARGET			Infrared Seeker. Penetrating blast fragmentation.	
	L	5 nm 9 km	HARD TARGET, SHIP		1986	Semi-active laser. Penetrating blast fragmentation.	
WEAPON	TYPE	IMAGE				NAME	
AGM-122	ANTI-RADIATION					SIDEARM	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO	
1, 2, 6, 7		9 nm 16 km	RADAR	1-4	1986	Based on the AIM-9C Sidewinder.	
WEAPON	TYPE	IMAGE				NAME	
AGR-20	LASER HOMING					APKWS	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO	
2, 3, 5, 6	M151	6 nm 11 km	SOFT TARGET	7, 14, 21, 28	2008	High explosive 10 pounder	
	M282		HARD TARGET			Multipurpose penetrator warhead.	

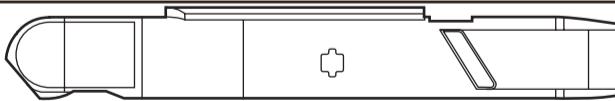
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
2, 3, 5, 6	M151	SOFT TARGET	LAU-68/131	7, 14, 21, 28	High Explosive.		
	M156	TARGET MARKING			White phosphorus.		
	M257				Parachute illumination.		
	M274				Parachute smoke.		
	MK5	HARD TARGET			High explosive Anti-Tank warhead.		
	WTU-1/8	PRACTICE TARGET			Inert warhead for training purposes.		
WEAPON	SIZE	IMAGE					
ZUNI	5 in 127 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
2, 3, 5, 6	MK71	SOFT TARGET	LAU-10	4, 8, 12, 16	High explosive warhead.		

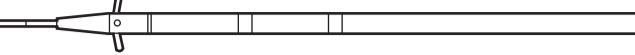
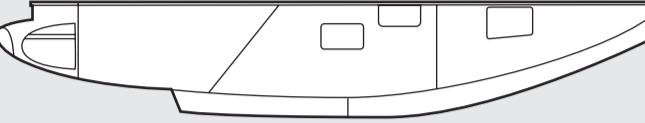
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
<b>BDU</b>	TRAINING					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
1, 2, 3, 5, 6, 7	33	TRAINING TARGET	25 lbs 11.3 kg	1-14	Training smoke.	
WEAPON	TYPE	IMAGE				
<b>CBU</b>	LASER GUIDED					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 6	99	HARD TARGET	490 lbs 222.3 kg	1-8	HEAT.	
WEAPON	TYPE	IMAGE				
<b>GBU</b>	LASER GUIDED					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
1, 2, 3, 5, 6, 7	12	MEDIUM STRUCTURE	500 lbs 226.8 kg	1-12	Laser guided Mk-82.	
2, 3, 5, 6	16	HARD STRUCTURE	1,000 lbs 453.6 kg	1-4	Laser guided Mk-83.	
	32(V)2/B	MEDIUM STRUCTURE			INS-guided Mk-83.	
	38	500 lbs 226.8 kg	1-10	INS guided Mk-82.		
	54		1-10	Dual guidance Mk-82.		
WEAPON	TYPE		IMAGE			
<b>LUU</b>	ILLUMINATION FLARE					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 6	2	TARGET MARKING	30 lbs 13.6 kg	1-8	Illuminating targets.	
WEAPON	TYPE	IMAGE				
<b>MK</b>	HIGH & LOW DRAG					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
1, 2, 3, 5, 6, 7	20	HARD TARGET	222.3 lbs 490 kg	1-10	High-drag HEAT.	
	81	SOFT TARGET	250 lbs 113.4 kg	1-14	High-explosive, low-drag.	
	82	LIGHT STRUCTURE				
2, 3, 5, 6	82 SE	500 lbs 226.8 kg	1-12	Mk-82 with high-drag fin kit.		
1, 2, 3, 5, 6, 7	82 AIR		1-12	Mk-82 with ballute kit.		
1, 2, 3, 5, 6, 7	83	MEDIUM STRUCTURE	1000 lbs 453.6 kg	1-6	High-explosive, low-drag.	

## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
STATION	VERSION	WEIGHT	INFO			
<b>LITENING</b>	TARGETING					
POD	TYPE	IMAGE				
<b>AN/ALQ</b>	ECM					
STATION	VERSION	WEIGHT	INFO			
4B	28	458 lbs 207.7 kg	IR/Laser target spotting and marking pod.			
POD	TYPE	IMAGE				
<b>AN/ALQ</b>	ECM					
STATION	VERSION	WEIGHT	INFO			
4B	164 DECM	317 lbs 143.8 kg	ECM/ELINT pod			

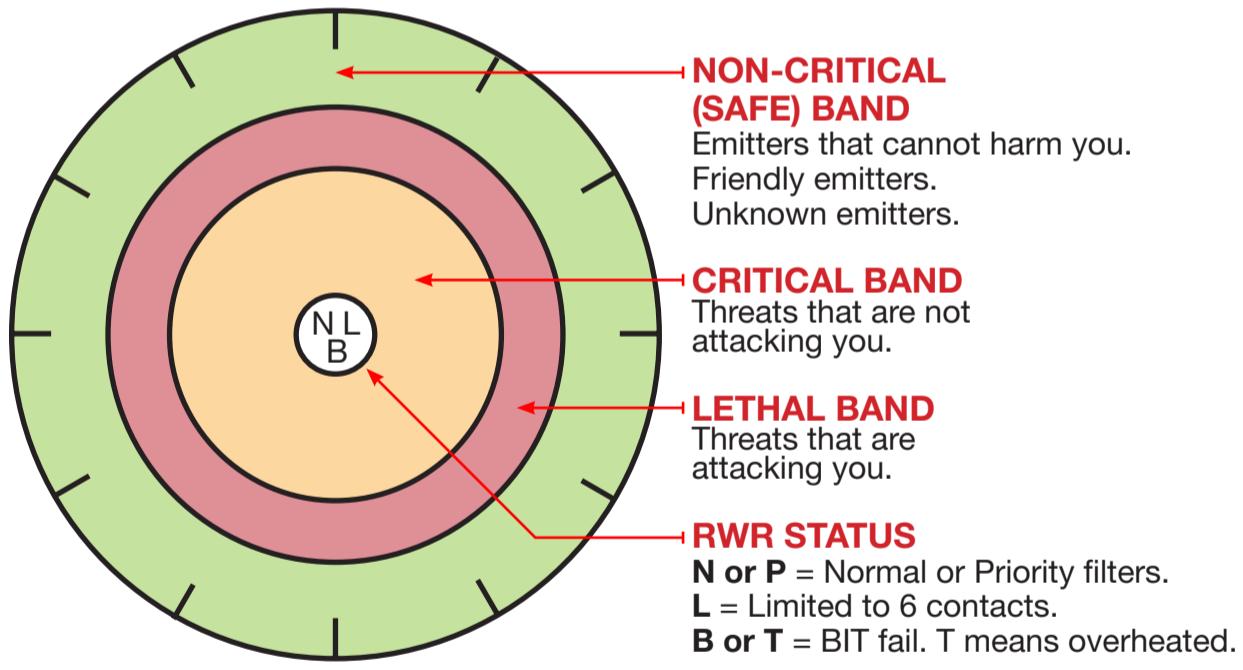
## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
<b>AN/ASQ</b>	<b>TRAINING</b>		
STATION	VERSION	WEIGHT	INFO
1, 7	T50 TCTS	139 lbs 63 kg	Recording/simulation pod.
POD	TYPE	IMAGE	
<b>GAU</b>	<b>GUN</b>		
STATION	VERSION	WEIGHT	INFO
4A	12	626 lbs 284 kg	25mm gun pod. 300 rounds. AP M79 25mm gun pod. 300 rounds. HE M792 25mm gun pod. 300 rounds. SAPHEI-T
POD	TYPE	IMAGE	
<b>SMOKEWINDER</b>	<b>SMOKE</b>		
STATION	VERSION	WEIGHT	INFO
1, 2, 6, 7		441 lbs 200 kg	Smoke pod for wing tip pylons.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>300 GAL</b>	<b>2, 6</b>	<b>207 lbs 94 kg</b>	

## AV-8B HARRIER RWR



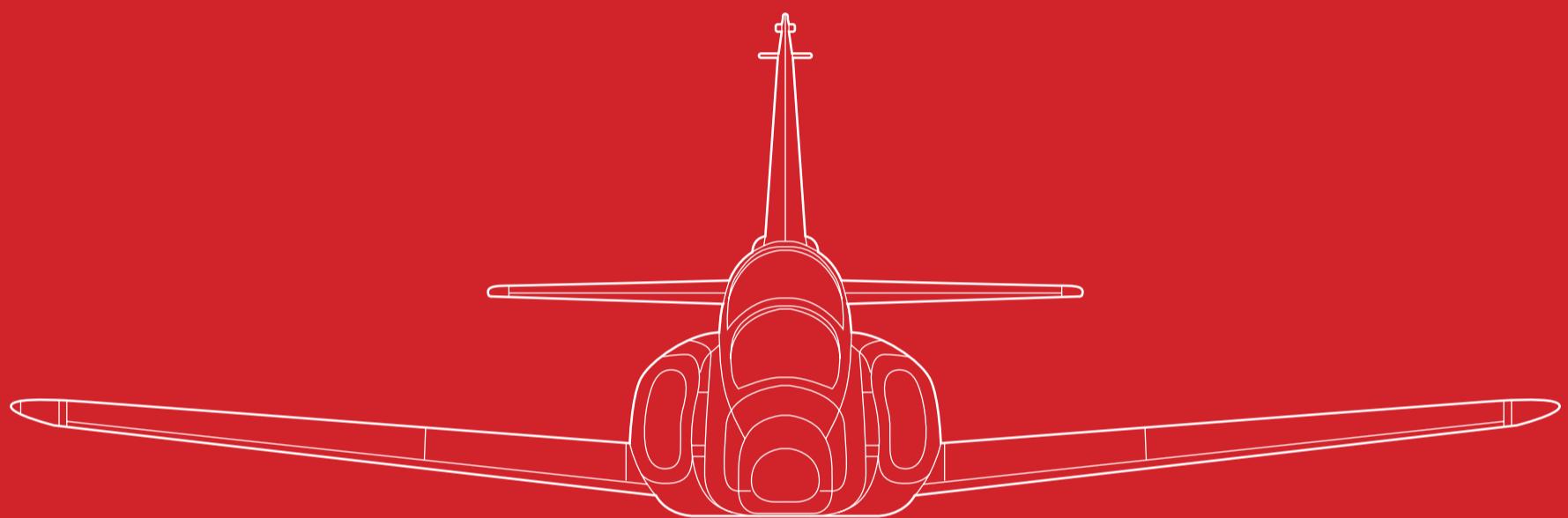
## HUD SYMBOLOGY

<b>CRITICAL</b>	
<b>LETHAL</b>	
<b>NON-LETHAL</b>	
<b>CRITICAL &amp; LOCKED</b>	
<b>MISSILE LAUNCH</b>	

## RWR SYMOBOLGY

3	SA-3	24	Su-24	95	Tu-95	E3	E-3	PS	Molniya
6	SA-6	25	MiG-25	A	Gepard, Vulcan, Shilka	E6	EA-6B	PT	Patriot
8	SA-8	29	MiG-29, Su-27, Su-33	AE	Ticonderoga	F2	F-2	RO	Roland
10	SA-10	30	Su-30	AN	AN-26B	F4	F-4	S	EWR, SA-3
11	SA-11, F111	31	MiG-31	AV	AV-8B	F5	F-5	S3	S-3
12	S-300	34	Su-34	B1	B-1	GR	Roland Rdr	S6	Tunguska
13	SA-13, C130	39	Su-39	BB	S-300	HA	Hawk	SC	Ametyst
14	F-14	40	Spruance	BD		HK		SD	SA-11
15	SA-15, F-15	48	Vinson	BJ	Tu-160	HN	Grozny, Orel, Skory	SW	Kuznecow
16	F-16	49	Perry	CD	Bobruisk, Bora	HP	Albatros	T2	Moscow
17	C-17	50	A-50	CS	S-300	HS	S-300	TP	Nuestresh, Rezky
18	F/A-18	52	B-52	DE	Dog Ear	KC	KC-130, KC-135	TS	Azov
22	Tu-22	76	IL-76	DT	SA-8	M2	M-2000	Tu	Tu-142
23	MiG-23	78	IL-78	E2	E-2C	PP	Veter	U	Unknown

# AIRCRAFT QUICK REFERENCE



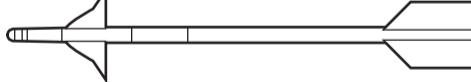
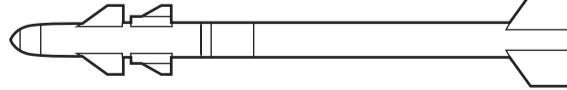
**C-101CC  
AVIOJET**

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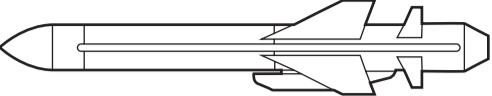
# C-101CC AVIOJET

WEIGHT	CLEAN	8,014 LBS	* WEIGHT IS 4,800 KG						WEAPONS AVAILABLE ON STATION	1	
	MAX	13,889 LBS								4	
TAKE OFF	CLEAN	100 KTS									
	LOADED*	115 KTS									
LANDING	GEAR	200 KTS							WEAPONS AVAILABLE ON STATION	1	
	FLAPS	150 KTS								4	
GROUND		120 KTS							WEAPONS AVAILABLE ON STATION	1	
TOP SPEED		0.8 MACH								4	
MAX ALTITUDE		45,000 FT							WEAPONS AVAILABLE ON STATION	1	
MAX G		+7.5G -3.9G								4	
MAXIMUM TURN RATE	CLEAN	206 KTS							WEAPONS AVAILABLE ON STATION	1	
GUN	440 ROUNDS (POD)									4	
COUNTER MEASURES	CHAFF	N/A							WEAPONS AVAILABLE ON STATION	1	
	FLARE	N/A								4	
STATION	7	6	5	4	3	2	1				
AIR TO AIR MISSILES	AIM-9	M P	● ●							● ● ●	
	R.550	MAGIC II	●							●	
AIR TO GROUND MISSILES	SEA EAGLE			●					●		
ROCKETS	HYDRA	M151		●					●		
		M156		●					●		
		M257		●					●		
		M274		●					●		
BOMBS	BDU	33			●			●			
	BIN	200		●	●			●		●	
	BL755			●	●			●		●	
	BLG	66		●	●			●		●	
	BR	250		●	●			●		●	
		500		●	●			●		●	
	FAB	100		●	●			●		●	
		250		●	●			●		●	
	MK	82		●	●			●		●	
PODS	AN	M3				●					
	DEFA	553				●					

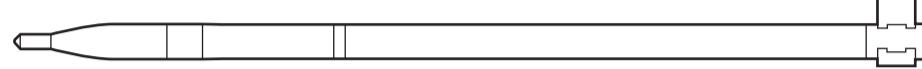
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE			NAME	RANGE	
AIM-9	INFRARED				SIDEWINDER	SHORT	
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 7	M	10 nm 18.5 km	ALL	1-2	1982	Improved slightly over L.	
	P		REAR		1977	Improved over B.	
WEAPON	TYPE	IMAGE			NAME	RANGE	
R.550	INFRARED				MAGIC 2	SHORT	
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 7		8 nm 15 km	ALL	1-2	1986	Frontal engagement	

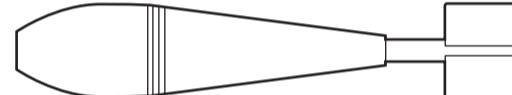
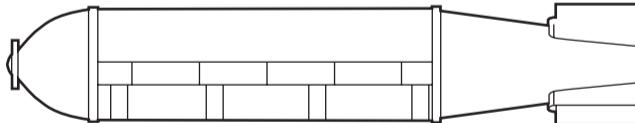
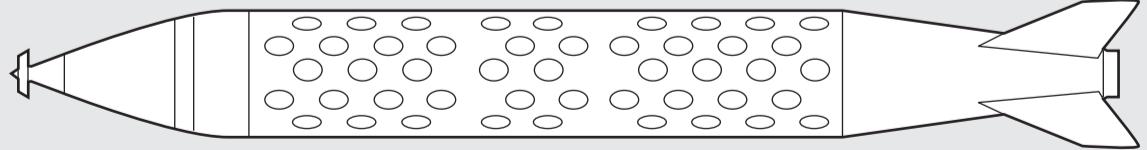
## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME
<b>SEA EAGLE</b>	ANTI-SHIP					<b>SEA EAGLE</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
2, 6		60 nm 110 km	SHIP	2	1985	Medium weight sea-skimming.

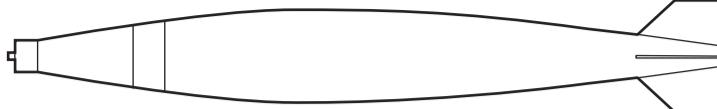
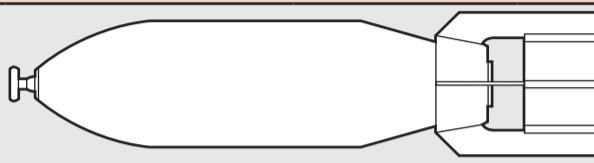
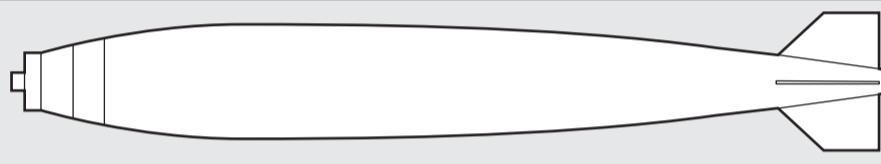
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE				
<b>HYDRA</b>	2.75 in 70 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 6	M151	SOFT TARGET	LAU-68/131	7, 14, 19, 38	High Explosive.	
	M156	TARGET MARKING			White phosphorus.	
	M257			7, 14	Parachute illumination.	
	M274				Parachute smoke.	

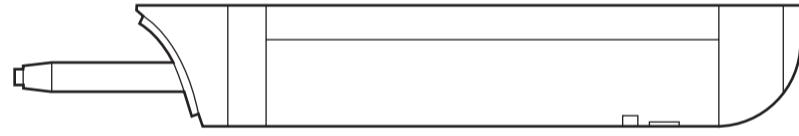
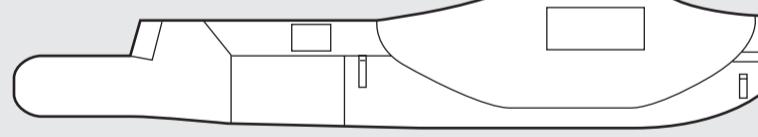
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>BDU</b>	TRAINING				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
3, 5	33	TRAINING TARGET	25 lbs 11.3 kg	8	Training smoke.
WEAPON	TYPE	IMAGE			
<b>BIN</b>	INCENDIARY BOMB				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 6	200	SOFT TARGET	441 lbs 200 kg	2, 4	Spanish incendiary bomb.
WEAPON	TYPE	IMAGE			
<b>BL755</b>	CLUSTER				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 6		HARD TARGET	1,000 lbs 453.6 kg	1-4	Multiple armored targets.
WEAPON	TYPE	IMAGE			
<b>BLG</b>	CLUSTER				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 6	66	SOFT TARGET	672.4 lb 305 kg	1-4	High-drag HEAT.

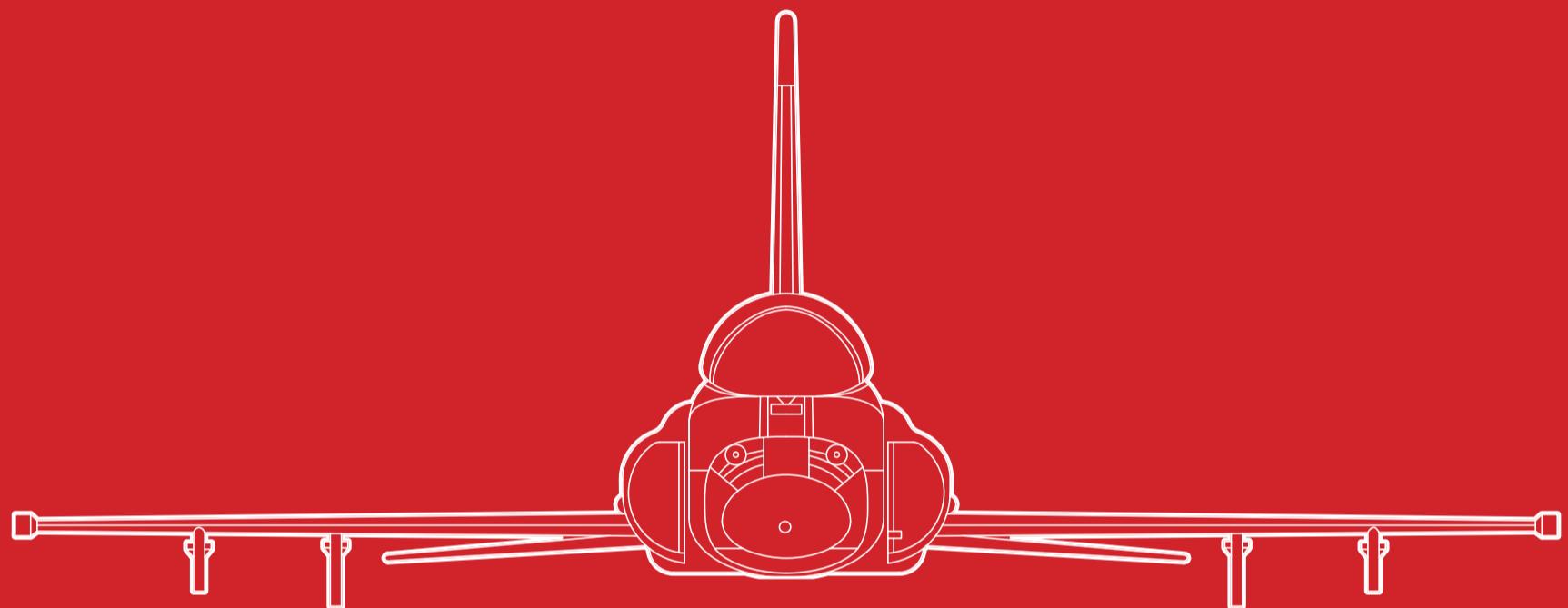
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>BR</b>	FREE FALL				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 6	250	LIGHT STRUCTURE	551.2 lbs 250 kg	1-4	
3, 5	500	MEDIUM STRUCTURE	1102.3 lbs 500 kg	1-2	Low-drag, high explosive.
WEAPON	TYPE	IMAGE			
<b>FAB</b>	FREE FALL				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 6	100	SOFT TARGET	220.5 lbs 100 kg	1-4	
	250	LIGHT STRUCTURE	551.2 lbs 250 kg	Low-drag, high explosive.	
WEAPON	TYPE	IMAGE			
<b>MK</b>	HIGH & LOW DRAG				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 6	82	LIGHT STRUCTURE	500 lbs 226.8 kg	1-4	

## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
<b>AN</b>	GUN					
STATION	VERSION	WEIGHT	INFO			
4	M3	481 lbs 218.2 kg	Browning .50 caliber machine guns.			
POD	TYPE	IMAGE				
<b>DEFA</b>	GUN					
STATION	VERSION	WEIGHT	INFO			
4	553	481 lbs 218.2 kg	30mm caliber rounds.			

# AIRCRAFT QUICK REFERENCE

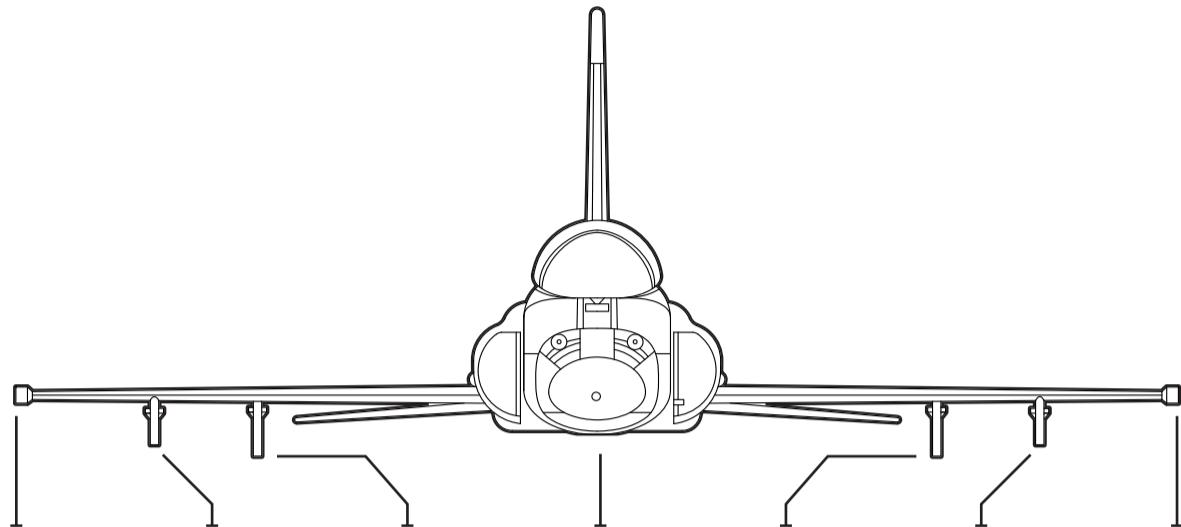


**F-5E  
TIGER II**

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# F-5E TIGER II

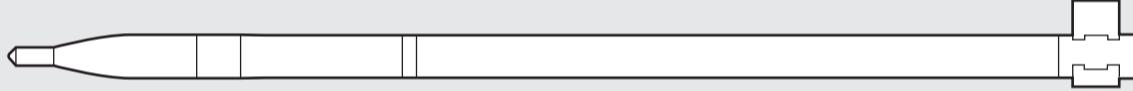
WEIGHT	CLEAN	15,562 lbs	* 2 AIM-9s AND MAX POWER.		WEAPONS AVAILABLE ON STATION	1		
	MAX	24,553 lbs				5		
TAKE OFF	CLEAN	143 KTS						
	23,000 lbs	185 KTS						
LANDING	FLAPS	AUTO						
	GEAR	300 KTS						
TOP SPEED	GROUND	145 KTS						
	GROUND	670 KTS						
36,000 FT		MACH 1.63						
MAX ALTITUDE			54,000 FT					
MAX RANGE	INTERNAL	870 NM						
	EXTERNAL	1,780 NM						
MAX G			7.3					
MAXIMUM TURN RATE	CLEAN	466 KTS						
RADAR	MAX RNG	40 NM						
GUN	560 ROUNDS							
COUNTER MEASURES	CHAFF	30						
	FLARE	15						
STATION		7	6	5	4	3	2	1
AIR TO AIR MISSILES	AIM-9	B	●					●
		P	●					●
		P5	●					●
ROCKETS	FFAR	M156		●	●		●	●
		M257		●	●		●	●
		MK5		●	●		●	●
	HYDRA	M151		●	●		●	●
		M156		●	●		●	●
		M257		●	●		●	●
		M274		●	●		●	●
		MK1		●	●		●	●
		MK5		●	●		●	●
		MK61		●	●		●	●
	WTU-1/8			●	●		●	●
BOMBS	BDU	33		●	●		●	●
		50HD		●	●		●	●
		50LD		●	●		●	●
		50LGB		●	●		●	●
	CBU	52B		●	●	●	●	●
		GBU	12	●	●		●	●
	LUU	2		●	●		●	●
	M117			●	●		●	●
	MK	82		●	●	●	●	●
		82SE		●	●	●	●	●
		83		●	●	●	●	
		84				●		
PODS	AN/ASQ	T50 TCTS	●					●
	MXU	648		●	●	●		
	SMOKEWINDER		●					●
FUEL TANK		150 GAL		●	●	●		
		275 GAL		●	●	●		



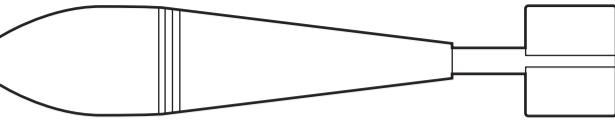
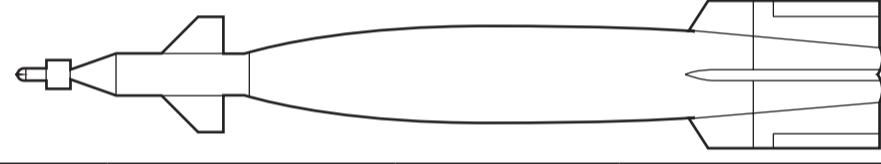
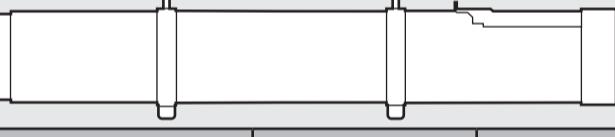
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 7	B	2.5 nm 4.6 km	REAR	1-2	1956	Early model.	
	P	10 nm 18.5 km	REAR		1975	Improved over B.	
	P5		LIMITED FRONT			Improved over P.	

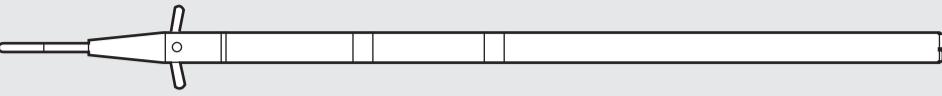
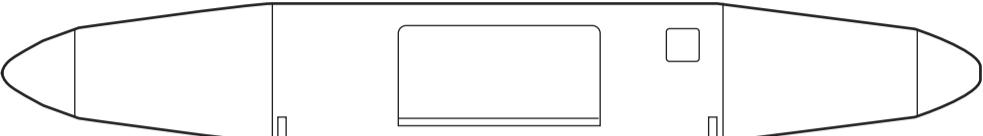
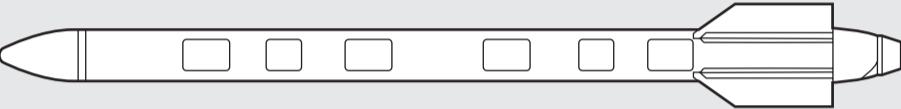
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 5, 6	M156	TARGET MARKING	LAU-3	19, 38, 57, 76	White phosphorus.	
	M257		LAU-68	7, 14, 21, 28		
	MK5	HARD TARGET	LAU-3	19, 38, 57, 76	Parachute illumination.	
			LAU-68	7, 14, 21, 28		
			LAU-3	19, 38, 57, 76	High explosive Anti-Tank warhead.	
WEAPON	SIZE	IMAGE				
HYDRA	2.75 in 70 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 5, 6	M151	SOFT TARGET	LAU-3	19, 38, 57, 76	High Explosive.	
			LAU-68	7, 14, 21, 28		
	M156	TARGET MARKING	LAU-3	19, 38, 57, 76	White phosphorus.	
			LAU-68	7, 14, 21, 28		
	M257	HARD TARGET	LAU-3	19, 38, 57, 76	Parachute illumination.	
			LAU-68	7, 14, 21, 28		
	M274	SOFT TARGET	LAU-3	19, 38, 57, 76	Parachute smoke.	
			LAU-68	7, 14, 21, 28		
	MK1	PRACTICE TARGET	LAU-3	19, 38, 57, 76	Unarmored targets. Blast fragmentation.	
			LAU-68	7, 14, 21, 28		
	MK5	TARGET MARKING	LAU-3	19, 38, 57, 76	High explosive Anti-Tank warhead.	
			LAU-68	7, 14, 21, 28		
	MK61	PRACTICE TARGET	LAU-3	19, 38, 57, 76	Smoke.	
			LAU-68	7, 14, 21, 28		
	WTU-1/8		LAU-3	19, 38, 57, 76	Inert warhead for training purposes.	
			LAU-68	7, 14, 21, 28		

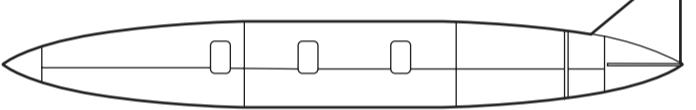
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
<b>BDU</b>	TRAINING					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 4, 5, 6	33	TRAINING TARGET	25 lbs 11.3 kg	1-5	Training smoke.	
2, 3, 4, 5, 6	50HD		500 lbs 226.8 kg		Training smoke. Mk-82.	
2, 3, 4, 5, 6	50LD				Training smoke. Mk-82 AIR.	
2, 3, 5, 6	50LGB			1-4	Training smoke. GBU-12.	
WEAPON	TYPE	IMAGE				
<b>CBU</b>	CLUSTER					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 4, 5, 6	52B	SOFT TARGET	785 lbs 356 kg	1-5	High-explosive, high-drag.	
WEAPON	TYPE	IMAGE				
<b>GBU</b>	LASER GUIDED					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 6	12	MEDIUM STRUCTURE	500 lbs 226.8 kg	1-4	Laser guided Mk-82.	
WEAPON	TYPE	IMAGE				
<b>LUU</b>	ILLUMINATION FLARE					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 6	2	TARGET MARKING	30 lbs 13.6 kg	1-4	Illuminating targets.	
WEAPON	TYPE	IMAGE				
<b>M117</b>	FREE FALL					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 6		MEDIUM STRUCTURE	750 lbs 340 kg	1-4	High-explosive.	
WEAPON	TYPE	IMAGE				
<b>MK</b>						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 4, 5, 6	82	LIGHT STRUCTURE	500 lbs 226.8 kg	1-9	High-explosive, low-drag.	
	82SE				Mk-82 with high-drag fin kit.	
	83	MEDIUM STRUCTURE	1000 lbs 453.6 kg	1-5	High-explosive, low-drag.	
4	84	HARD STRUCTURE	2000 lbs 907.2 kg	1		

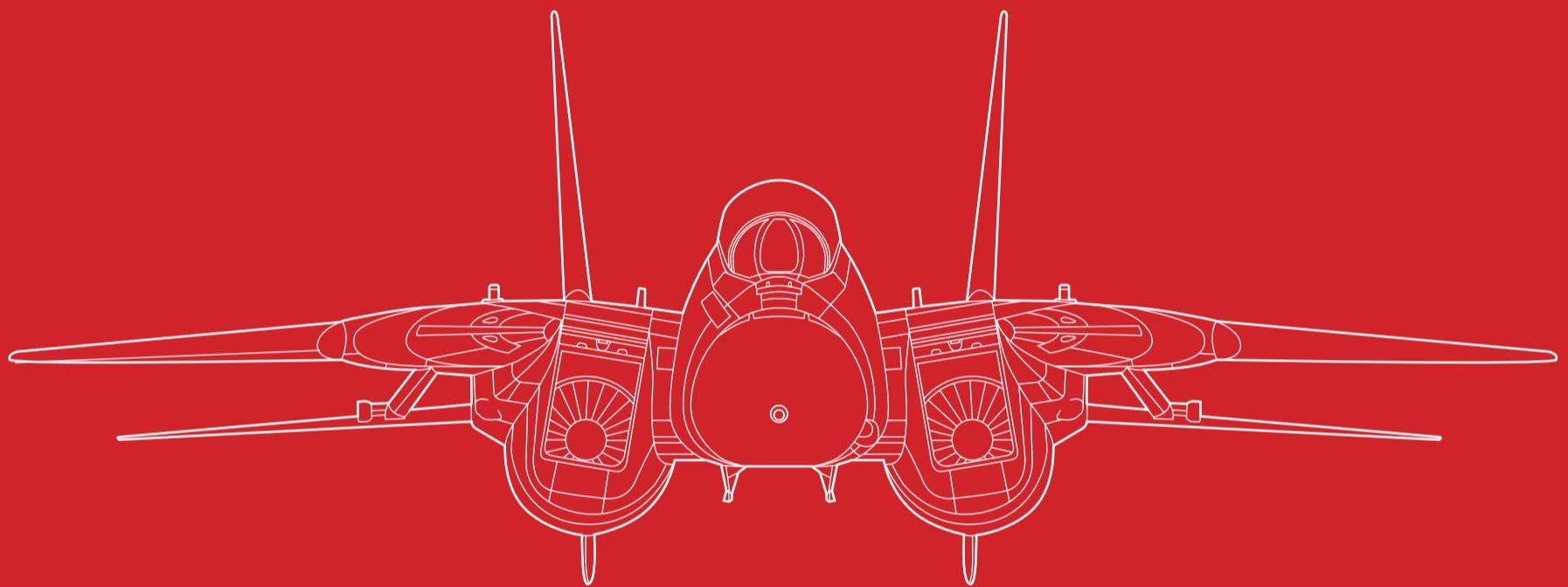
## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
<b>AN/ASQ</b>	<b>TRAINING</b>		
STATION	VERSION	WEIGHT	INFO
<b>1, 7</b>	<b>T50 TCTS</b>	139 lbs 63 kg	Recording/simulation pod.
POD	TYPE	IMAGE	
<b>MXU</b>	<b>TRAVEL</b>		
STATION	VERSION	WEIGHT	INFO
<b>3, 4, 5</b>	<b>648</b>	662 lbs 300.3 kg	Travel/cargo pod.
POD	TYPE	IMAGE	
<b>SMOKEWINDER</b>	<b>SMOKE</b>		
STATION	VERSION	WEIGHT	INFO
<b>1, 7</b>		441 lbs 200 kg	Smoke pod for wing tip pylons.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>150 GAL</b>	<b>3, 4, 5</b>	<b>148 lbs</b> <b>67.1 kg</b>	
<b>275 GAL</b>		<b>230 lbs</b> <b>104.3 kg</b>	

# AIRCRAFT QUICK REFERENCE

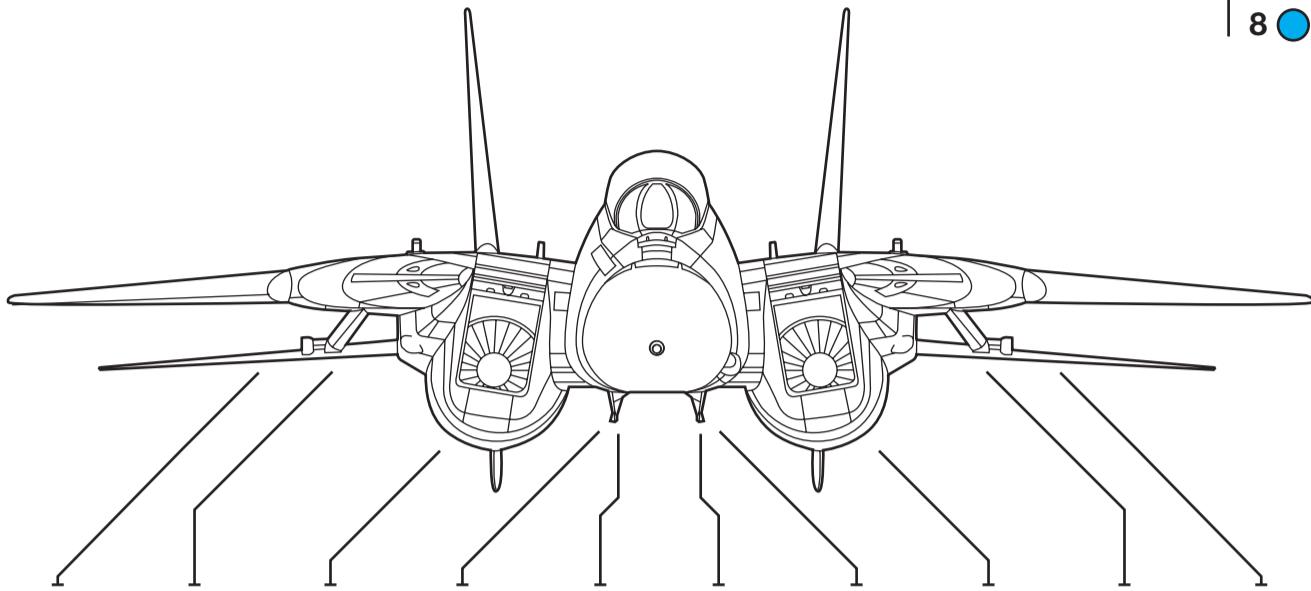


## F-14 A/B TOMCAT

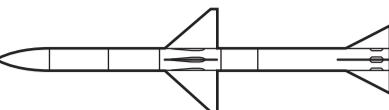
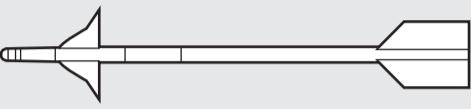
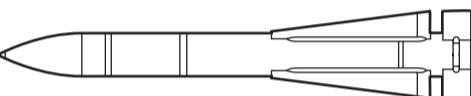
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# F-14 A/B TOMCAT

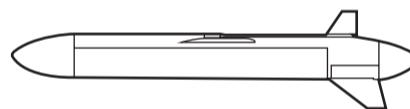
WEIGHT	CLEAN	44,040 LBS	* AUTO / 20° ** CLEAN	WEAPONS AVAILABLE ON STATION							
	MAX	74,349 LBS		1 ●	2 ○	3 ○	4 ●	5 ○	6 ○	7 ○	8 ○
TAKE OFF	CLEAN	130 KTS		●	●	●	●	●	●	●	●
	LOADED	140 KTS		●	●	●	●	●	●	●	●
LANDING SHORE	WINGS*	280 KTS		●	●	●	●	●	●	●	●
	GEAR	250 KTS		●	●	●	●	●	●	●	●
TOP SPEED	FLAPS	225 KTS		●	●	●	●	●	●	●	●
	GROUND	150 KTS		●	●	●	●	●	●	●	●
MAX ALTITUDE	LOW ALT	850 KTS		●	●	●	●	●	●	●	●
	HIGH ALT	Mach 2.38**		●	●	●	●	●	●	●	●
MAX G		7.5G		●	●	●	●	●	●	●	●
MAXIMUM TURN RATE	CLEAN	314 KTS		●	●	●	●	●	●	●	●
RADAR	MAX RNG	200 NM		●	●	●	●	●	●	●	●
GUN	676 ROUNDS			●	●	●	●	●	●	●	●
COUNTER MEASURES	CHAFF	140		●	●	●	●	●	●	●	●
	FLARE	60		●	●	●	●	●	●	●	●
STATION		8A	8B	7	6	5	4	3	2	1B	1A
AIR TO AIR MISSILES	AIM-7	F		●		●	●	●	●		●
		M		●		●	●	●	●		●
		MH		●		●	●	●	●		●
	AIM-9	L	●	●							●
		M	●	●							●
	AIM-54	A MK47		●		●	●	●	●		●
		A MK60		●		●	●	●	●		●
		C MK47		●		●	●	●	●		●
AIR TO GROUND MISSILES	ADM-141				●	●	●	●			
ROCKETS	ZUNI	74		●●		●			●●		●●
BOMBS	BDU	33		○		○●	○●	●○	●○		○
		45		●		●●	●●	●●	●●		●
		45B		●		●●	●●	●●	●●		●
		10			●				●		
	GBU	12			●	●	●	●	●		
		16			●	●	●	●	●		
		24			●	●	●	●	●		
	LUU	2				●	●	●			
		20		●		●	●	●	●		●
	MK	81		●		●	●	●	●		●
		82		●		●●	●●	●●	●●		●
		82 SE		●		●●	●●	●●	●●		●
		82 AIR		●		●●	●●	●●	●●		●
		83		●		○	○	○	○		●
		84			●	●	●	●	●		
		85									
PODS	AN/AAQ	14 LANTIRN		●						●	
	AN/ASQ	T50 TCTS	●								●
	SMOKE WINDER		●								●
FUEL TANK		300 GAL			●				●		



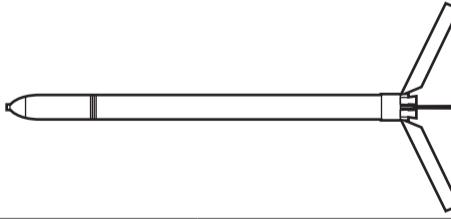
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>AIM-7</b>	SEMI-ACTIVE RADAR					<b>SPARROW</b>	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
<b>1B, 3, 6, 8B</b>	<b>F</b>	38 nm 70 km	ALL	1, 2	1976	Improved range.			
	<b>M</b>				1982	Improved warhead.			
	<b>MH</b>				1985	Improved tracking and loft.			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>AIM-9</b>	INFRARED					<b>SIDEWINDER</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
<b>1A, 1B, 4, 5, 8A, 8B</b>	<b>L</b>	10 nm 18.5 km	ALL	1-8	1977	9G launch capable, CM resistant.			
	<b>M</b>				1982	Improved slightly over L.			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>AIM-54</b>	ACTIVE RADAR					<b>PHOENIX</b>	LONG		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
<b>1B, 3, 4, 5, 6, 8B</b>	<b>A MK47</b>	120 nm 222.2 km	ALL	1-6	1974	Earliest model.			
	<b>A MK60</b>	145 nm 268.5 km			1976	High-thrust / long burn engine.			
	<b>C MK47</b>	130 nm 240.7 km			1986	Smokeless engine, improved seeker.			

## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME
<b>ADM-141</b>	DECOY					<b>TALD</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
<b>3, 4, 5, 6</b>		68 nm 125 km	AIR DEFENCE	1-4	1990	Tactical Air Launched Decoy.

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE			
<b>ZUNI</b>	5 in 127 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
<b>1B, 3, 6, 8B</b>	<b>MK71</b>	SOFT TARGET	LAU-10	<b>8, 12, 16, 20, 24</b>	High explosive warhead.

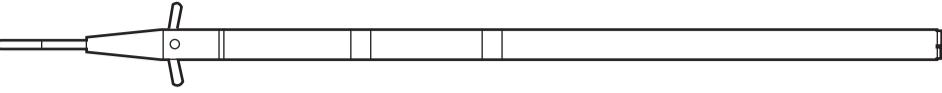
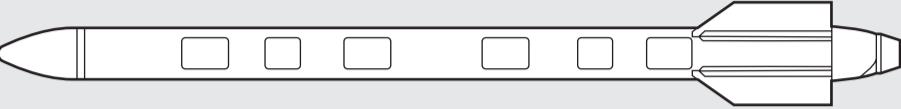
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
1B, 3, 4, 5, 6, 8B	33	TRAINING TARGET	25 lbs 11.3 kg	3-4, 6, 8-9, 12, 16, 19, 21	Training smoke.	
	45		500 lbs 226.8 kg	1-8, 12, 16, 18, 20	Training smoke. Mk-82.	
	45B					
WEAPON	TYPE	IMAGE				
GBU	LASER GUIDED					
	10	HARD STRUCTURE	2,000 lbs 907.2 kg	1-2	Laser guided Mk-84.	
	12	MEDIUM STRUCTURE	500 lbs 226.8 kg	1-4	Laser guided Mk-82.	
	16	HARD STRUCTURE	1000 lbs 453.6 kg		Laser guided Mk-83.	
	24		2,000 lbs 907.2 kg	1-2	Laser guided Mk-84 with penetrator.	
WEAPON	TYPE	IMAGE				
LUU	ILLUMI- NATION FLARE					
	2	TARGET MARKING	30 lbs 13.6 kg	8, 16	Illuminating targets.	
WEAPON	TYPE	IMAGE				
MK	HIGH & LOW DRAG					
	20	HARD TARGET	222.3 lbs 490 kg	1-4, 6, 8	High-drag HEAT.	
	81	SOFT TARGET	250 lbs 113.4 kg	2, 4, 8, 12, 16, 18, 20	High-explosive, low-drag.	
	82	LIGHT STRUCTURE	500 lbs 226.8 kg		Mk-82 with high-drag fin kit.	
	82 SE				Mk-82 with high-drag ballute kit.	
	82 AIR					
1B, 3, 4, 5, 6, 8B	83	MEDIUM STRUCTURE	1000 lbs 453.6 kg	1-2, 6, 9, 12	High-explosive, low-drag.	
	84	HARD STRUCTURE	2000 lbs 907.2 kg	1-4		
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	

## AIR TO GROUND - PODS

POD	TYPE	IMAGE		
STATION	VERSION	WEIGHT	INFO	
AN/AAQ	TARGETING			
1B, 8B	14 LANTIRN	754 lbs 342 kg	IR/Laser target spotting and marking pod.	

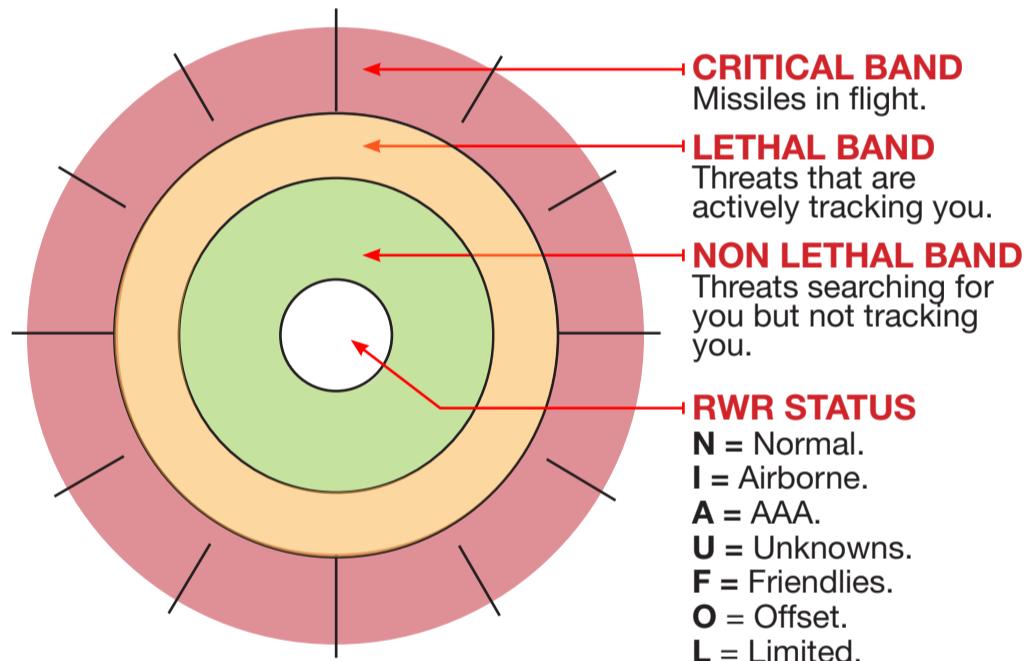
## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
<b>AN/ASQ</b>	TRAINING		
STATION	VERSION	WEIGHT	INFO
<b>1A, 8A</b>	T50 TCTS	139 lbs 63 kg	Recording/simulation pod.
POD	TYPE	IMAGE	
<b>SMOKEWINDER</b>	SMOKE		
STATION	VERSION	WEIGHT	INFO
<b>1A, 8A</b>		441 lbs 200 kg	Smoke pod for wing tip pylons.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>300 GAL</b>	<b>2, 7</b>	<b>110 lbs 49.9 kg</b>	

## F-14 TOMCAT RWR

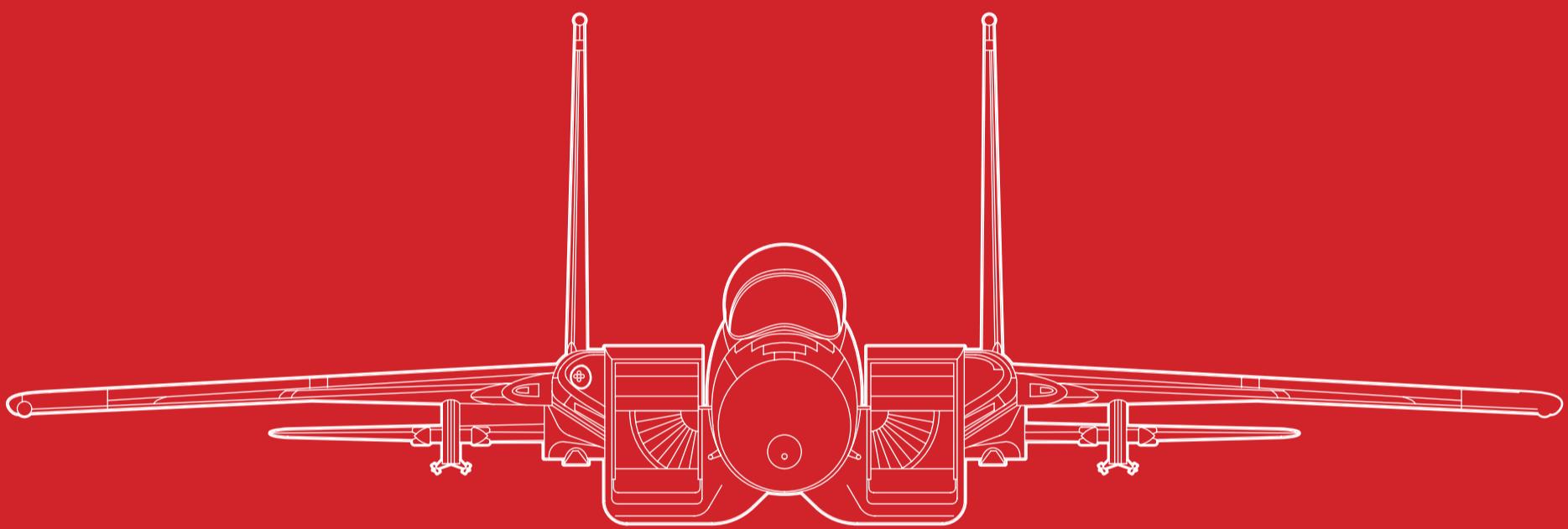


## RWR SYMOLOGY

2	SA-2	23	MiG-23	AN	AN-26B	HA	Hawk	RO	Roland
3	SA-3	24	Su-24	AP	AH-64D	HK		S	IL13 & 55G6 EWR
6	SA-6	25	MiG-25	B1	B-1	HP	Oliver Hazard Perry	S3	S-3
8	SA-8	29	MiG-29, Su-27, Su-33	BB	S-300	HU	DDG-171	SH	SH-60B
10	SA-10	30	Su-30	BD		HX	Ka-27	SD	S-11 Snow Drift
11	SA-11	31	MiG-31	BE	Tu-95 or Tu-142	IL	IL-76, IL-78	SN	PRW-11 Side Net
12	S-300	34	Su-34	BF	Tu-22	KC	KC-130, KC-135	SV	Slava
13	SA-13, C130	39	Su-39	BJ	Tu-160	KJ	KJ-2000	T	ATC Radar
14	F-14	50	A-50	CS	S-300	KK	Krivak 3	TC	Ticonderoga
15	SA-15, F-15	52	B-52	DE	Dog Ear	KV	Kirov	TT	Tarantul
16	F-16	76	IL-76	E2	E-2C	M	Missile	TW	Tarawa
17	C-17	78	IL-78	E3	E-3	M2	M-2000	Y1	FFG-538
18	F/A-18	95	Tu-95	F4	F-4	N	Ship Nav Radar		
19	SA-19, MiG19	A	Gepard, Vulcan, Shilka	F5	F-5	NE	Neustrashimy		
21	MiG-21	AB	Arleigh Burke	GR	Grisha 5	NZ	Nimitz		
22	Tu-22	AK	Admiral Kuznetsov	GZ	DDG-168	PT	Patriot		

 SURFACE SHIP

# AIRCRAFT QUICK REFERENCE



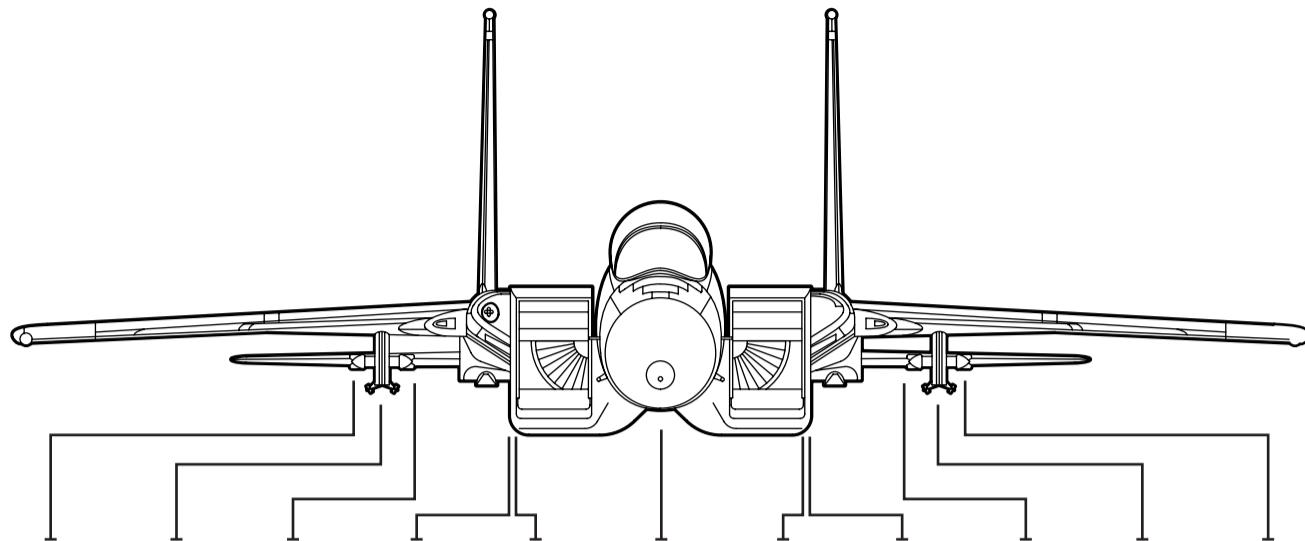
**F-15C  
EAGLE**

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# F-15C EAGLE

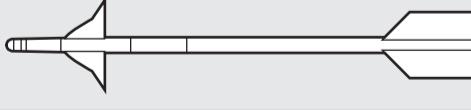
WEIGHT	CLEAN	29,498 LBS
	MAX	68,002 LBS
TAKE OFF	CLEAN	130 KTS
	LOADED	150 KTS
LANDING	FLAPS	250 KTS
	GEAR	230 KTS
	GROUND	150 KTS
TOP SPEED	SEA LEVEL	MACH 1.2
	45,000 FT	MACH 2.5
MAX ALTITUDE		58,000 FT
MAX G		9+ G
MAXIMUM TURN RATE	CLEAN	350 KTS
RADAR MAX RANGE		160 NM
GUN	940 ROUNDS	
COUNTER MEASURES	CHAFF	120
	FLARE	60

WEAPONS  
AVAILABLE  
ON STATION | 1 ●



STATION		11	10	9	8	7	6	5	4	3	2	1
AIR TO AIR WEAPONS	AIM-7	E				●	●		●	●		
		F			●	●		●	●			
		M			●	●		●	●			
		MH			●	●		●	●			
	AIM-9	L	●		●					●		●
		M	●		●					●		●
		P	●		●				●		●	
		P5	●		●				●		●	
	AIM-120	B	●		●	●	●	●	●	●	●	
		C-5	●		●	●	●	●	●	●	●	
PODS	AN/ASQ	T-50 TCTS	●									
	SMOKEWINDER		●									
FUEL TANK	610 GAL			●			●				●	

## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE			NAME	RANGE		
AIM-7	SEMI-ACTIVE RADAR				SPARROW	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO		
4, 5, 7, 8	E	24 nm 45 km	ALL	1-4	1970	First model.		
	F	38 nm 70 km			1976	Improved range.		
	M				1982	Improved warhead.		
	MH				1985	Improved tracking and loft.		
WEAPON	TYPE	IMAGE			NAME	RANGE		
AIM-9	INFRARED				SIDEWINDER	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO		
1, 3, 9, 10	L	10 nm 18.5 km	ALL	1-4	1977	9G launch capable, CM resistant.		
	M				1982	Improved slightly over L.		
	P		REAR		1975	Improved over B.		
	P5		LMT FRONT		1975	Improved over P.		

WEAPON	TYPE	IMAGE				NAME	RANGE
<b>AIM-120</b>	ACTIVE RADAR					<b>AMRAAM</b>	MEDIUM
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
<b>1, 3, 4, 5, 7, 8, 9, 11</b>	B	40 nm 75 km	ALL	1-8	1994	Improved variant over A.	
	C-5	60 nm 111 km		1-8	1996	Smaller control surfaces over B.	

### AIR TO GROUND - PODS

POD	TYPE	IMAGE						
<b>AN/ASQ</b>	TRAINING							
STATION	VERSION	WEIGHT	INFO					
<b>1, 11</b>	T-50 TCTS	139 lbs 63 kg	Recording/simulation pod.					
POD	TYPE	IMAGE						
<b>SMOKE WINDER</b>	SMOKE							
STATION	VERSION	WEIGHT	INFO					
<b>1, 11</b>		441 lbs 200 kg	Smoke pod for wing tip pylons.					

### FUEL TANKS

TANK	STATION	WEIGHT	IMAGE	
<b>610 GAL</b>	<b>2, 6, 10</b>	320 lbs 145.2 kg		

# AIRCRAFT QUICK REFERENCE



## F-16CM VIPER BLOCK 50

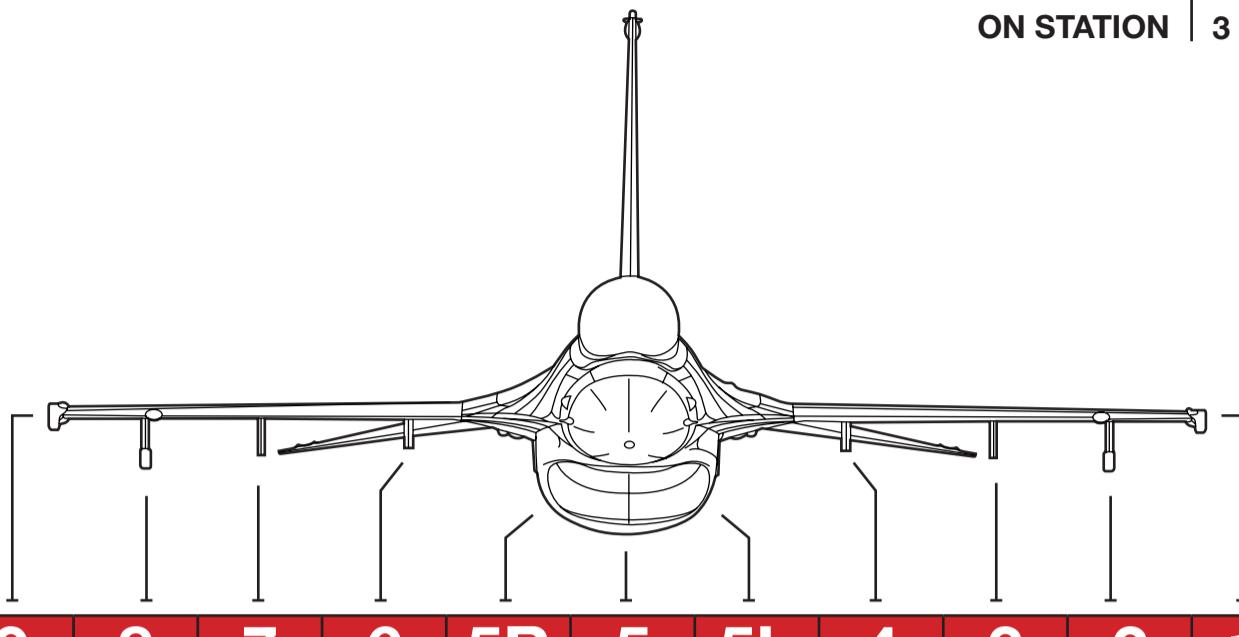
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# F-16CM VIPER BLOCK 50

WEIGHT	CLEAN	19,899 lbs	WEAPONS AVAILABLE ON STATION									
	MAX	48,000 lbs <th>1</th> <th>2</th> <th>3</th> <th>1</th> <th>2</th> <th>3</th> <th>1</th> <th>2</th> <th>3</th> <th></th>	1	2	3	1	2	3	1	2	3	
TAKE OFF	CLEAN	128 KTS										
	44,000 lbs	198 KTS										
LANDING	FLAPS	AUTO										
	GEAR	200 KTS										
TOP SPEED	LOW	800 KTS										
	30,000	2.05 MACH										
MAX ALTITUDE		59,000 FT										
MAX G	CLEAN	+9G	-3G									
MAXIMUM TURN RATE	CLEAN	397 KTS										
RADAR	MAX RNG	120 nm										
GUN	512 ROUNDS											
COUNTER MEASURES	CHAFF	60										
	FLARES	60										
STATION		9	8	7	6	5R	5	5L	4	3	2	1
AIR TO AIR MISSILES	AIM-9	L	●	●	●					●	●	●
		M	●	●	●					●	●	●
		M-CAP	●	●	●					●	●	●
		X	●	●	●					●	●	●
	AIM-120	B	●	●	●					●	●	●
		C-5	●	●	●					●	●	●
AIR TO GROUND MISSILES	AGM-65	D			○	●	●			●	●	○
		G				●				●		
		H			○	●	●	●		●	●	○
		K				●				●		
	AGM-88	C				●				●	●	
	AGM-154	A				●	●			●	●	
ROCKETS	HYDRA	M151			●	●				●	●	
		M156			●	●				●	●	
		MK5			●	●				●	●	
		MK61			●	●				●	●	
		WTU-1/8			●	●				●	●	
BOMBS	BDU	33			○	○				○	○	
	CBU	87			●	●	○	●	●	●	●	
		97			●	●	○	●	●	●	●	
		103			●	●				●	●	
		105			●	●				●	●	
	GBU	10			●	●				●	●	
		12			●	●	●			●	●	
		31(V)1/B			●					●		
		31(V)3/B			●					●		
		38			●	●	●			●	●	
PODS	MK	82			○	●	●	○	●	●	●	
		82 SE			○	●	●	○	●	●	●	
		82 AIR			○	●	●	○	●	●	●	
		84			●	●				●	●	
	ALQ	184			●			●		●		
PODS	AN/AAQ	28 LITENING					●					
	AN/ASQ	213 HTS							●			
	AN/ASQ	T50 TCTS	●	●	●					●		
	MXU	648			●	●			●	●	●	
	FUEL TANKS		300 GAL					●				
		370 GAL					●			●		



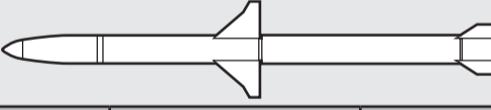
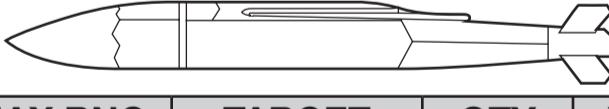
WEAPONS AVAILABLE ON STATION

1	●
2	○
3	○

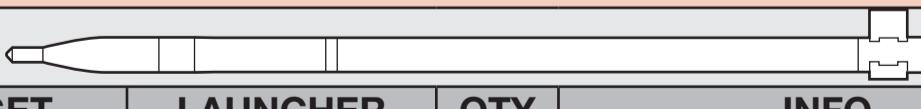
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE
<b>AIM-9</b>	INFRARED					<b>SIDEWINDER</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 2, 3, 7, 8, 9	L	10 nm 18.5 km	ALL	1-6	1977	9G launch capable, CM resistant	
	M				1982	Improved slightly over L	
	CAP					Training AIM-9M	
	X	20 nm 37 km	ALL	1-6	2003	High off boresight	
WEAPON	TYPE	IMAGE				NAME	RANGE
<b>AIM-120</b>	ACTIVE RADAR					<b>AMRAAM</b>	MEDIUM
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 2, 3, 7, 8, 9	B	40 nm 75 km	ALL	1-6	1994	Improved variant over A	
	C-5				1996	Smaller control surfaces over B	

## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME
<b>AGM-65</b>	AIR TO SURFACE					<b>MAVERICK</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
3, 7	D	8 nm 15 km	ANTI-ARMOR	1-6	1975	Infrared Seeker. Shaped charge.
	G	15 nm 27 km	HARD TARGET	1-2		Infrared Seeker. Penetrating blast fragmentation.
	H	5 nm 9 km	ANTI-ARMOR	1-6		Electro-Optical TV. Shaped charge.
	K	5 nm 9 km	HARD TARGET, SHIP	1-2	1986	Electro-Optical TV. Shaped charge.
WEAPON	TYPE	IMAGE				NAME
<b>AGM-88</b>	ANTI-RADIATION					<b>HARM</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
3, 4, 6, 7	C	80 nm 150 km	RADAR	1-2	1983	Can detect and home in on multiple radar antennas or transmitters.
WEAPON	TYPE	IMAGE				NAME
<b>AGM-154</b>	GLIDE BOMB					<b>JSOW</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
3, 7	A	12 - 70 nm 22 - 130 km	SOFT TARGET	1-4	1998	GPS/INS guided. 145 bomb submunitions.

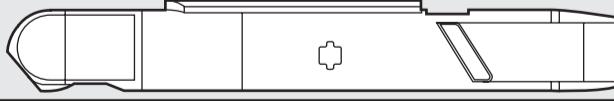
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE			
<b>HYDRA</b>	2.75 in 70 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
3, 4, 6, 7	M151	SOFT TARGET	LAU-3/61	19, 38, 57, 76	High Explosive.
	M156	TARGET MARKING			White phosphorus.
	MK5	HARD TARGET			High Explosive Anti-Tank warhead.
	MK61	TARGET MARKING			Smoke.
	WTU-1/8	PRACTICE TARGET			Inert warhead for training purposes.

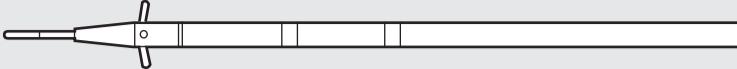
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
<b>BDU</b>	TRAINING					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
3, 4, 6, 7	33	SOFT TARGET	25 lbs 11.3 kg	3, 6	Training smoke.	
WEAPON	TYPE	IMAGE				
<b>CBU</b>	CLUSTER					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
3, 4, 6, 7	87 CEM	SOFT TARGET	950 lbs 431 kg	1-6	High-explosive, high-drag.	
	97 SFW	ANTI-ARMOR	1000 lbs 453.6 kg		High-drag.	
3, 7	103	SOFT TARGET	950 lbs 431 kg	1-4	INS-guided, wind-corrected CBU-87.	
	105	ANTI-ARMOR	1000 lbs 453.6 kg		INS-guided, wind-corrected CBU-97.	
WEAPON	TYPE	IMAGE				
<b>GBU</b>	LASER GUIDED					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
3, 4, 6, 7	10	HARD TARGET	2,000 lbs 907.2 kg	1-2	Laser guided Mk-84.	
	12	MED STRUCTURE	500 lbs 226.8 kg	1-4	Laser guided Mk-82.	
3, 7	31(V)1/B	HARD TARGET	2,000 lbs 907.2 kg	1-2	INS guided Mk-84.	
	31(V)3/B				INS guided BLU-109 hardened penetration.	
	38	MED STRUCTURE	500 lbs 226.8 kg	1-4	INS guided Mk-82.	
WEAPON	TYPE	IMAGE				
<b>MK</b>	HIGH & LOW DRAG					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
3, 4, 6, 7	82	LIGHT STRUCTURE	500 lbs 226.8 kg	1-6	High-explosive, low-drag.	
	82 SE		1000 lbs 453.6 kg		Mk-82 with high-drag fin kit.	
	82 AIR		2000 lbs 907.2 kg		Mk-82 with high-drag ballute kit.	
	84	HARD TARGET	2000 lbs 907.2 kg	1-2	High-explosive, low-drag.	

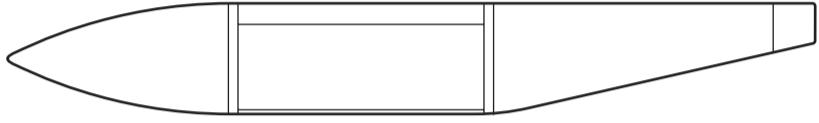
## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
<b>ALQ</b>	ECM					
STATION	VERSION	WEIGHT	INFO			
3, 5, 7	184	648 lbs 294 kg	Electronic countermeasures pod.			
	184 LONG	805 lbs 365 kg				
POD	TYPE	IMAGE				
<b>AN/AAQ</b>	TARGETING					
STATION	VERSION	WEIGHT	INFO			
5R	28 LITENING	458 lbs 207.7 kg	IR/Laser target spotting and marking pod.			
POD	TYPE	IMAGE				
<b>AN/ASQ</b>	TARGETING					
STATION	VERSION	WEIGHT	INFO			
5L	213 HTS	126 lbs 57 kg	HARM targeting pod. Used to locate SAM radar emitters.			

## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
AN/ASQ	TRAINING		
STATION	VERSION	WEIGHT	INFO
1, 2, 3, 7, 8, 9	T50 TCTS	139 lbs 63 kg	Recording/simulation pod.
POD	TYPE	IMAGE	
MXU	TRAVEL		
STATION	VERSION	WEIGHT	INFO
3, 4, 5, 6, 7	648	662 lbs 300.3 kg	Travel/cargo pod.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
300 GAL	5	770 lbs 349.3 kg	
370 GAL	4, 6	556 lbs 252.2 kg	

## HOTAS

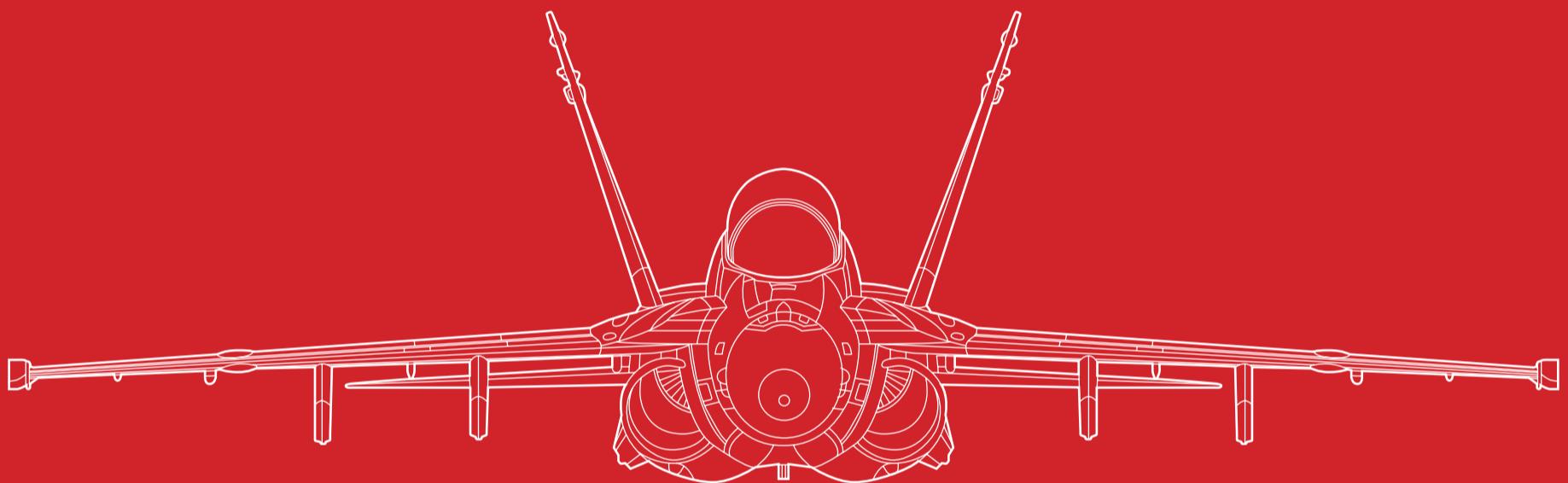
SOI	TMS						SOI	DMS					
	FORWARD	AFT	LEFT		RIGHT			FORWARD	AFT	LEFT	RIGHT		
	SHORT	SHORT	SHORT	LONG	SHORT	LONG		SHORT	SHORT	SHORT	SHORT		
TGP	POINT TRACK	TARGET REJECT	POLARITY SWAP	INTERROGATE ALL	INTERROGATE TARGET	AREA TRACK	TGP	SOI TO HUD	SOI MFD SWAP	NEXT LEFT MFD	NEXT RIGHT MFD		
WPN	TRACK		TWS BUG STEP			FCR							
FCR	RWS SPOTLIGHT ACM BORE					HUD	SOI TO MFD						
HUD	DTOS/EO-VIS DESIGNATE												
HSD	DESIGNATE	DROP											

SOI	CMS				IMAGE BASED VERSION			
	FORWARD	AFT	LEFT	RIGHT				
ALL	DISPENSE MANUAL SELECTED PROGRAM	GIVES CONSENT TO SEMI AND ENABLES AUTO DISPENSE MODE	DISPENSE PROGRAM 6	DISABLE AUTO DISPENSE MODE	The full sized image of this can be found on this <a href="#">website</a> to download.			

## HARM HAS/HTS TABLE

HAS	HAD	ID	RWR	NAME	HAS	HAD	ID	RWR	NAME	HAS	HAD	ID	RWR	NAME
1	103	CS	SA-10 SR	5	2	129	5	SA-5 SR	7	125	RT	RAPIER FSA	RAPIER FSA	
	104	BB	SA-10 SR		4	101	S	EWR				201	RO	ROLAND ADS
	107	SD	SA-11 SR		102	301	SW	CV KUZNETSOV				203	HK	HAWK SR
	110	10	SA-10 TR		303	T2	CG MOSKVA	306	FF GRISHA			204	HK	HAWK TR
	115	11	SA-11 LN		309	TP	FF REZKY	312	FSG MOLNIYA			205	RO	ROLAND SR
2	1	119	15	SA-15 TOR	8	313	HN	CGN VELIKIY	10	206	HK	HAWK CWAR	HAWK CWAR	
	2	117	8	SA-8 OSA		319	TP	FFB NEUSTRA				207	A	AAA GEPARD
	109	DE	CP SBORKA	320	SW	CV KUZNETSOV	306	FF GRISHA	208			AAA VULCAN		
	3	120	19	SA-19 TUNGUSKA	408	PS	TYPE 071	315	AE			TICONDEROGA		
	121	A	AAA SHILKA	409	MR	TYPE 052B	409	MR	401			49	OLIVER PERRY	
3	2	108	6	SA-6 STR	10	410	HN	TYPE 052C	SS	402	SS	CVN-70 VINSON	CVN-70 VINSON	
	118	13	SA-13 STRELA	411	MR	TYPE 054A	408	PS	403			SS	CVN-71 ROOSEVELT	
	122	5	SR P-19	410	HN	TYPE 052C	409	MR	404				CVN-72 LINCOLN	
	123	3	SA-3 TR	411	MR	TYPE 054A	410	MR	405				CVN-73 WASHINGTON	
	126	2	SA-2 TR	407	7	HQ7 LN	411	MR	406				CVN-74 STENNIS	
1	127	7	HQ	HQ7 STR	202	P	PATRIOT STR	407	40	407	40	LHA TARAWA	LHA TARAWA	
	128	HQ	HQ7 STR	209	NS	NASAMS SR	408	AE	412			AE	DDG ARLEIGH BURKE	
	130	TS	SA-5 SR	7	124	RP	RAPIER FSA	409	SS			413	SS	CVN-75 TRUMAN

# AIRCRAFT QUICK REFERENCE



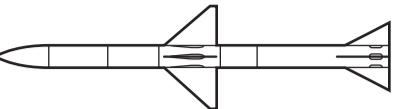
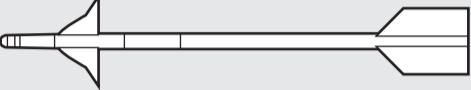
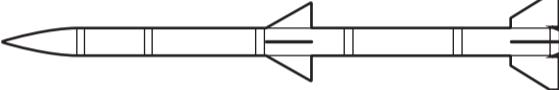
## F/A-18C HORNET

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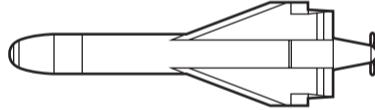
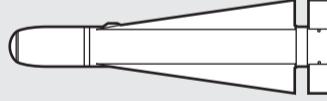
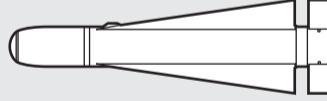
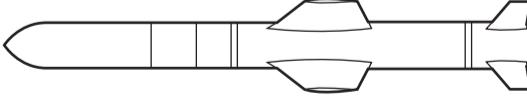
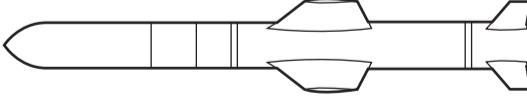
# F/A-18C HORNET

WEIGHT	CLEAN	25,093 LBS	* APPROXIMATELY 45,000 LBS.								WEAPONS AVAILABLE ON STATION	
	MAX	51,899 LBS	** CLEAN.									
TAKE OFF	CLEAN	130									1 2	
	LOADED	150										
LANDING	FLAPS	250									1 2	
	GEAR	250										
TOP SPEED	LOW ALT	766 KTS									1 2	
	HIGH ALT**	MACH 1.85										
MAX ALTITUDE		69,800 FT										
MAX G		+9G										
MAX TURN RATE	CLEAN**	361 KTS										
RADAR	MAX RNG	160 NM										
GUN	578 ROUNDS											
COUNTER MEASURES	CH:60	FL:60										
STATION			10	9	8	7	6	5	4	3	2	1
AIR TO AIR MISSILES	AIM-7	F			●	●	●		●	●	●	
		M			●	●	●		●	●	●	
		MH			●	●	●		●	●	●	
	AIM-9	L	●		●●						●●	●
		M	●●		●●						●●	●
		X	●		●●						●●	●
	AIM-120	B			●●	●●	●		●	●●	●●	
		C-5			●●	●●	●		●	●●	●●	
AIR TO GROUND MISSILES	AGM-62				●							●
	AGM-65	E			●		●			●		
		F			●		●			●		
	AGM-84	D			●		●			●		
		E			●		●			●		
		H			●		●			●		
	AGM-88	C			●		●			●		●
	AGM-154	A			●●		●●			●●		
		C			●●		●●			●●		
ROCKETS	HYDRA	M151			●●		●●			●●		
		MK5			●●		●●			●●		
	ZUNI	MK71			●●		●●			●●		
BOMBS	BDU	45			●●		●●		●●	●●	●●	
		45B			●●		●●		●●	●●	●●	
		45LG			●●		●●			●●	●●	
	CBU	99			●●		●●		●●	●●	●●	
		10			●		●			●		
	GBU	12			●●		●●			●●	●●	
		16			●		●			●		
		24			●		●			●		
		31(V)1/B			●		●			●		
		31(V)2/B			●		●			●		
		31(V)3/B			●		●			●		
		31(V)4/B			●		●			●		
		32(V)2/B			●		●			●		
		38			●●		●●			●●	●●	
	MK	20			●●		●●		●●	●●	●●	
		82			●●		●●		●●	●●	●●	
		82 SE			●●		●●		●●	●●	●●	
		82Y			●●		●●		●●	●●	●●	
		83			●●		●●		●	●●	●●	
		84			●		●		●	●	●	
PODS	AN/AAQ	28 LITENING						●		●		
	AN/ASQ	228 ATFLIR							●			
		T50 TCTS		●								
	AWW	13 DATALINK			●		●		●		●	
	SMOKE		●									
FUEL TANK		330 GAL					●			●		

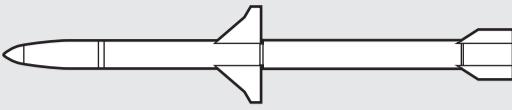
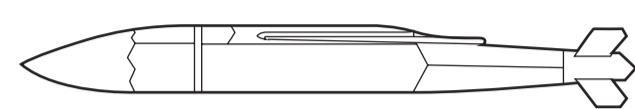
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>AIM-7</b>	SEMI-ACTIVE RADAR					<b>SPARROW</b>	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
2, 3, 4, 6, 7, 8	F	38 nm 70 km	ALL	1-6	1976	Improved range.			
	M				1982	Improved warhead.			
	MH				1985	Improved tracking and loft.			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>AIM-9</b>	INFRARED					<b>SIDEWINDER</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 7, 8	L	10 nm 18.5 km	ALL	1-6	1977	9G launch capable, CM resistant.			
	M				1982	Improved slightly over L.			
	X				2003	High off boresight.			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>AIM-120</b>	ACTIVE RADAR					<b>AMRAAM</b>	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
2, 3, 4, 6, 7, 8	B	40 nm 75 km	ALL	1-10	1994	Improved variant over A.			
	C-5				1996	Smaller control surfaces over B.			

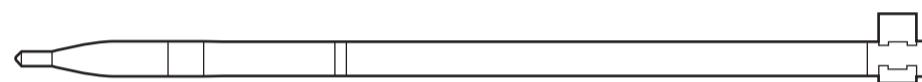
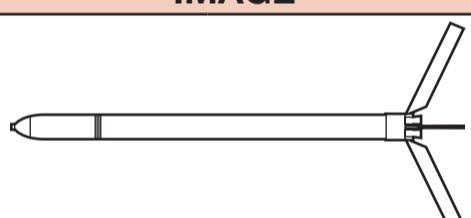
## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME	
<b>AGM-62</b>	GLIDE BOMB					<b>WALLEYE</b>	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO	
2, 8		30 nm 55.6 km	HARD TARGET	1-2	1972	TV guided 2000 lb bomb.	
WEAPON	TYPE	IMAGE				NAME	
<b>AGM-65</b>	AIR TO SURFACE					<b>MAVERICK</b>	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO	
2, 3, 7, 8	E	8 nm 15 km	HARD TARGET, SHIP	1-4	1975	Semi-active laser. Penetrating blast fragmentation.	
	F		HARD TARGET			Infrared Seeker. Penetrating blast fragmentation.	
WEAPON	TYPE	IMAGE				NAME	
<b>AGM-84</b>	ANTI-SHIP ANTI-STRUCTURE					<b>HARPOON</b>	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO	
2, 3, 7, 8	D	50 - 70 nm 92 - 130 km	SHIPS	1-4	1977	Active radar homing.	
	E		STATIONARY TARGET, SHIP		1990	SLAM. Standoff Land Attack Missile. Man-In-The-Loop (MITL) control.	
	H	120 - 155 nm 222 - 287 km	STATIONARY TARGET, SHIP		2000	SLAM-ER. Standoff Land Attack Missile-Expanded Response. Man-In-The-Loop (MITL) control.	

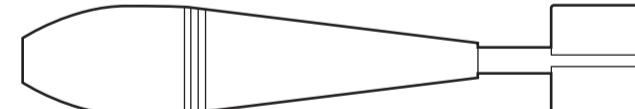
## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME
<b>AGM-88</b>	ANTI-RADIATION					<b>HARM</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
2, 3, 7, 8	C	80 nm 150 km	RADAR	1-4	1983	Can detect and home in on multiple radar antennas or transmitters.
WEAPON	TYPE	IMAGE				NAME
<b>AGM-154</b>	GLIDE BOMB					<b>JSOW</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
2, 3, 7, 8	A	12 - 70 nm 22 - 130 km	SOFT TARGET	1-8	1998	GPS/INS guided. 145 bomb submunitions.
	C		HARD TARGET			GPS/INS guided.

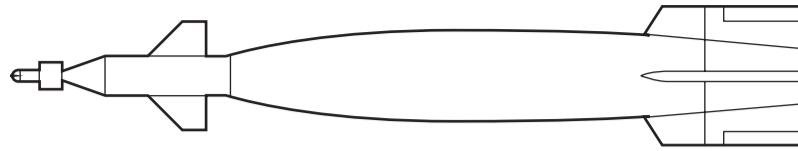
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE				
<b>HYDRA</b>	2.75 in 70 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 7, 8	M151	SOFT TARGET	LAU-68/131	7, 14, 19, 21, 28, 38, 57, 76, 95, 114, 133, 152	High Explosive.	
	MK5	HARD TARGET	LAU-68/131		High explosive Anti-Tank warhead.	
WEAPON	SIZE	IMAGE				
<b>ZUNI</b>	5 in 127 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 7, 8	MK71	SOFT TARGET	LAU-10	4, 8, 12, 16, 20, 24, 28, 32	High explosive warhead.	

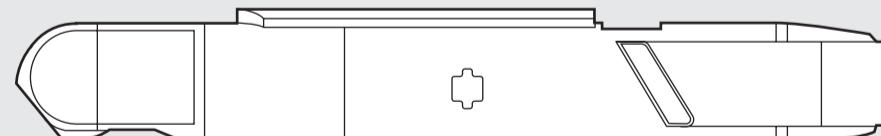
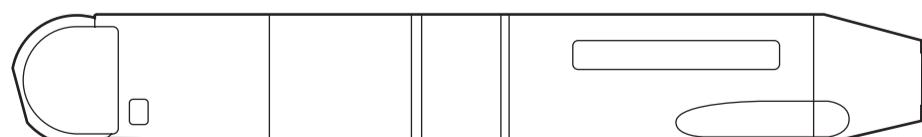
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>BDU</b>	TRAINING				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 7, 8	45	TRAINING TARGET	500 lbs 226.8 kg	1-10	Training smoke. Mk-82.
	45B				
2, 3, 7, 8	45LG			1-8	Training smoke. GBU-12.
WEAPON	TYPE	IMAGE			
<b>CBU</b>	CLUSTER				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 7, 8	99	HARD TARGET	490 lbs 222.3 kg	1-10	High-drag HEAT.

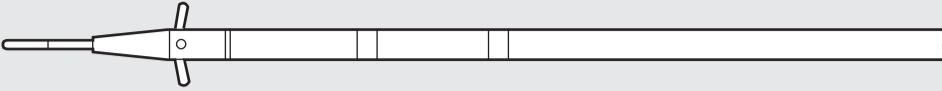
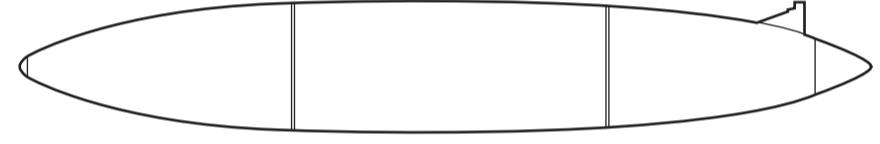
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
<b>GBU</b>	LASER GUIDED					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 7, 8	10	HARD STRUCTURE	2,000 lbs 907.2 kg	1-4	Laser guided Mk-84.	
	12	MEDIUM STRUCTURE	500 lbs 226.8 kg	1-8	Laser guided Mk-82.	
	16	HARD STRUCTURE	1,000 lbs 453.6 kg	1-4	Laser guided Mk-83.	
	24		2,000 lbs 907.2 kg		Laser guided Mk-84 with penetrator.	
	31(V)1/B				INS guided Mk-84.	
	31(V)2/B	MEDIUM STRUCTURE	1,000 lbs 453.6 kg	1-4	INS guided BLU-109 hardened penetration.	
	31(V)3/B				INS-guided Mk-83.	
	31(V)4/B				INS guided Mk-82.	
	32(V)2/B		500 lbs 226.8 kg	1-8	INS guided Mk-82.	
WEAPON	TYPE	IMAGE				
<b>MK</b>	HIGH & LOW DRAG					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 7, 8	20	HARD TARGET	222.3 lbs 490 kg	1-10	High-drag HEAT.	
	82	LIGHT STRUCTURE	500 lbs 226.8 kg		High-explosive, low-drag.	
	82 SE				Mk-82 with high-drag fin kit.	
	82Y				Mk-82 with higher-drag ballute kit.	
	83	MEDIUM STRUCTURE	1000 lbs 453.6 kg		High-explosive, low-drag.	
	84	HARD STRUCTURE	2000 lbs 907.2 kg	1-5		

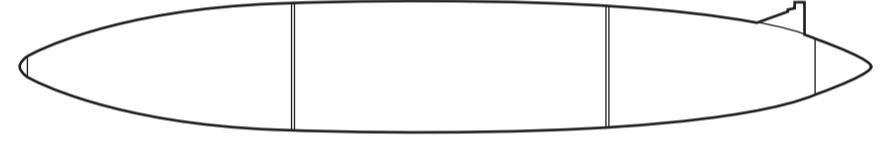
## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
<b>AN/AAQ</b>	TARGETING					
STATION	VERSION	WEIGHT	INFO			
4, 5	28 LITENING	458 lbs 207.7 kg	IR/Laser target spotting and marking pod.			
POD	TYPE	IMAGE				
<b>AN/ASQ</b>	TARGETING					
STATION	VERSION	WEIGHT	INFO			
4	228	336 lbs 152.4 kg	ATFLIR targeting pod.			

## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
<b>AN/ASQ</b>	TRAINING		
STATION	VERSION	WEIGHT	INFO
1, 9	T50 TCTS	139 lbs 63 kg	Recording/simulation pod.
POD	TYPE	IMAGE	
<b>AWW</b>	DATA LINK		
STATION	VERSION	WEIGHT	INFO
2, 3, 5, 7, 8	13 DATALINK	752 lbs 341.1 kg	Data link pod for MitL weapons guidance.
POD	TYPE	IMAGE	
<b>SMOKE</b>	SMOKE		
STATION	VERSION	WEIGHT	INFO
10			Smoke pod.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>330 GAL</b>	3, 5, 7	430 lbs 195 kg	

# AIRCRAFT QUICK REFERENCE

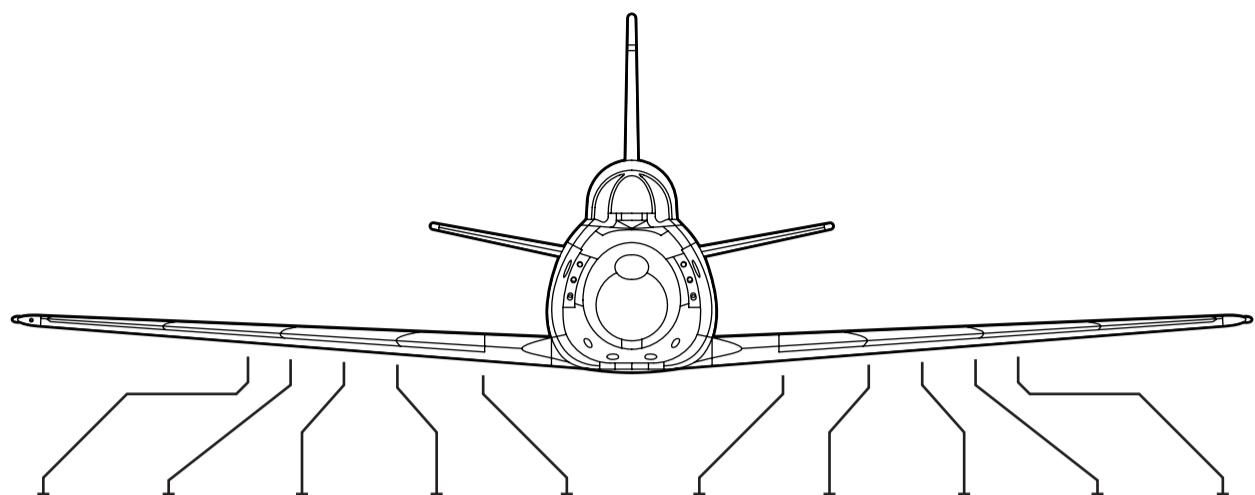


## F-86F SABRE

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# F-86F SABRE

WEIGHT	CLEAN	14,434 lbs	* AT SEA LEVEL	WEAPONS AVAILABLE ON STATION	1					
	MAX	20,611 lbs			2					
TAKE OFF	CLEAN	120 KTS								
	LOADED	140 KTS								
LANDING	GEAR	145 KTS								
	FLAPS	145 KTS								
	GROUND	120 KTS								
TOP SPEED		600 KTS*								
MAX ALTITUDE		52,000 FT								
MAX G		7G								
MAXIMUM TURN RATE	CLEAN	264 KTS								
RADAR MAX RANGE		GUN RNG								
GUN	1,800 ROUNDS									
COUNTER MEASURES	CHAFF	NA								
	FLARE	NA								
STATION	10	9	8	7	6	5	4	3	2	1
AIR TO AIR MISSILES	AIM-9	B				●	●			
ROCKETS	HVAR	M	●	●	●	●		●	●	●
BOMBS	AN	M64			●		●			
	M117				●		●			
PODS	HVAR	SMOKE	●	●	●	●		●	●	●
FUEL TANK	120 GAL		●		●		●			●
	200 GAL		●							●



AIR TO AIR WEAPONS					
WEAPON	TYPE	IMAGE		NAME	RANGE
AIM-9	INFRARED			SIDEWINDER	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR
5,6	B	2.5 nm 4.6 km	REAR	1-2	1956
Early model.					

AIR TO GROUND - ROCKETS					
WEAPON	SIZE	IMAGE			
HVAR	5 in 127 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
1, 2, 3, 4, 7, 8, 9, 10		SOFT TARGET		4,8,12,16	High explosive warhead.

AIR TO GROUND - BOMBS					
WEAPON	TYPE	IMAGE			
AN	FREE FALL				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
4,7	M64	LIGHT STRUCTURE	500 lbs 227 kg	1-2	High-explosive.

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
<b>M117</b>	<b>FREE FALL</b>				
4,7		MEDIUM STRUCTURE	750 lbs 340 kg	1-2	High-explosive.

## AIR TO GROUND - PODS

POD	TYPE	IMAGE		
STATION	VERSION	WEIGHT	INFO	
<b>SMOKE</b>	<b>SMOKE</b>			
1, 2, 3, 4, 7, 8, 9, 10		220 lbs 100 kg		Smoke.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>120 GAL</b>	<b>1,10</b>	<b>110 lbs</b>	
<b>200 GAL</b>	<b>1,10</b>	<b>154 lbs</b>	

# AIRCRAFT QUICK REFERENCE



**JF-17  
THUNDER**

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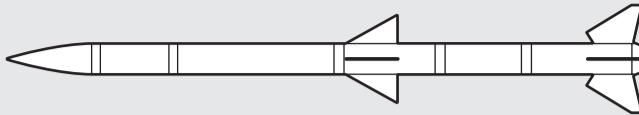
# JF-17 THUNDER

WEIGHT	CLEAN	14,520 lbs	* STANDARD MIXED LOADOUT.					WEAPONS AVAILABLE ON STATION	1
	MAX	27,558 lbs							2
TAKE OFF	CLEAN	120 KTS							
	LOADED*	140 KTS							
LANDING	FLAPS/GEAR	300 KTS							
	GROUND	150 KTS							
TOP SPEED	CHUTE	135 KTS							
	LOW ALT	702 KTS							
TOP SPEED	HIGH ALT	1.6 MACH							
	MAX ALTITUDE		55,500 FT						
MAX G		+8 G -3 G							
MAXIMUM TURN RATE	CLEAN	355 KTS							
RADAR	MAX RNG	80 NM							
GUN	180 ROUNDS								
COUNTER MEASURES	CHAFF	36							
	FLARE	32							
STATION		7	6	5	4	3	2	1	
AIR TO AIR MISSILES	PL-5	EII	●	●				●	●
	SD-10			●●○				○○●	
AIR TO GROUND MISSILES	C-701	IR		●				●	
		T		●				●	
	C-802	AK			●			●	
	CM-802	AKG			●			●	
	GB-6	6 HE			●			●	
		6 SFW			●			●	
	LD	10	●●○					○●●	
ROCKETS	LS-6	500	●●	●			●	●●	
	BRM	1		●				●	
	HYDRA	MK5		○				○	
BOMBS	GBU	10			●	●	●		
		12	●●○	●	●	●	●	○○●	
		16		●	●	●	●		
	MK	20	●●○	●	●	●	●	○○●	
		82	●●○	●	●	●	●	○○●	
		82 SE	●●○	●	●	●	●	○○●	
		83	●	●	●	●	●	●	
		84		●	●	●	●		
		TYPE-200	A	●●○	●	●	●	○○●	
PODS	DATALINK			●				●	
	KG / SPJ	600				●			
	SMOKE GENERATOR		●	●				●	
	WMD7			●				●	
FUEL TANK		800L		●	●	●	●		
		1100L		●		●			

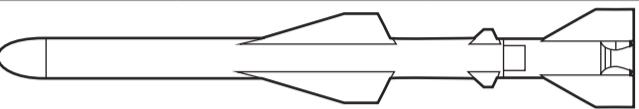
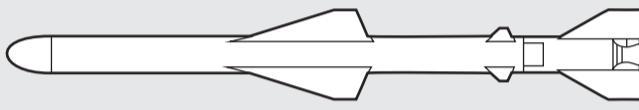
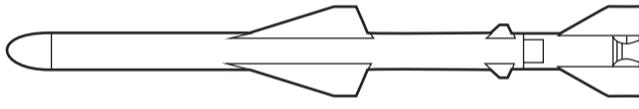
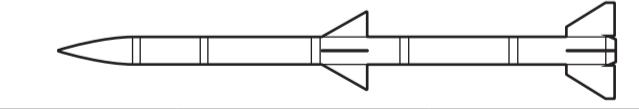
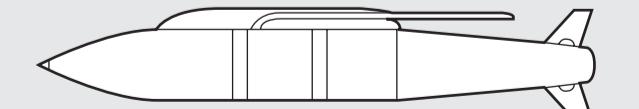
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE		NAME	RANGE	
PL-5	INFRARED			THUNDERBOLT	SHORT	
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO
1, 2, 6, 7	EII	10 nm 18 km	ALL	1-4	1994	Based on the AA-2 Atoll

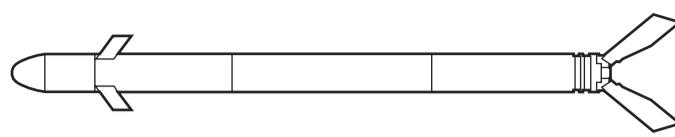
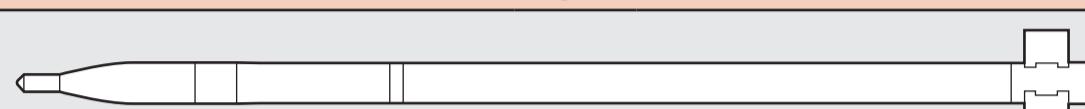
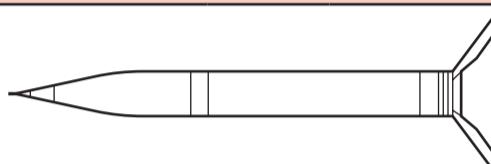
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE
<b>SD-10</b>	ACTIVE RADAR					<b>LIGHTNING</b>	MEDIUM
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
2, 6		50 nm 100 km	ALL	1-4	2005	Comparable to the AIM-120.	

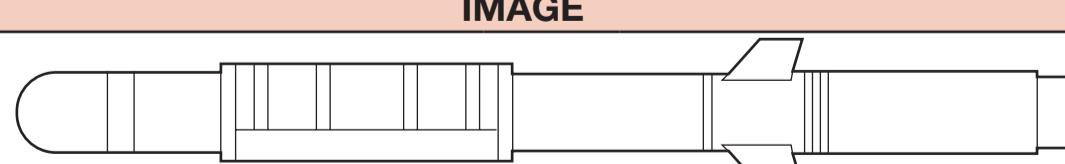
## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME				
<b>C-701</b>	AIR TO SURFACE									
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
2, 6	IR	8 nm 15 km	ANTI-ARMOR	1-2	2004	Infrared guidance. Similar to the AGM-65.				
	T					Passive homing TV guidance. Similar to the AGM-65.				
WEAPON	TYPE	IMAGE				NAME				
<b>C-802</b>	ANTI-SHIP					<b>SACCADE</b>				
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
3, 5	AK	97 nm 180 km	SHIP	1-2	1998	Active radar homing.				
WEAPON	TYPE	IMAGE				NAME				
<b>CM-802</b>	AIR TO SURFACE					<b>SACCADE</b>				
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
3, 5	AKG	97 nm 180 km	HARD TARGET	1-2	1998	Infrared seeker. Man-In-The-Loop (MITL) control.				
WEAPON	TYPE	IMAGE				NAME				
<b>GB-6</b>	GLIDE BOMB									
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
3, 5	6 HE	42 nm 77.7 km	SOFT TARGET	1-2	2006	GPS guided bomblets.				
	6 SFW		HARD TARGET			GPS guided hgh explosive warhead.				
			ANTI-ARMOR			GPS guided smart bomblets.				
WEAPON	TYPE	IMAGE				NAME				
<b>LD</b>	ANTI-RADIATION					<b>THUNDERBOLT 12</b>				
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
3, 5	10	60 nm 111 km	RADAR	1-2	2012	20 kg warhead.				
WEAPON	TYPE	IMAGE				NAME				
<b>LS-6</b>	GLIDE BOMB					<b>THUNDER STONE</b>				
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
2, 3, 5, 6	500	50 nm 92.6 km	HARD TARGET	1-4	2006	GPS Precision-guided munition.				

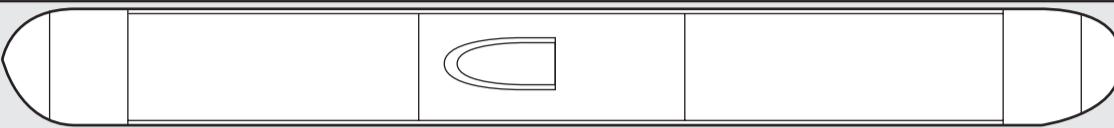
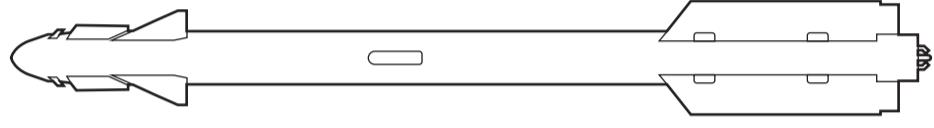
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE			
<b>BRM</b>	3.54 in 90 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
2, 6	1	SOFT TARGET	LAU-68	16,32	Laser Guided High Explosive.
WEAPON	SIZE	IMAGE			
<b>HYDRA</b>	2.75 in 70 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
2, 6	MK5	HARD TARGET	LAU-68	14,28	High explosive.
WEAPON	SIZE	IMAGE			
<b>UG</b>	3.54 in 90 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
2, 6		SOFT TARGET	LAU-68	16,32	High explosive Anti-Tank warhead.

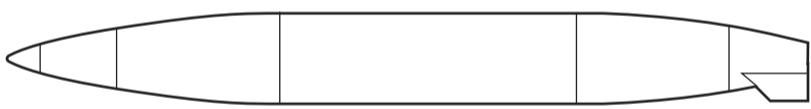
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
<b>GBU</b>	GUIDED					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
3, 4, 5	10	HARD STRUCTURE	2,000 lbs 907.2 kg	1-3	Laser guided Mk-84.	
2, 3, 5, 6	12	MEDIUM STRUCTURE	500 lbs 226.8 kg	1-6	Laser guided Mk-82.	
3, 4, 5	16	HARD STRUCTURE	1,000 lbs 453.6 kg	1-3	Laser guided Mk-83.	
WEAPON	TYPE	IMAGE				
<b>MK</b>	HIGH & LOW DRAG					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 6	20	HARD TARGET	222.3 lbs 490 kg	1-6	High-drag HEAT.	
	82	LIGHT STRUCTURE	500 lbs 226.8 kg		High-explosive, low-drag.	
	82 SE				Mk-82 with high-drag fin kit.	
2, 3, 4, 5, 6	83	MEDIUM STRUCTURE	1000 lbs 453.6 kg	1-5	High-explosive, low-drag.	
3, 4, 5	84	HARD STRUCTURE	2,000 lbs 907.2 kg	1-3		
WEAPON	TYPE	IMAGE				
<b>TYPE-200</b>	ANTI-RUNWAY					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 5, 6	A	RUNWAY	254 lbs 115 kg	1-6	Parachute deployed anti-runway bomb.	

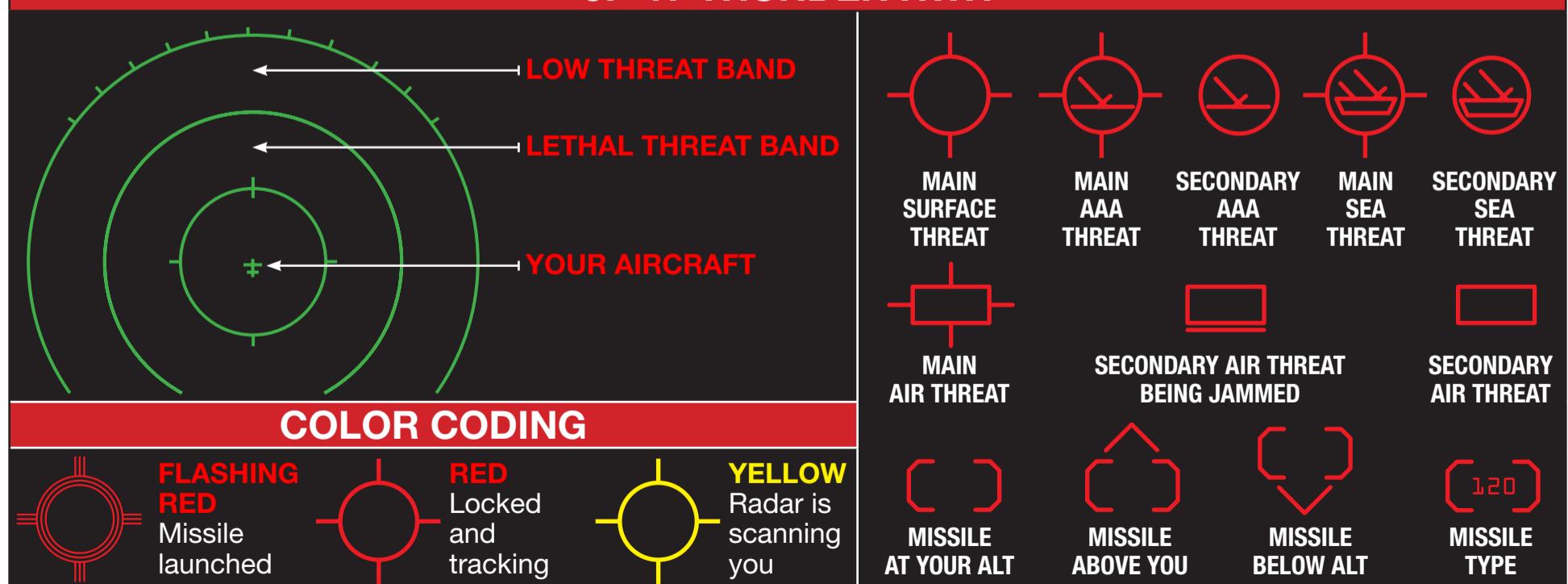
## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
<b>DATALINK</b>	TARGETING					
STATION	VERSION	WEIGHT	INFO			
2, 4, 6	2	651 lbs 295.3 kg	Data link pod for MitL weapons guidance.			
POD	TYPE	IMAGE				
<b>KG / SPJ</b>	COUNTER MEASURES					
STATION	VERSION	WEIGHT	INFO			
4	600	595 lbs 269.9 kg	Self-protection jammer pod.			
POD	TYPE	IMAGE				
<b>SMOKE</b>	SMOKE					
STATION	VERSION	WEIGHT	INFO			
1, 2, 4, 6, 7		1,025 lbs 464.9 kg	Smoke pod for wing tip pylons.			
POD	TYPE	IMAGE				
<b>WMD7</b>	TARGETING					
STATION	VERSION	WEIGHT	INFO			
2, 4, 6	99	651 lbs 295.3 kg	IR/Laser target spotting and marking pod.			

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>800L</b>	3, 4, 5	99 lbs 44.9 kg	
<b>1100L</b>	3, 5	165 lbs 74.8 kg	

## JF-17 THUNDER RWR



# AIRCRAFT QUICK REFERENCE



## L-39 ZA ALBATROS

CREATED BY GOLDWOLF

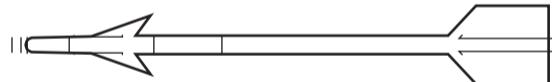
04/26/22

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# L-39 ZA ALBATROS

WEIGHT	CLEAN	7,968 LBS		WEAPONS AVAILABLE ON STATION	1
	MAX	12,346 LBS			2
TAKE OFF	CLEAN	100 KTS			
	LOADED	110 KTS			
LANDING	FLAPS	160 KTS			
	GEAR				
TOP SPEED	GROUND	100 KTS			
	LOW	702 KPH			
	20,000 FT	760 KPH			
	MAX ALTITUDE	37,729 FT			
	MAX G	+7.5G -3.9G			
MAXIMUM TURN RATE	CLEAN	206 KTS			
GUN	150 ROUNDS				
COUNTER MEASURES	CHAFF	N/A			
	FLARE	N/A			
STATION	4	3	SMK	2	1
AIR TO AIR MISSILES	R-3S	●			●
	R-60	●			●
ROCKETS	S-5	●	●	●	●
BOMBS	100	●	●	●	●
	250	●	●	●	●
P-50	T	●	●	●	●
OFAB	100	●●	●●	●●	●●
SAB	100	●	●	●	●
PODS	PK	●	●	●	●
	SMOKE GENERATOR	●	●		
FUEL TANK	150L		●	●	
	350L		●	●	

## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE			NAME	RANGE
<b>R-3S</b>	INFRARED				<b>AA-2 ATOLL</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO
1, 4		4 nm 7 km	REAR	1-2	1962	Slow lock, Up to 3G manuevres.
WEAPON	TYPE	IMAGE			NAME	RANGE
<b>R-60</b>	INFRARED				<b>AA-8 APHID</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO
1, 4	M	4.5 nm 8 km	LIMITED ALL	1-2	1982	Up to 8G manuevres.

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE		
<b>S-5</b>	2.2 in 57 mm			
STATION	VERSION	TARGET	LAUNCHER	QTY
1, 2, 3, 4	KO	HARD TARGET	UB-16A	16, 32, 48, 64
				Lightly armored targets.

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
1, 2, 3, 4	100	SOFT TARGET	220.5 lbs 100 kg	1-4	Low-drag, high explosive.		
	250	LIGHT STRUCTURE	551.2 lbs 250 kg				
WEAPON	TYPE	IMAGE					
P-50	TRAINING						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
1, 2, 3, 4	T	TRAINING TARGET	110.2 lbs 50 kg	1-4	Practice bomb.		
WEAPON	TYPE	IMAGE					
OFAB	FREE FALL						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
1, 2, 3, 4	100	SOFT TARGET	220.5 lbs 100 kg	1-8	General purpose high explosive.		
WEAPON	TYPE	IMAGE					
SAB	ILLUMINATION						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
1, 2, 3, 4	100	TARGET MARKING	220.5 lbs 100 kg	1-4	Illuminating targets.		

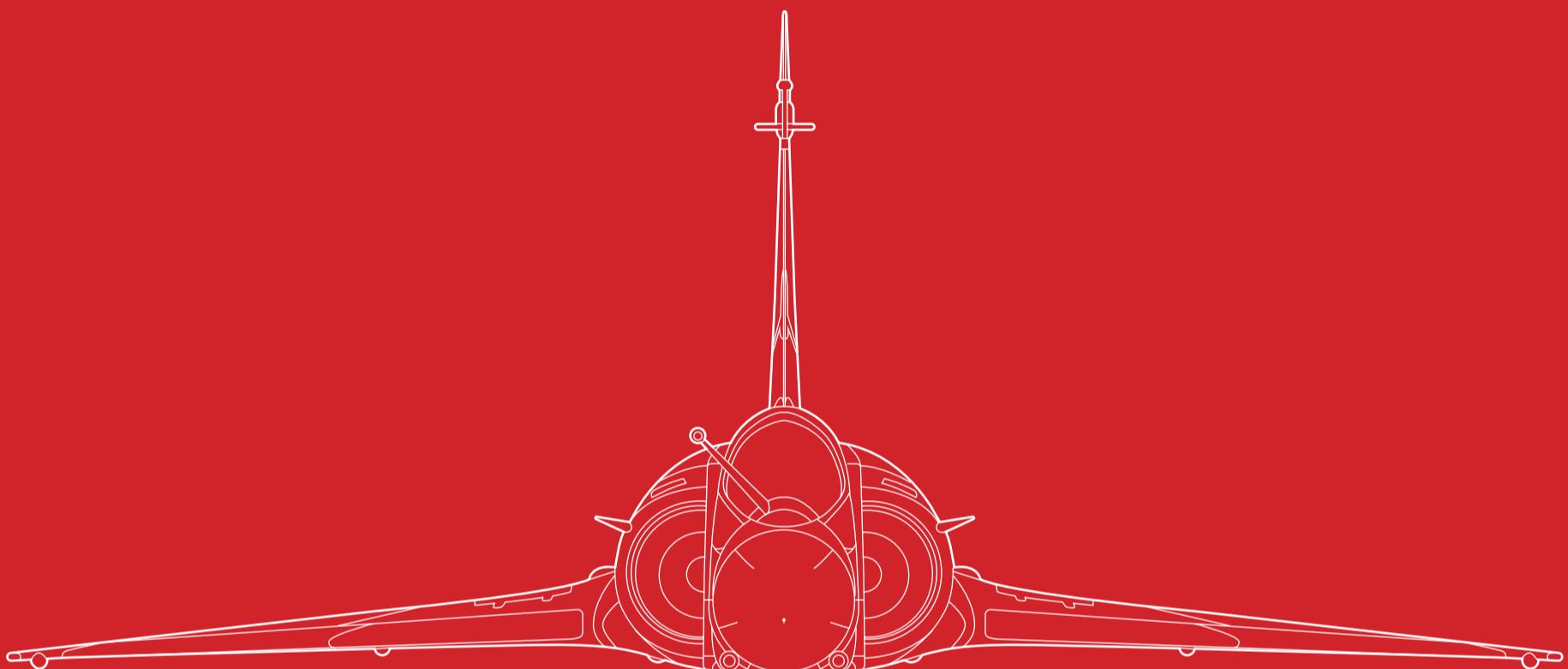
## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
STATION	VERSION	WEIGHT	INFO			
1, 2, 3, 4	3	480 lbs 217.7 kg	3 7.62mm guns.			
POD	TYPE	IMAGE				
SMOKE GEN	SMOKE					
STATION	VERSION	WEIGHT	INFO			
SMK			Smoke.			

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
150L	2, 3	35 lbs 15.9 kg	
350L	2, 3	53 lbs 24 kg	

# AIRCRAFT QUICK REFERENCE



**M-2000C  
MIRAGE**

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# M-2000C MIRAGE

WEIGHT	CLEAN	16,755 lbs
	MAX	36,376 lbs
TAKE OFF	CLEAN	145 KTS
	LOADED*	175 KTS
LANDING	GEAR	230 KTS
	GROUND	210 KTS
TOP SPEED	LOW ALT	MACH 1
	HIGH ALT	MACH 2.2
	MAX ALTITUDE	59,000 FT
MAX RANGE	EXTERNAL	837 NM
	MAX G	+9
MAXIMUM TURN RATE	CLEAN	252 KTS
RADAR	MAX RNG	80 NM
GUN	250 ROUNDS	
COUNTER MEASURES	CHAFF	112/130**
	FLARE	16/32**

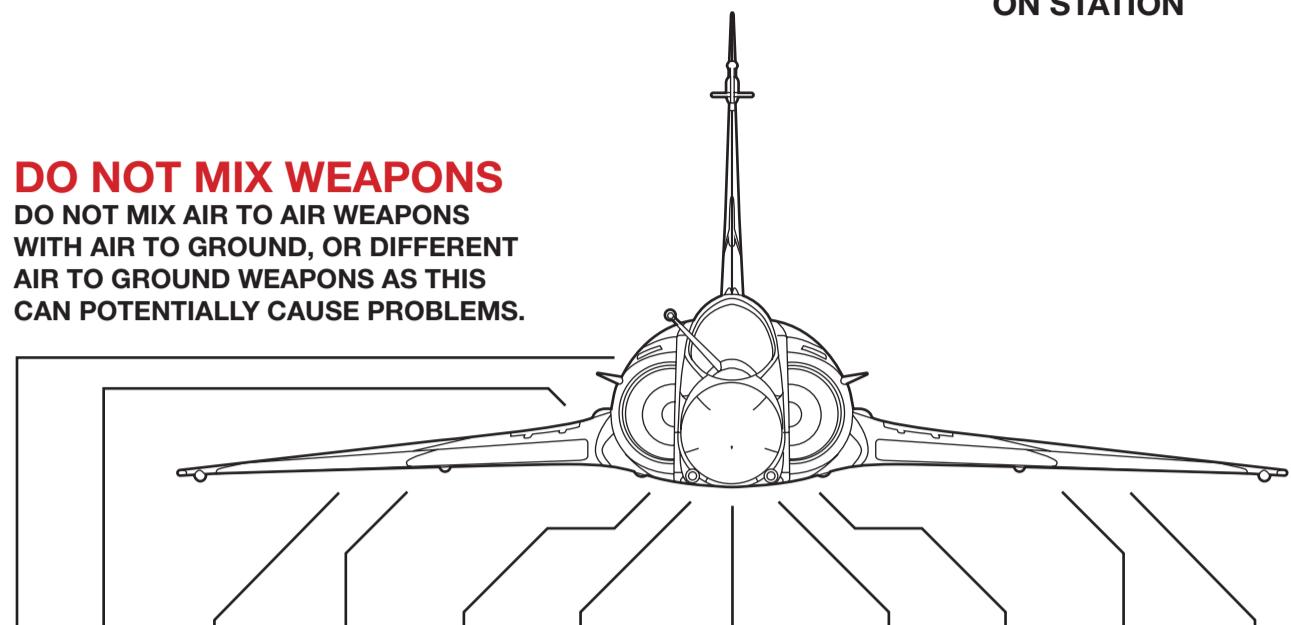
\* STANDARD AIR-TO-GROUND.

\*\* WITH ECLAIR EQUIPPED.

WEAPONS | 1 ●  
AVAILABLE | 2 ○  
ON STATION

## DO NOT MIX WEAPONS

DO NOT MIX AIR TO AIR WEAPONS  
WITH AIR TO GROUND, OR DIFFERENT  
AIR TO GROUND WEAPONS AS THIS  
CAN POTENTIALLY CAUSE PROBLEMS.



## STATION 11 10 9 8 7 6 5 4 3 2 1

AIR TO AIR MISSILES	R.550	MAGIC II		●	●						●	●
	SUPER 530	D			●							●
ROCKETS	SNEB	TYPE 155		●	●						●	●
	BAP	100	6							●		
		12								●		
		18								●		
	BLG	66		●●○	●	●			●	●	●○○	
		12			●				●○○	●	●	
	GBU	16							●			
		24							●			
	MK	82		●●○	●	●			●	●	●○○	
		82 AIR		●●○	●	●			●	●	●○○	
		82 SE		●●○	●	●			●	●	●○○	
PODS	A/G TRAINING		●									
	ECLAIR		●									
	SMOKEWINDER		●						●			●
FUEL TANK	RPL 522								●			
	RPL 541			●							●	

## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE
<b>R.550</b>	INFRARED					<b>MAGIC II</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 2, 8, 9		8 nm 15 km	ALL	1-4	1986	Frontal engagement.	
WEAPON	TYPE	IMAGE				NAME	RANGE
<b>SUPER 530</b>	SEMI-ACTIVE RADAR						MEDIUM
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
2, 8	D	20 nm 37 km	ALL	2	1988	Comparable to the AIM-7.	

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE			
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
<b>SNEB</b>	2.7 in 68 mm				
1, 2, 8, 9		SOFT TARGET	TYPE 155	18, 36, 54, 72	Lightly armored targets.

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
<b>BAP</b>	ANTI-RUNWAY				
5	100	RUNWAY	100 lb 45.4 kg	6, 12, 18	Anti-runway bomb.
WEAPON	TYPE	IMAGE			
<b>BLG</b>	CLUSTER				
2, 3, 4, 5, 6, 7, 8	66	SOFT TARGET	672.4 lb 305 kg	2, 4, 8	High-drag HEAT.
WEAPON	TYPE	IMAGE			
<b>GBU</b>	LASER GUIDED				
3, 5, 7	12	MEDIUM STRUCTURE	500 lbs 226.8 kg	2, 4	Laser guided Mk-82.
	16	HARD STRUCTURE	1,000 lbs 453.6 kg	1	Laser guided Mk-83.
	24		2,000 lbs 907.2 kg	1	Laser guided Mk-84 with penetrator.
WEAPON	TYPE	IMAGE			
<b>MK</b>	HIGH & LOW DRAG				
2, 3, 4, 5, 6, 7, 8	82	LIGHT STRUCTURE	500 lbs 226.8 kg	2, 4, 8	High-explosive, low-drag.
	82 SE				Mk-82 with high-drag fin kit.
	82 AIR				Mk-82 with high-drag ballute kit.

## AIR TO GROUND - PODS

POD	TYPE	IMAGE		
STATION	VERSION	WEIGHT	INFO	
<b>A/G TRAINING</b>	TRAINING			
11				Adds training mode to PCA. It adds BLF, BFF and RKF mode to the PCA bottom row. Those modes work exactly like the normal modes, but without weapons loaded on the aircraft.

## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
<b>ECLAIR</b>	COUNTER MEASURES		
STATION	VERSION	WEIGHT	INFO
<b>10</b>		44 lbs 20 kg	Extended countermeasures pod. Replaces drag chute.
POD	TYPE	IMAGE	
<b>SMOKEWINDER</b>	SMOKE		
STATION	VERSION	WEIGHT	INFO
<b>1, 5, 9</b>		441 lbs 200 kg	Smoke pod for wing pylons.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>RPL 522</b>	<b>5</b>	<b>397 lbs 180 kg</b>	
<b>RPL 541</b>	<b>2 &amp; 8</b>	<b>1,133 lbs 513.9 kg</b>	

## M-2000C MIRAGE RWR

<b>0</b>	S-300 (SA-10 "Grumble")	<b>S</b>	Su-27, Su-33, J-11	<b>OUTER RING</b> Threats in search mode. 
<b>1</b>	BUK (SA-11 "Gadfly")	<b>T</b>	Tornado GR.4	
<b>2</b>	S-300V (SA-12 "Gladiator")	<b>U</b>	Unknown	
<b>4</b>	F-14	<b>V</b>	M-163 Vulcan ADS	
<b>5</b>	9K330 Tor (SA-15 "Gauntlet")	<b>W</b>	Weapon (missile)	
<b>6</b>	2K12 KUB (SA-6 "Gainful")	<b>X</b>	Su-30	
<b>8</b>	9K33 OSA (SA-8 "Gecko")	<b>Y</b>	Mirage 2000-5	
<b>9</b>	2K22 TUNGUSKA (SA-19 "Grison")	<b>Z</b>	ZSU-23-4 Shilka	
<b>A</b>	AAA (Anti-Aircraft Artillery Radar)	<b>+</b>	F-15, F-15E	
<b>B</b>	Su-24, Su-39, Tu-22, Tu-95, Tu-142, Tu-160, B-1, B-52, S-3, A-6, EA-6B, F-5E, F-4, F-111, Tornado IDS, AJS 37	<b>-</b>	F-18C	
<b>C</b>	Early Warning ground radars (EWR-1L13, EWR-55G6)	<b>*</b>	F-16	
<b>D</b>	DOG EAR: 9K35 Strela System Search Radar. (SA-13 "Gopher")	<b>•</b>	F-18, AV-8B Plus	<b>INNER RING</b> Threats locked or locked and guiding. <b>EXAMPLES</b>         
<b>G</b>	Flakpanzer Gepard	<b>III</b>	Su-34	
<b>H</b>	Hawk System (Guidance and Search)	<b>↑</b>	MiG-21	
<b>I</b>	Mirage M-2000C	<b>Λ</b>	MiG-23/27	
<b>M</b>	MiG-29	<b>⊥</b>	MiG-25	
<b>N</b>	Navy Ship	<b>Π</b>	MiG-31	
<b>P</b>	Patriot System (Guidance and Search)	<b>▼</b>	Radar Lock. Symbol appears below threat code.	
<b>Q</b>	KJ-2000, JF-17	<b>▶</b>	Radar Guiding (Weapons Launch). Symbol appears above threat code.	
<b>R</b>	Roland System (Guidance and Search)	<b>▲</b>	Both ▲ and ▼ will blink.	

## SOUND WARNING

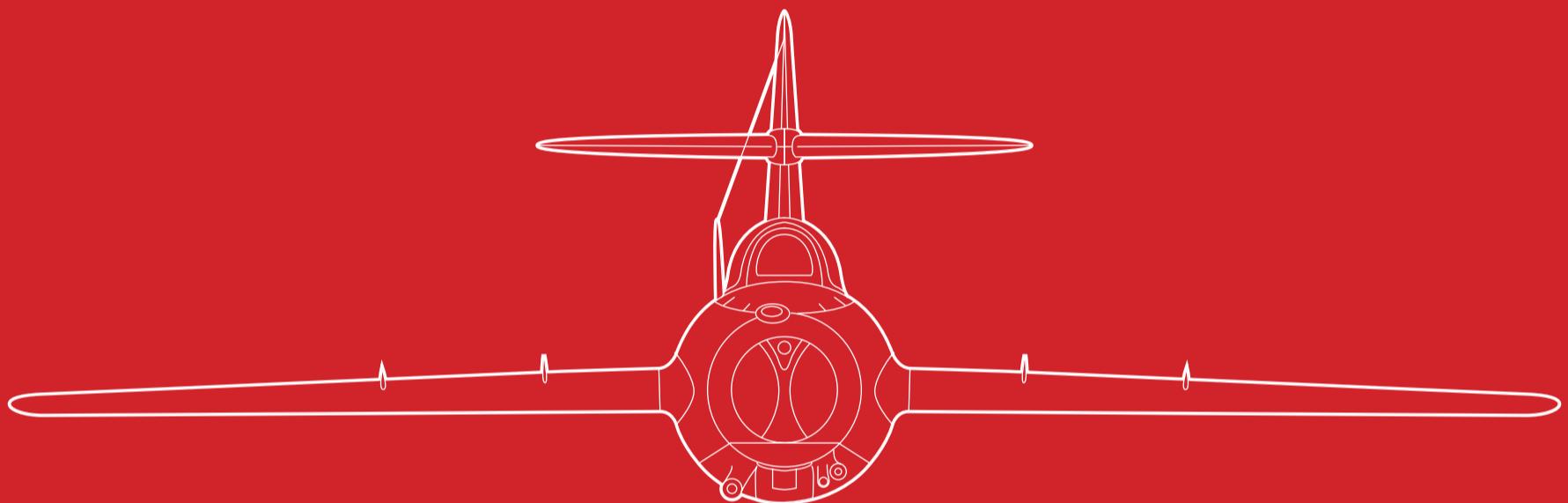
Single Beep | New Threat | Continuous Beep | Radar Locked or Radar Locked and Guiding.



## HOTAS

MODE	WEAPON CMD SWITCH		
	FORWARD	AFT	DEPRESS
AIR TO AIR	CLOSE COMBAT VERTICAL OR HORIZONTAL RADAR MODE	CLOSE COMBAT BORESIGHT RADAR MODE	UNLOCK TARGET
AIR TO GROUND	SETS HUD TO AIR TO GROUND MODE	SETS HUD TO NAV MODE	

# AIRCRAFT QUICK REFERENCE

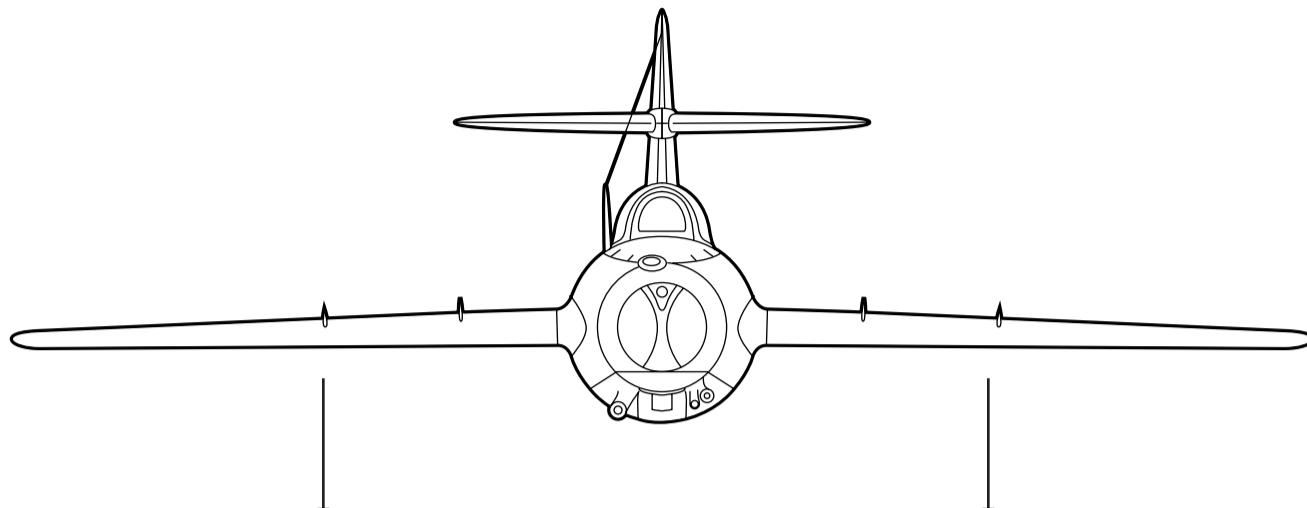


## MiG-15BIS FAGOT

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# MiG-15BIS FAGOT

WEIGHT	CLEAN	8,274 LBS		WEAPONS AVAILABLE ON STATION	1 ●
	MAX	13,461 LBS			
TAKE OFF	CLEAN	210 KTS			
	LOADED	230 KTS			
LANDING	GEAR	350 KTS			
	FLAPS	340 KTS			
	GROUND	200 KTS			
TOP SPEED	SEA LEVEL	581 KTS			
	10,000 FT	535 KTS			
MAX ALTITUDE		51,016 FT			
MAX G		8			
MAXIMUM TURN RATE	CLEAN	274 KTS			
RADAR MAX RANGE		NA			
GUN	200 ROUNDS				
COUNTER MEASURES	CHAFF	NA			
	FLARE	NA			
<b>STATION</b>		<b>2</b>			<b>1</b>
BOMBS	FAB	50			●
		100			●
FUEL TANK	300 L				●
	400 L				●
	600 L				●
					●



## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>FAB</b>	<b>FREE FALL</b>				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
1, 2	50	SOFT TARGET	110.2 lbs 50 kg	1-2	Low-drag, high explosive.
	100		220.5 lbs 100 kg	1-2	

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>300 L</b>		48 lbs 21.8 kg	
<b>400 L</b>	1, 2	70 lbs 31.8 kg	
<b>600 L</b>		72 lbs 32.7 kg	

# AIRCRAFT QUICK REFERENCE

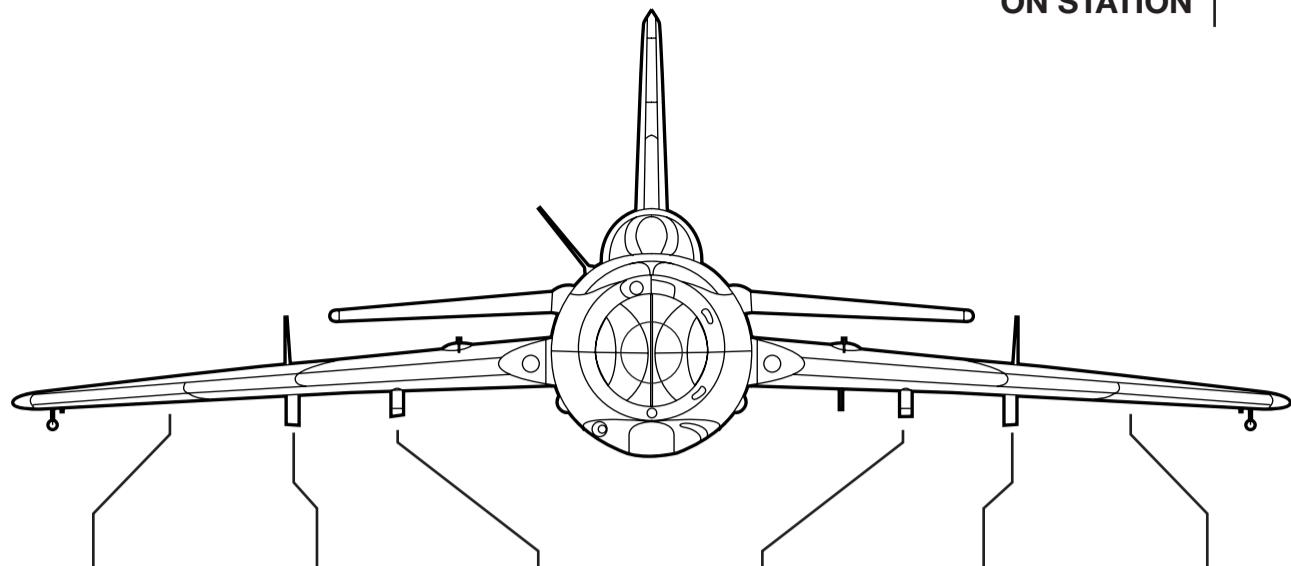


## MiG-19P FARMER

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# MiG-19P FARMER

WEIGHT	CLEAN	15,834 LBS	WEAPONS AVAILABLE ON STATION	1		
	MAX	19,264 LBS				
TAKE OFF	CLEAN	200 KPH				
	LOADED	230 KPH				
LANDING	GEAR	490 KPH				
	FLAPS	400 KPH				
	GROUND	235 KPH				
TOP SPEED		1,455 KPH				
MAX ALTITUDE		57,000 FT				
MAX G						
MAXIMUM TURN RATE	CLEAN	436 KTS				
RADAR MAX RANGE		12 KM				
GUN	205 ROUNDS					
COUNTER MEASURES	CHAFF	NA				
	FLARE	NA				
STATION	6	5	4	3	2	1
AIR TO AIR MISSILES	R-3S	●				●
ROCKETS	S-5	M	●	●	●	●
BOMBS	FAB	50	●			●
		100	●		●	●
		250	●		●	●
PODS	SMOKE GENERATOR	●				●
FUEL TANK	760 L	●			●	



## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE			NAME	RANGE
<b>R-3S</b>	INFRARED				<b>AA-2 ATOLL</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO
1,6		4 nm 7 km	REAR	1-2	1962	Slow lock, Up to 3G manuevers.

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE		
<b>S-5</b>	2.2 in 57 mm			
STATION	VERSION	TARGET	LAUNCHER	QTY
2,3,4,5	M	SOFT TARGET	UB-8UM	16, 32

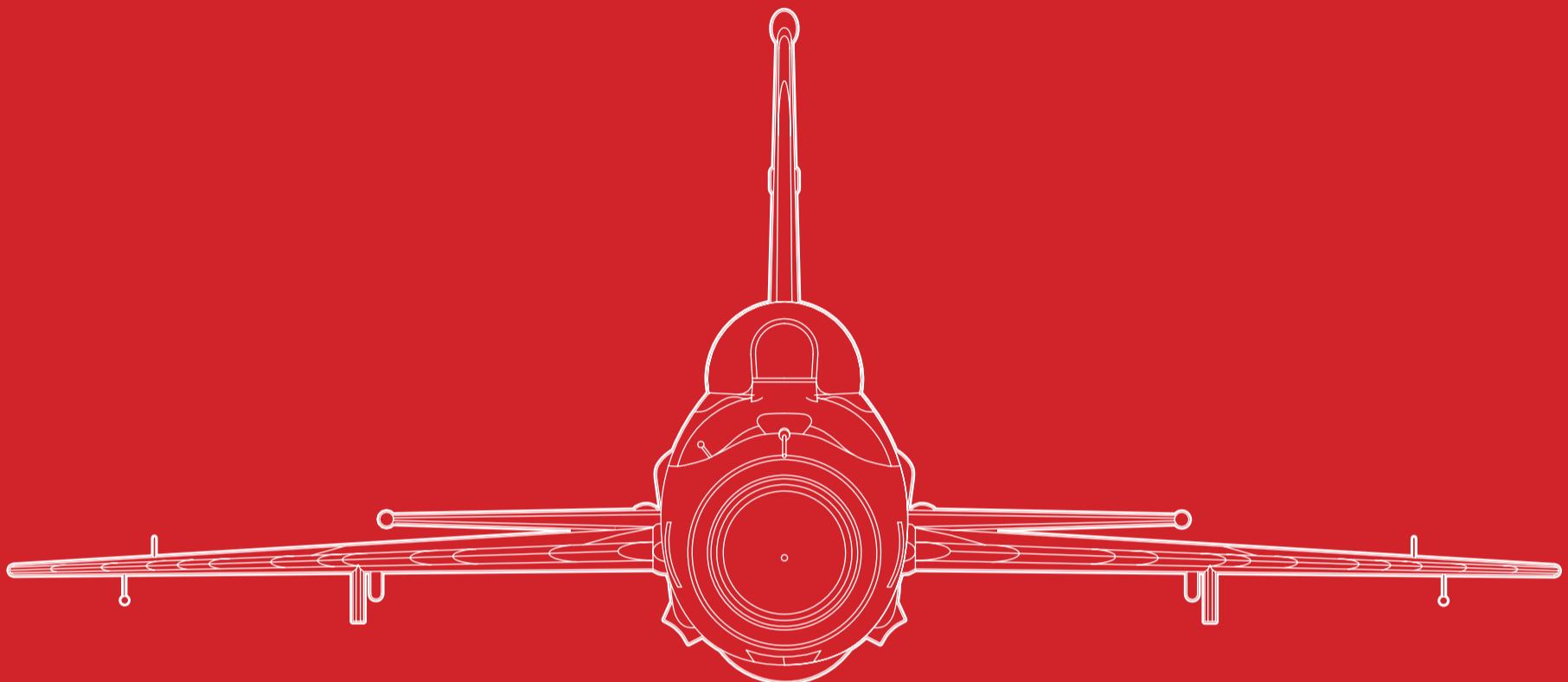
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE		
<b>FAB</b>	FREE FALL			
STATION	VERSION	TARGET	WEIGHT	QTY
2, 5	50	SOFT TARGET	110.2 lbs 50 kg	1-2
	100		220.5 lbs 100 kg	1-2
	250	LT STRUCTURE	551.2 lbs 250 kg	1-2

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>760 L</b>	2, 5	145 lbs 65.8 kg	

# AIRCRAFT QUICK REFERENCE

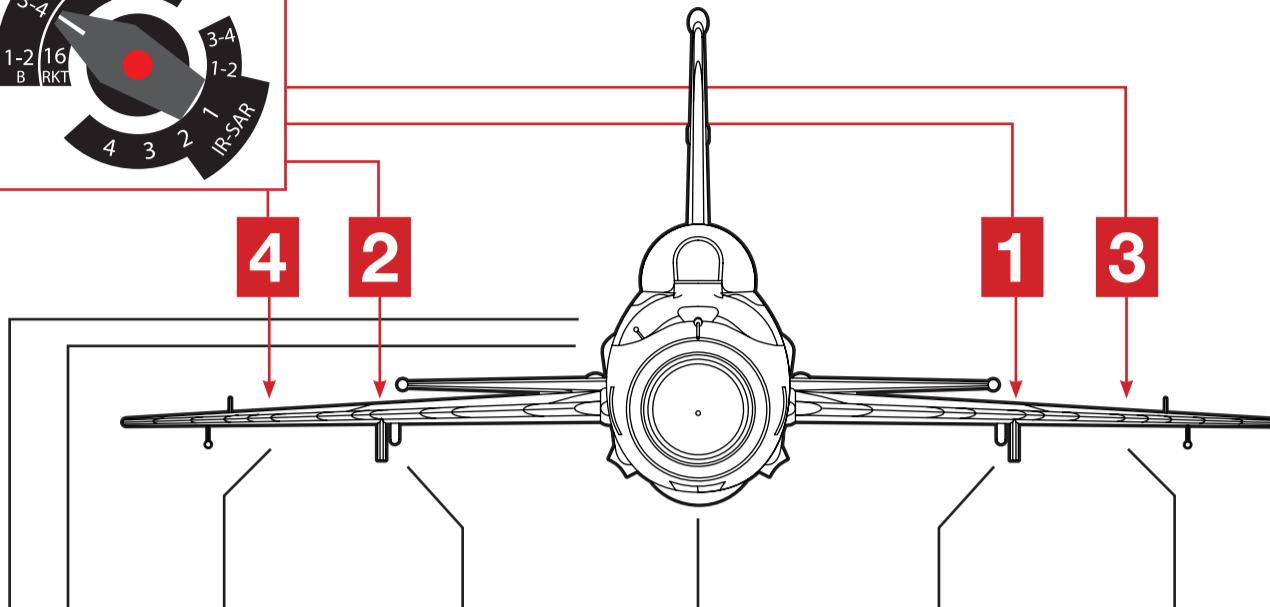


## MiG-21 FISHBED

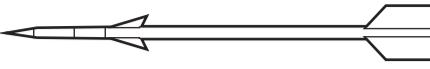
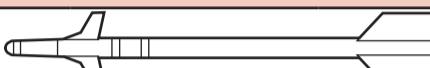
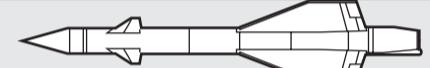
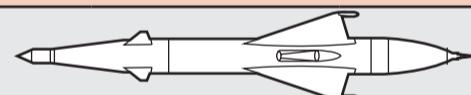
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# MiG-21 FISHBED

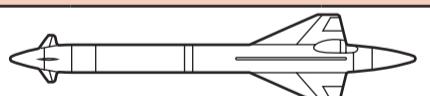
WEIGHT	CLEAN	19,004 lbs	* INTERCEPT LOADOUT OF FUEL DROP TANKS AND MISSILES.					WEAPONS AVAILABLE ON STATION
	MAX	22,928 lbs						1 ● 2 ○ 3 ○ 4 ○
TAKE OFF	CLEAN	360 KPH						
	22,928 lbs	380 KPH						
LANDING	GEAR	500 KPH						
	FLAPS	480 KPH						
	GROUND	330 KPH						
	CHUTE	320 KPH						
TOP SPEED	CLEAN	2.05 MACH						
	LOADED*	1.6 MACH						
MAX ALTITUDE		61,000 FT						
MAX AoA		+33° -20°						
MAX G*		+5 -2						
MAXIMUM TURN RATE	CLEAN	229 KTS						
RADAR	MAX RNG	30 KM						
GUN	250 ROUNDS							
COUNTER MEASURES	CHAFF	18						
	FLARES	40						
STATION		7	6	5	4	3	2	1
AIR TO AIR MISSILES	R-3R			●	●		●	●
	R-3S			●	●		●	●
	R-13	M		●	●		●	●
		M1		●	●		●	●
	R-55				●		●	
	R-60			●●○	●●○		●●○	●●○
AIR TO GROUND MISSILES	M			●●○	●●○		●●○	●●○
	RS	2US		●	●		●	●
Kh-66					●		●	
ROCKETS	S-24A			●	●		●	●
	S-24B			●	●		●	●
	S-5	UB-16UM		●	●		●	●
		UB-32UM			●		●	
BOMBS	BETAB	500			●		●	
		500ShP			●		●	
	BL755				●		●	
	FAB	100		●	●○		●○	
		250		●	●		●	●
		250 M54		●	●		●	●
		500 M62			●		●	
	RBK	250		●	●		●	●
	SAB	100		●	●		●	●
	RN	24				●		
		28				●		
PODS	ASO	2		●				
	SPRD	99		●				
	SPS	141-100				●		
	SMOKE	WHITE	●					
	UPK	23-250			●		●	
FUEL TANKS		490 GAL		●	●	●	●	●
		800 GAL			●		●	



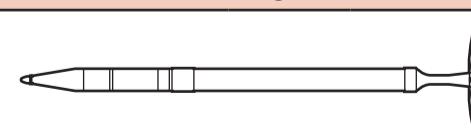
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-3R</b>	SEMI-ACTIVE RADAR					<b>ADV-ATOLL</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 4, 5	L	4.5 nm 8 km	ALL	1-4	1966	Up to 2G maneuvres.			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-3S</b>	INFRARED					<b>ATOLL</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 4, 5	B	4 nm 7 km	REAR	1-4	1962	Slow lock, Up to 3G maneuvres			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-13</b>	INFRARED					<b>ADV-ATOLL</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 4, 5	M	8.1 nm 15 km	REAR	1-4	1974	Up to 7G maneuvres.			
	M1	9.2 nm 17 km			1976	Up to 8G maneuvres.			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-55</b>	SEMI-ACTIVE RADAR					<b>ATOLL</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
2, 4	B	3.5 nm 6 km	REAR	1-8	1957	Semi-active homing radar.			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-60</b>	INFRARED					<b>AA-8 APHID</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 4, 5	M	4.5 nm 8 km	REAR	1-8	1974	Up to 8G maneuvres.			
			LIMITED ALL		1982				
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>RS</b>	INFRARED					<b>ATOLL</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 4, 5	2US	3.5 nm 6 km	REAR	1-4	1965	Beam riding missile			

## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME
<b>Kh-66</b>	BEAM RIDING					<b>KERRY</b>
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
2, 4		5.5 nm 10 km	HARD TARGET	1-2	1968	Heavy warhead and beam riding version of the K-8.

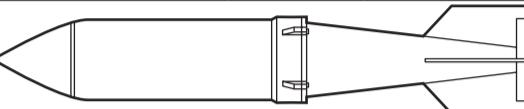
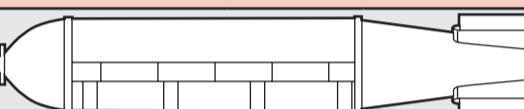
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE			
<b>S-5</b>	2.75 in 70 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
1, 2, 4, 5	M	SOFT TARGET	UB-16UM	16,32	Unarmored targets. Blast fragmentation.
			UB-32UM	32,64	

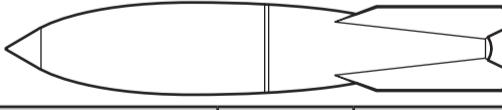
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE			
<b>S-24</b>	2.75 in 70 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
1, 2, 4, 5	A	SOFT TARGET		1-4	Lightly armored targets.
	B				Reduced smoke version of A.

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE					
<b>BETAB</b>	FREE FALL						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
2, 4	500	BUNKER	1,100 lbs 477 kg	1-2	Concrete piercing bomb.		
	500ShP	SOFT TARGET			Parachute retarded with rocket booster.		
WEAPON	TYPE	IMAGE					
<b>BL755</b>	CLUSTER						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
2, 4		HARD TARGET	1,000 lbs 453.6 kg	1-2	Multiple armored targets		
WEAPON	TYPE	IMAGE					
<b>FAB</b>	FREE FALL						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
1, 2, 4, 5	100	SOFT TARGET	220.5 lbs 100 kg	1-6	Low-drag, high explosive.		
	250	LT STRUCTURE	551.2 lbs 250 kg	1-4			
	250 M54						
2, 4	500 M62	MED STRUCTURE	1102.3 lbs 500 kg	1-2			
WEAPON	TYPE	IMAGE					
<b>RBK</b>	CLUSTER						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
1, 2, 4, 5	250 PTAB-25KO	MEDIUM TARGET	551.2 lbs 250 kg	1-4	High-drag.		

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE					
<b>RN</b>	NUCLEAR						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
3	24	LARGE TARGET	1 kt	1	Nuclear bomb.		
	28		10 kt				
WEAPON	TYPE	IMAGE					
<b>SAB</b>	ILLUMINATION						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
1, 2, 4, 5	100	TGT MARKING	220.5 lbs 100 kg	1-4	Illuminating targets.		

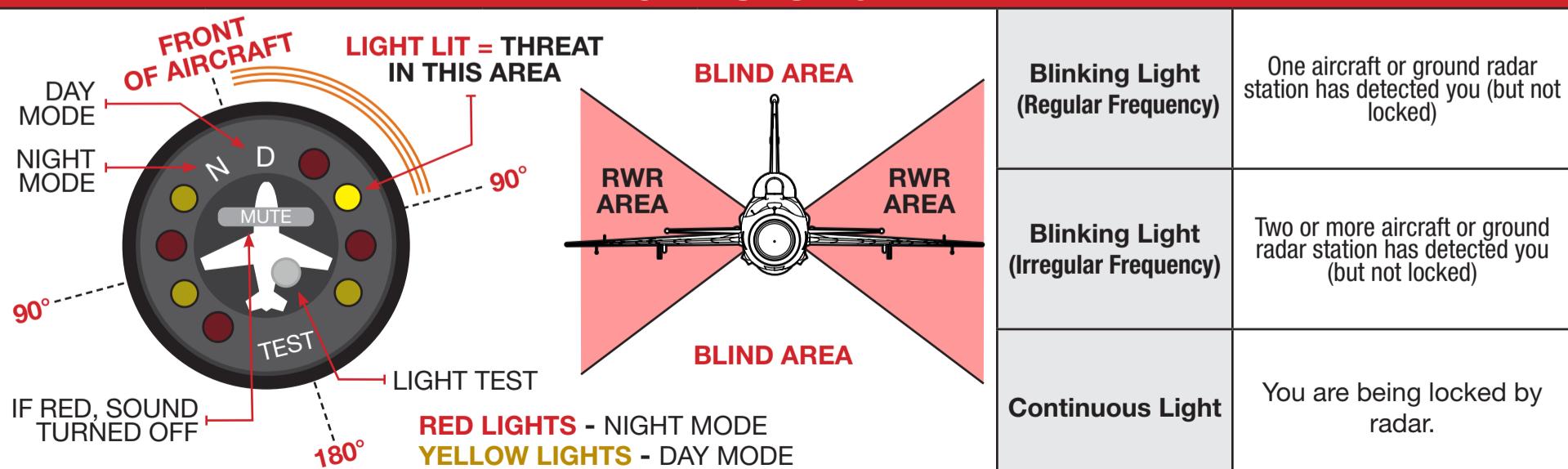
## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
<b>ASO</b>	COUNTER MEASURES		
STATION	VERSION	WEIGHT	INFO
<b>6</b>	<b>2</b>	49 lbs 22.2 kg	Countermeasures pod.
POD	TYPE	IMAGE	
<b>SMOKE</b>	SMOKE		
STATION	VERSION	WEIGHT	INFO
<b>7</b>			Smoke dispenser
POD	TYPE	IMAGE	
<b>SPRD</b>	TAKE OFF		
STATION	VERSION	WEIGHT	INFO
<b>6</b>	<b>99</b>	1,103 lbs 500.3 kg	Take-off assist rockets.
POD	TYPE	IMAGE	
<b>SPS</b>	COUNTER MEASURES		
STATION	VERSION	WEIGHT	INFO
<b>3</b>	<b>141-100</b>	331 lbs 150.1 kg	Electronic countermeasures (ECM) pod with ASO countermeasures. ASO Pod cannot be used when equipped.
POD	TYPE	IMAGE	
<b>UPK</b>	GUN		
STATION	VERSION	WEIGHT	INFO
<b>2, 4</b>	<b>23-250</b>	481 lbs 218.2 kg	Dual GSh-23L 23mm gun pod.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>490 LT</b>	<b>2, 3, 4</b>	97 lbs 44 kg	
TANK	STATION	WEIGHT	IMAGE
<b>800 LT</b>	<b>3</b>	111 lbs 50.3 kg	

## MiG-21 SPO-10 RWR



## SOUND WARNINGS

Single Beeps	One radar detecting you	Irregular Beeps	Multiple radars detecting you	Continuous Beep	You are being locked
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# AIRCRAFT QUICK REFERENCE



## MiG-29 A & G & S FULCRUM

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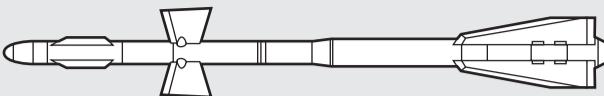
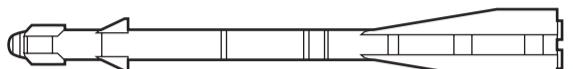
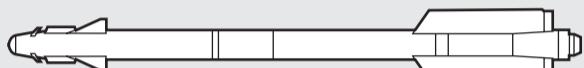
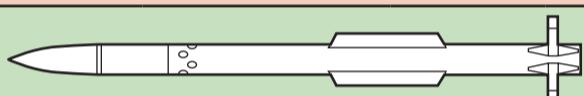
# MiG-29 FULCRUM A & G & S

WEIGHT	CLEAN	24,079 LBS	* 33,000 LBS	WEAPONS AVAILABLE ON STATION	1 ●		
	CLEAN	24,740 LBS					
	MAX	43,431 LBS					
TAKE OFF	CLEAN	130 KTS					
	LOADED*	154 KTS					
LANDING	GEAR	350 KPH					
	FLAPS						
	GROUND	250 KPH					
TOP SPEED	LOW	1,500 KPH					
	HIGH	2,450 KPH					
MAX ALTITUDE		59,005 FT					
MAX G		9					
MAXIMUM TURN RATE	CLEAN	369 KTS					
RADAR	MAX RNG	100+ KM					
GUN	150 ROUNDS						
COUNTER MEASURES	CHAFF	30					
	FLARES	30					
STATION	7	6	5	4	3	2	1
AIR TO AIR MISSILES	R-27	ER		●			
		ET		●			
		R		●			
		T		●			
	R-60	M	●	●		●	●
	R-73		●	●		●	●
	R-77		●	●		●	●
ROCKETS	S-8	FP2		●		●	
		KOM		●		●	
		TsM		●		●	
	S-24	B		●		●	
BOMBS	BETAB	500		●		●	
		500ShP		●		●	
	FAB	250		●		●	
		500 M62		●		●	
	KMGU	AO-2.5RT		●		●	
		PTAB-2.5KO		●		●	
	RBK	250 PTAB-25KO		●		●	
		250 AO-1Sch		●		●	
		500 PTAB-1M		●		●	
		500 PTAB-10.5		●		●	
PODS	SMOKE GENERATOR		●	●	●	●	●
FUEL TANKS	1150 GAL			●			
	1400 GAL			●			

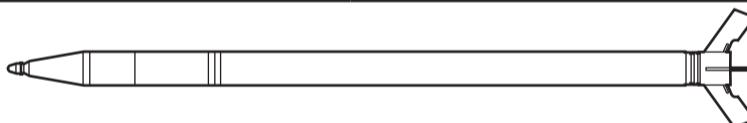
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE			NAME	RANGE
R-27	SEMI-ACTIVE RADAR				AA-10 ALAMO	MEDIUM
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO
3, 5	ER	35 nm 65 km	ALL	1-2	1990	Lock on after launch capability.
	R	23 nm 42 km			1986	

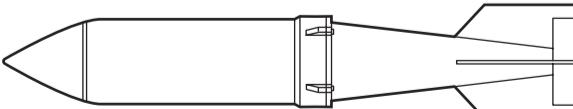
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-27</b>	INFRARED					<b>AA-10 ALAMO</b>	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
3, 5	ET	28 nm 52 km	ALL	1-2	1990 1986				
	T	18 nm 33 km			Lock on before launch.				
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-60</b>	INFRARED					<b>AA-8 APHID</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 3, 5, 6, 7	M	4.5 nm 8 km	LIMITED ALL	1-6	1982				
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-73</b>	INFRARED					<b>AA-11 ARCHER</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 3, 5, 6, 7		16 nm 30 km	ALL	1-6	1984				
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-77</b>	ACTIVE RADAR					<b>AA-12 ADDER</b>	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
1, 2, 3, 5, 6, 7	M	27 nm 50 km	ALL	1-6	1992				

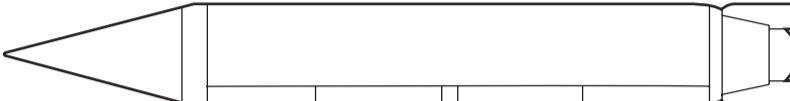
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE					
<b>S-8</b>	3.2 in 80 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
2, 3, 5, 6	KOM	HARD TARGET	B-20MI	20, 40, 60, 80	High explosive Anti-Tank warhead.		
	OFP2	SOFT TARGET			Unarmored targets. Blast fragmentation.		
	TsM	TARGET MARKING			Smoke.		
WEAPON	SIZE	IMAGE					
<b>S-24</b>	9.4 in 240 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
2, 3, 5, 6	B	SOFT TARGET	B-13L	1-4	Reduced smoke version of A.		

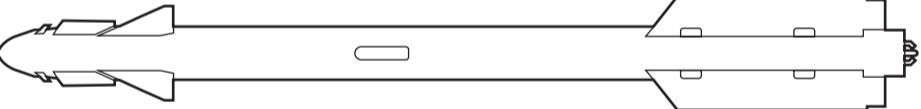
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>BETAB</b>	FREE FALL				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 5, 6	500	BUNKER	1,100 lbs 477 kg	1-4	Concrete piecing bomb.
	500ShP	RUNWAY			

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE					
<b>FAB</b>	FREE FALL						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>2, 3, 5, 6</b>	<b>200</b>	LIGHT STRUCTURE	551.2 lbs 250 kg	<b>1-4</b>	Low-drag, high explosive.		
	<b>500 M62</b>	MEDIUM STRUCTURE	1102.3 lbs 500 kg				
WEAPON	TYPE	IMAGE					
<b>KMGU</b>	MUNITION DISPENSER						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>2, 3, 5, 6</b>	<b>AO-2.5RT</b>	SOFT TARGET	96 x 5.5 lbs 96 x 2.5 kg	<b>1-4</b>	Fragmentation.		
	<b>PTAB-2.5KO</b>	MEDIUM TARGET			HEAT anti-tank.		
WEAPON	TYPE	IMAGE					
<b>RBK</b>	CLUSTER						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>2, 3, 5, 6</b>	<b>250</b> PTAB-25KO	MEDIUM TARGET	551.2 lbs 250 kg	<b>1-4</b>	High-drag.		
	<b>250</b> AO-1Sch	SOFT TARGET					
	<b>500</b> PTAB-1M	HEAVY TARGET	1,102.3 lbs 500 kg		High-drag. HEAT Anti-Tank.		
	<b>500</b> PTAB-10.5						

## AIR TO GROUND - PODS

POD	TYPE	IMAGE		
STATION	VERSION	WEIGHT	INFO	
<b>SMOKE GENERATOR</b>	SMOKE			
<b>1, 2, 3, 4, 5, 6, 7</b>		1,025 lbs 464.9 kg	Smoke pod for wing tip pylons.	

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
<b>1150 L</b>	<b>3, 5</b>	<b>185 lbs 84 kg</b>	
<b>1400 L</b>	<b>4</b>	<b>220 lbs 100 kg</b>	

# AIRCRAFT QUICK REFERENCE



**Su-25 & T  
FROGFOOT**

CREATED BY GOLDWOLF

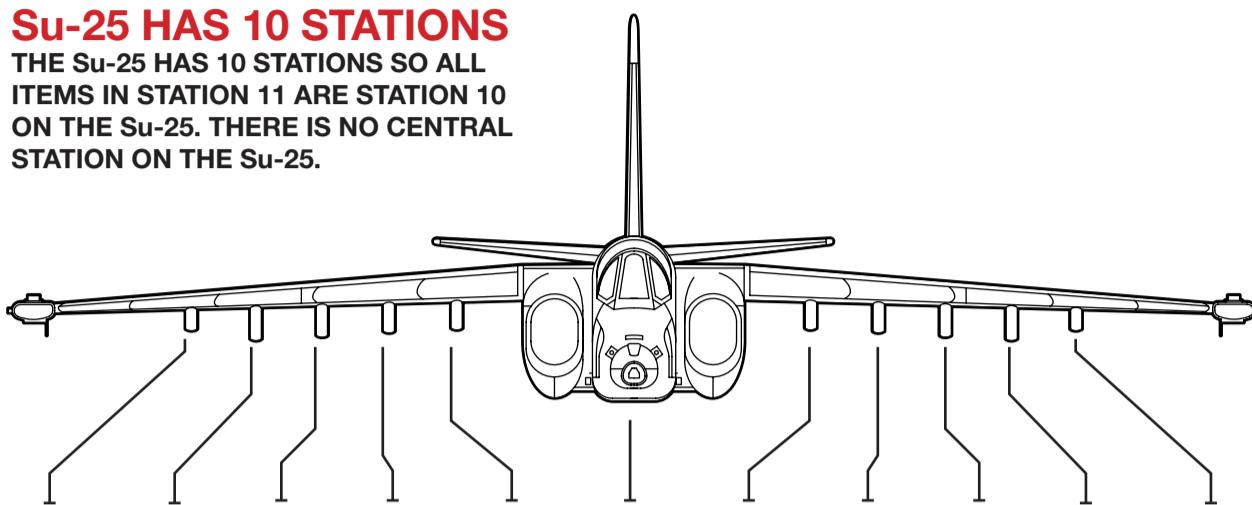
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# Su-25 & T FROGFOOT

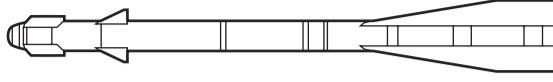
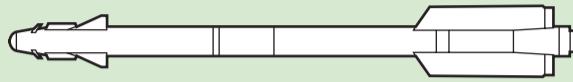
WEIGHT	CLEAN	22,264 LBS	* WITH COMBAT LOAD.								WEAPONS AVAILABLE ON STATION		
	MAX	38,250 LBS	1	4	8								
TAKE OFF	CLEAN	200 KPH											
	LOADED	240 KPH											
LANDING	FLAPS	400 KPH											
	GEAR												
GUN	GROUND	240 KPH											
	TOP SPEED	950 KPH											
MAX ALTITUDE		23,000 FT											
MAX G		5.2 G*											
MAXIMUM TURN RATE	CLEAN	301 KTS											
		321 KTS											
GUN	250 ROUNDS												
COUNTER MEASURES	CHAFF	128											
	FLARE	128											
STATION			11	10	9	8	7	6	5	4	3	2	1
AIR TO AIR MISSILES	R-60	M	●										●
	R-73			●									●
AIR TO GROUND MISSILES	9M121					●				●			
	Kh-25	ML			●	●	●		●	●	●		
		MP			●	●				●	●	●	
		MPU		●	●					●	●	●	
	Kh-29	L					●		●				
		T					●		●				
	Kh-58	U					●		●				
ROCKETS	S-25	L		●	●	●	●		●	●	●	●	
	S-5	KO		●	●	●	●		●	●	●	●	
	S-8	KOM		●	●	●	●		●	●	●	●	
		OPF2		●	●	●	●		●	●	●	●	
		TsM		●	●	●	●		●	●	●	●	
	S-13	OF		●	●	●	●		●	●	●	●	
BOMBS	S-24	B		●	●	●	●		●	●	●	●	
	S-25	OFM		●	●	●	●		●	●	●	●	
	BETAB	500		●	●	●	●		●	●	●	●	
		500ShP		●	●	●	●		●	●	●	●	
	FAB	100		●	●	●	●		●	●	●	●	
		250		●	●	●	●		●	●	●	●	
		500		●	●	●	●		●	●	●	●	
PODS	KAB	500kr					●		●				
	KMGU	AO-2.5RT		●	●	●	●		●	●	●	●	
		PTAB-2.5KO		●	●	●	●		●	●	●	●	
	RBK	250	PTAB-25KO		●	●	●		●	●	●	●	
		250	A0-1Sch		●	●	●		●	●	●	●	
		500	PTAB-1M		●	●	●		●	●	●	●	
		500	PTAB-10.5		●	●	●		●	●	●	●	
		500	OAB-2.5RT		●	●	●		●	●	●	●	
	SAB	100		●	●	●	●		●	●	●	●	
PODS	L-081	FANTASMAGORIA						●					
	MERCURY							●					
	MPS	410		●									●
	SPPU	22-1					●	●		●	●		
	SPS	141			●						●		
	SMOKE GENERATOR		●										●
FUEL TANK		800 L				●		●		●			

**Su-25 HAS 10 STATIONS**  
THE Su-25 HAS 10 STATIONS SO ALL ITEMS IN STATION 11 ARE STATION 10 ON THE Su-25. THERE IS NO CENTRAL STATION ON THE Su-25.

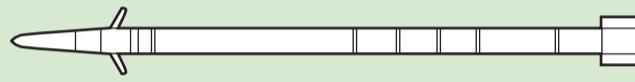
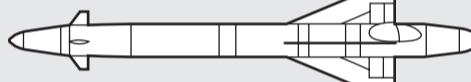
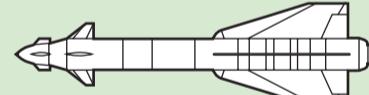
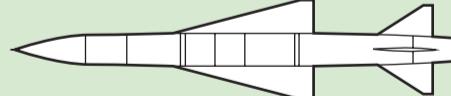
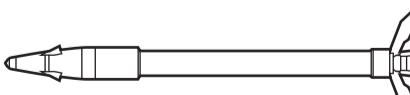


Su-25    Su-25T

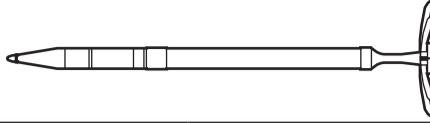
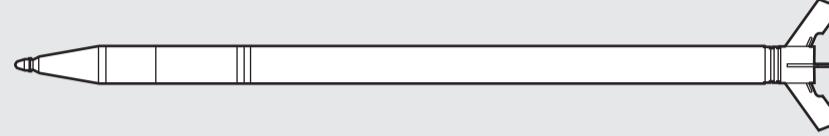
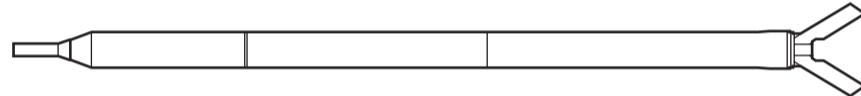
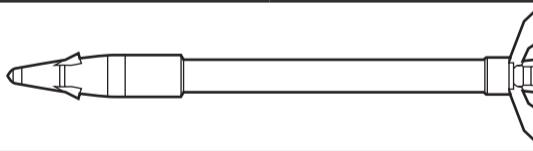
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE
<b>R-60</b>	INFRARED					<b>AA-8 APHID</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
1, 11	M	4.5 nm 8 km	LIMITED ALL	1-2	1982	Up to 8G maneuvers.	
WEAPON	TYPE	IMAGE				NAME	RANGE
<b>R-73</b>	INFRARED					<b>AA-11 ARCHER</b>	SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
2, 10		16 nm 30 km	ALL	1-2	1984	High off boresight.	

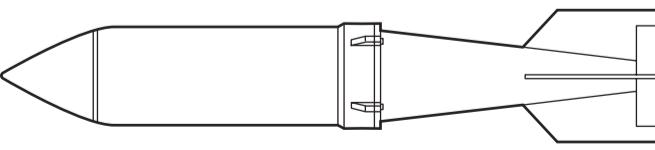
## AIR TO GROUND - MISSILES

WEAPON	TYPE	IMAGE				NAME				
<b>9M114</b>	LASER GUIDED BEAM RIDING					<b>VIKHR</b>				
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
4, 8		3.8 nm 7 km	ANTI-ARMOR	8, 16	1976	HEAT Charge, Armor penetrator.				
WEAPON	TYPE	IMAGE				NAME				
<b>Kh-25</b>	AIR TO SURFACE					<b>KAREN</b>				
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
3, 4, 5, 7, 8, 9	ML	6 nm 11 km	ANTI-ARMOR	1-6	1975	Semi-active laser guidance.				
3, 4, 8, 9	MP	10 nm 18 km	RADAR	1-4	1977	AS-12 Kegler. Modular anti-radiation variant.				
	MPU	16 nm 30 km		1-4	1979	AS-12 Kegler. Updated version of the MP.				
WEAPON	TYPE	IMAGE				NAME				
<b>Kh-29</b>	AIR TO SURFACE					<b>KEDGE</b>				
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
5, 7	L	5 nm 10 km	HARD TARGET, SHIP	1-2	1980	Semi-active laser guidance. Similar to the AGM-65.				
	T	6 nm 12 km				Passive homing TV guidance. Similar to the AGM-65.				
WEAPON	TYPE	IMAGE				NAME				
<b>Kh-58</b>	ANTI-RADIATION					<b>KILTER</b>				
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
5, 7	U	130 nm 250 km	RADAR	1-2	1982	Improved version with longer range and lock-on-after-launch				
WEAPON	TYPE	IMAGE				NAME				
<b>S-25</b>	LASER HOMING									
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO				
2, 3, 4, 5, 7, 8, 9, 10	L	4 nm 7 km	HARD TARGETS	1-8	1980	Limited range rocket with laser guidance.				

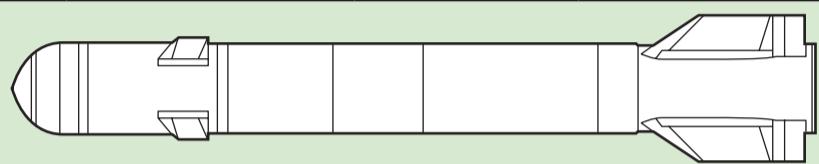
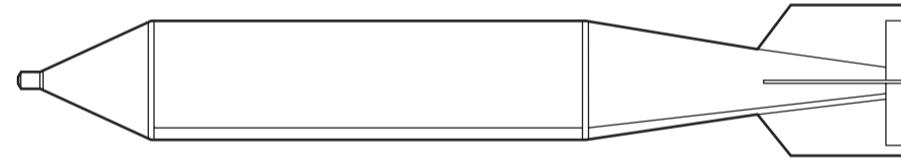
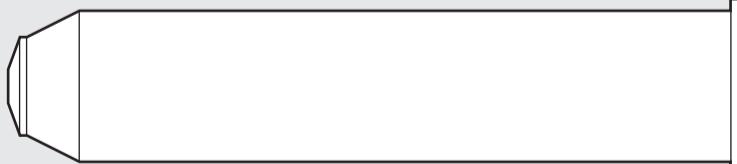
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE				
<b>S-5</b>	2.2 in 57 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 4, 5, 7, 8, 9, 10	KO	SOFT TARGET	UB-32A	32, 64, 96, 128, 160, 192, 224, 256	Lightly armored targets.	
WEAPON	SIZE	IMAGE				
<b>S-8</b>	3.2 in 80 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 4, 5, 7, 8, 9, 10	KOM	HARD TARGET	B-8MI	20, 40, 60,	High explosive Anti-Tank warhead.	
	OFP2	SOFT TARGET		80, 100, 120,	Unarmored targets. Blast fragmentation.	
	TsM	TARGET MARKING		140, 160	Smoke.	
WEAPON	IMAGE					
<b>S-13</b>	4.8 in 122 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 4, 5, 7, 8, 9, 10	OF	SOFT TARGET	B-13L	5, 10, 15, 20, 25, 30, 35, 40	Unarmored targets. Blast fragmentation.	
WEAPON	SIZE	IMAGE				
<b>S-24</b>	9.4 in 240 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 4, 5, 7, 8, 9, 10	B	SOFT TARGET	B-13L	1-8	Reduced smoke version of A.	
WEAPON	SIZE	IMAGE				
<b>S-25</b>	13.4 in 340 mm					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 4, 5, 7, 8, 9, 10	OFM	HARD TARGET		1-8	High explosive Anti-Tank warhead	

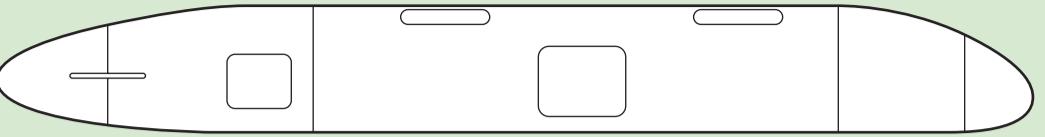
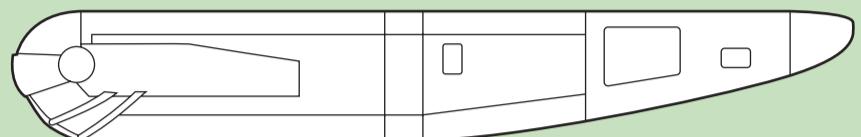
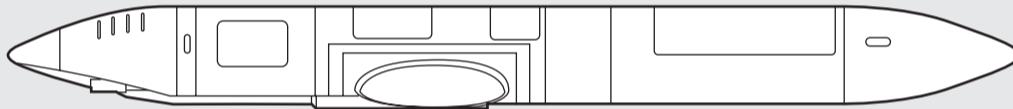
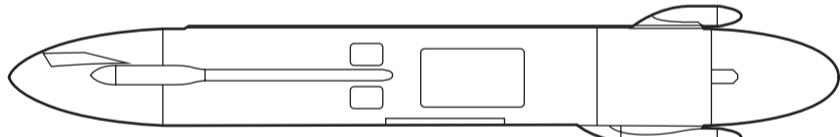
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>BETAB</b>	FREE FALL				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 4, 5, 7, 8, 9, 10	500	BUNKER	1,100 lbs 477 kg	1-8	Concrete piecing bomb.
	500ShP	RUNWAY		1-8	

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE						
<b>FAB</b>	FREE FALL							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
<b>2, 3, 4, 5, 7, 8, 9, 10</b>	<b>100</b>	SOFT TARGET	220.5 lbs 100 kg	<b>1-8, 16, 32</b>	Low-drag, high explosive.			
	<b>250</b>	LIGHT STRUCTURE	551.2 lbs 250 kg	<b>1-8</b>				
	<b>500</b>	MEDIUM STRUCTURE	1102.3 lbs 500 kg					
WEAPON	TYPE	IMAGE						
<b>KAB</b>	GUIDED							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
<b>5, 7</b>	<b>500kr</b>	MEDIUM STRUCTURE	1146.4 lbs 520 kg	<b>1-2</b>	TV guided.			
WEAPON	TYPE	IMAGE						
<b>KMGU</b>	MUNITION DISPENSER							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
<b>2, 3, 4, 5, 7, 8, 9, 10</b>	<b>AO-2.5RT</b>	SOFT TARGET	96 x 5.5 lbs 96 x 2.5 kg	<b>1-8</b>	Fragmentation.			
	<b>PTAB-2.5KO</b>	MEDIUM TARGET			HEAT anti-tank.			
WEAPON	TYPE	IMAGE						
<b>RBK</b>	CLUSTER							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
<b>2, 3, 4, 5, 7, 8, 9, 10</b>	<b>250 PTAB-25KO</b>	MEDIUM TARGET	551.2 lbs 250 kg	<b>1-8</b>	High-drag.			
	<b>250 AO-1Sch</b>	SOFT TARGET			High-drag. HEAT Anti-Tank.			
	<b>500 PTAB-1M</b>	HEAVY TARGET	1,102.3 lbs 500 kg		High-drag. Fragmentation.			
	<b>500 PTAB-10.5</b>							
	<b>500 OAB-2.5RT</b>	SOFT TARGET						
WEAPON	TYPE	IMAGE						
<b>SAB</b>	ILLUMIN- ATION							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
<b>2, 3, 4, 5, 7, 8, 9, 10</b>	<b>100</b>	TARGET MARKING	220.5 lbs 100 kg	<b>1-8</b>	Illuminating targets.			

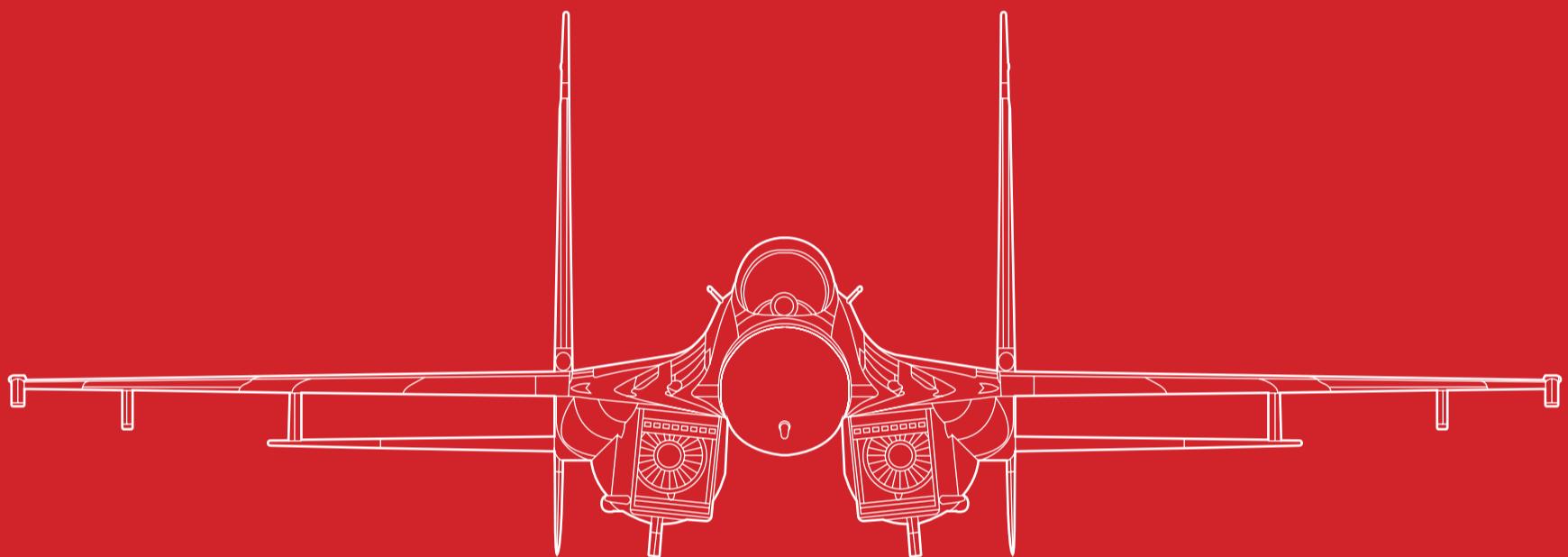
## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
L-081	ELINT		
STATION	VERSION	WEIGHT	INFO
6	FANTASMAGORIA	662 lbs 300.3 kg	Electronic intelligence (ELINT) emission targeting for Kh-25MP/MPU and Kh-58U.
POD	TYPE	IMAGE	
MERCURY	TARGETING		
STATION	VERSION	WEIGHT	INFO
6		1,047 lbs 474.9 kg	Low-light television (LLTV) EO targeting for Kh-29T, KAB-500kr.
POD	TYPE	IMAGE	
MPS	COUNTER MEASURES		
STATION	VERSION	WEIGHT	INFO
1, 11	410	871 lbs 398.1 kg	Electronic countermeasures (ECM) pod.
POD	TYPE	IMAGE	
SPPU	GUN		
STATION	VERSION	WEIGHT	INFO
4, 5, 7, 8	22-1	1,179 lbs 534.8 kg	Dual traversable 23mm GSh-23.
POD	TYPE	IMAGE	
SPS	COUNTER MEASURES		
STATION	VERSION	WEIGHT	INFO
3, 9	141	331 lbs 150.1 kg	Electronic countermeasures (ECM) pod with ASO countermeasures. ASO Pod cannot be used when equipped.
POD	TYPE	IMAGE	
SMOKE GENERATOR	SMOKE		
STATION	VERSION	WEIGHT	INFO
1, 11		1,025 lbs 464.9 kg	Smoke pod for wing tip pylons.

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
800 L	3, 5, 7, 9	309 lbs 140.2 kg	

# AIRCRAFT QUICK REFERENCE

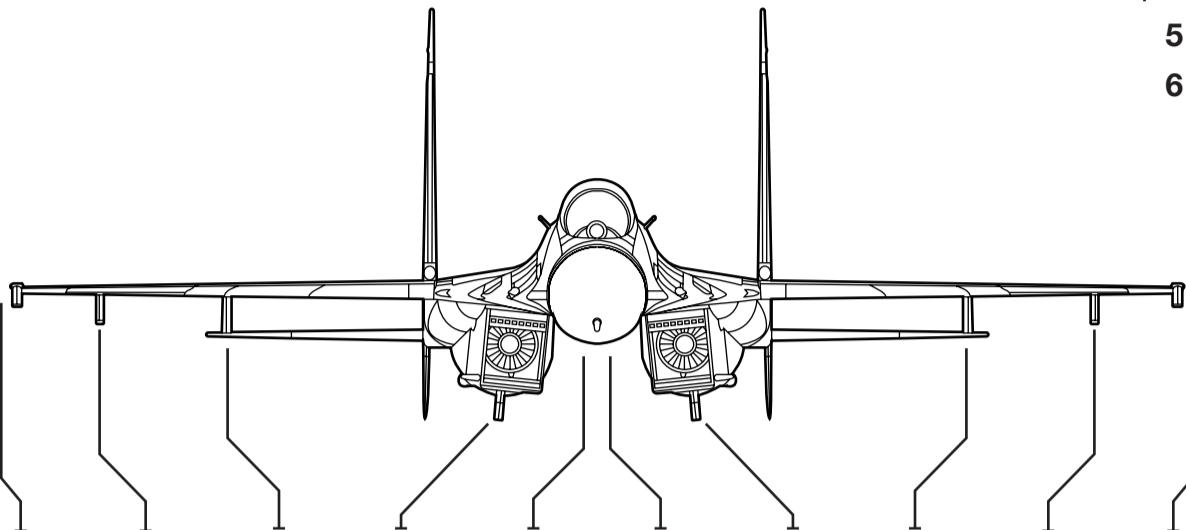


## Su-27 | J-11A FLANKER

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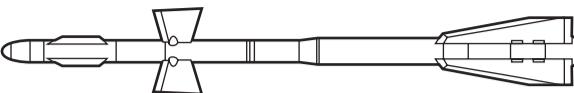
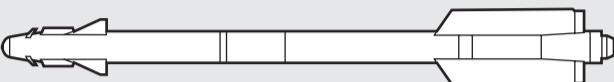
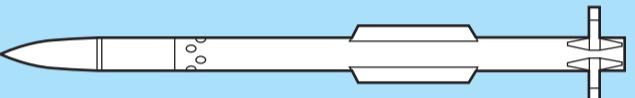
# Su-27 | J-11A FLANKER

WEIGHT	CLEAN	38,030 LBS	* CLEAN.	BOTH		Su-33	J-11				
	MAX	72,753 LBS		WEAPONS AVAILABLE ON STATION							
TAKE OFF	CLEAN	280 KPH	1 ●								
	LOADED	300 KPH	2 ○								
LANDING	FLAPS	380 KPH	3 ●								
	GEAR	300 KPH	5 ●								
	GROUND	250 KPH	6 ○								
TOP SPEED	LOW	1,400 KPH*									
	HIGH	2.35 MACH*									
MAX ALTITUDE		60,695 FT									
MAX G		9									
MAXIMUM TURN RATE	CLEAN	374 KTS									
RADAR	MAX RNG	80 - 100 KM									
GUN	150 ROUNDS										
COUNTER MEASURES	CHAFF	96									
	FLARE	96									
STATION		10	9	8	7	6	5	4	3	2	1
AIR TO AIR MISSILES	R-27	ER			●	●	●	●	●		
		ET			●					●	
		R			●	●	●	●	●	●	
		T			●					●	
	R-73		●	●	●					●	●
ROCKETS	S-8	KOM			●○					○●	
		OFP2			●○					○●	
		TsM			●○					○●	
		OF			●○					○●	
	S-25	OFM			●○					○●	
BOMBS	BETAB	500			●	●	●	●	●	●	
		500ShP			●	●	●	●	●	●	
	FAB	100			●○	●○	●○	●○	●○	●○	
		250			●○	●○	●○	●○	●○	●○	
		500 M62			●○	●○	●○	●○	●○	●○	
	KMGU	AO-2.5RT			●	●	●	●	●	●	
		PTAB-2.5KO			●	●	●	●	●	●	
	RBK	250 PTAB-2.5M			●○	●○	●○	●○	●○	●○	
		250 AO-1Sch			●	●	●	●	●	●	
		500 PTAB-1M			●	●	●	●	●	●	
		500 PTAB-10.5			●○	●○	●○	●○	●○	●○	
		500 OAB-2.5RT			●	●	●	●	●	●	
PODS	SAB	100			●	●	●	●	●	●	
	L-005	SORBTIYA	●								●
	SMOKE GENERATOR		●	●	●	●	●	●	●	●	●

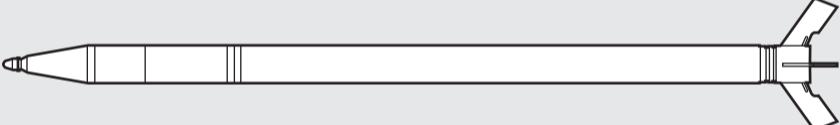
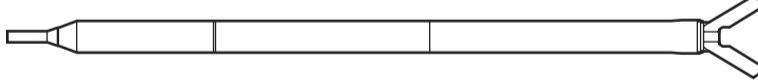


AIR TO AIR WEAPONS							
WEAPON	TYPE	IMAGE			NAME	RANGE	
R-27	SEMI-ACTIVE RADAR				AA-10 ALAMO	MEDIUM	
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO	
3, 4, 5, 6, 7, 8	ER	35 nm 65 km	ALL	1-6	1990	Lock on after launch capability.	
	R	23 nm 42 km			1986		

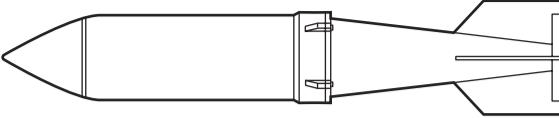
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-27</b>	INFRARED					<b>AA-10 ALAMO</b>	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
<b>3, 8</b>	<b>ET</b>	28 nm 52 km	ALL	<b>1-2</b>	1990	Lock on before launch.			
	<b>T</b>	18 nm 33 km			1986				
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-73</b>	INFRARED					<b>AA-11 ARCHER</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
<b>1, 2, 3, 8, 9, 10</b>		16 nm 30 km	ALL	<b>1-6</b>	1984	High off boresight.			
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-77</b>	ACTIVE RADAR					<b>AA-12 ADDER</b>	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
<b>3, 8</b>		27 nm 50 km	ALL	<b>6</b>	1992	Can be used against missiles.			

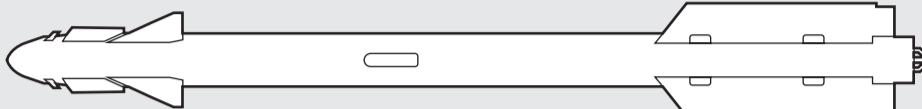
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE					
<b>S-8</b>	3.2 in 80 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
<b>3, 8</b>	<b>KOM</b>	HARD TARGET	<b>B-8</b>	<b>20, 40, 60, 80</b>	High explosive Anti-Tank warhead.		
	<b>OFP2</b>	SOFT TARGET			Unarmored targets. Blast fragmentation.		
	<b>TsM</b>	TARGET MARKING			Smoke.		
WEAPON	IMAGE						
<b>S-13</b>	4.8 in 122 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
<b>3, 8</b>	<b>OF</b>	SOFT TARGET	<b>BL-13</b>	<b>5, 10, 15, 20</b>	Unarmored targets. Blast fragmentation.		
WEAPON	SIZE	IMAGE					
<b>S-25</b>	13.4 in 340 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
<b>3, 8</b>	<b>OFM</b>	HARD TARGET		<b>1-4</b>	High explosive Anti-Tank warhead		

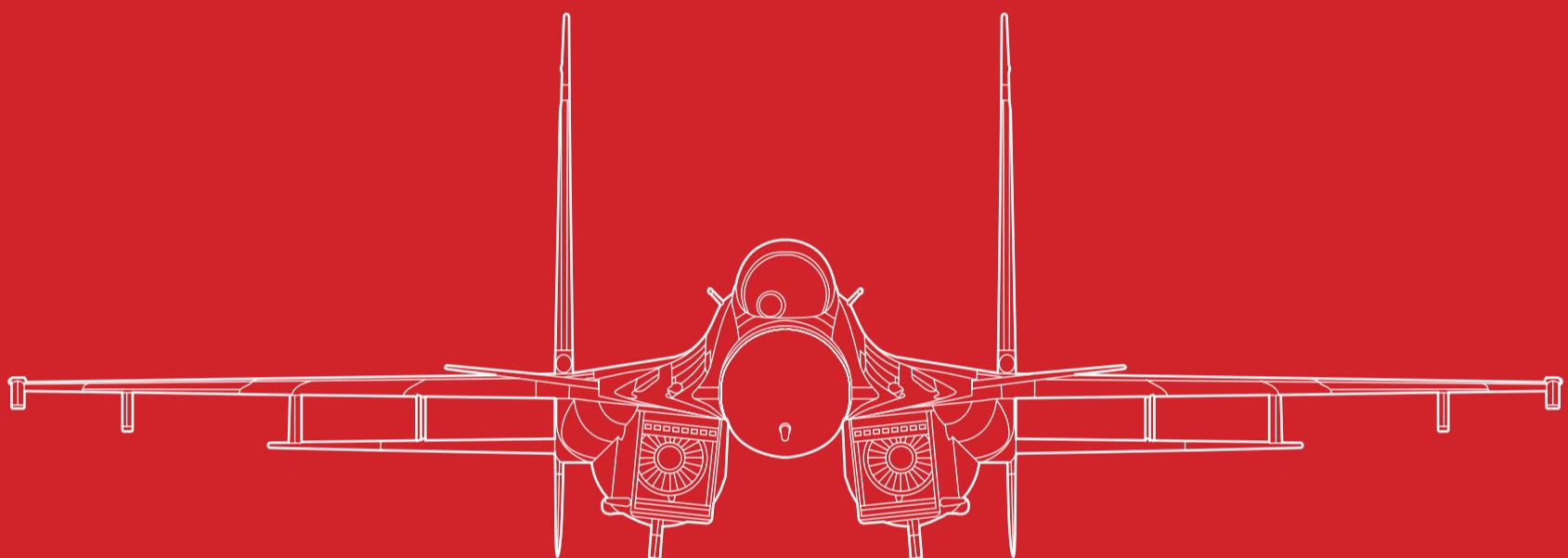
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE						
<b>BETAB</b>	FREE FALL							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
3, 4, 5, 6, 7, 8	500	BUNKER	1,100 lbs 477 kg	1-6	Concrete piecing bomb.			
	500ShP	RUNWAY						
WEAPON	TYPE	IMAGE						
<b>FAB</b>	FREE FALL							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
3, 4, 5, 6, 7, 8	100	SOFT TARGET	220.5 lbs 100 kg	1-6, 12, 18, 24, 30, 36	Low-drag, high explosive.			
	250	LIGHT STRUCTURE	551.2 lbs 250 kg	1-12, 18, 20, 25, 30, 33				
	500 M62	MEDIUM STRUCTURE	1102.3 lbs 500 kg	1-6				
WEAPON	TYPE	IMAGE						
<b>KMGU</b>	MUNITION DISPENSER							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
3, 4, 5, 6, 7, 8	AO-2.5RT	SOFT TARGET	96 x 5.5 lbs 96 x 2.5 kg	1-6	Fragmentation.			
	PTAB-2.5KO	MEDIUM TARGET			HEAT anti-tank.			
WEAPON	TYPE	IMAGE						
<b>RBK</b>	CLUSTER							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
3, 4, 5, 6, 7, 8	250 PTAB-25KO	MEDIUM TARGET	551.2 lbs 250 kg	1-8	High-drag.			
	250 AO-1Sch	SOFT TARGET			High-drag. HEAT Anti-Tank.			
	500 PTAB-1M	HEAVY TARGET	1,102.3 lbs 500 kg		High-drag. Fragmentation.			
	500 PTAB-10.5							
	500 OAB-2.5RT	SOFT TARGET						
WEAPON	TYPE	IMAGE						
<b>SAB</b>	ILLUMINATION							
STATION	VERSION	TARGET	WEIGHT	QTY	INFO			
3, 4, 5, 6, 7, 8	100	TARGET MARKING	220.5 lbs 100 kg	1-6	Illuminating targets.			

## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
<b>L005</b>	<b>ELINT</b>		
STATION	VERSION	WEIGHT	INFO
1, 10	SORBTSIYA	661 lbs 299.8 kg	Electronic countermeasures (ECM) pod.
POD	TYPE	IMAGE	
<b>SMOKE GENERATOR</b>	<b>SMOKE</b>		
STATION	VERSION	WEIGHT	INFO
1 - 10		1,025 lbs 464.9 kg	Smoke pod for wing tip pylons.

# AIRCRAFT QUICK REFERENCE



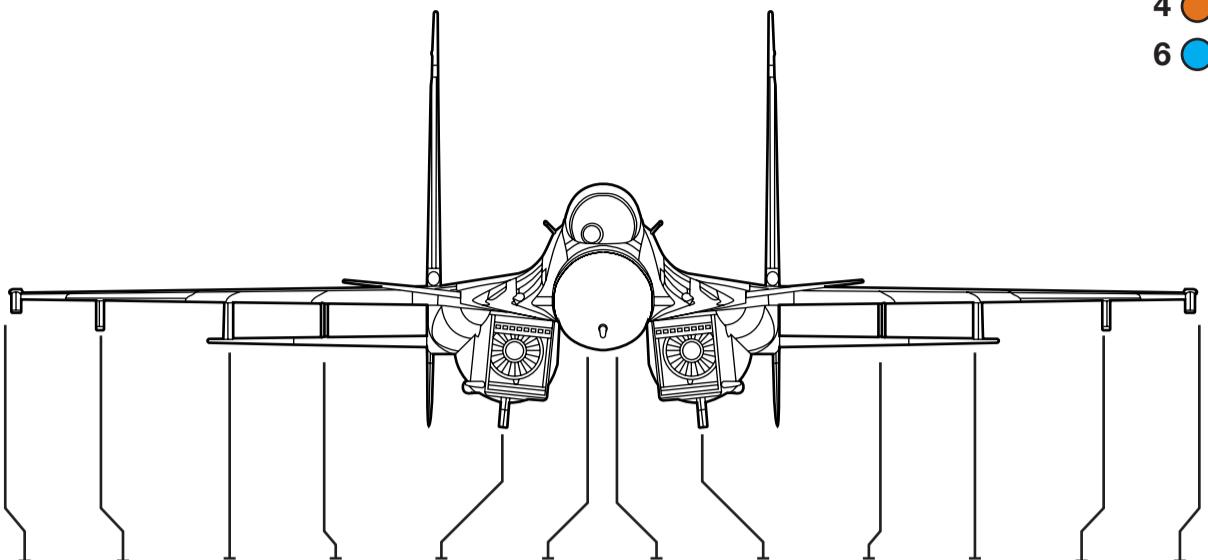
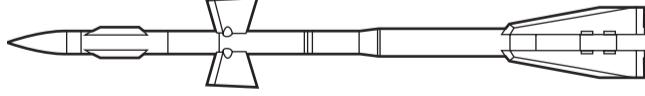
## Su-33 FLANKER-D

CREATED BY GOLDWOLF

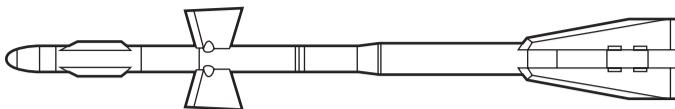
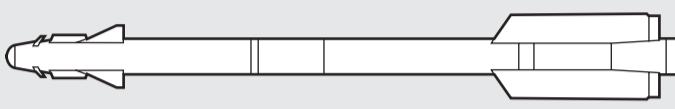
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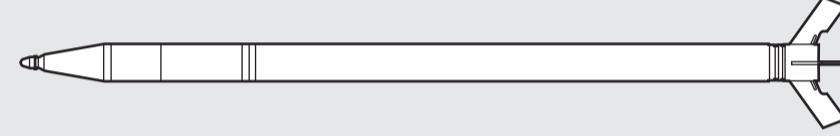
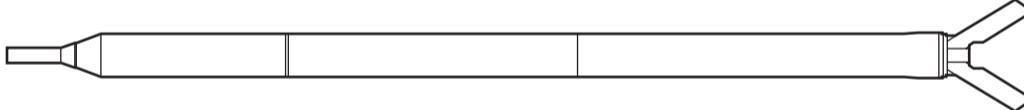
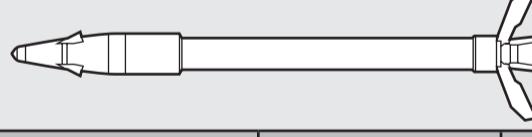
# Su-33 FLANKER-D

WEIGHT	CLEAN	43,387 LBS	* CLEAN.	WEAPONS AVAILABLE ON STATION	1 ●											
	MAX	72,753 LBS			2 ○											
TAKE OFF	CLEAN	280 KPH			3 ●											
	LOADED	300 KPH			4 ○											
LANDING	FLAPS	380 KPH			6 ●											
	GEAR	300 KPH														
	GROUND	250 KPH														
TOP SPEED	LOW	1,300 KPH*														
	HIGH	2.17 MACH*														
MAX ALTITUDE		55,774 FT														
MAX G		8.5														
MAXIMUM TURN RATE	CLEAN	374 KTS														
RADAR	MAX RNG	100 KM														
GUN	150 ROUNDS															
COUNTER MEASURES	CHAFF	48														
	FLARE	48														
STATION			12	11	10	9	8	7	6	5	4	3	2	1		
AIR TO AIR MISSILES	R-27	ER				●	●	●	●	●	●	●	●			
		ET				●								●		
		R				●	●	●	●	●	●	●	●	●		
		T				●								●		
	R-73		●	●	●								●	●		
ROCKETS	S-8	KOM			●	●						●	●			
		OPF2			●	●						●	●			
		TsM			●	●						●	●			
	S-13	OF			●	●						●	●			
	S-25	OFM			●	●						●	●			
BOMBS	BETAB	500			●	●	●	●	●	●	●	●	●			
	FAB	100		●	●	●	●	●	●	●	●	●	●			
		250		●	●	●	●	●	●	●	●	●	●			
		500 M62			●	●	●	●	●	●	●	●	●			
	KMGU	AO-2.5RT			●	●	●	●	●	●	●	●	●			
		PTAB-2.5KO			●	●	●	●	●	●	●	●	●			
	RBK	250	PTAB-2.5M		●	●	●	●	●	●	●	●	●			
		250	A0-1Sch		●	●	●	●	●	●	●	●	●			
		500	PTAB-1M		●	●	●	●	●	●	●	●	●			
		500	PTAB-10.5		●	●	●	●	●	●	●	●	●			
		500	OAB-2.5RT		●	●	●	●	●	●	●	●	●			
PODS	SAB	100			●	●	●	●	●	●	●	●	●			
	L-005	SORBTIYA	●											●		
	SMOKE GENERATOR		●	●	●	●	●	●	●	●	●	●	●	●		
AIR TO AIR WEAPONS																
WEAPON	TYPE	IMAGE				NAME			RANGE							
R-27	SEMI-ACTIVE RADAR					AA-10 ALAMO			MEDIUM							
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO									Lock on after launch capability.	
3, 4, 5, 6, 7, 8	ER	35 nm 65 km	ALL	1-6	1990											
	R	23 nm 42 km			1986											

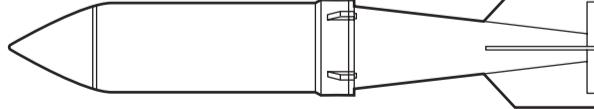
## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-27</b>	INFRARED					<b>AA-10 ALAMO</b>	MEDIUM		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
<b>3, 8</b>	<b>ET</b>	28 nm 52 km	ALL	<b>1-2</b>	1990	Lock on before launch.			
	<b>T</b>	18 nm 33 km			1986				
WEAPON	TYPE	IMAGE				NAME	RANGE		
<b>R-73</b>	INFRARED					<b>AA-11 ARCHER</b>	SHORT		
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO			
<b>1, 2, 3, 8, 9, 10</b>		16 nm 30 km	ALL	<b>1-6</b>	1984	High off boresight.			

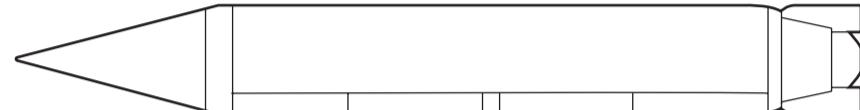
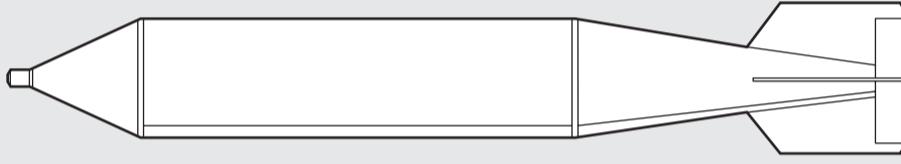
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE					
<b>S-8</b>	3.2 in 80 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
<b>3, 8</b>	<b>KOM</b>	HARD TARGET	<b>B-8</b>	<b>20, 40, 60, 80</b>	High explosive Anti-Tank warhead.		
	<b>OFP2</b>	SOFT TARGET			Unarmored targets. Blast fragmentation.		
	<b>TsM</b>	TARGET MARKING			Smoke.		
WEAPON	SIZE	IMAGE					
<b>S-13</b>	4.8 in 122 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
<b>3, 8</b>	<b>OF</b>	SOFT TARGET	<b>BL-13</b>	<b>5, 10, 15, 20</b>	Unarmored targets. Blast fragmentation.		
WEAPON	SIZE	IMAGE					
<b>S-25</b>	13.4 in 340 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
<b>3, 8</b>	<b>OFM</b>	HARD TARGET		<b>1-4</b>	High explosive Anti-Tank warhead		

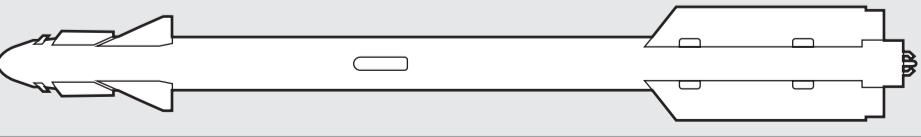
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>BETAB</b>	FREE FALL				
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
<b>3, 4, 5, 6, 7, 8</b>	<b>500</b>	BUNKER	1,100 lbs 477 kg	<b>1-6</b>	Concrete piecing bomb.
	<b>500ShP</b>	RUNWAY			

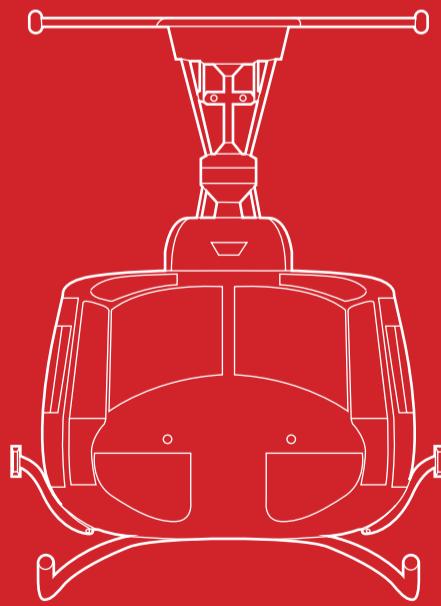
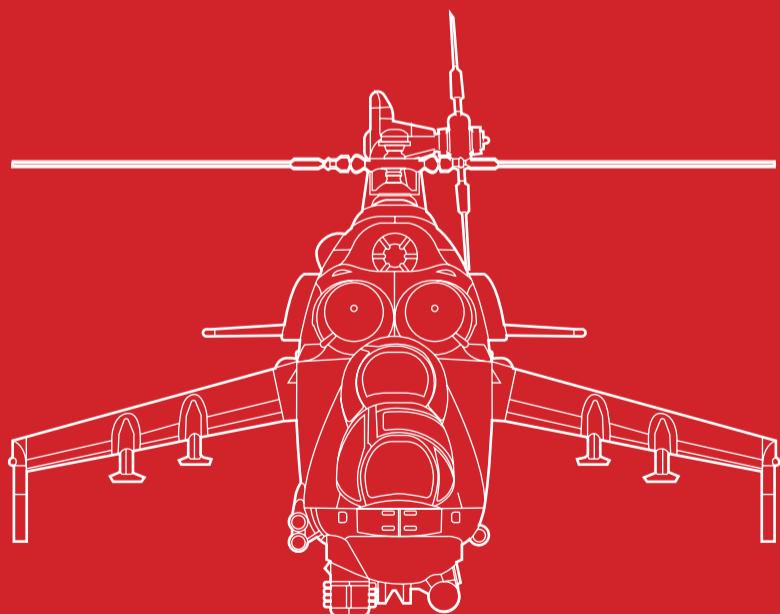
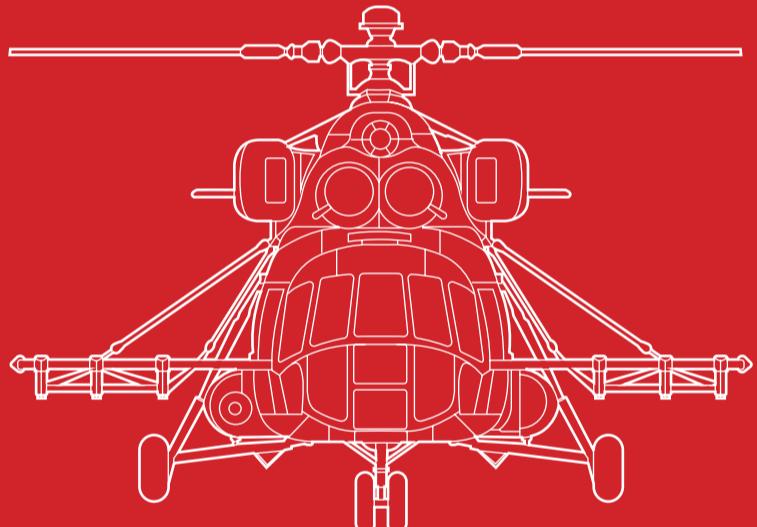
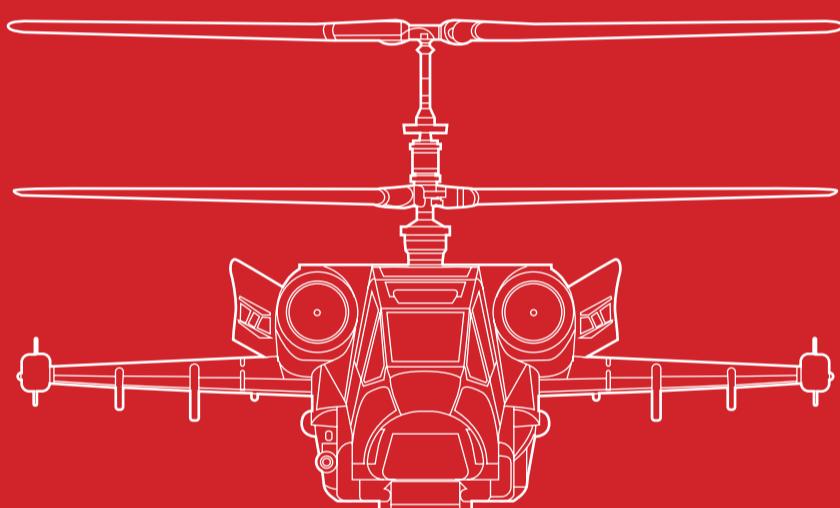
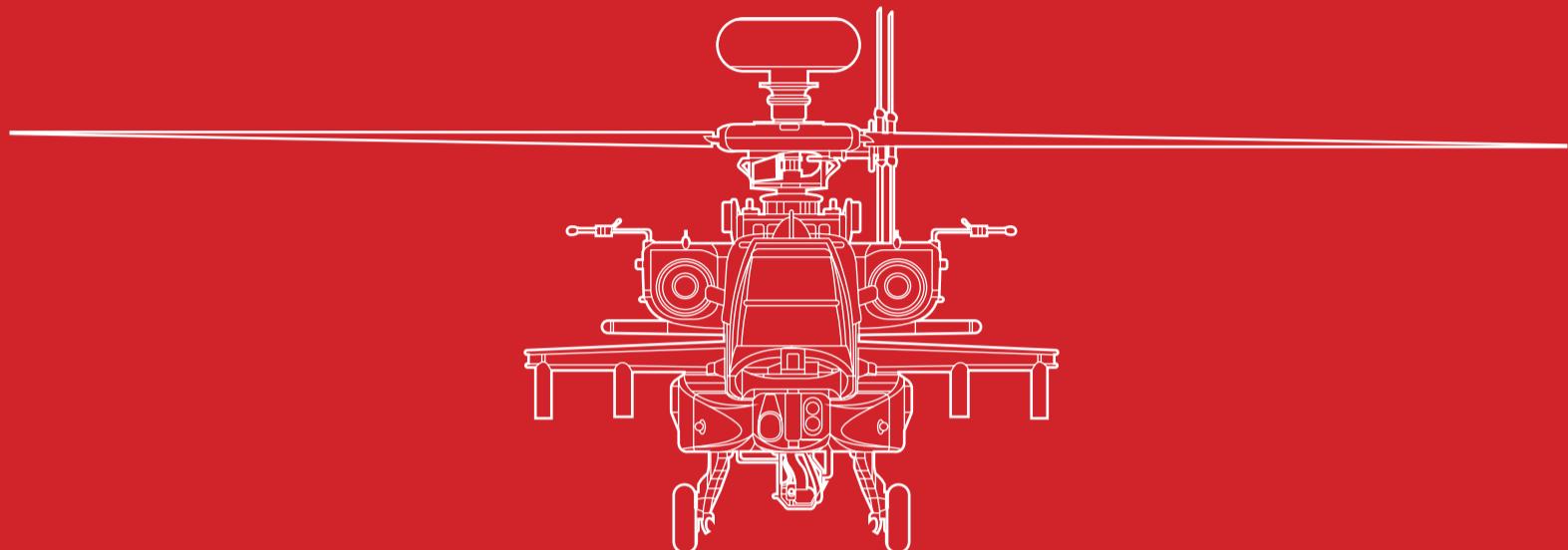
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE					
<b>FAB</b>	FREE FALL						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>3, 4, 5, 6, 7, 8</b>	100	SOFT TARGET	220.5 lbs 100 kg	1-6, 12, 18, 24, 30, 36	Low-drag, high explosive.		
	250	LIGHT STRUCTURE	551.2 lbs 250 kg	1-12, 18, 20, 25, 30, 33			
	500 M62	MEDIUM STRUCTURE	1102.3 lbs 500 kg	1-6			
WEAPON	TYPE	IMAGE					
<b>KMGU</b>	MUNITION DISPENSER						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>3, 4, 5, 6, 7, 8</b>	AO-2.5RT	SOFT TARGET	96 x 5.5 lbs 96 x 2.5 kg	1-6	Fragmentation.		
	PTAB-2.5KO	MEDIUM TARGET			HEAT anti-tank.		
WEAPON	TYPE	IMAGE					
<b>RBK</b>	CLUSTER						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>3, 4, 5, 6, 7, 8</b>	250 PTAB-25KO	MEDIUM TARGET	551.2 lbs 250 kg	1-8	High-drag.		
	250 AO-1Sch	SOFT TARGET			High-drag. HEAT Anti-Tank.		
	500 PTAB-1M	HEAVY TARGET	1,102.3 lbs 500 kg		High-drag. Fragmentation.		
	500 PTAB-10.5						
	500 OAB-2.5RT	SOFT TARGET					
WEAPON	TYPE	IMAGE					
<b>SAB</b>	ILLUMINATION						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>3, 4, 5, 6, 7, 8</b>	100	TARGET MARKING	220.5 lbs 100 kg	1-6	Illuminating targets.		

## AIR TO GROUND - PODS

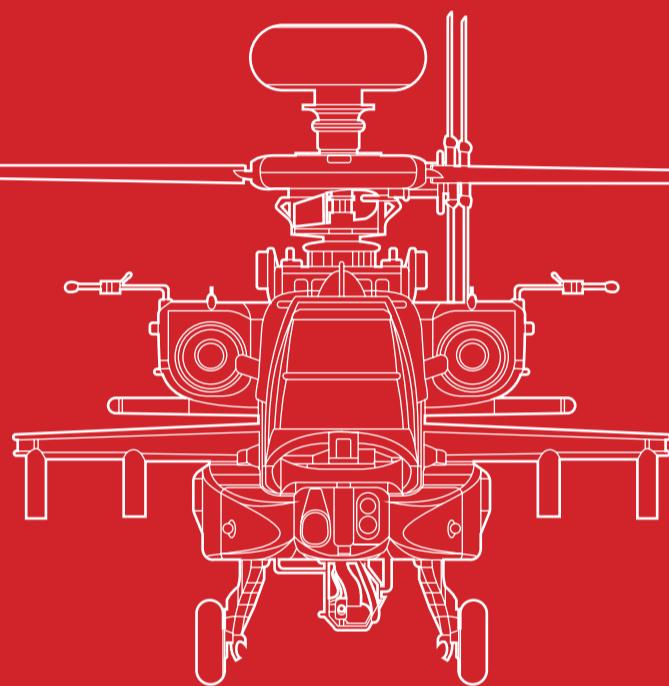
POD	TYPE	IMAGE				
<b>L005</b>	ELINT					
STATION	VERSION	WEIGHT	INFO			
<b>1, 10</b>	SORBTIYA	661 lbs 299.8 kg	Electronic countermeasures (ECM) pod.			
POD	TYPE	IMAGE				
<b>SMOKE GENERATOR</b>	SMOKE					
STATION	VERSION	WEIGHT	INFO			
<b>1 - 10</b>		1,025 lbs 464.9 kg	Smoke pod for wing tip pylons.			

# AIRCRAFT QUICK REFERENCE



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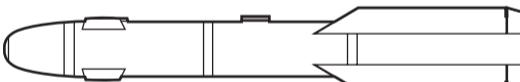
## AH-64D APACHE LONGBOW

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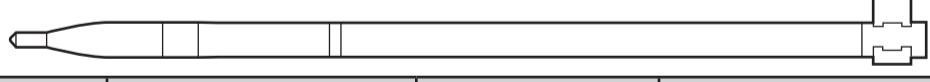
# AH-64D APACHE LONGBOW

WEIGHT	CLEAN	12,783 LBS		WEAPONS AVAILABLE ON STATION	1 ●
	MAX	23,000 LBS			2 ●
LIMITS	MAX ROTOR	121% for 12 sec			3 ●
	MAX TEMP	949 deg for 12 sec			4 ●
TAKE OFF	MAX TORQUE	125% for 6 sec			
	TAXI	5 - 6 KTS			
LANDING	ROLLING	50 KTS			
	TO HOVER	40 KTS			
TOP SPEED	HOVER	5 KTS			
	CRUISE	143 KTS			
RANGE	MAX	158 KTS			
	COMBAT	20,000 FT			
GUN	FERRY	480 KM			
	1200 ROUNDS	1,896 KM			
COUNTER MEASURES	CHAFF	30			
	FLARE	60			
STATION		4	3	2	1
AIR TO GROUND MISSILES	AGM-114	K	● ● ● ●	● ● ● ●	● ● ● ●
ROCKETS	HYDRA	M151	●	●	●
		M229	●	●	●
		M257	●	●	●
		M274	●	●	●
		M282	●	●	●
FUEL TANK	230 GAL	●	●	●	●

## AIR TO GROUND MISSILES

WEAPON	TYPE	IMAGE			NAME
AGM-114	LASER/RADAR GUIDED				HELLFIRE
STATION	VERSION	MAX RNG	TARGET	QTY	YR
1, 2, 3, 4	K	4.3 nm 8 km	ANTI-ARMOR	1-16	1993

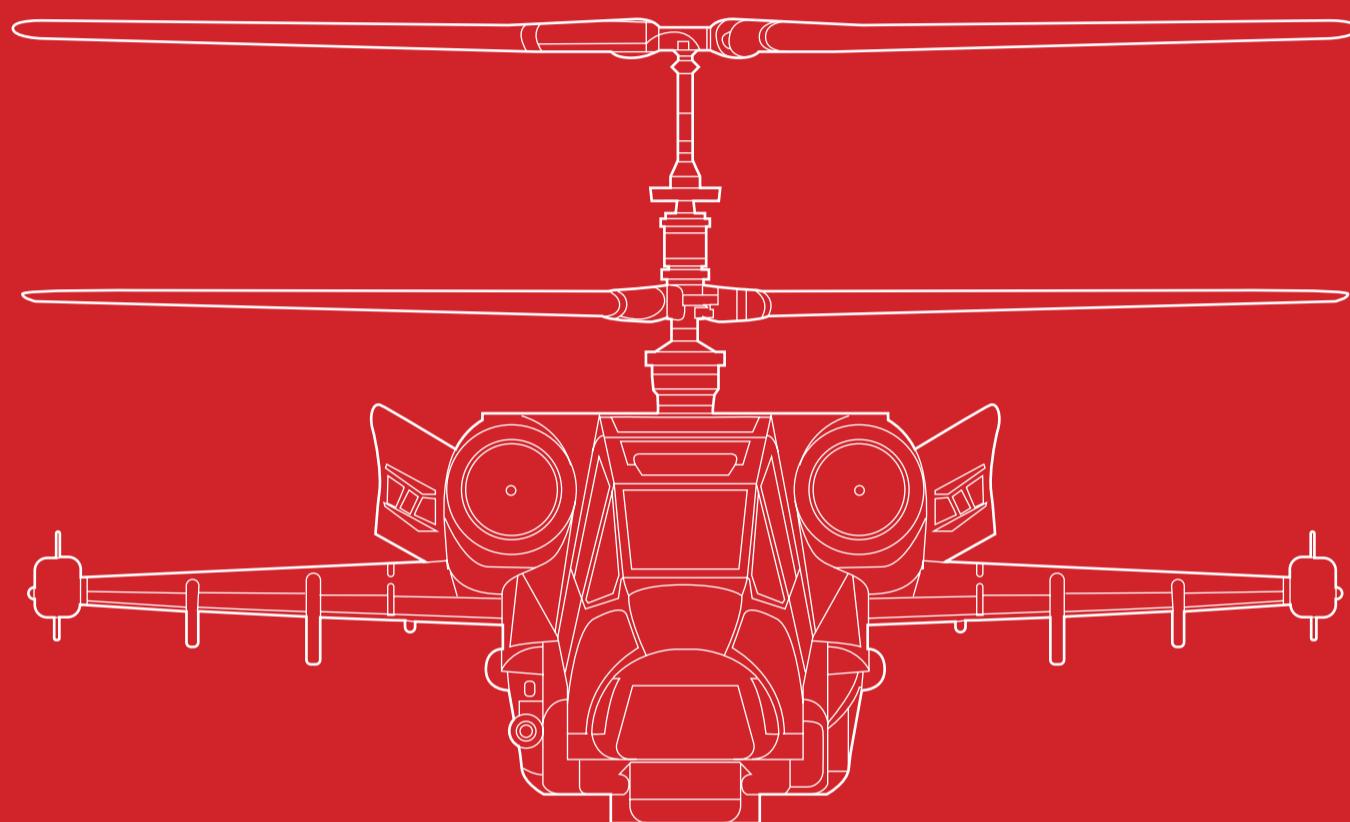
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE					
HYDRA	2.75 in 70 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY			
1, 2, 3, 4	M151	SOFT TARGET	M261	19, 38, 57, 76	High Explosive.		
	M229	HARD TARGET			High Explosive 17 Pounder.		
	M257	TARGET MARKING			Parachute illumination.		
	M274				Parachute smoke.		
	M282	HARD TARGET			Multipurpose Penetrator.		

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE
230 GAL	1, 2, 3, 4	146 lbs 66.2 kg	

# AIRCRAFT QUICK REFERENCE



**KA-50  
BLACK SHARK**

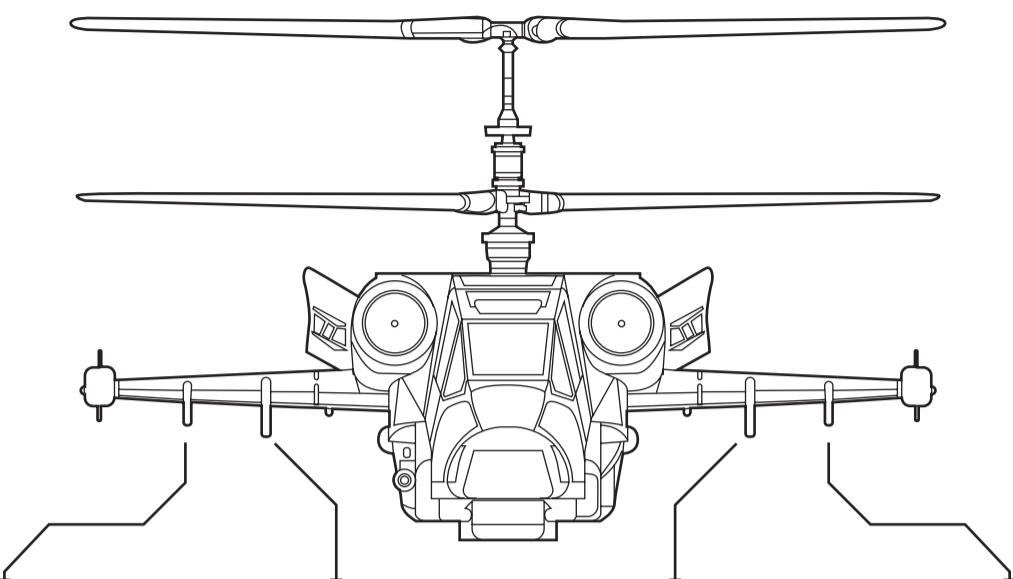
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# KA-50 BLACK SHARK

TAKE OFF	CLEAN	17,703 LBS		WEAPONS   1 ●	
	MAX	26,235 LBS		AVAILABLE   6 ●	
	TO HOVER	2 - 10 M		ON STATION	
	CLIMBING	120 KPH			
	TO HOVER	120 KPH			
	-5 M/S				
	GEAR	10 M			
	GEAR DN	200 KPH			
	GEAR UP	300 KPH			
	MAX ALTITUDE	18,000 FT			
MAX G		3G			
MAX BANK		65 DEG			
GUN	460 ROUNDS				
GUN RANGE	2000m MAX 800m MIN				
COUNTER MEASURES	CHAFF	0			
	FLARE	128			
STATION	4	3	2	1	
AIR TO GROUND MISSILES	9M121	●		●	
	Kh-25	●		●	
ROCKETS	S-8	KOM	●	●	
		OFP2	●	●	
		OM	●	●	
		TsM	●	●	
	S-13	OF	●	●	
BOMBS	FAB	250	●	●	
		500 M62	●	●	
	KMGU	AO-2.5RT	●	●	
		PTAB-2.5KO	●	●	
PODS	UPK	23-250	●	●	
FUEL TANK	PTB 450	●	●	●	



## AIR TO GROUND MISSILES

WEAPON	TYPE	IMAGE			NAME	
<b>9M121</b>	LASER GUIDED BEAM RIDING				<b>VIKHR</b>	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
1, 4		6.5 nm 12 km	ANTI-ARMOR	6, 12	1990	HEAT Charge, Armor penetrator. Prox fuse against air and groups.
WEAPON	TYPE	IMAGE			NAME	
<b>Kh-25</b>	AIR TO SURFACE				<b>KAREN</b>	
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
1, 4	ML	6 nm 11 km	ANTI-ARMOR	1-2	1975	Semi-active laser guidance.

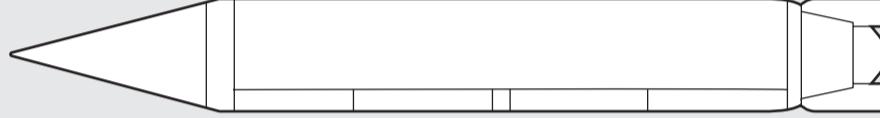
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE					
<b>S-8</b>	3.2 in 80 mm						
STATION	VERSION	TARGET	LAUNCHER	QTY			
1, 2, 3, 4	KOM	HARD TARGET	B-8V20A	20, 40, 60, 80	HEAT warhead.		
	OFP2	SOFT TARGET			Blast frag		
	OM	TARGET MARKING			Illumination.		
	TsM				Smoke.		

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE			
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO
<b>S-13</b> 1, 2, 3, 4	<b>4.8 in 122 mm</b> <b>OF</b>	<b>SOFT TARGET</b>	<b>B-13L</b>	<b>5, 10, 15, 20</b>	Unarmored targets. Blast fragmentation.

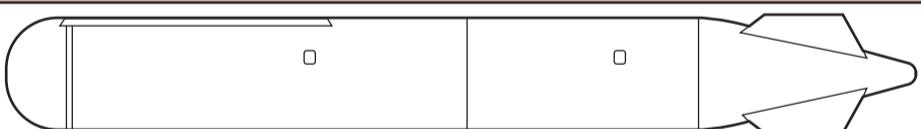
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>FAB</b> 1, 2, 3, 4	<b>FREE FALL</b>	<b>LIGHT STRUCTURE</b>	<b>551.2 lbs 250 kg</b>	<b>1-4</b>	Low-drag, high explosive.		
	<b>500 M62</b>	<b>MEDIUM STRUCTURE</b>	<b>1102.3 lbs 500 kg</b>				
WEAPON	TYPE	IMAGE					
<b>KMGU</b>	<b>BOMB DISPENSER</b>						
STATION	VERSION	TARGET	WEIGHT	QTY	INFO		
<b>1, 2, 3, 4</b>	<b>AO-2.5RT</b>	<b>SOFT TARGET</b>	<b>96 x 5.5 lbs 96 x 2.5 kg</b>	<b>96, 192, 288, 384</b>	Fragmentation.		
	<b>PTAB-2.5KO</b>	<b>MEDIUM TARGET</b>			HEAT anti-tank.		

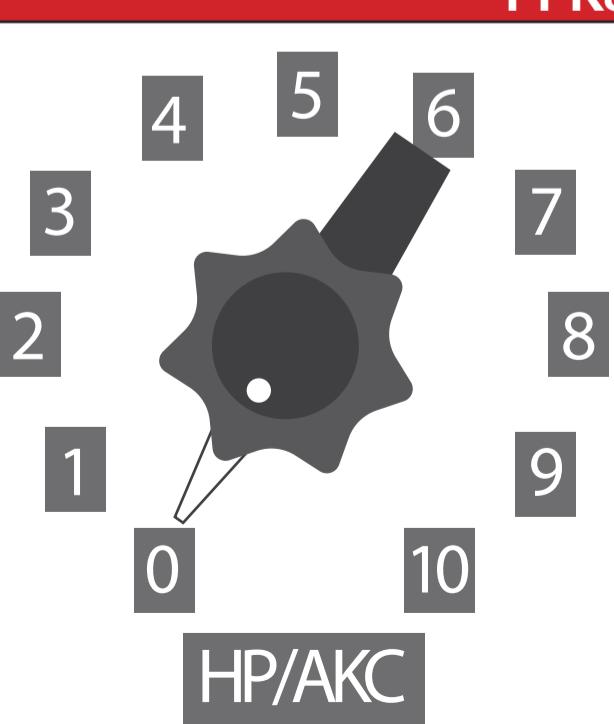
## AIR TO GROUND - PODS

POD	TYPE	IMAGE		
STATION	VERSION	WEIGHT	INFO	
<b>UPK</b> 1, 2, 3, 4	<b>GUN</b> <b>23-250</b>	<b>481 lbs 218.2 kg</b>	Dual GSh-23L 23mm gun pod.	

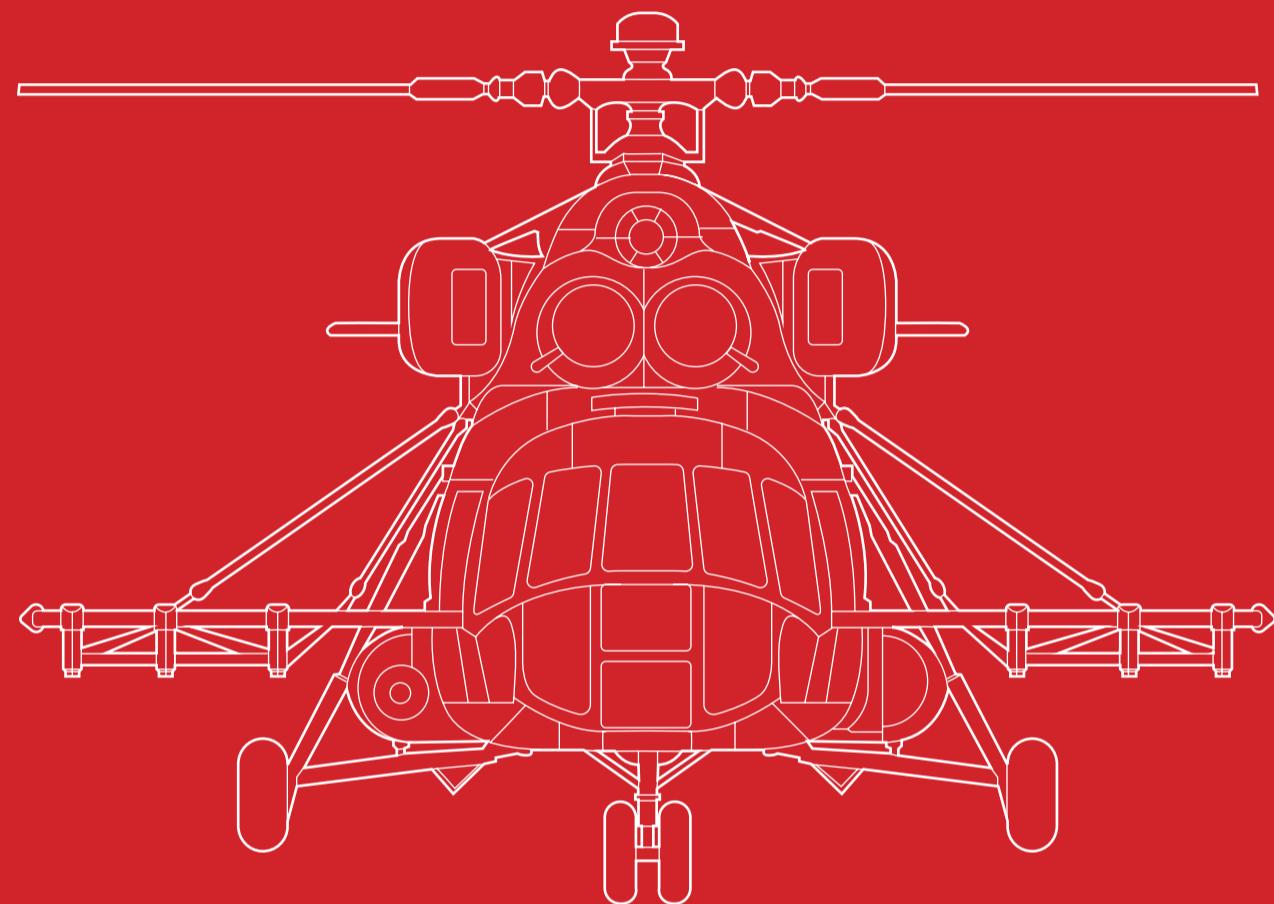
## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE	
<b>PTB 450</b>	<b>1, 2, 3, 4</b>	<b>243 lbs 110.2 kg</b>		

## PPK800 WEAPON PREPARATION

	<b>0</b>	<b>S-8KOM</b>
	<b>1</b>	<b>S-8TsM</b>
	<b>2</b>	<b>S-13</b>
	<b>3</b>	<b>NOT USED</b>
	<b>4</b>	<b>S-8M</b>
	<b>5</b>	<b>UPK-23-250</b>
	<b>6</b>	<b>NOT USED</b>
	<b>7</b>	<b>FAB-250</b>
	<b>8</b>	<b>FAB-500</b>
	<b>9</b>	<b>KMGU-AO</b>
	<b>10</b>	<b>KMGU-PTAB</b>

# AIRCRAFT QUICK REFERENCE



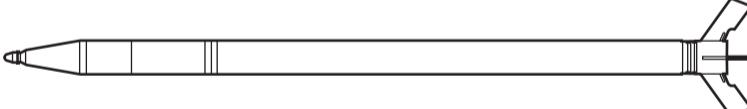
**Mi-8MTV2  
MAGNIFICENT EIGHT**

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# Mi-8MTV2 MAGNIFICENT EIGHT

WEIGHT	CLEAN	19,546 LBS	* CLEAN ** FULLY LOADED	WEAPONS   1 ● AVAILABLE ON STATION					
	MAX	28,660 LBS							
LIMITS	MAX ROTOR		101% for 20 sec						
	MAX TEMP		880 deg						
TAKE OFF	ROTOR	101%							
	TO HOVER	2 - 10 M							
	CLIMBING	120 KPH							
LANDING	TO HOVER	120 KPH							
		-5 M/S							
	100m	60 KPH							
TOP SPEED		230 KPH							
MAX ALTITUDE		18,000 FT*							
MAX G		3G							
MAX BANK		65 DEG							
COUNTER MEASURES	CHAFF	0							
	FLARE	128							
STATION	PKT	KORD	6	5	4	3	2	1	
ROCKETS	S-8	KOM	●	●	●	●	●	●	●
		OFP2	●	●	●	●	●	●	●
		OM	●	●	●	●	●	●	●
		TsM	●	●	●	●	●	●	●
BOMBS	FAB	100	●	●	●	●	●	●	●
		250	●	●	●	●	●	●	●
		500 M62	●	●	●	●	●	●	●
	SAB	100	●	●	●	●	●	●	●
PODS	GUV	AP-30	●	●	●	●	●	●	●
		YakB GSHP	●	●	●	●	●	●	●
	KORD		●						
	PKT		●						
	UPK	23-250			●			●	

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE					
<b>S-8</b>	3.2 in 80 mm						
							
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
1, 2, 3, 4, 5, 6	KOM	HARD TARGET	B-8V20A	1-6	High explosive Anti-Tank warhead.		
	OFP2	SOFT TARGET			Unarmored targets. Blast fragmentation.		
	OM	TARGET MARKING			Illumination.		
	TsM				Smoke.		

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
<b>FAB</b>	FREE FALL				
					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
1, 2, 3, 4, 5, 6	100	SOFT TARGET	220.5 lbs 100 kg	1-6	Low-drag, high explosive.
	250	LIGHT STRUCTURE	551.2 lbs 250 kg		
	500 M62	MEDIUM STRUCTURE	1102.3 lbs 500 kg		

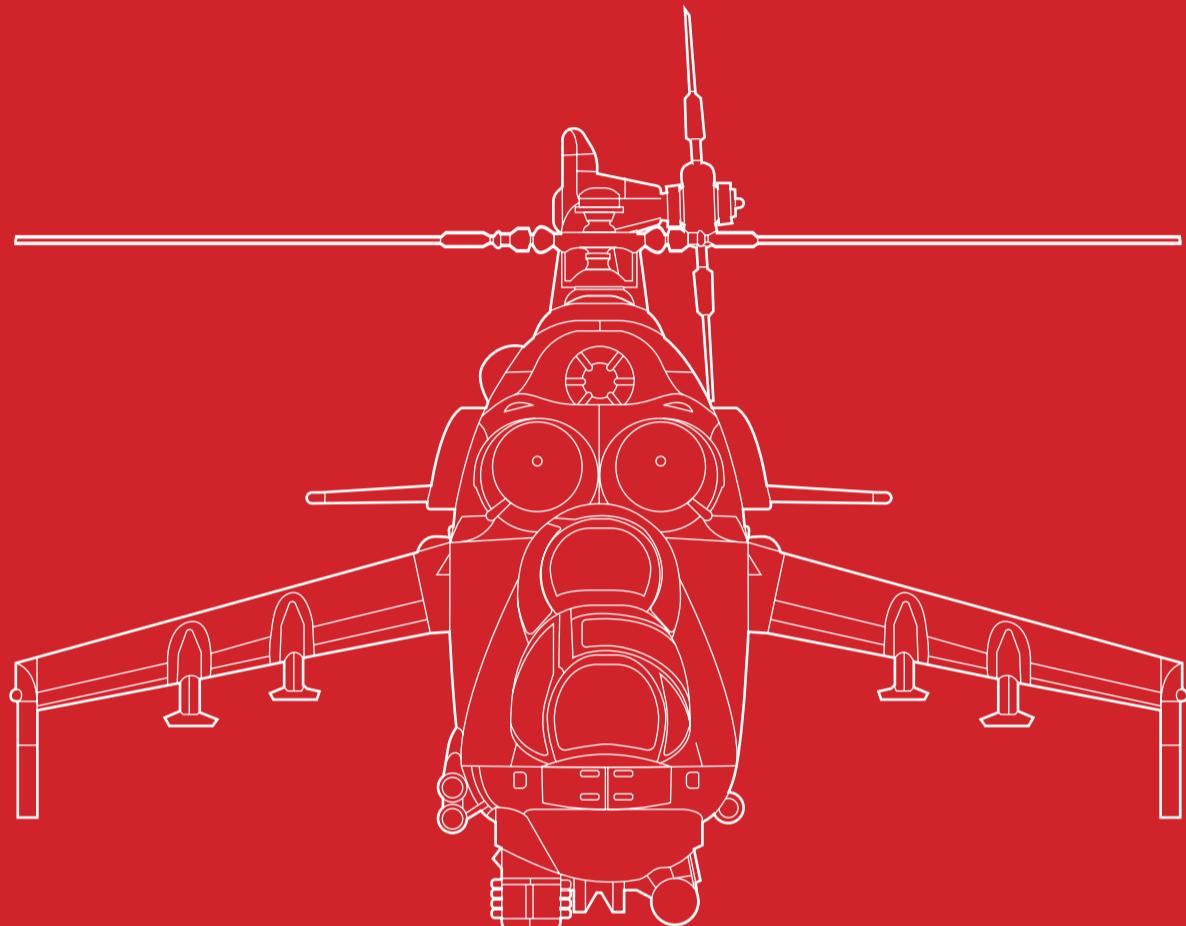
## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
<b>SAB</b>	ILLUMINATION				
<b>1, 2, 3, 4, 5, 6</b>	<b>100</b>	TARGET MARKING	220.5 lbs 100 kg	1-6	Illuminating targets.

## AIR TO GROUND - PODS

POD	TYPE	IMAGE		
STATION	VERSION	WEIGHT	INFO	
<b>GUV</b>	<b>GUN</b>			
<b>1, 2, 5, 6</b>	<b>AP-30</b>	604 lbs 274 kg	30mm automatic grenade launcher	
<b>2, 5</b>	<b>YakB GSHP</b>	996 lbs 451.8 kg	2x7.62mm + 1x12.7mm machine gun pod.	
POD	TYPE	IMAGE		
<b>KORD</b>	<b>GUN</b>			
<b>KORD</b>	<b>25</b>	209 lbs 94.8 kg	12.7mm gun emplacement.	
POD	TYPE	IMAGE		
<b>PKT</b>	<b>GUN</b>			
<b>PKT</b>		198 lbs 89.8 kg	7.62mm gun emplacement.	
POD	TYPE	IMAGE		
<b>UPK</b>	<b>GUN</b>			
<b>2, 5</b>	<b>23-250</b>	481 lbs 218.2 kg	Dual GSh-23L 23mm gun pod.	

# AIRCRAFT QUICK REFERENCE



**Mi-24P  
HIND**

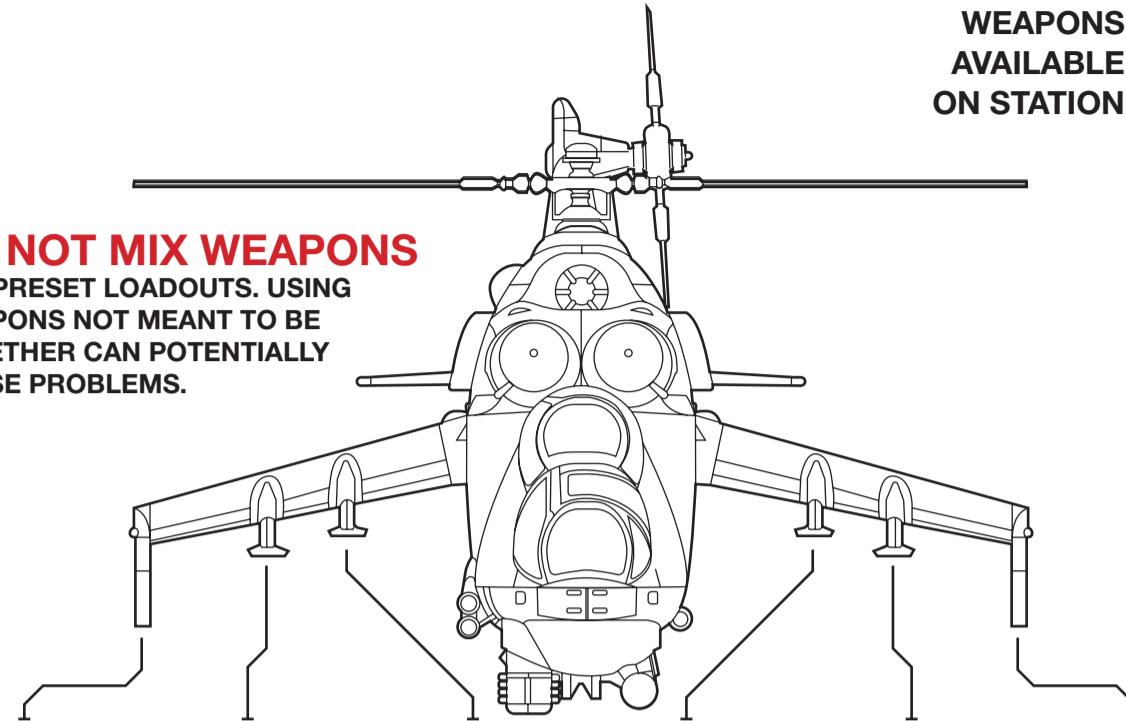
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# Mi-24P HIND

WEIGHT	CLEAN	19,601 LBS
	MAX	25,353 LBS
TAKE OFF	TAXI	20 KPH
	GEAR	70 KPH
LANDING	TO	120 KPH
	HOVER	-5 M/S
	GEAR	70 KPH
TOP SPEED	GEAR UP	335 KPH
	CLIMB	140 KPH
	MAX ALTITUDE	14,764 FT
	MAX G	3G
	MAX BANK	45 DEG
GUN	250 ROUNDS	
GUN RANGE	2000m MAX	
	800m MIN	
COUNTER MEASURES	CHAFF	128
	FLARE	64

**DO NOT MIX WEAPONS**

USE PRESET LOADOUTS. USING WEAPONS NOT MEANT TO BE TOGETHER CAN POTENTIALLY CAUSE PROBLEMS.



STATION		6	5	4	3	2	1
AIR TO GROUND MISSILES	9M114	●	●			●	●
	9M120	●	●			●	●
	F	●	●			●	●
	O	●	●			●	●
ROCKETS	S-5	KO	●	●	●	●	●
	S-8	KOM	●	●	●	●	●
		OFP2	●	●	●	●	●
		OM	●	●	●	●	●
		TsM	●	●	●	●	●
	S-13	OF	●	●	●	●	●
	S-24	B	●	●	●	●	●
BOMBS	FAB	100	●	●	●	●	●
		250	●	●	●	●	●
		500 M62		●	●	●	
	KMGU	AO-2.5RT		●	●	●	
		PTAB-2.5KO		●	●	●	
	RBK	250 PTAB-25KO	●	●	●	●	●
		250 AO-1Sch	●	●	●	●	●
		500 PTAB-1M		●	●	●	
		500 PTAB-10-5		●	●	●	
		500 OAB-2.5RT		●	●	●	
PODS	GUV	AP-30	●	●	●	●	
		YakB GSHP		●	●	●	
FUEL TANK		PTB 450	●	●	●	●	

## AIR TO GROUND MISSILES

WEAPON	TYPE	IMAGE	NAME			
<b>9M114</b>	RADIO GUIDED		<b>SHTURM</b>			
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
1, 2, 5, 6		3.8 nm 7 km	ANTI-ARMOR	2, 4, 6, 8	1976	HEAT Charge, Armor penetrator.

## AIR TO GROUND MISSILES

WEAPON	TYPE	IMAGE				NAME
STATION	VERSION	MAX RNG	TARGET	QTY	YR	INFO
1, 2, 5, 6	RADIO GUIDED	3.2 nm 6 km	ANTI-ARMOR	2, 4, 6, 8	1980	HEAT Tandem warhead.
	F		SOFT TARGET			Thermobaric warhead.
	O	3.8 nm 7 km	ANTI-AIR			Proximity Fuse.

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE				
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO	
2, 3, 4, 5	M	SOFT TARGET	UB-32UM	32, 64, 96, 128	Unarmored targets. Blast fragmentation.	
WEAPON	SIZE	IMAGE				
2, 3, 4, 5	S-8	3.2 in 80 mm	B-8V20A	20, 40, 60, 80	High explosive Anti-Tank warhead.	
	KOM	HARD TARGET			Unarmored targets. Blast fragmentation.	
	OFP2	SOFT TARGET			Illumination.	
	OM	TARGET MARKING			Smoke.	
2, 3, 4, 5	TsM					
WEAPON	SIZE	IMAGE				
S-13	4.8 in 122 mm	B-13L	5, 10, 15, 20	Unarmored targets. Blast fragmentation.		
STATION	VERSION			TARGET	INFO	
2, 3, 4, 5	OF			SOFT TARGET		
WEAPON	SIZE			IMAGE		
2, 3, 4, 5	S-24	9.4 in 240 mm	B-13L	1-4	Reduced smoke version of A.	
	B	SOFT TARGET				

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE			
STATION	VERSION	TARGET	WEIGHT	QTY	INFO
2, 3, 4, 5	FAB	FREE FALL	220.5 lbs 100 kg	1-4	Low-drag, high explosive.
	100	SOFT TARGET			
	250	LIGHT STRUCTURE	551.2 lbs 250 kg		
2, 3, 4, 5	500 M62	MEDIUM STRUCTURE	1102.3 lbs 500 kg		

## AIR TO GROUND - BOMBS

WEAPON	TYPE	IMAGE				
<b>KMGU</b>	BOMB DISPENSER					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 4, 5	<b>A0-2.5RT</b>	SOFT TARGET	96 x 5.5 lbs 96 x 2.5 kg	1-4	Fragmentation.	
	<b>PTAB-2.5KO</b>	MEDIUM TARGET			HEAT anti-tank.	
WEAPON	TYPE	IMAGE				
<b>RBK</b>	CLUSTER					
STATION	VERSION	TARGET	WEIGHT	QTY	INFO	
2, 3, 4, 5	<b>250</b> <b>PTAB-25KO</b>	MEDIUM TARGET	551.2 lbs 250 kg	1-4	High-drag.	
	<b>250</b> <b>A0-1Sch</b>	SOFT TARGET				
	<b>500</b> <b>PTAB-1M</b>	HEAVY TARGET	1,102.3 lbs 500 kg		High-drag. HEAT Anti-Tank	
	<b>500</b> <b>PTAB-10-5</b>				High-drag. Fragmentation	
	<b>500</b> <b>OAB-2.5RT</b>	SOFT TARGET				

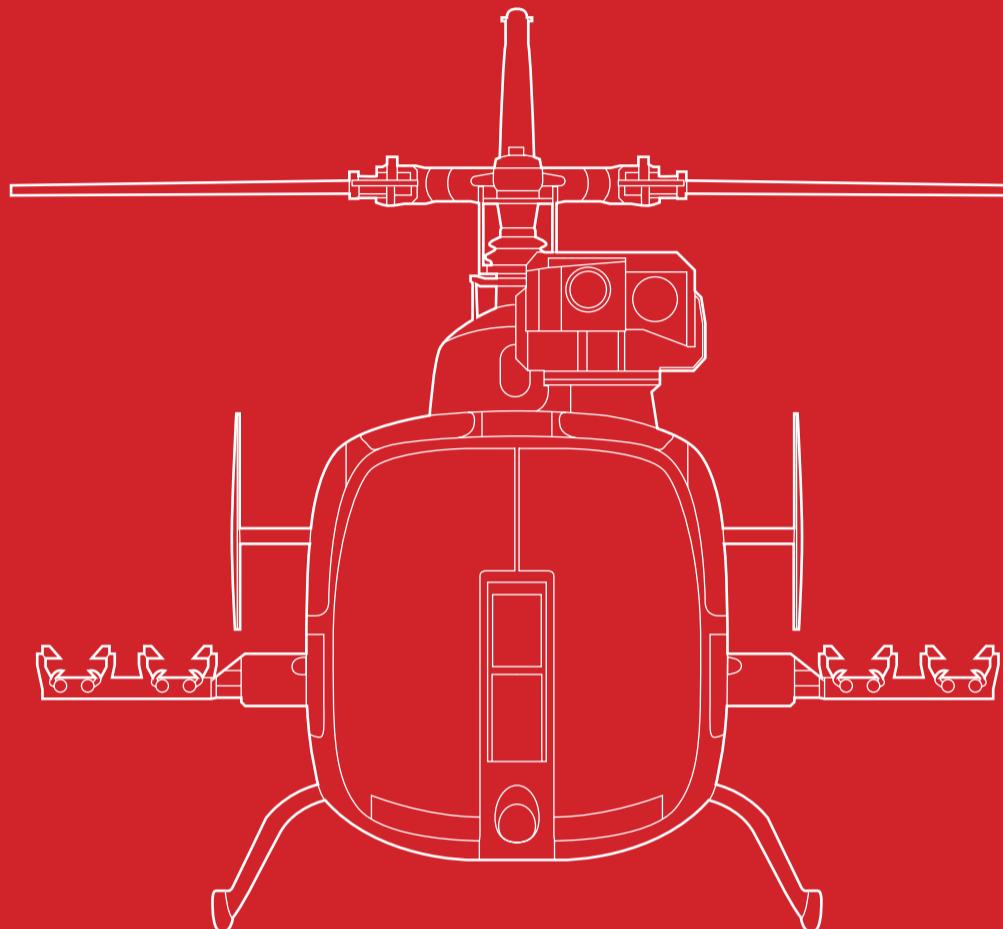
## AIR TO GROUND - PODS

POD	TYPE	IMAGE		
<b>GUV</b>	GUN			
STATION	VERSION	WEIGHT	INFO	
2, 3, 4, 5	<b>AP-30</b>	604 lbs 274 kg	30mm automatic grenade launcher.	
3, 4	<b>YakB GSHP</b>	996 lbs 451.8 kg	2x7.62mm + 1x12.7mm machine gun pod.	

## FUEL TANKS

TANK	STATION	WEIGHT	IMAGE	
<b>PTB 450</b>	2, 3, 4, 5	243 lbs 110.2 kg		

# AIRCRAFT QUICK REFERENCE

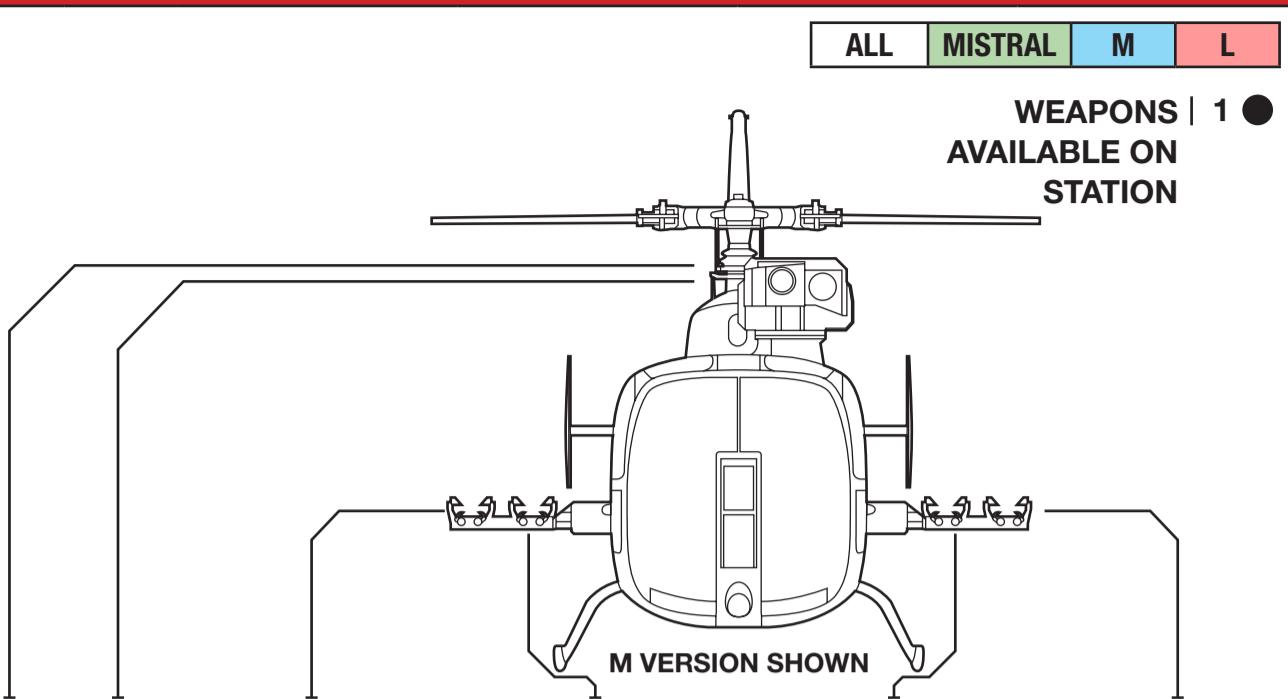


**SA342  
GAZELLE**

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# SA342 GAZELLE

WEIGHT	CLEAN	3,704 LBS
	MAX	4,640 LBS
TAKE OFF	TORQUE	100%
	CLIMB	120 KPH
LANDING	TO HOVER	120 KPH 100 M/Min
	50 M	70 KPH
	LAND	0 KPH
TOP SPEED	CRUISE	270 KPH
	TOP	310 KPH
	MAX ALTITUDE	16,400 FT
	MAX G	3
	MAX BANK	45 DEG
GUN	240 ROUND***	
COUNTER MEASURES	CHAFF	0
	FLARE	32



## STATION 6 5 1 3 4 2

AIR TO AIR MISSILES	MISTRAL			●	●	●	●
AIR TO GROUND MISSILES	HOT3			●	●	●	●
ROCKETS	SNEB						●
PODS	IR DEFLECTOR	●					
	SAND FILTER		●				

## AIR TO AIR WEAPONS

WEAPON	TYPE	IMAGE			NAME	RANGE
<b>MISTRAL</b>	INFRARED					SHORT
STATION	VERSION	MAX RNG	ASPECT	QTY	YR	INFO
1-4		4 nm 7 km	ALL	1-4	1988	Laser proximity or impact triggered.

## AIR TO GROUND MISSILES

WEAPON	TYPE	IMAGE			NAME	
<b>HOT3</b>	RADIO GUIDED					
STATION	VERSION	MAX RNG	TARGET	QTY	YR	
1-4		2.2 nm 4 km	ANTI-ARMOR	1-4	1977	High subsonic, optical, remote-guided, tube launched.

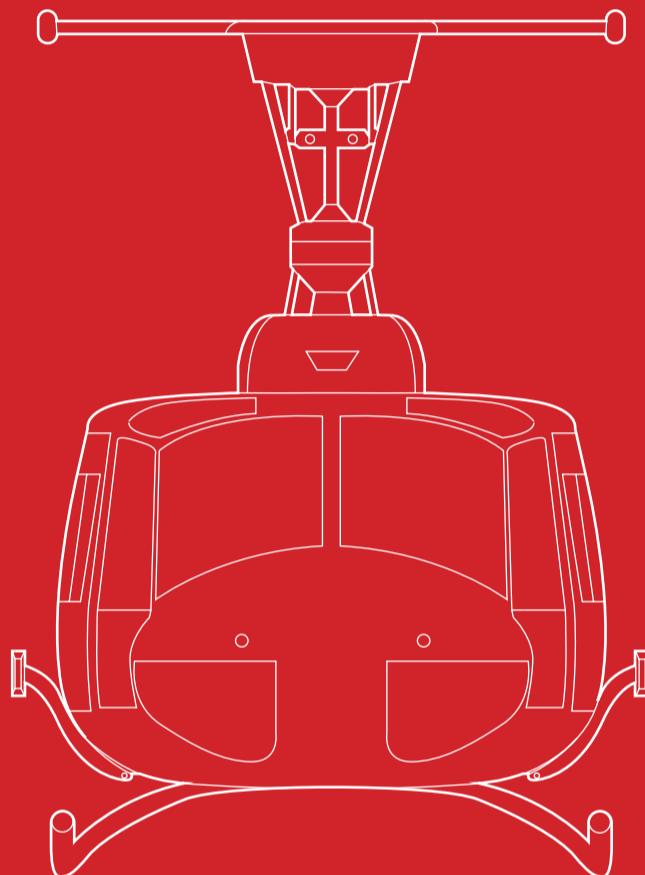
## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE			
<b>SNEB</b>	2.7 in 68 mm				
STATION	VERSION	TARGET	LAUNCHER	QTY	
2		SOFT TARGET	BI-8	8	Lightly armored targets

## AIR TO GROUND - PODS

POD	TYPE	IMAGE	
STATION	VERSION	IMAGE	
6		11 lbs	Infrared deflector on engine exhaust.
POD	TYPE	IMAGE	
SAND FILTER		IMAGE	
STATION	VERSION	WEIGHT	INFO
5	PYLON	33 lbs	Sand filter for engine intake.

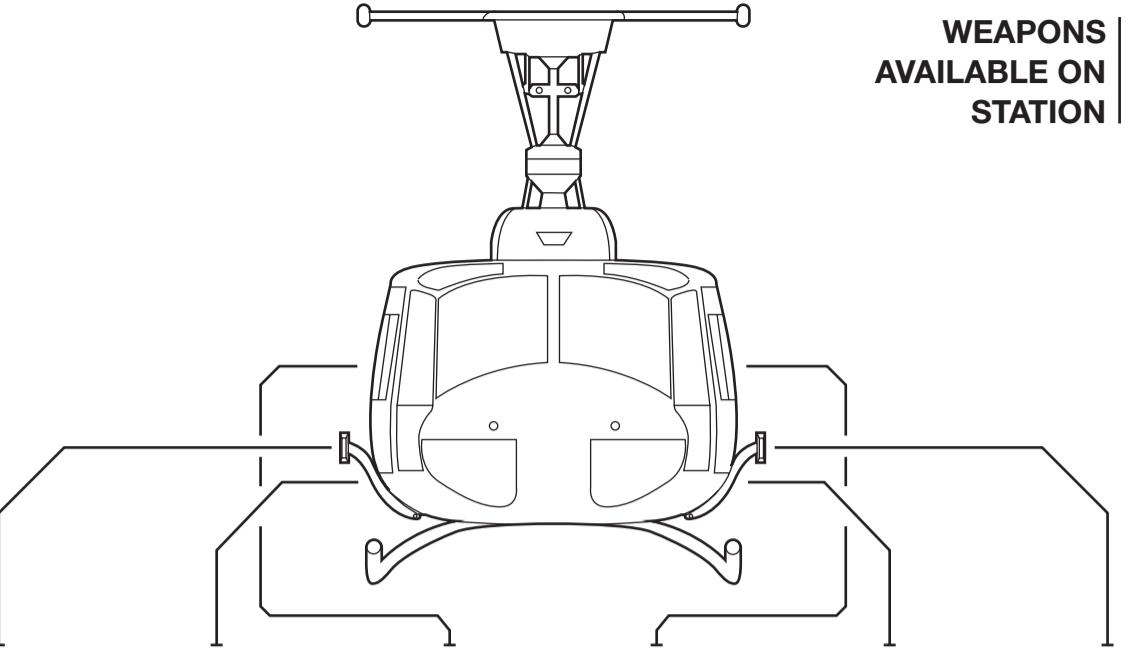
# AIRCRAFT QUICK REFERENCE



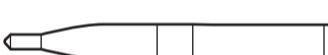
**UH-1H  
HUEY**

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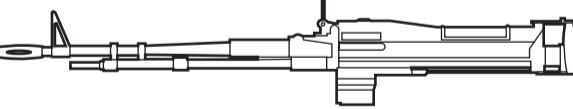
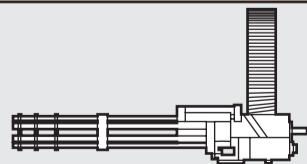
# UH-1H HUEY

WEIGHT	CLEAN	6,356 LBS		WEAPONS AVAILABLE ON STATION		
	MAX	9,502 LBS		1 ●		
	RPM	6,600				
	CLIMB	60 KTS				
	TO	80 KTS				
	HOVER	500 FT/M				
	LAND	30 KTS				
	CLIMB	70 KTS				
	CRUISE	90 KTS				
	MAX ALTITUDE	14,200 FT				
MAX G		3				
MAX BANK		45 DEG				
GUN	NA					
COUNTER MEASURES	CHAFF	0				
	FLARE	60				
STATION	6	5	4	3	2	1
ROCKETS	HYDRA	M151		●		
		M156		●		●
		M257		●		●
		M274		●		●
		MK1		●		●
		MK5	●			●
PODS	M60			●	●	
	M134	PYLON	●			
		WINDOW		●	●	●

## AIR TO GROUND - ROCKETS

WEAPON	SIZE	IMAGE					
HYDRA	2.75 in 70 mm	 					
STATION	VERSION	TARGET	LAUNCHER	QTY	INFO		
2, 5	M151	SOFT TARGET		7, 14, 19, 38	High Explosive.		
	M156	TARGET MARKING			White phosphorus.		
	M257				Parachute illumination.		
	M274				Parachute smoke.		
	MK1	SOFT TARGET			Unarmored targets. Blast frag.		
	MK5	HARD TARGET			High explosive AT warhead.		

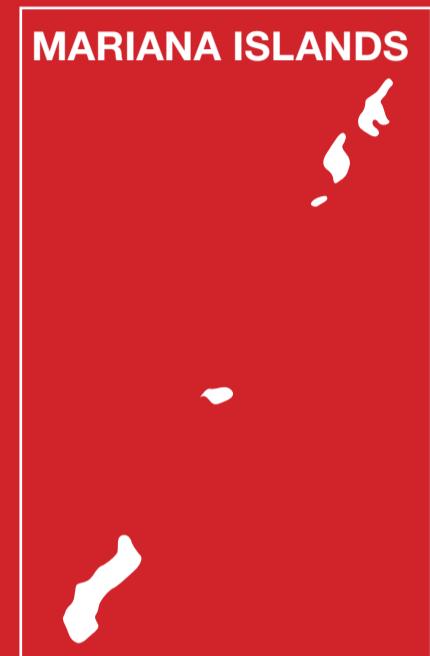
## AIR TO GROUND - PODS

POD	TYPE	IMAGE				
M60	GUN					
STATION	VERSION	WEIGHT	INFO			
3, 4		311 lbs 141.1 kg				
POD	TYPE	IMAGE				
M134	GUN					
STATION	VERSION	WEIGHT	INFO			
1, 6	PYLON	322 lbs 146 kg	7.62mm Minigun emplacement.			
3, 4	WINDOW	595 lbs 269.9 kg				

# MAPS



CAUCASUS



MARIANA ISLANDS



NEVADA MAP



PERSIAN GULF



SYRIA

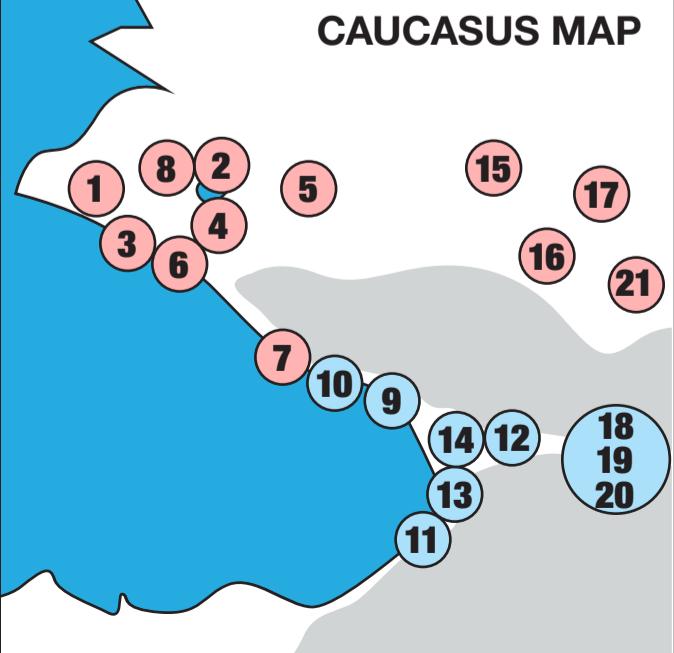
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## CAUCASUS AIRFIELDS

ID	NAME	LAT LONG	ELEV	VHF UHF	HF FM	TCN NDB	VOR RSBN	HDG	RWY	ILS PRMG	HDG	LOC
1	ANAPA-VITYAZEVO	N45°00'18" E37°20'53"	141FT 43M	121.00 250.00	3.750 38.40			035° 215°	04 22			
2	KRASNODAR-CENTER	N45°05'13" E38°56'25"	98FT 30M	122.00 251.00	3.800 38.60		40	081° 261°	09 27	38		
3	NOVOROSSIYSK	N44°40'05" E37°46'42"	131FT 40M	123.00 252.00	3.850 38.80			036° 212°	04 22	SHORT RUNWAY		
4	KRYMSK	N44°58'04" E37°59'42"	66FT 21M	124.00 253.00	3.900 39.00	28		033° 220°	04 23	26		
5	MAYKOP-KHANSKAYA	N44°40'52" E40°02'08"	591FT 180M	125.00 254.00	4.450 41.20	34		032° 212°	04 22			
6	GELENDZHIK	N44°34'22" E38°00'42"	72FT 22M	126.00 255.00	4.000 39.40	1000	114.30	034° 214°	01 19	SHORT RUNWAY		
7	SOCHI-ADLER	N43°26'39" E39°56'28"	98FT 30M	127.00 256.00	4.050 39.60			056° 236°	06 24	111.10		
8	KRASODAR-PASHKOVSKY	N45°02'16" E39°11'18"	112FT 35M	128.00 257.00	4.100 39.80		115.80	040° 220°	05 23			
9	SUKHUMI-BABUSHARA	N42°51'40" E41°07'31"	43FT 14M	129.00 258.00	4.150 40.00			111° 291°	12 30			
10	GUDAUTA	N43°06'31" E40°34'11"	69FT 22M	130.00 259.00	4.200 40.20			145° 325°	15 33			
11	BATUMI	N41°36'34" E41°36'01"	33FT 11M	131.00 260.00	4.250 40.40	16X 430		120° 300°	13 31	110.30		
12	SENAKI-KOLKHI	N42°14'27" E42°02'53"	43FT 14M	132.00 261.00	4.300 40.60	31X		089° 269°	09 27	108.90		
13	KOBULETI	N41°55'47" E41°51'48"	59FT 18M	133.00 262.00	4.350 40.80	67X		064° 244°	07 25	111.50		
14	KUTAISI	N42°10'39" E42°28'53"	148FT 46M	134.00 263.00	4.400 41.00	44X	113.60	068° 248°	07 25	109.75		
15	MINERALNYE VODY	N44°13'40" E43°04'53"	1050FT 320M	135.00 264.00	4.450 41.20		117.10	109° 289°	12 30	111.70 109.30		
16	NALCHIK	N43°30'51" E43°38'13"	1411FT 430M	136.00 265.00	4.500 41.40			049° 229°	06 24	110.50		
17	MOZDOK	N43°47'30" E44°36'21"	509FT 156M	137.00 266.00	4.550 41.60	20		077° 257°	08 26	22		
18	TBILISI-LOCHINI	N41°40'01" E44°57'23"	1575FT 480M	138.00 267.00	4.600 41.80	25X	113.70	122° 302°	13 31	110.30 108.90		
19	SOGANLUG	N41°38'58" E44°56'18"	1500FT 458M	139.00 268.00	4.650 42.00	25X		126° 306°	14 32			
20	VAZIANI	N41°37'44" E45°01'38"	1526FT 466M	140.00 269.00	4.700 42.20	22X		130° 310°	13 31	108.75 108.75		
21	BESLAN	N43°12'20" E44°36'21"	1722FT 525M	141.00 270.00	4.750 42.40			086° 266°	10 28	110.50		

CAUCASUS MAP

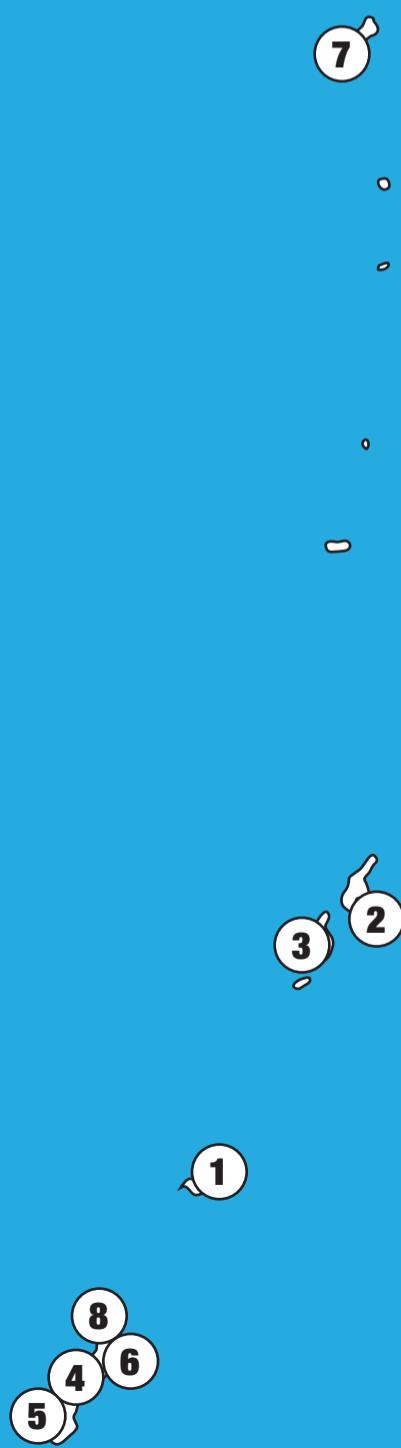


VOR beacons on Caucasus do not have DME.

# MARIANA ISLAND AIRFIELDS

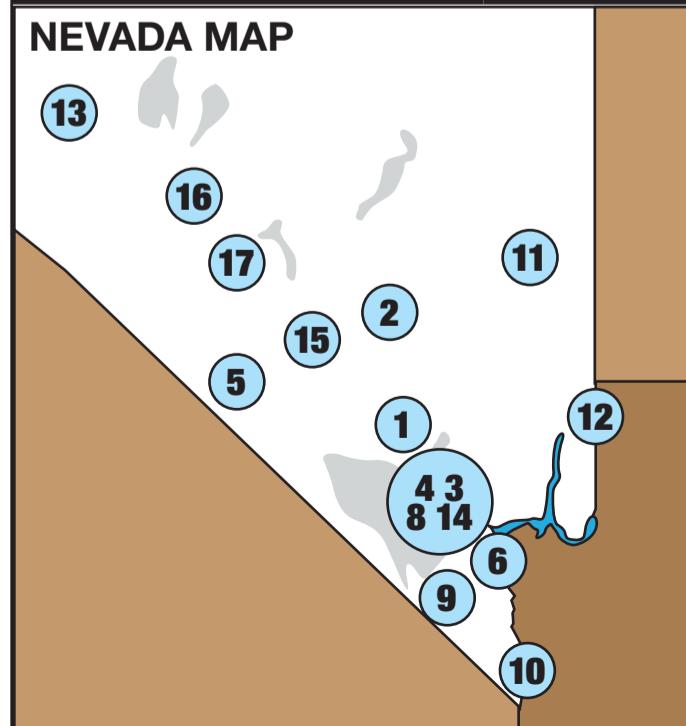
ID	NAME	LAT LONG	ELEV	VHF UHF	HF FM	TCN NDB	VOR RSBN	HDG	RWY	ILS PRMG	HDG	LOC	
1	ROTA	N14°10'27" E145°14'27"	569FT 173M	123.60 250.00	3.750 38.40	332		093°	09		↔		
	SAIPAN	N15°07'08" E145°43'44"	213FT 65M	125.70 256.90	3.775 38.45			273°	27				
2	SAIPAN	N15°07'08" E145°43'44"	213FT 65M	125.70 256.90	3.775 38.45	312		069°	06		↔		
								249°	24				
								069°	07	109.90			
								249°	25				
3	TINIAN	N14°59'57" E145°37'09"	284FT 87M	123.65 250.05	3.800 38.50			080°	08		↔		
	ANTONIO B. WON PAT	N13°29'05" E144°47'49"	255FT 86M	118.10 340.20	3.825 38.55	105X 385	115.80	066°	06L	110.30	↔		
4								246°	24R				
								066°	06R	110.90			
								246°	24L				
5	OLF OROTE	N13°26'17" E144°38'32"	94FT 29M	CLOSED, LANDABLE HELI / STOL				067°	XX	SHORT RUNWAY	↔		
	ANDERSON AFB	N13°34'54" E144°55'51"	606FT 185M	126.20 250.10	3.850 38.60	54X		067°	06L	109.30			
6								247°	24R	109.35			
								067°	06R	110.10			
								247°	24L	110.15			
7	PAGAN	N18°07'23" E145°45'45"	49FT 15M	GRASS AIRSTRIPE HELI / STOL				056°	XX	SHORT RUNWAY	↔		
8	NORTH WEST FIELD	N13°37'30" E144°51'29"	522FT 160M	CLOSED, LANDABLE				236°	XX				

## MARIANA ISLANDS MAP



# NEVADA AIRFIELDS

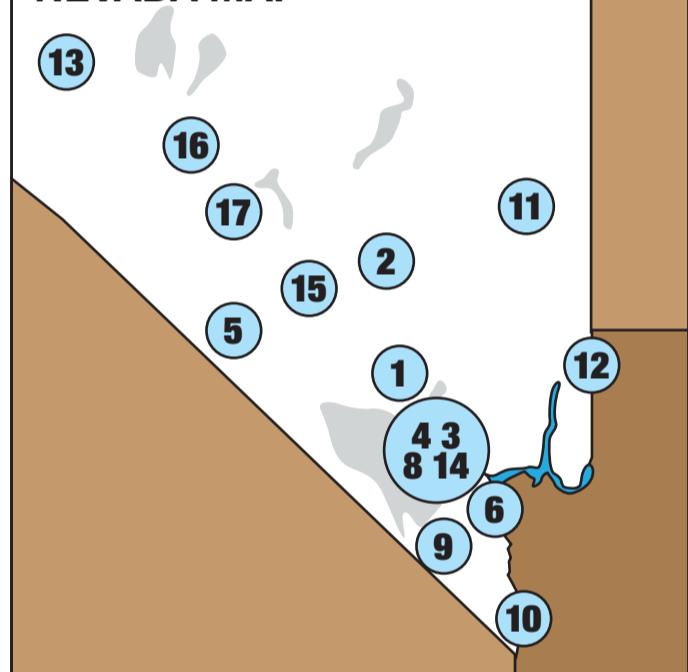
ID	Name	Lat Long	Elev	VHF UHF	HF FM	Tcn Ndb	Vor Rsbn	Hdg	Rwy	Ils Prmg	Hdg	Loc				
1	CREECH AFB	N36°18'01" W115°40'35"	3127FT 954M	118.30 360.60	3.825 38.55	87X		081°	08	108.70						
2								261°	26							
								135°	13	108.30						
								315°	31							
2	GROOM LAKE AFB	N37°14'00" W115°47'32"	4495FT 1370M	118.00 250.05	3.850 38.60	18X		146°	14L							
								326°	32R	109.30						
								146°	14R	CLOSED						
								326°	32L							
3	MCCARRAN INTL.	N36°04'35" W115°08'40"	2178FT 664M	119.90 257.80	3.875 38.65	116X	116.90	013°	01L							
								193°	19R							
								013°	01R							
								193°	19L							
								078°	07L							
								258°	25R	110.30						
								078°	07R							
								258°	25L	111.75						
4	NELLIS AFB	N36°14'06" W115°01'58"	1857FT 566M	132.55 327.00	3.900 38.70	12X		030°	03L							
								210°	21R							
		N36°14'.612" W115°01'.436"						030°	03R							
								210°	21L	109.10						
5	BEATTY	N36°51'39" W116°47'11"	3173FT 968M			94X	114.70	169°	16	SHORT RUNWAY						
								349°	34							
6	BOULDER CITY	N35°56'55" W114°51'42"	2205FT 672M			114X	116.70	088°	09	SHORT RUNWAY						
								268°	27							
								154°	15							
								334°	33							
7	ECHO BAY	N36°18'39" W114°27'50"	1549FT 473M					067°	06	SHORT RUNWAY						
								247°	24							
8	HENDERSON EXEC.	N35°58'20" W115°08'07"	2493FT 760M	125.10 250.10	3.925 38.75			169°	17L	SHORT RUNWAY						
								349°	35R							
								169°	17R							
								349°	35L							
9	JEAN	N35°46'09" W115°19'465"	2825FT 861M					020°	02L	SHORT RUNWAY						
								200°	20R							
								020°	02R							
								200°	20L							
10	LAUGHLIN, AZ	N35°09'21" W114°33'34"	673FT 206M	123.90	3.750			165°	16							
				250.00	38.40			345°	34							
11	LINCOLN COUNTY	N37°47'14" W114°25'11"	4816FT 1468M					171°	17	SHORT RUNWAY						
								351°	35							



# NEVADA AIRFIELDS

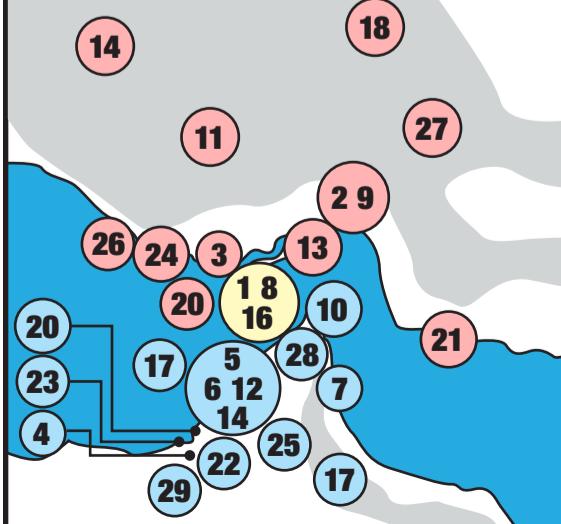
ID	NAME	LAT LONG	ELEV	VHF UHF	HF FM	TCN NDB	VOR RSBN	HDG	RWY	ILS PRMG	HDG	LOC
12	MESQUITE	N36°49'59" W115°08'40"	1857FT 566M					017°	01	SHORT RUNWAY		
	MINA	N38°22'47" W118°05'48"	4560FT 1390M					197°	19			
13								141°	13	SHORT RUNWAY		
	NORTH LAS VEGAS	N36°12'35" W115°11'47"	2228FT 679M	125.70 327.00	3.900 38.45			321°	31			
14								076°	07	SHORT RUNWAY		
	PAHUTE MESA	N36°06'07" W116°18'46"	5059FT 1542M					256°	25			
15								123°	12L	110.70		
	TONOPAH AIRPORT	N38°03'29" W117°05'22"	5390FT 1643M					303°	30R			
16								123°	12R	SHORT RUNWAY		
	TONOPAH TEST RANGE	N37°47'55" W116°46'50"	5535FT 1687M	124.75 257.95	3.800 38.50			303°	30L			
17								183°	18	SHORT RUNWAY		
								003°	36			
								114°	11	SHORT RUNWAY		
								294°	29			
								154°	15			
								334°	33			
								146°	14	108.30		
								326°	32	111.70		

NEVADA MAP



	ID	NAME	LAT LONG	ELEV	VHF UHF	HF FM	TCN NDB	VOR RSBN	HDG	RWY	ILS PRMG	HDG	LOC
	1	ABU MUSA ISLAND	N25°52'33" E55°01'58"	16FT 5M	122.90 250.40	3.975 38.85			083° 263°	08 26		↔	
	2	BANDAR ABBAS	N27°13'03" E56°22'44"	20FT 6M	118.10 251.00	4.250 39.40	78X 250	117.20	027° 207°	12L 12R 30L 30R	110.10 109.50 110.90 111.30	↔	
	3	BANDAR LENGEH	N26°31'56" E54°49'28"	82FT 25M	121.70 251.05	4.275 39.45	408	114.80	079° 259°	08 26		↔	
	4	AL DHAFRA AFB	N24°14'53" E54°32'51"	52FT 16M	126.50 251.10	4.300 39.50	96X	114.90	127° 307°	13L 13R 31L 31R	111.10 108.70 109.10 108.70	↔	
	5	DUBAI	N25°15'22" E55°21'54"	16FT 5M	118.75 251.15	4.325 39.55			121° 301°	12L 12R 30L 30R	110.10 109.50 110.90 111.30	↔	
	6	AL MAKTOUM	N24°53'49" E55°09'36"	125FT 39M	118.60 250.10	3.800 38.50			121° 301°	12 30	111.75 109.75	↔	
	7	FUJAIRAH	N25°06'39" E56°19'38"	121FT 37M	124.60 251.25	4.375 39.65		113.80	112° 292°	11 29	111.50	↔	
	8	TUNB ISLAND AFB	N26°15'31" E55°18'56"	43FT 14M					027° 207°	03 21		SHORT RUNWAY	
	9	HAVADARYA	N27°09'29" E56°10'19"	52FT 16M	123.15 251.30	4.400 39.70	47X		078° 258°	08 26	108.90	↔	
	10	KHASAB	N26°10'11" E56°14'24"	102FT 31M	124.35 250.00	3.750 38.40			013° 193°	01 19	110.30	↓	
	11	LAR	N27°40'29" E54°22'59"	2635FT 804M	127.35 250.05	3.775 38.45	224	117.90	089° 269°	09 27		↔	
	12	AL MINHAD AFB	N25°01'36" E55°21'56"	190FT 58M	118.55 250.10	3.800 38.50	99X		89° 269°	09 27	110.70 110.75	↔	
	13	QESHM ISLAND	N26°45'16" E55°54'08"	26FT 8M	118.05 250.15	3.825 38.55	223	117.10	049° 229°	05 23		↔	
	14	SHARJAH	N25°19'50" E55°31'05"	98FT 30M	118.60 250.20	3.850 38.60			122° 302°	12L 12R 30L 30R	108.55 111.95	↔	
	15	SIRRI ISLAND	N25°54'34" E54°32'21"	20FT 6M	135.05 250.25	3.875 38.65	300	113.75	126° 306°	12 30		SHORT RUNWAY	
	16	TUNB KOCHAK	N26°14'35" E55°08'44"	16FT 5M			89X		081° 261°	08 26		SHORT RUNWAY	
	17	SIR ABU NUAYR	N25°13'00" E54°14'01"	26FT 8M	118.00 250.80	3.900 38.70			099° 279°	10 28		SHORT RUNWAY	
	18	KERMAN	N30°16'23" E56°57'05"	5745FT 1751M	118.25 250.30	3.925 38.75	97X	112.00	157° 337°	16 34		↔	

PERSIAN GULF MAP



REDFOR

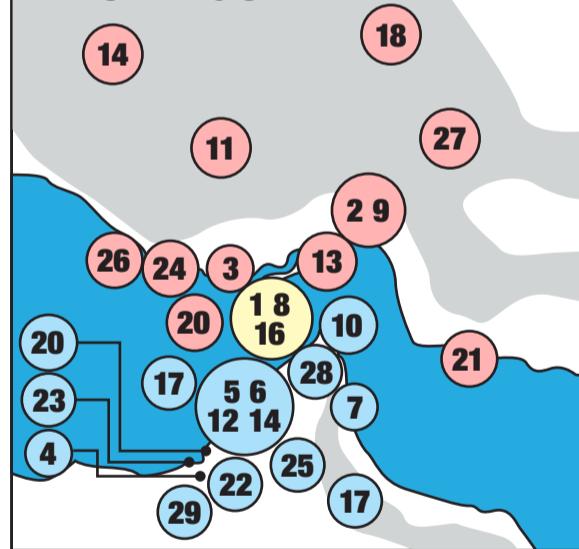
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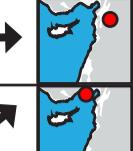
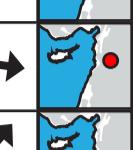
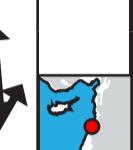
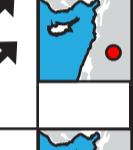
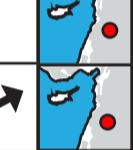
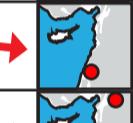
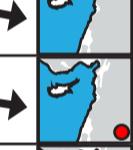
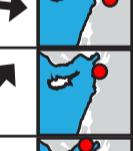
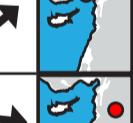
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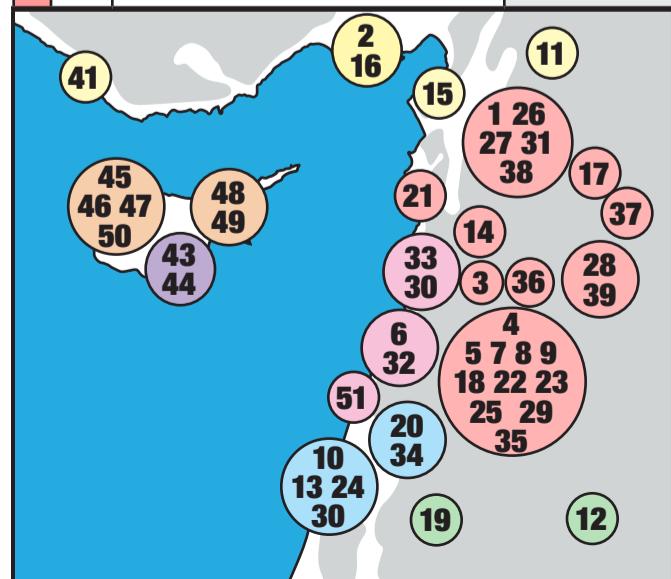
## PERSIAN GULF AIRFIELDS

	ID	NAME	LAT LONG	ELEV	VHF UHF	HF FM	TCN NDB	VOR RSBN	HDG	RWY	ILS PRMG	HDG	LOC
	19	SHIRAZ	N29°32'27" E52°35'27"	4879FT 1488M	121.90 250.35	3.950 38.80	94X 205	117.80	115°	11L 11R			
	20	SAS AL NAKHEEL	N24°26'27" E54°31'01"	10FT 3M	128.90 250.45	4.000 38.90		128.925	161°	16	108.50	SHORT RUNWAY	
	21	BANDAR-E-JASK	N25°39'16" E57°48'05"	26FT 8M	118.15 250.50	4.025 38.95	110X 349	116.30	295°	29L 29R			
	22	ABU DHABI	N24°27'13" E54°39'15"	92FT 28M	119.20 250.55	4.050 39.00		114.25	061°	06			
	23	AI-BATEEN	N24°25'41" E54°27'30"	13FT 4M	119.90 250.60	4.075 39.05		114.00	241°	24			
	24	KISH	N26°31'41" E53°58'51"	115FT 35M	121.65 250.65	4.400 39.10	112X 201	117.40	128°	13L 13R			
	25	AL AIN	N24°15'41" E55°36'33"	814FT 249M	119.85 250.70	4.125 39.15		112.60	275°	31L 31R			
	26	LAVAN ISLAND	N26°48'39" E53°21'11"	75FT 23M	128.55 250.75	4.150 39.20	310	116.85	007°	01			
	27	JIROFT	N28°43'24" E57°40'30"	2664FT 812M	136.00 250.85	4.175 39.25	276		187°	19			
	28	RAS AL KHAIMAN	N25°36'48" E55°56'19"	72FT 22M	121.60 250.90	4.200 39.30		113.60	111°	11			
	29	LIWA AFB	N23°39'02" E53°49'27"	400FT 122M	119.30 250.95	4.225 39.35	121X	117.40	291°	29			

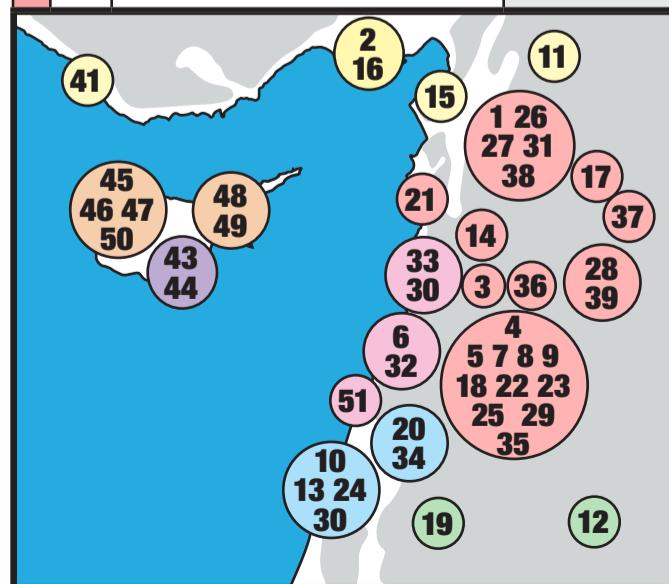
## PERSIAN GULF MAP



SYRIA AIRFIELDS			CYPRUS	ISRAEL	JORDAN	LEBANON	SYRIA	TURKEY	UK				
	ID	NAME	LAT LONG	ELEV	VHF UHF	HF FM	TCN NDB	VOR RSBN	HDG	RWY	ILS	HDG	LOC
	1	ABU AL-DUHUR	N35°43'56" E37°06'15"	820FT 250M	122.20 250.45	4.000 38.90			089°	09		↔	
	2	ADANA SAKIRPASA	N36°58'55" E35°16'49"	56FT 17M	121.10 251.00	4.275 39.45	395	112.70	269°	27		↔	
	3	AL QUSAYR	N34°34'09" E36°34'18"	1729FT 527M	119.20 251.55	4.550 40.00			098°	10		↔	
	4	AN NASIRIYAH	N33°55'07" E35°51'57"	2750FT 839M	122.30 252.00	4.775 40.45			278°	28		↔	
	5	THA'L AH	N32°42'14" E35°24'49"	2414FT 736M	122.40 252.20	4.875 40.65			041°	04		↔	
	6	BEIRUT RAFIC HARIRI	N33°49'40" E35°29'15"	39FT 12M	118.90 252.25	4.900 40.70	351	112.60	221°	22		↔↔	
	7	DAMASCUS	N33°25'31" E36°31'06"	2008FT 612M	118.50 252.30	4.925 40.75	264, 342	116.00	054°	05		↔↔	
	8	MARJ AS SULTAN SOUTH	N33°29'14" E36°28'31"	2007FT 612M	122.90 252.35	4.950 40.80			234°	34			
	9	AI-DUMAYR	N33°36'35" E36°44'57"	2067FT 630M	123.40 250.00	3.750 38.40			175°	17	109.50		
	10	EYN SHEMER	N32°26'27" E35°00'27"	110FT 34M	124.35 250.00	3.750 38.40		112.40	235°	35			
	11	GAZIANTEP	N36°56'52" E37°28'44"	2290FT 698M	120.10 250.05	3.775 38.45	432	116.70	046°	05L		↔↔	
	12	H4	N32°32'21" E38°11'42"	2257FT 688M	122.60 250.10	3.800 38.50			226°	23R	109.90		
	13	HAIFA	N32°48'38" E35°02'36"	20FT 6M	127.80 250.15	3.825 38.55			046°	05R	111.10		
	14	HAMA	N37°07'05" E35°42'41"	984FT 300M	118.05 250.20	3.850 38.60			226°	23L			
	15	HATAY	N36°21'44" E36°17'15"	253FT 78M	128.50 250.25	3.875 38.65	336	112.05	101°	10			
	16	INCIRLIK	N37°00'07" E35°25'34"	230FT 71M	122.10 360.10	3.900 38.70	21X		281°	28	109.10		
	17	JIRAH	N36°05'48" E37°56'10"	1173FT 358M	118.00 250.30	3.925 38.75			096°	09			
	18	KHALKHALAH	N33°03'48" E36°34'20"	2418FT 737M	122.50 250.35	3.950 38.80			276°	28			



SYRIA AIRFIELDS			CYPRUS	ISRAEL	JORDAN	LEBANON	SYRIA	TURKEY	UK
19	KING HUSSEIN A.C.	N32°21'23" E36°15'35"	2205FT 672M	118.30 250.40	3.975 38.80		128° 13 308° 31		
20	KIRYAT SHMONA	N33°12'57" E35°55'45"	360FT 110M	118.40 250.50	4.025 38.95		034° 03 214° 21	SHORT RUNWAY	
21	BASSEL AL-ASSAD	N35°24'02" E35°56'54"	92FT 28M	118.10 252.00	4.050 39.00	414	114.80	174° 17L 354° 35R 174° 17R 109.10 354° 35L	
22	MARJ AS SULTAN NORTH	N33°30'00" E36°28'01"	2008FT 612M	122.70 250.60	4.075 39.05			HELICOPTER BASE	
23	MARJ RUHAYYL	N33°17'20" E36°27'22"	2161FT 659M	120.80 250.65	4.100 39.10			059° 06 239° 24	
24	MEGIDDO	N32°35'49" E35°13'48"	180FT 55M	119.90 250.70	4.125 39.15			089° 09 269° 27	
25	MEZZEH	N33°28'40" E36°13'27"	2387FT 728M	120.70 250.75	4.150 39.20	358		057° 06 237° 24	
26	MINAKH	N36°31'16" E37°02'29"	1614FT 492M	120.60 250.80	4.175 39.25			097° 10 277° 28	SHORT RUNWAY
27	ALEPPO	N36°10'50" E37°13'28"	1254FT 383M	119.10 250.85	4.200 39.30	358	114.50	093° 09 273° 27	
28	PALMYRA	N34°33'26" E38°19'00"	1325FT 404M	121.90 250.90	4.225 39.35	337		080° 08 260° 26	
29	QABR AS SITT	N33°27'31" E36°21'27"	2135FT 651M	122.60 250.95	4.250 39.40			HELICOPTER BASE	
30	RAMAT DAVID	N32°39'58" E35°10'37"	146FT 45M	118.90 250.95	4.300 39.50	84X 368	113.70	085° 09 265° 27 107° 11 287° 29 143° 15 323° 33	
31	KUWEIRES	N36°11'14" E37°34'54"	1201FT 366M	120.50 251.05	4.325 39.55			097° 10 277° 28	
32	RAYAK	N33°51'04" E35°59'11"	3035FT 925M	124.40 251.15	4.375 39.60			042° 04 222° 22	
33	RENE MOUAWAD	N34°35'21" E36°00'42"	23FT 7M	121.00 251.20	4.375 39.65	450		059° 06 239° 24	
34	ROSH PINA	N32°58'51" E35°34'18"	914FT 279M	118.45 251.25	4.400 39.70		115.30	050° 05 230° 23 148° 15 328° 33	SHORT RUNWAY
35	SAYQAL	N33°40'47" E37°12'50"	2274FT 694M	120.40 251.30	4.425 39.75			057° 05 237° 23 087° 08 267° 26	



# SYRIA AIRFIELDS

		CYPRUS	ISRAEL	JORDAN	LEBANON	SYRIA	TURKEY	UK	
36	SHAYRAT	N34°29'24" E36°54'27"	2638FT 804M	120.20 251.35	4.225 39.35		108° 11 288° 29		↔
37	TABQA	N35°45'16" E38°34'00"	1099FT 335M	118.50 251.40	4.475 39.85		088° 09 268° 27		↔
38	TAFTANAZ	N35°58'26" E36°46'53"	1020FT 311M	122.80 251.45	4.500 39.90				HELICOPTER BASE
39	TIYAS	N34°31'21" E37°37'48"	1798FT 548M	120.350 251.50	4.525 39.95		086° 09 266° 27		↔
40	WUJAH AL HAJAR	N34°16'53" E35°40'58"	641FT 196M	121.50 251.60	4.575 40.05	116.20	025° 02 205° 20	SHORT RUNWAY	↑↓
41	GAZIPASA	N36°17'56" E32°17'54"	130FT 40M	119.25 251.65	4.600 40.10	316	081° 08 261° 26	108.50	↔
42	NICOSIA INTL.	N35°09'05" E33°16'33"	722FT 220M				144° 14 324° 32	CLOSED	↔
43	AKROTIRI	N34°35'24" E35°59'18"	69FT 21M	128.00 251.70	4.625 40.15	107X 365	107° 10 287° 28	109.70	↔
44	KINGSFIELD	N35°00'53" E33°43'01"	276FT 85M	121.00 251.75	4.650 40.20	343	060° 06 240° 24	SHORT RUNWAY	↑↓
45	PAPHOS	N34°43'05" E35°29'05"	40FT 13M	119.90 251.80	4.675 40.25	79X 328	110° 11 290° 29	108.90	↔
46	LARNACA	N35°52'25" E33°37'26"	16FT 5M	121.20 251.85	4.700 40.30	432	044° 04 224° 22	110.30	↔
47	LAKATAMIA	N35°06'17" E33°19'17"	758FT 231M	120.20 251.90	4.725 40.35			HELICOPTER BASE	
48	ERCAN	N35°09'17" E33°30'08"	312FT 95M	120.20 251.95	4.750 40.40		111° 11 291° 29	108.30	↔
49	GECITKALE	N35°14'09" E33°43'09"	148FT 46M	120.00 252.05	4.800 40.50	435	090° 09 270° 27		↔
50	PINARBASHI	N35°16'26" E33°16'05"	771FT 235M	121.00 252.10	4.825 40.55			HELICOPTER BASE	
51	NAQOURA	N33°06'28" E35°07'38"	381FT 117M	122.00 252.15	4.850 40.60			HELICOPTER BASE	

