

# Dassault/Dornier Alpha Jet



The Dassault/Dornier Alpha Jet is a two-seat advanced trainer and light attack aircraft. It was developed starting in 1967 and entered service in 1979.

## Versions

### **Alpha Jet E**

The Alpha Jet E was the trainer version, with the E designation taken from *École* (school). It was equipped with two underwing and one centerline weapon stations, but in French and Belgian service these were intended only for weapons training. Some of its later users employed it as a light strike aircraft, despite its shortcomings compared to aircraft dedicated to this role.

It initially served in the French Armée de l'air and the Belgian Air Force, but later with the air forces of Egypt, Morocco, Nigeria, Qatar, Togo, Côte d'Ivoire, and with private companies.

### **Alpha Jet A**

The Alpha Jet A was the attack version, with the A designation taken from *Appui Tactique* (tactical support). Compared to the E version, the A version had two additional underwing weapon stations, a more advanced weapon system, and could replace the rear crew member with an ECM suite.

It initially served in the German Luftwaffe, but after the end of the Cold War many of these aircraft were sold to the air forces of Portugal and Thailand.

## Armament and Stores

The Alpha Jet has no internal guns, but when armed would typically carry a gun pod on the centerline station, normally

a CC420 30 mm DEFA pod for E models or a 27 mm Mauser pod for A models. The gun pod was originally not jettisonable, but this restriction was lifted by the 1989 upgrade of Luftwaffe Alpha Jet As.

Typical stores would be SNEB 68 mm or CRV7 70 mm RPs or HE or cluster bombs.

## Combat

The Alpha Jet E saw combat in both Moroccan and Nigerian service, in the former case against Polisario Front in the Western Sahara War and in the latter against the Boko Haram militant group.

## ADCs

- Alpha Jet A
- Alpha Jet E

## Photo Credit

- Alpha Jet: Tim Felce (CC BY 2.5)

<b>Alpha Jet A</b>										<b>Crew:</b> Pilot and Observer							
<b>Power APs/DPs/FPs:</b> ○○										<b>Maneuver HFPs/DPs:</b>							
CL 1/2 DT Fuel										LR/DR	1.0	1.0					
AB — — — —										VR	0.0						
M 1.5 1.0 1.0 2.0										<b>Turn DPs:</b>							
N 0.0 0.0 0.0 1.0										CL	1/2	DT					
I 0.5 0.5 0.5 0.0										TT	1.0	1.0					
SPBR 0.5 1.0 1.0 —										HT	1.0	2.0					
Cruise Speed: 5.0 Restr. Arcs: —										BT	3.0	3.0					
Climb Speed: 4.0 Blind Arcs: 30-										ET	—	—					
Visibility: 4 Internal Fuel: 180																	
Size: +1 AtA Refuel: No																	
Vulnerability: -1 Ejection Seat: Std																	

<b>Speeds and Ceilings</b>					<b>Climb Capabilities</b>							
Alt. Band	Conf. Ceil.	CL 45	1/2 38	DT 32	Dive Speed	CL AB	Oth	1/2 AB	Oth	DT AB	Oth	Alt. Band
EH+	46+	—	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	2.5 – 5.5	3.0 – 5.0	—	7.0	—	0.5	—	0.5	—	—	VH
HI	26–35	2.5 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0	—	1.0	—	0.5	—	0.5	HI
MH	17–25	2.0 – 6.0	2.0 – 5.5	2.5 – 5.0	7.0	—	1.0	—	1.0	—	0.5	MH
ML	8–16	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	7.0	—	1.0	—	1.0	—	1.0	ML
LO	0–7	1.0 – 6.0	1.5 – 5.5	1.5 – 5.0	7.0	—	2.0	—	1.5	—	1.0	LO

<b>Radar:</b> —	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>																					
ECCM: —	RWR: A																						
Arcs: —	DDS: —																						
Search: —	DJM: B3																						
Track: —	AJM: —																						
Lock-On: —	BJM: —																						
<b>Guns:</b> —	<b>Technology:</b> None	<b>Load Point Limits:</b>										CL : 0–4											
To Hit: —		1/2: 5–8																					
Ammunition: —		<b>Weight Limit:</b> 5,550										DT : 9+											
Gunsight: TT+0/HT+1/BT+2		<b>Station</b>										<b>Limit Allowed Loads</b>											
Ranging: —		1 and 5 750 FT BB BG RP IRM EP																					
AtA/AtG: —		2 and 4 1,350 BB BG RP DR EP																					
<b>Bomb System:</b> Ballistic		3 1,350 BB BG RP GP PP																					
<b>Notes:</b>	<b>Load Notes:</b>																						
1. The Dassault/Dornier Alpha Jet A is a light attack aircraft.	1. May use 310L and 450L FTs																						
2. High transonic drag (HTD).	2. May use 27 mm Mauser BK-27 or CC420 30 mm DEFA GPs.												Prior to 1989, the GP cannot be jettisoned.										
3. Either the observer or the RWR and DJM may be carried.	3. From 1989, may use AIM-9 and Matra 550 IRMs.																						
<b>VPs:</b> 12/8/4/2										v1.0000000 0000-00-00T00:00:00													

<b>Alpha Jet E</b>									<b>Crew:</b> Pilot and Observer		
<b>Power APs/DPs/FPs:</b> ○○									<b>Maneuver HFPs/DPs:</b>		
CL 1/2 DT Fuel									LR/DR	1.0	1.0
AB — — — —									VR	0.0	
M 1.5 1.0 1.0 2.0									<b>Turn DPs:</b>		
N 0.0 0.0 0.0 1.0									CL	1/2	DT
I 0.5 0.5 0.5 0.0									TT	1.0	1.0
SPBR 0.5 1.0 1.0 —									HT	1.0	2.0
									BT	3.0	3.0
									ET	—	—