

Dassault Mystère IV

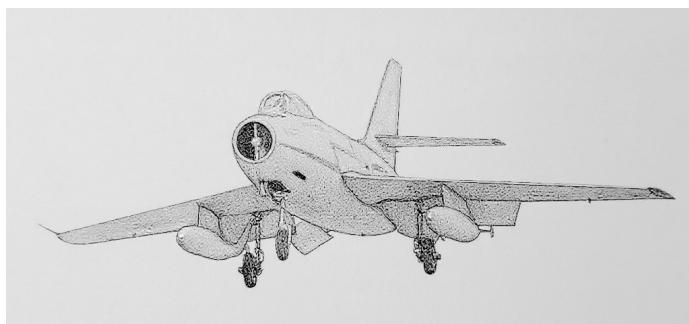


Photo Credit

- Mystère IV: Anidaat (CC BY-SA 4.0)

The Mystère IV was a fighter-bomber. It resembled the earlier Mystère aircraft, but was a new design adapted for supersonic flight. It featured an air-intake in the nose, a single engine, and sharply swept wings and tail.

Versions

MD 454A

The MD 454A or Mystère IVA model was the only version to reach production. It featured a non-afterburning Rolls-Royce Tay engine (supplied by Rolls-Royce themselves or built under license by Hispano-Suiza) and two 30 mm DEFA cannons under the nose. It could reach supersonic speeds only in a dive.

The Mystère IVA entered service with the Armée de l'aire in 1955 and served first as an interceptor and then as a fighter-bomber. It also served with the Israeli Air Force from 1956 to 1971 and with Indian Air Force from 1957 to 1973.

Armament and Stores

The principal armament of the Mystère IVA was two 30 mm DEFA cannons under the nose. Two 450L fuel tanks would often be carried for extended range. For air-to-ground missions, the Mystère IVA could also carry bombs, napalm tanks, 105 mm Brand T-10 rockets, and SNEB 68 mm rocket pods.

Combat

Israeli Mystère IVAs saw combat in the 1956 and 1967 Arab-Israeli Wars. French aircraft also fought in the 1956 Suez Crisis. Indian aircraft fought in the 1965 and 1971 India-Pakistan Wars.

ADC

- Mystère IVA

Mystère IVA					Crew: Pilot						
					Maneuver HFPs/DPs:						
Power APs/DPs: ○					LR/DR	1.0	1.0				
CL 1/2 DT Fuel					VR	0.5					
AB	—	—	—	—	Turn DPs:						
M	1.0	1.0	1.0	1.0	CL	1/2	DT				
N	0.0	0.0	0.0	0.5	TT	0.0	1.0	1.0			
I	1.0	1.0	1.0	0.0	HT	1.0	1.0	1.0			
SPBR	1.0	1.0	2.0	—	BT	2.0	3.0	3.0			
					ET	—	—	—			
Cruise Spd. CL: 5.0 Restr. Arcs: —											
Climb Spd.: 3.5 Blind Arcs: 30–											
Visibility: 5 Internal Fuel: 150											
Size: +0 AtA Refuel: No											
Vulnerability: +1 Ejection Seat: Early											
Speeds and Ceilings						Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 44	1/2 40	DT 36	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth			
EH+	46+	—	—	—	—	—	—	—	EH+		
VH	36–45	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5	— 0.5	— 0.5	— 0.5	VH		
HI	26–35	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0	— 0.5	— 0.5	— 0.5	HI		
MH	17–25	2.0 – 6.5	2.0 – 5.5	2.5 – 5.0	7.0	— 1.0	— 0.5	— 0.5	MH		
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.0 – 5.5	7.0	— 1.0	— 1.0	— 0.5	ML		
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.0	— 1.0	— 1.0	— 1.0	LO		
Radar: APG-30			ECM:	IFF	Weapon Stations Diagram:						
ECCM:	—	—	RWR:	—							
Arcs:	—	—	DDS:	—							
Search:	—	—	DJM:	—							
Track:	—	—	AJM:	—							
Lock-On:	7	—	BJM:	—							
Guns: Two 30 mm DEFA 552			Technology:		Load Point Limits:						
To Hit:	6/3/2	—	None		CL : 0–2						
Ammunition:	3.5	—			1/2: 3–6						
Gunsight:	TT+0/HT+1/BT+2	—			Weight Limit: 4,000						
Ranging:	RE	—			DT : 7+						
AtA/AtG:	6/6	—			Station Limit Allowed Loads						
Bomb System:	Manual	—			1 and 4	1,500	BB RP				
Notes:					2 and 3	1,100	BB RP FT				
1. The Dassault MD 454 Mystère IVA is a fighter-bomber.					5–8 and 9–12	200	RK				
2. High transonic drag (HTD).					Load Notes:						
3. Hit rolls at low transonic speed or greater have a +1 modifier to the hit roll due to instability.					1. Either stations 1 to 4 or stations 5 to 12 may be used.						
					2. If stations 1 or 4 are loaded with more than 1,100 lb, the maximum turn rate is reduced to HT.						
					3. Stations 5 to 12 may each carry one or two 105 mm T-10 RKs (large RK).						
					4. May use 450L FTs.						
VPs: 10/7/3/2								v2.0000000	0000-00-00T00:00:00		