

AERMACCHI M-346FA

The multirole Fighter Attack



AIRCRAFT DIVISION

 **LEONARDO**

Aermacchi M-346FA | The multirole Fighter Attack

Evolving from the proven Advanced Jet Trainer the Aermacchi M-346FA is a highly efficient and reliable radar-equipped multirole light fighter, meeting an increasingly wide range of customer operational needs.

The M-346FA is equally well suited to air-to-ground (CAS/COIN and Interdiction with Precision Guided Munitions), air-to-air (air policing and homeland defence) and tactical reconnaissance missions.

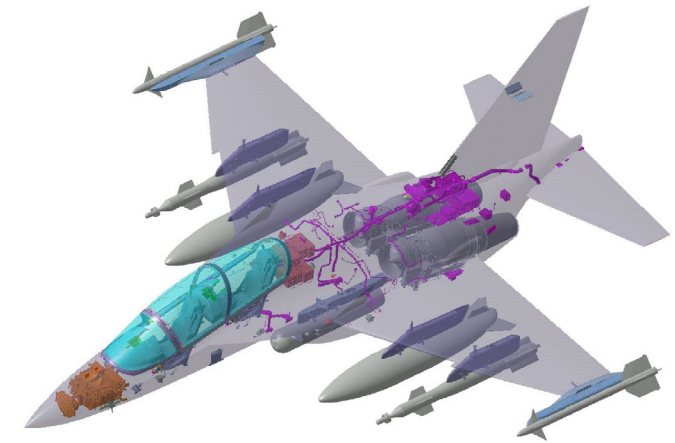
The M-346FA is a highly cost-effective, tactical solution for the modern battlefield.

Key features include:

- Multi-mode radar Grifo-M346 by Leonardo Electronics, specifically optimized for the M-346FA with IFF Interrogator, supporting air-to-air and air-to-ground missions
- Tandem-seat configuration well suited for complex air-to-ground missions, with excellent visibility from both seats
- High-end, net-centric communications suite, including Tactical Data Link
- Seven external hard-points for an extensive variety of weapons and external stores
- Twin engine configuration, hydraulic and electric redundancy and digital four channel Fly-By-Wire Flight Control System with carefree handling
- Air-to-air refueling capability for long range/ endurance and Time on Station
- Embedded Tactical Training System (ETTS) activated as a training alternative to real sensors and weapons
- Defensive Aids Sub-System (DASS) including Radar Warning Receiver (RWR), Missile Approach Warning (MAW), Chaff & Flare Dispenser

External store integration includes:

- GBU-12/16 (500/1000 lb) Paveway II LGB
- Lizard 2 LGB (500 lb)
- GBU-38/32 (500/1000 lb) JDAM
- GBU-49 (500 lb) Enhanced Paveway II GPS/LGB
- Lizard 4 (500 lb) GPS/LGB
- Small Diameter Bomb (SDB)
- TEBER (250 lb) GPS/LGB
- SPICE (250 lb) EO/GPS
- MK.82FF (500 lb) general-purpose bomb
- MK.82HD Snakeye/MK.83 (500/1000 lb) GPB
- Rocket Launchers
- Brimstone Air-to-Surface Missiles
- Gun pod
- FPR-14 AACMI pod
- Short Range Air-to-Air Missiles (AIM-9L, IRIS-T)
- Medium Range Air-to-Air Missiles
- 3 External fuel tanks (630 l each)
- Recce pod
- Target Designator Pod
- ECM pod



CHARACTERISTICS

WEIGHTS

Take off (Two SRAAM)	17,860 lb	8,100 kg
Ramp (Maximum)	23,150 lb	10,500 kg

POWERPLANT

Engines, turbofan: 2 Honeywell F124-GA-200		
Max Thrust, SLS, ISA	2 x 6,280 lb	2 x 2,850 kg
Internal fuel	4,420 lb	2,005 kg

PERFORMANCE (Two SRAAM)

Max Level Speed, Low Altitude	575 KTAS	1,065 Km/h
Limit Speed	572KEAS/ 1.1 MN	1,060 km/h
Service Ceiling	45,000 ft	13,715 m
Time to 30,000 ft	2,5 min	
Sustained Load Factor, SL	7.3 g	
Sustained Turn Rate, 15,000 ft	11.5 deg/s	
Ferry Range, 10% reserve, Clean/ 3 Ext. Tanks	900 nm/ 1,200 nm	1,665 km/ 2,220 km