

# Aermacchi M-346 Master

TRAINING FOR THE FUTURE



# Aermacchi M-346: TRAINING FOR THE FUTURE

The M-346 Master is a twin-engine, tandem-seat, next generation advanced jet trainer, key element of an Integrated Training System designed to enable student pilots to develop the knowledge, skills and habits required for maximum exploitation of modern combat aircraft.

The M-346 is purpose-designed for a wide range of training missions, long-term reliability and cost effective operations.

These characteristics – along with its Integrated Training System solution comprised of simulators and Ground Based didactic devices, including an operational Live, Virtual, Constructive environment – make the M-346 Master the best way to train the new generation of fighter pilots.

The modern Human-Machine Interface (HMI) and the advanced mission management suite offered by the M-346's Embedded Tactical Training Simulation (ETTS), make the Master truly representative of the next generation combat aircraft.

The M-346 superior quality and characteristics contribute to maximize teaching effectiveness and to allow flight hours to be downloaded from front line aircraft (Operational Conversion Unit), in the Lead In Fighter Trainer (LIFT) role.

In addition, the M-346 performance levels, flight characteristics, on-board systems and five hardpoints (three wet) offer significant capabilities also as a Companion trainer, Red Air and when armed for operational "Air policing" roles.

## Key attributes include:

- Carefree handling capabilities in the whole flight envelope
- ETTS for air-to-air and air-to-ground training
- Two independent Head-Up Displays with next generation fighter symbology
- Two independent Helmet Mounted Displays
- NVG fully compatible cockpit
- Comfortable environment and wide Field Of View from both cockpits
- Air-to-air refueling capability
- No scheduled depot-level structural inspection

## Performance

Max level speed	590 KTAS
Limit speed	572 KEAS / 1.2 MN
Rate of climb	22,000 ft/min
Service ceiling	45,000 ft
Limit Load Factors	+8 / -3 g
Endurance clean / 3 ext. tanks	2 h 45 min / 4 h

## Powerplant

Engines, turbofan	2 Honeywell F124-GA-200
Thrust, max, sls, ISA	2x6,280 lb (2x2,850 kg)

## Weights

Take-off (clean)	16,535 lb (7,500 kg)
Take-off (maximum)	21,165 lb (9,600 kg)

