

Aermacchi M-345 Tutor II

JET PERFORMANCE AT TURBOPROP COST



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The new Aermacchi M-345 Tutor II is the latest-generation training platform from Leonardo Aircraft. Modern avionics, precise handling characteristics with an integrated system of learning make the M-345 an optimal training aircraft. The high performance, versatile M-345 is ideally suited for Canada's entire training syllabus allowing comprehensive basic and advanced flight training on one platform.

The M-345 incorporates all Leonardo Aircraft's 60 plus years of consolidated experience in the design and manufacture of jet trainer aircraft to produce a cutting-edge platform with both the student and instructor in mind. All of the M-345's essential systems are designed for maximum safety and reliability while minimizing maintenance requirements. As a result, the M-345 delivers the high performance of a turboprop jet trainer with life-cycle costs comparable with those of heavy turboprop-powered basic training aircraft. Operators benefit from a two-level maintenance concept (organizational and intermediate) for aircraft, equipment and systems, while an on-board Health and Usage Monitoring System enables data collection and monitoring.

The M-345 Tutor II makes an outstanding aerobatic platform as proven by its selection for the Italian Air Force's world famous "Frecce Tricolori" air demonstration team. Its many desirable characteristics including performance, cost and visual appeal would make it an ideal replacement for its namesake, the CT-114 Tutor aircraft used by Canada's beloved Snowbirds. The revolutionary M-345 training system includes a complete Ground Based Training System package comprised of e-learning components such as the Computer-based Training; the procedural Training Device; a Mission Support Station for planning, briefing and de-briefing, an Operational

Flight Trainer, with a 180° wide-screen display and a life-like cockpit where the student pilots can use the same controls found on the actual aircraft. The Full Mission Simulator allows the introduction of tactics. Those skills will then be verified in-flight with the Embedded Tactical Training Simulation system. This system's multi-function displays enable the tracking of targets, friend or foe aircraft, threats and all the necessary elements to create an effective live, virtual and constructive training scenario. The M-345 Tutor II is the pinnacle of a long legacy of Aermacchi basic jet trainers - 60 years of building superb aircraft and creating first class pilots.

Dimensions

Wing span	8.47 m (27.78 ft)
Length	9.85 m (32.32 ft)
Height	3.74 m (12.27 ft)
Wing area	12.6 m ² (135.6 ft ²)

Weights

Take-off (Trainer)	3,300 kg (7,275 lb)
Take-off (Maximum)	4,500 kg (9,920 lb)

Powerplant

Engine, turboprop	Williams FJ44-4M-34
Maximum Thrust	1,540 kg (3,400 lb)
Internal Fuel	700 kg (1,545 lb)

Performance

Maximum Level Speed (SL/20,000 ft)	380/425 KTAS
Limit Speed	400 KEAS/0.8 MN
Stall Speed (Landing, 20% fuel)	88 KCAS
Rate of Climb (SL)	5,200 ft/min
Service Ceiling	40,000 ft
Limit Load Factors	+7/-3.5 g
Take-off/Landing Ground Run (SL)	520 m (1,706 ft)
Ferry Range (clean/2 ext. tanks - 10% reserve)	1,410 Km (760nm) / 1,815 Km (980nm)

