

Alenia Aermacchi is a world leader in the design, production and support of military training aircraft and offers the largest range of products that meet the requirements of all training phases from piston-engined primary to jet-powered basic, advanced and lead-in fighter trainers. Founded in 1913, the company has built over 7,000 aircraft including about 2,000 trainers to more than 40 countries. It was acquired by Finmeccanica in 2003.

The experience gained in the military sector has allowed the company to extend its business also to the civil aviation field, particularly engine nacelles supplied to all leading manufacturers. The company also participates in a number of major international military programmes.

Military Trainers

The wide range of products includes:

M-346 "MASTER"

The M-346 "MASTER" is the only new generation advanced/lead-in fighter trainer optimised for the role. High thrust-to-weight ratio, vortex-lift aerodynamics and re-programmable fly-by-wire

flight control system, give the M-346 flying qualities close to modern frontline fighters and improve the teaching effectiveness. The aircraft has a glass-cockpit, Hands On Throttle And Stick control (HOTAS) and embedded simulation capabilities. The twin engine solution provides high safety standards and the design philosophy reduces acquisition and operational costs. The M-346 is the ideal platform for next generation Integrated Training Systems.

Presently the M-346 "MASTER" has been chosen for a total of more than 60 aircraft (Italy and UAE) and there are going to be other commercial opportunities through the participation to important international bids.

MB-339

The MB-339 is a fully aerobatic, tandem two-seat, single-turbojet advanced/LIFT trainer. The MB-339 is in service with nine different nations and it is one of the most successful products in the Alenia Aermacchi portfolio. The 236 aircraft built have accumulated over 600,000 flight hours experience worldwide. With its proven ability to match the performance levels, and particularly the manoeuvrability, of operational aircraft, the MB-339 is perfectly suited to teach pilots weapon system management in a high-performance environment. Its latest MB-339CD version is equipped with state-of-the-art avionics including HUD and three MFD in both front and rear cockpits. A customised version (MB-339 PAN) is operated by the Italian Air Force aerobatic team, the famous "Frecce Tricolori".

M-311

The M-311 is a fast jet trainer for the basic/advanced phase of the pilot training syllabus. The aircraft is equipped with refined aerodynamic configuration, completely new avionics suite, powerful yet fuel efficient turbofan engine and new maintenance concept. The M-311 offers a significant reduction in acquisition and life-cycle costs similar to the high power turboprops and it is the most effective solution in the market for basic/advanced military trainers.

SF-260

The SF-260 is a fully aerobatic modern screener and primary trainer. It is available in both piston-engined and turboprop variants, respectively powered by a 260 hp Lycoming AEIO-540 (SF-260E) or a 350 shp Rolls-Royce/Allison Model 250 B-17D turboprop (SF-260TP).

With the SF-260, student pilots can achieve the skill levels required for a smooth transition to higher performance basic trainers. This minimizes the costs incurred when student pilots are washed out later in the training process. Twenty-seven military customers have already bought 880 SF-260 in all variants and the worldwide fleet has accumulated over 1,900,000 flight hours.

Military Programmes

Alenia Aermacchi's is a partner in international military programmes including:

- Eurofighter - design and development of underwing wing pylons, Stub Pylons, twin missile and twin store carriers, wing to fuselage fairings and titanium engine cowlings;
- AMX - with Alenia Aeronautica and Embraer. A Mid-Life Updating programme is underway for the Italian Air Force;
- Panavia Tornado - design and production of underwing pylons and wing tips, roots.
- C-27J Spartan - responsibility for building outer wings.

Civil Programmes

In over twenty years of activities, Alenia Aermacchi have become a center of excellence for the designing and manufacturing of aerostructures, engine nacelles components and acoustic panels.

International collaborations with key market players brought Alenia Aermacchi products on board of the most prestigious aircrafts: the super-jumbo Airbus A380 and Boeing 787, the regional jets ARJ-21, Embraer, Sukhoi SuperJet100, the long range Airbus family and the exclusive Dassault's business jet Falcon 7X, Falcon 900 and Falcon 2000.

