AIRCRAFT DIVISION



M-346FA

The single-aircraft Advanced Jet Training and Fighter Attack solution

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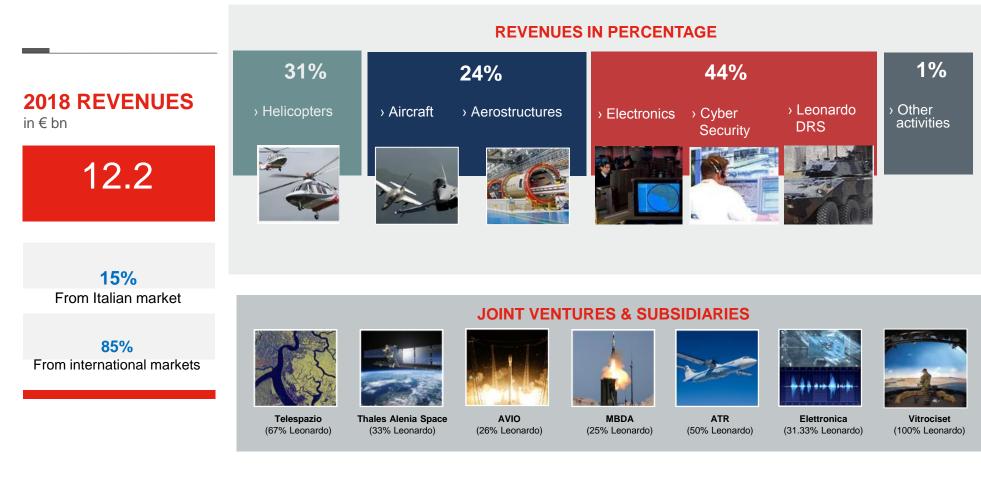
20th November 2019

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Leonardo

A global company in the Aerospace, Defence and Security sector with an integrated offer of high-tech and dual-use solutions



Leonardo Aircraft – Product Portfolio

FIGHTERS



Partner in the **Eurofighter** program – the most advanced front-line fighter on the market – with 600+ aircraft ordered by 9 Nations



Partner in the **F-35** aircraft, with a Final Assembly and Check Out (FACO) line in Italy



M-346 Fighter Attack (FA), variant of the advanced jet trainer, it is an highly effective and low-cost solution to meet light fighter requirements

TRAINERS



M-346, advanced jet trainer features:

- extreme maneuverability
- twin-engine
- Fly-by-wire
- State-of-the-art Human Machine Interface
- Embedded Tactical Training Simulation (ETTS)

M-345 basic jet trainer at the cost of a turboprop, features:

- Performance
- Flexibility
- Low Life Cycle Cost Affordability
- GBTS
- NATO interoperable
- ITAR Free

AIRLIFTER & SPECIAL VERSIONS

C-27J, true military airlifter



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C-27J Multi-mission



ATR42 / 72 MP & ASW, maritime patrol and antisom





M-346 Fighter Attack (FA): One Body, Two Souls



Aermacchi M-346 at a glance

CUSTOMER		ORD.
0	Italian Air Force	18
IF IS	_ Int'l Flight Training School	4
©:	Republic of Singapore Air Force	12
*	Israeli Air Force	30
	Polish Air Force	16
M-346F	6	

Also selected by: United Arab Emirates AF

Extreme Manoeuvrability
 Wide care-free handling
 flight envelope & High rate of climb

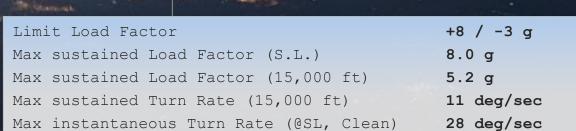
- Twin-Engine
 Very High Thrust/Weight Ratio
 Increased safety and reliability
- Auxiliary Power Unit, Autonomous Operation from austere airfield

- Fly-by-Wire Full Authority, Quadruplex FCS
- State-of-the-art Human Machine Interface
- Embedded Tactical Training Simulation (ETTS)
- FIGHTER ATTACK (FA)
- 7 Hard-Points
- Smart stand-off weaponry
- Multi-mode radar Grifo M346
- Self Defence capabilities

86 tot.

M-346 Performance

Max level speeed	590 KTAS
Limit speed	572 KEAS / 1.2 M
Climb Rate (S.L.)	22,000 ft/min
Service ceiling	45,000 ft (13,700 m)

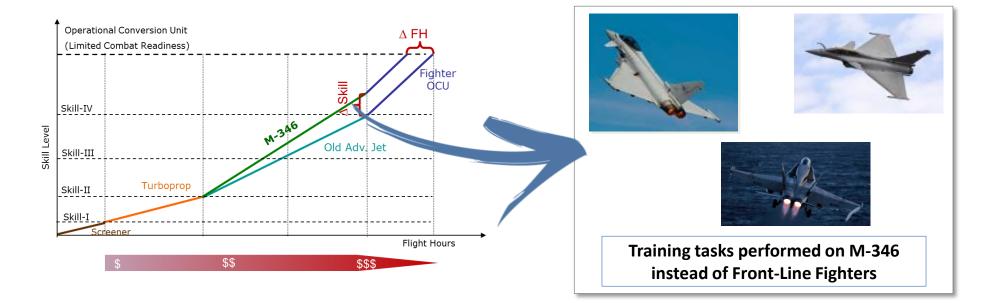


Max Range			
• Internal	Fuel	1,070	nm
• External	Tanks	1,470	nm
	and the second se		

M-346 – the most Advanced Jet Trainer on the market

Smooth Transition from Basic Trainer to Front-Line Fighters

- Highest "Teaching Effectiveness" to achieve required skills in less hours
- A significant reduction of hours flown on the most expensive fighters
- Major cost/time saving for the overall pilot formation



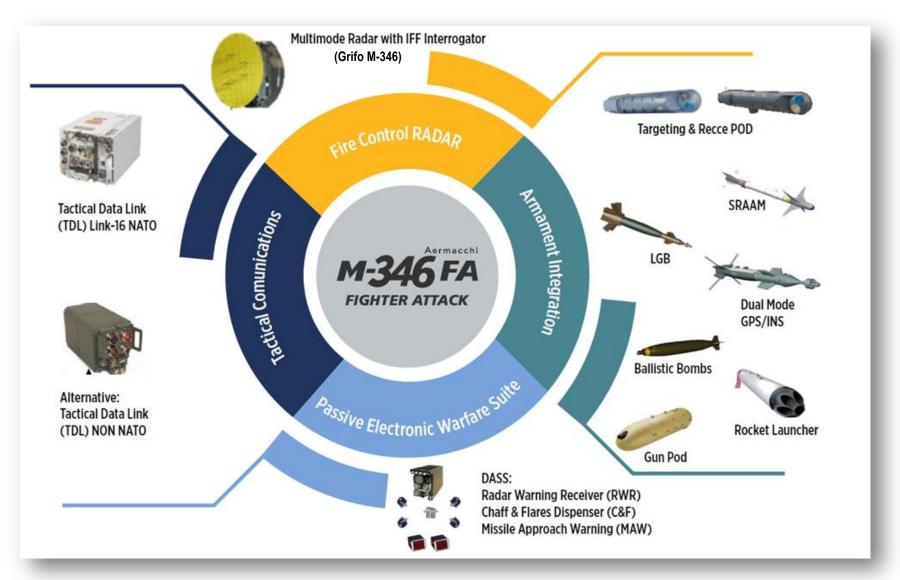
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M-346 reduces the conversion costs to the front-line fighter of more than 40%

M-346FA: Additional Roles

	 M-346 allows COMBAT READY PILOTS to maintain and improve proficiency M-346 can replace the required companion fighter(s) with less costs per flight hour 	
Companion Trainer		
 M-346 complements robust Air-Superiority fighters with an efficient less costly platform M-346 offers multi-task 	Aggressor / Red-Air	
capability by integrating advanced sensors with smart and precision munitions	 Simulate real combat manoeuvring against first-line fighter M-346 can replace the opponent fighter(s) with less costs per flight hour 	

M-346FA: advanced sensors, smart weaponry



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M-346FA: A cost-effective training and tactical solution

MODERN DESIGN

Modern design assuring optimized thrust/weight ratio for training and operational missions. Integrated Avionics and simulation offering cutting-edge technology.

OUTSTANDING PERFORMANCE

Fighter agility, manoeuvrability and energy level with long endurance and persistency.

OPERATIONAL CAPABILITIES

Equipped with the multi-mode Grifo radar, 7 hard-points for smart stand-off weaponry and self-defense for effective Companion, Aggressor and operational air-to-air missions.

□ LOW ACQUISITION AND OPERATIONAL COSTS

Low a/c acquisition cost, Low fuel burn, Low maintenance cost when compared to front-line fighters.



Average Cost ratio Vs High-End Fighters:

1/6 Maintenance cost 1/3 Fuel Cost 1/4 Acquisition Cost AIRCRAFT DIVISION



THANK **YOU** FOR YOUR ATTENTION

