



# EFT - J SERIES



Inner Harbour | Plot HD-15 | Hamriyah Free Zone | Sharjah | UAE  
STRICTLY PRIVATE AND CONFIDENTIAL

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# INTRODUCTION

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The EFT-J Series UAV's are designed to exhibit the characteristics of a generation 3 jet fighter.

The key success factors are:

- high speed (up to Mach 0.7)
- high maneuverability (up to +/- 20 G)
- long endurance (up to 90 min / 355 km)
- multi-payload capacity
- multi-mission capabilities
- rugged and compatible with dirt road
- economical

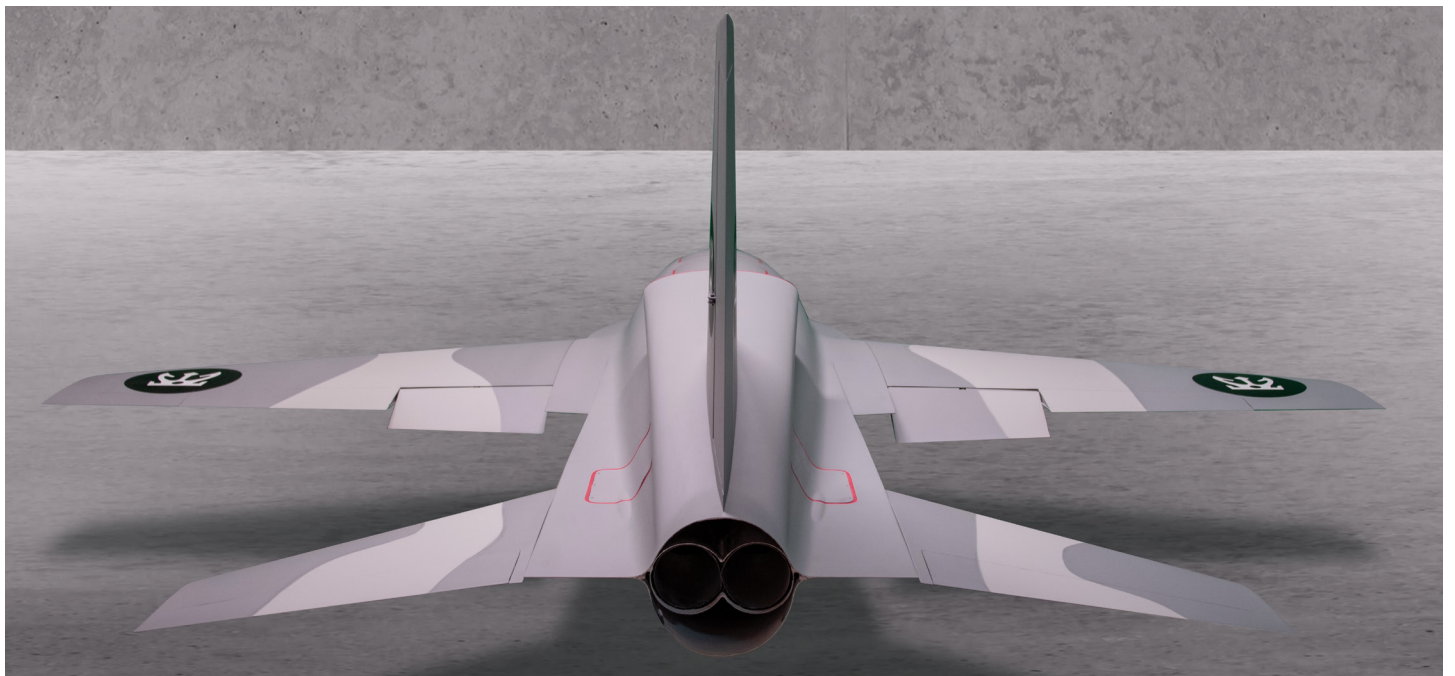
# IMAGES

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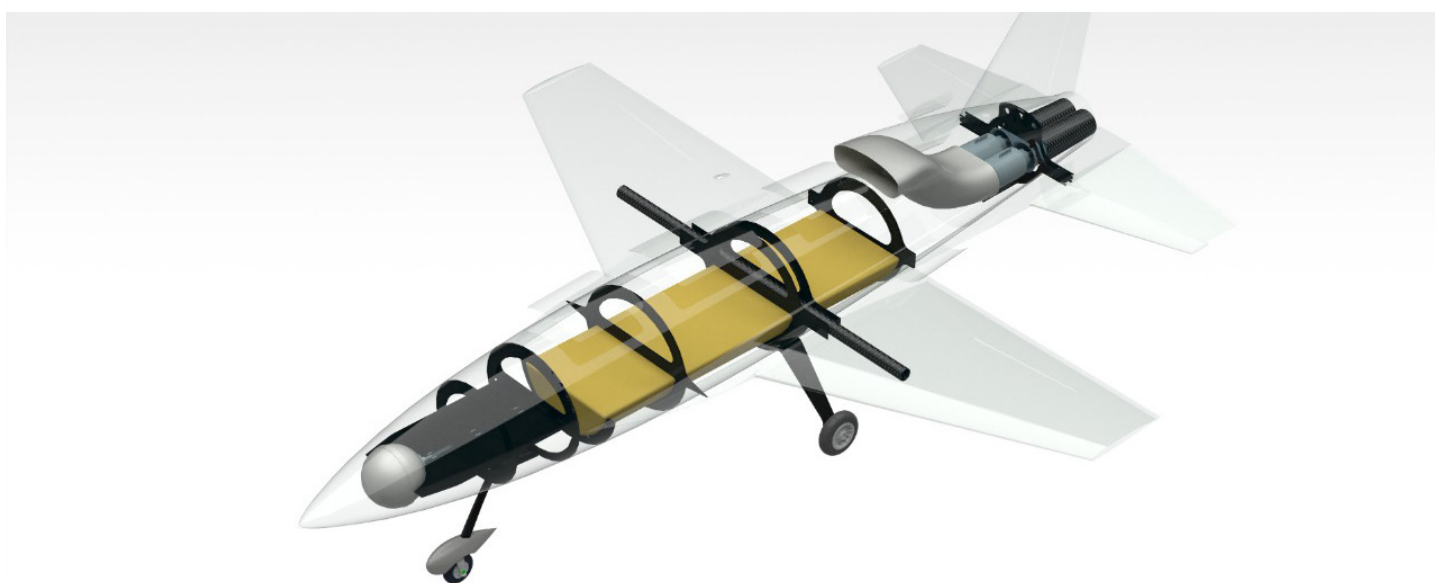
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## AIRFRAME IN DETAILS

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EFT - J is fully made from carbon fiber/ PEI UL core laminate, this allows the flying target target to be very light for its size. The performance is really exceptional and unique compared to classical target currently available. The speed, climb rate and realistic manoeuvrability of the UAV outclasses all the propeller targets.

EFT - J is fitted with a MIL spec autopilot (electronic computer and gyroscope). The flight track is followed by a ground station using multi GNSS positioning. The speed, altitude, and many other parameters can also be relayed on the ground.

The auto pilot checks ground station assignments continuously. It can be fitted with a recovery parachute that can be opened at any time from the auto pilot or the ground station, or can be operated from a runway or a road/dirt road.

## CATAPULT VERSION

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EFT - J are series is designed to be launched from a pneumatic or electro-magnetic catapult. Landing is made safely with a parachute recovery plus airbag.



## LANDING GEAR VERSIONS

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### Fixed landing gear

- rugged, allowing maximum payload
- suitable for runway or surfaces / dirt roads

### Retractable landing gear

- allowing maximum speed/performance
- suitable for runway or roads



# AUTOPILOT

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Enata's EFT-J series UAV's can be equipped with the client's preferred type of autopilots.

The typical characteristics are:

- IRS with 3 axis accelerometers, rate gyroscope and magnetometers.
- Dual GNSS with GPS, Glonass, BeiDou
- Encrypted Datalink: 400 Mhz, 900 Mhz, 2.4 Ghz, Satcom, 4G with BLOS capability (tracking antennas )
- Jamming resistant.
- Qualifications: DO-178B / ED-12, and DO-254 airworthiness certification
- Ground station with tracking antennas
- Dedicated professional software for mission interface with custom mapping possibilities and multi target capability.
- Professional backup remote control

# MISSIONS

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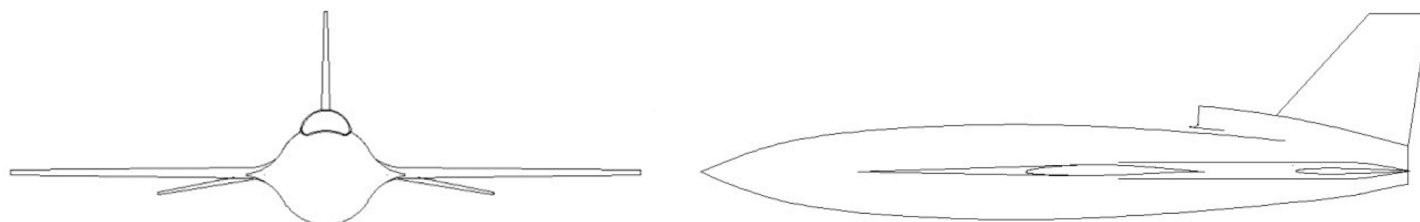


- Mistral can be used in a lot a different missions due to its large carrying capacity :
- Lüneberg lens, XMR 8.5" in the nose
- LunTech active radar reflector ARES818V in the tail
- IR flares on wing tips,
- Chaff dispenser on wing tips
- Liquid smoker in the tailpipe,
- Pyrotechnic smoker, on wing tips
- Active or passive transponders in the fuselage,
- Acoustic miss distance indicator in the fuselage,

It can also be configured as a penetration vehicle in hostile environment and carry surveillance or offensive equipment.



# EFT-J SPECIFICATIONS



MODELS	EFT-J400C	EFT-J400F	EFT-J400R	EFT-J500C	EFT-J500F	EFT-J500R
Length	3.5 m					
Span	3 m					
Thrust	400 N			500 N		
Engine	Single jet turbine			Twin jet turbine		
Max takeoff weight (MTOW)	145kg					
Dry weight	36 kg	38 kg	39 kg	38 kg	40 kg	41 kg
Internal payload capacity	30 kg					
External payload capacity	30 kg					
Main fuel tank capacity	88 l	88 l	68 l	88 l	88 l	68 l
Wing tip fuel tank capacity	17 l					
Max Speed	150 m/s 300 kts 540 km/h			170 m/s 340 kts 612 km/h		
Max endurance speed	66 m/s 132 kts 237 km/h	60 m/s 120 kts 216 km/h	66 m/s 132 kts 237 km/h	66 m/s 132 kts 237 km/h	60 m/s 120 kts 216 km/h	66 m/s 132 kts 237 km/h
Max endurance	90 min	90 min	70 min	70 min	70 min	55 min
Max range	355 km	324 km	276 km	276 km	252 km	217 km
Max cruise speed	150 m/s 300 kts 540 km/h	110 m/s 220 kts 396 km/h	150 m/s 300 kts 540 km/h	170 m/s 340 kts 612 km/h	130 m/s 260 kts 468 km/h	170 m/s 340 kts 612 km/h
VNE in dive	Mach 0.7 (864 km/h)					
Max altitude	5,000 m					
Max G loading*	+/- 20 G			+/- 15 G		
Launching	catapult	- runway - road - dirt road	- runway - road	catapult	- runway - road - dirt road	- runway - road
Landing	parachute	fixed landing gear	retractable landing gear	parachute	fixed landing gear	retractable landing gear
Launch speed at maximum takeoff weight (MTOW)	40 m/s 80 Kts 144 km/h					
Take off distance at max weight	N/A	300 m	300 m	N/A	250 m	250 m

\* without external payload

