



ELA Aviación S.L.

POLIGONO INDUSTRIAL EL BLANQUILLO, NAVE 3-4

14290 FUENTE OBEJUNA CÓRDOBA (SPAIN)

TEL. 0034 957 58 51 75 FAX. 0034 957 58 51 75

E-MAIL: [ela@elaaviacion.com](mailto:ela@elaaviacion.com) Web: [www.elaaviacion.com](http://www.elaaviacion.com)

# ELA 07 F AUTOGYRO



# ELA Aviación S.L.

POLIGONO INDUSTRIAL EL BLANQUILLO, NAVE 3-4

14290 FUENTE OBEJUNA CÓRDOBA (SPAIN)

TEL. 0034 957 58 51 75 FAX. 0034 957 58 51 75

E-MAIL: [ela@elaaviacion.com](mailto:ela@elaaviacion.com) Web: [www.elaaviacion.com](http://www.elaaviacion.com)

## **FUNCTION:**

Professional agricultural fumigation using liquids and solids.

## **FEATURES:**

The ELA 07F is a professional autogyro designed for agricultural air spraying. It can spray low and ultra low volumes of liquid. It can also be used as a two-seat tandem autogyro with dual controls. The spraying boom has an 8.25 meter range, with a 15 meter spray pass, plus overlap. The boom can be folded quickly and easily, meaning the autogyro needs very little hangar space. The boom can remain folded during flight so it will produce less drag. The autogyro is equipped with a GPS satellite sensor and a tank capacity of 130 liters.

## **ELA 07 F AUTOGYRO**

## **EQUIPMENT:**

- Stainless steel frame
- Carbon fiber tail fairing and empennage
- Leaf-spring type undercarriage
- Powerful mechanical pre-rotator
- Carbon fiber DUC propeller
- High-inertia ELA rotor
- Trim tab and electromagnetic impeller brake
- Warp trim
- Hydraulic wheel brake
- 75 liter fuel tank equipped with a flow meter
- Front seat with a storage tray
- Wheel fairing
- Complete fumigation system
- 130 liter product tank
- Electric exterior loading system (250L/min).
- Rotax 914 UL Turbo Motor



# ELA Aviación S.L.

POLIGONO INDUSTRIAL EL BLANQUILLO, NAVE 3-4

14290 FUENTE OBEJUNA CÓRDOBA (SPAIN)

TEL. 0034 957 58 51 75 FAX. 0034 957 58 51 75

E-MAIL: [ela@elaaviacion.com](mailto:ela@elaaviacion.com) Web: [www.elaaviacion.com](http://www.elaaviacion.com)

## INSTRUMENTS:

- Wind gage
- Vertical speed indicator
- Height gage
- Compass
- Rotor tachometer
- Engine tachometer
- Head temperature
- Oil temperature
- Oil pressure
- Fuel level
- Hours recorder
- Fumigation system pressure gage
- Fumigation system pressure control valve
- GPS satellite sensor

## ELA 07 F AUTOGYRO

## DIMENSIONS AND WEIGHTS

- Rotor diameter ----- 8.25mt.
- Length ----- 5.10mt.
- Height ----- 2.75mt.
- Width ----- 1.9mt.
- Boom width ----- 8.25mt.
- Max. take off weight ----- \*550Kg.
- Empty weight ----- 330Kg.
- Carrying capacity ----- 220Kg.

\*Carrying capacity up to 550 Kg, check the regulations for your country.



# ELA Aviación S.L.

POLIGONO INDUSTRIAL EL BLANQUILLO, NAVE 3-4

14290 FUENTE OBEJUNA CÓRDOBA (SPAIN)

TEL. 0034 957 58 51 75 FAX. 0034 957 58 51 75

E-MAIL: [ela@elaaviacion.com](mailto:ela@elaaviacion.com) Web: [www.elaaviacion.com](http://www.elaaviacion.com)

## FEATURES (Standard conditions)

- Spraying speed ----- 60MPH.
- VNE (boom deployed) ----- 80MPH.
- Cruising speed (boom folded) ----- 80MPH.
- Rate of climb (550Kg) ----- 600F/min.
- Take off run ----- 100Mt.
- Landing run ----- 0 – 15 Mt.
- Consumption when spraying ----- 18 - 20L/h.
- Flight endurance ----- 400Km.

## BENEFITS OF THE ELA-07F AUTOGRYRO

- Electric spraying system allows measuring without starting the engine
- “Surgical” cut at the end of the row (no trail)
- The autogyro does not cause vortexes and disturbance
- Electric diaphragm pumps with a nominal pressure of 60 psi (4 bar)
- Cabin system pressure control valve
- 15 meter swath pass with overlap
- Range: 3 Hectares per minute

## ELA 07 F AUTOGRYRO

## COST OF OPERATION

- Autogyro depreciation at 2000hr ----- Euro 27.50 per hour
- Engine maintenance ----- Euro 6 per hour
- Autogyro maintenance ----- Euro 2.5 per hour
- Fuel (at 1.10 Euro per liter) ----- Euro 21 per hour

Cost total per hour of flight ----- Euro 57

Cost total per sprayed hectare ----- Euro 0.60