



AERONAUTICAL INDUSTRY

web site Airtechs

The History Company

- The Airtechs Industria Aeronautica LTDA is a Brazilian company, located in São Paulo state. It was created to design, develop and manufacture the Guarú G200, which is a acrobatic aircraft developed to civil and military training.
- The Airtechs was looking to agricultural market, than it has decided to develop more two aircraft: the Guarú G300 with charge capacity of 600 kg of pesticides and the Guarú G400, with capacity of 1.000 Kg
- The company has started because its creators had big aviation obstinacy. The engineer Carlos Gonçalves, who already had a large knowledge in designing and manufacturing of various aircraft models and more than 200 aircraft manufactured, and Mr. Jesus Rodrigues, who experience in aviation, joined their forces to create the Guarú G200, an acrobatic aircraft and training civil and military in Sao Jose dos Campos, Brazil, which is the largest aeronautical center in Latin America.



- In 1998, after several years of intense work, the G200 Guará held its first flight.
- Today the Airtechs has a team of engineers trained at ITA - Institute of Aeronautical Technology, who design and develop their products which are ready to go to the world market.



New Site



AIRCRAFT G200

Applications

The aircraft Guar  G200 is used to:

- Civil and military pilot training
- Acrobatic flights in aerial shows
- Security and monitoring of frontiers between countries
- Airplane Tower.

Description

The aircraft is land type, monoplane, single engine, completely metallic, low wing, rectangular, cantilever, tandem two seats, fixed tricycle landing gear, allowing use of back parachute or seat parachute. Metallic construction fuselage, semi monocoque structured. Metallic cantilever empennage

Type Designation

- Manufacturer designation: GP-A135-A,
- Basic Type: Civil and Military Primary Training and Acrobatics.
- Number of seats: 02 (tandem)
- Engine: LYCOMING AEIO 360 A1B6, 300 HP, gasoline or SMA SR305 – 230 HP, fuel JET A1

Training Aircraft G200 – Technical Specifications

Parameters	Specifications
Engine – Lycoming or SMA SR 305	200 HP or 230 HP
Propeller – HT	Three blade
Maximum speed at leveled flight and maximum power	136 kt (252 Km/h)
Fast Cruise Speed (75% maximum power)	120 kt (222 Km/h)
Economy Cruise Speed (65% maximum power)	110 kt (204 Km/h)
Stall speed	55 kt (101 Km/h)
Stall speed with flaps	45 kt (89 Km/h)
Maximum slop ratio	1,400 ft/m (7.10 m/s)
Service ceiling	12,000 ft
Take Off Distance over 50 ft (15m) obst.	270 m
Landing Distance over 50 ft (15m) obst.	160 m
Range with 30 minutes fuel reserve	4:00 h
Equipped empty weight (Standard)	660 Kg
Maximum Take Off Weight	960 Kg

G200



AGRICULTURAL AIRCRAFT G300, FOR 600 Kg.

Description

The aircraft G300 is been developed and it is land type, monoplane, single engine, completely metallic, low wing, rectangular, cantilever, tandem two seats, fixed tricycle landing gear, allowing use of back parachute or seat parachute. Metallic construction fuselage, semi moncock structured. Metallic cantilever empennage. The G300 possess spraying tank with capacity of 600 kg.

Type Designation

- **Basic Type:** Agricultural spraying aircraft.
- **Number of seats:** 01
- **Engine:** SMA SR305 – 230 HP, fuel JET A1
- **Charge Capacity:** 600 Kg.

Applications

The G300 can be used for:

- Agricultural Pulverization.
- Fires Combat.
- Seeds Distribution .

Description

SAFETY

- The aircraft flight qualities herein specified assure maximum safety to its occupants. The aircraft is totally controllable at every attitude and does not present uncommon tendencies, either on ground as in flight. The cabin layout and its internal parts are so arranged that in case of an accident, the damages to physical integrity of the pilot are minimized. The SMA engine allows to carry flight exactly under electrical defect and loss of the battery tension.

FLIGHT QUALITY

- The flight qualities are conventional encompassing harmonization and sensitiveness of the controls, without any intermediary device.

Agricultural Aircraft G300 – Technical Specifications

PAMETERS	SPECIFICATIONS
Engine	300 HP, 4 Valve, 8
Fuel	Jet A1
Propeller	MTV 25, Three blade
Fast Cruise Speed (75% maximum	126 kt (233 Km/h)
Economy Cruise Speed (65% maximum	115 kt (213 Km/h)
Take Off Distance over 50 ft (15m) obst.	300 m
Landing Distance over 50 ft (15m) obst.	200 m
Range with 30 minutes fuel reserve	3:00 h
Stall speed	74 kt (137 Km/h)
Stall speed with flaps	50 kt (92,6 Km/h)
Equipped empty weight (Standard)	660 Kg
Maximum Take Off Weight	1560 Kg
Envergadura	9,636 m
Cumprimento	7,90 m
Altura	2,61 m

AGRICULTURAL AIRCRAFT G300, FOR 600 Kg.



AGRICULTURAL AIRCRAFT G400, FOR 1.000 Kg.

Description

The aircraft G400 is been developed and it is land type, monoplane, single engine, completely metallic, low wing, rectangular, cantilever, tandem two seats, fixed tricycle landing gear, allowing use of back parachute or seat parachute. Metallic and composite materials construction fuselage, semi monocoque structured. Metallic cantilever empennage. The G400 possess spraying tank with capacity of 1,000 kg.

Type Designation

- **Basic Type:** Agricultural spraying aircraft.
- **Number of seats:** 01
- **Engine:** SMA SR305, fuel JET A1
- **Capacity:** 1,000 Kg.

- **Applications**

The G400 can be used for:

- Agricultural Pulverization.
- Fires Combat.
- Seeds Distribution .

SAFETY

- The G400 aircraft flight qualities herein specified assure maximum safety to its occupants. The aircraft is totally controllable at every attitude and does not present uncommon tendencies, either on ground as in flight. Like in the races car, the cabin layout and its internal parts are so arranged that in case of an accident, the damages to physical integrity of the pilot are minimized. The SMA engine allows to carry flight exactly under electrical defect and loss of the battery tension.

FLIGHT QUALITY

- The flight qualities are conventional encompassing harmonization and sensitiveness of the controls, without any intermediary device.

Agricultural Aircraft G400 – Technical Specifications

PAMETERS	SPECIFICATIONS
Engine	360 HP
Fuel	Jet 1
Propeller	MTV 25, Five blade
Fast Cruise Speed (75% maximum	160 kt (296 Km/h)
Economy Cruise Speed (65% maximum	146 kt (270 Km/h)
Take Off Distance over 50 ft (15m) obst.	600 m
Landing Distance over 50 ft (15m) obst.	550 m
Range with 30 minutes fuel reserve	2:30 h
Stall speed	69 kt (127 Km/h)
Stall speed with flaps	58 kt (107 Km/h)
Equipped empty weight (Standard)	1.000 Kg
Maximum Take Off Weight	2.200 Kg
Maximum Fuel	200 l
Reach	500 NM
Envergadura	12,338 m
Cumprimento	9,450 m
Altura	3,2m

AGRICULTURAL AIRCRAFT G400, FOR 1.000 Kg.



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