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B23 MISSION



BRISTELL B23

“It is a great trainer for any flight school,” says Milan Bristela, founder and CEO of the company. The airplane looks very elegant and anyone who flies a BRISTELL falls in love with it within a few minutes. Once you try a BRISTELL, you don’t want to fly with anything else.”

WHY?

- Excellent flight and stall characteristics
- Night VFR certified, ready for IFR MCR upgrade
- Strong structure
- Roomy and highly ergonomic cockpit, 130cm wide inside, great for long distance flying or everyday teaching
- Rotax 912S, 100HP with very low operating costs
- 3-blade hydraulic adjustable low-noise MT propeller for optimum performance
- Opportunity to learn how to operate the adjustable propeller in training
- Dual hydraulic BERINGER brakes on rudder pedals
- Push rods in aileron and elevator controls, easy to maintain
- Modern full-glass cockpit with dual Garmin G3X screens
- Garmin autopilot with GMC 307 control panel and Blue LEVEL button

BASIC EQUIPMENT

BRISTELL B23 RTF CS-23-Light
ROTAX 912 S3 (100 Hp)
Single colour paint scheme
Night VFR
All documents for registration
Flight manual
Maintenance manual
Engine manual

EQUIPMENT

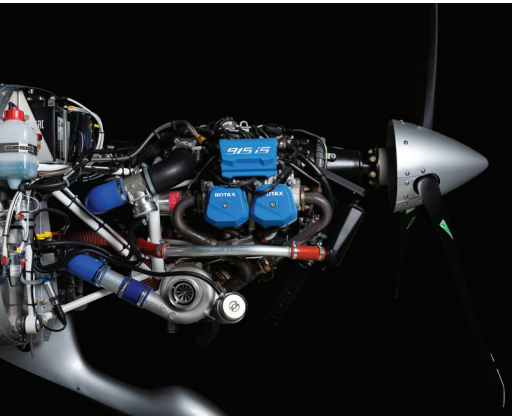
ROTAX 912 S3 (100HP) engine, carb. heat., slipper clutch, water thermostat
In flight adjustable propeller MTV-34-1-A/175-200 hydraulic constant speed
Locking canopy, locking fuel tank caps
Adjustable fresh-air ventilation system
Cockpit upholstery, two map pockets and arm rest box
Hydraulic differential disk brakes installed on both sides on rudder pedals
Steerable nose wheel
Electric elevator trim
Electric flap control system
Electric aileron trim
Four-point AmSafe seat belts
Luggage compartment behind seats
Tinted canopy
Canopy protection cover
Auxiliary fuel pump
Adjustable rudder pedals
Parking brake
Beringer light-weight wheels 5,00-5
Wheel fairings
Cockpit heater with demisting system
BRS rescue system
Firewall soundproofing
Cockpit upholstery, two map pockets, arm rest box
Special leather upholstery - including sleeve strips
Leather upholstered glare shield
Landing light mounted in wing
Wing strobes and navigation lights
Wing lockers
Tail skid

INSTRUMENTS - NAVIGATION

- L3 ESI-500
- Garmin GNC 255A NAV/COM
- Garmin G3X GDU 460 Dual
- Garmin GTX 345R, GPS 20A WAAS/GPS Pos.
- Garmin G3X GDU 460 Dual
- Garmin GSA 28 servos
- Garmin GMC 307 autopilot control panel
- Garmin GAP 26 AOA probe heated
- Back-up battery for G3X, IBBS-12V-3AH
- Intercom PM 3000 stereo
- Tosten CS6 on both sticks
- LED strip on the glare shield
- BOSE Lemo connectors
- ELT KANAD 407

TECHNICAL PARAMETERS

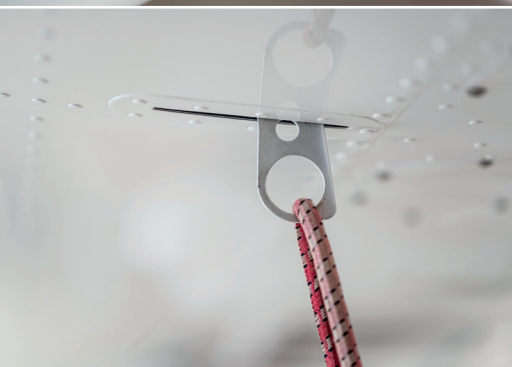
Dimensions	
Wing span	9,274 m
Wing area	11,75 m2
Wing loading	51,06 kg/m2
Aircraft length	6,585 m
Aircraft height	2,36 m
Cabin width	1,3 m
Weight	
Empty weight	450 kg
Maximum take-off weight	750 kg
Useful load (without parachute)	315 kg
Fuel tanks capacity	120 l
Fuselage luggage compartment	15 kg
Wing luggage compartment	2 x 20 kg
Load factor	+4/-2g
Operational speed	
Stall speed without flaps V_{S1} (MTOW 750kg)	48 KCAS
Stall speed with flaps V_{S0} (MTOW 750kg)	41 KCAS
Manoeuvring speed V_A	98 KEAS
Maximum flap speed V_F	81 KEAS
Maximum horizontal flight speed V_H	117 KTS
Never exceeded speed V_{NE}	156 KEAS
Climb speed	
Speed with best rate of climb (without flaps) V_y	75 KTS
Maximum rate of climb (without flaps)	690 ft/min
Speed with the best angle of climb V_x	60 KTS
Speed with the best angle of climb (flaps 10°) V_y	67 KTS
Maximum rate of climb (flaps 10°)	732 ft/min
Take-off distance (roll)	363 m
Take-off distance (passage of 15m)	469 m
Landing distance (rolling)	134 m
Landing distance (from the passage of 15m)	329 m
All speeds have been tested at maximum take-off weight 750kg	



- Rotax 915 iS, 141HP
- High altitude performance
FL120, 5000 rpm, 70% power FF 26,7 TAS 240 km/h
4800 rpm, 75% power FF29,5, TAS 250 km/h
Maximum cruise speed at FL120, TAS 283 km/h
Climb from 4000 feet to 14000feet - 1450 feet/min on 160Km/h, pitch +8 degree.
Maximum cruise speed in FL140 291 km/h TAS



- ▲ In the basic equipment is Garmin instrument panel and Autopilot.
- ◀ 20kg baggage compartment in each wing



- ▲ ◀ Hydraulic constantspeed propeller
- ▲ Pitot heat in standard equipment

- ◀ Strong Whelen strobe lights with Brn landing lights for better night landing

The data introduced in this leaflet are informative only.