

BRISTELL **B23**

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TURBO







## BRISTELL B23

750 KG MTOW | 300 KG USEFUL LOAD

BRISTELL, the Czech light aircraft manufacturer which by 2021 has produced more than 670 LSA aircraft worldwide, has launched the BRISTELL B23, its next generation low-wing airplane. BRISTELL says they "had listened to feedback from happy customers from around the world" before designing the new aircraft.

The airplane's maximum take-off weight of 750 kg and empty weight of 450 kg offer you 300 kg of useful load including hydraulic adjustable propeller, BRS safety system and GARMIN autopilot. The airframe is designed for long life and has a robust structure, which makes it particularly well-suited for flight training and for cross-country flights as well.

The B23 has been designed to satisfy the European CS23 / U.S. FAR23 certification basis.



# BRISTELL **B23** TURBO

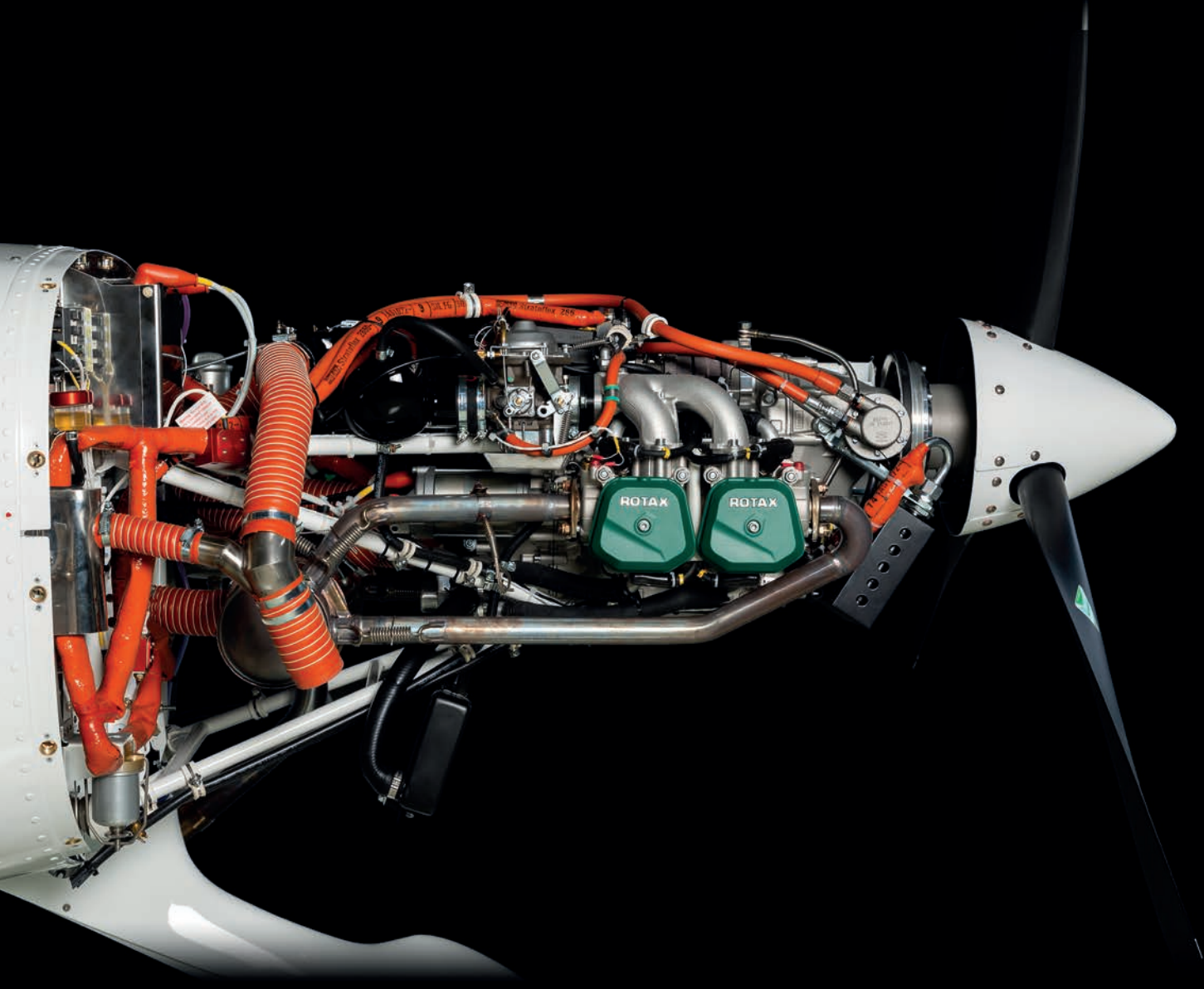
750 KG MTOW | 285 KG USEFUL LOAD | CERTIFIED UP TO 18000 FT

Enjoy high performance thanks to the combination of the ROTAX 915 iSc engine and the MT propeller. Fly fast and sporty - agility and excellent response to aircraft control will be on your side.

Perfect choice for cross-country flights and high altitude flying.







## ROTAX 912

100 HP

Best power unit for low-cost operation.

Good choice for for flight schools, clubs and hobby flying.

Best performance with an hydraulic MTV-34 propeller.



## EXCELLENT CHOICE FOR YOUR FLIGHT SCHOOLS

Night VFR training.

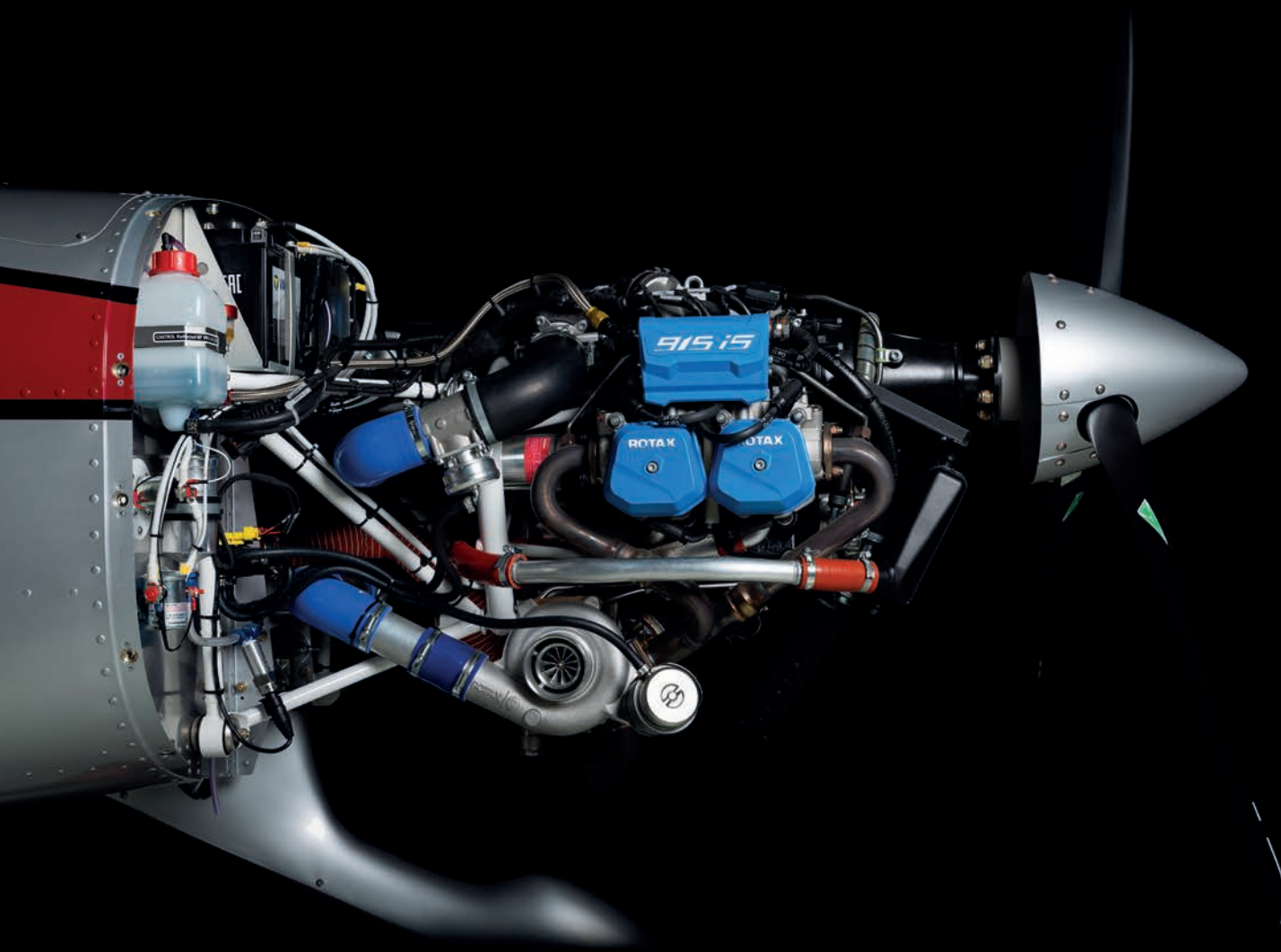
IFR training.

High altitude training with BRISTELL B23 Turbo / 915.

### Easy operation thanks to

- excellent stability
- outstanding stall characteristics
- steerable nose wheel





## ROTAX 915 ISC

141 HP

Engine with the best performance and rate ratio in the class.  
Excellent power with MT propeller.



High altitude performance.

Perfect choice for cross country flights.

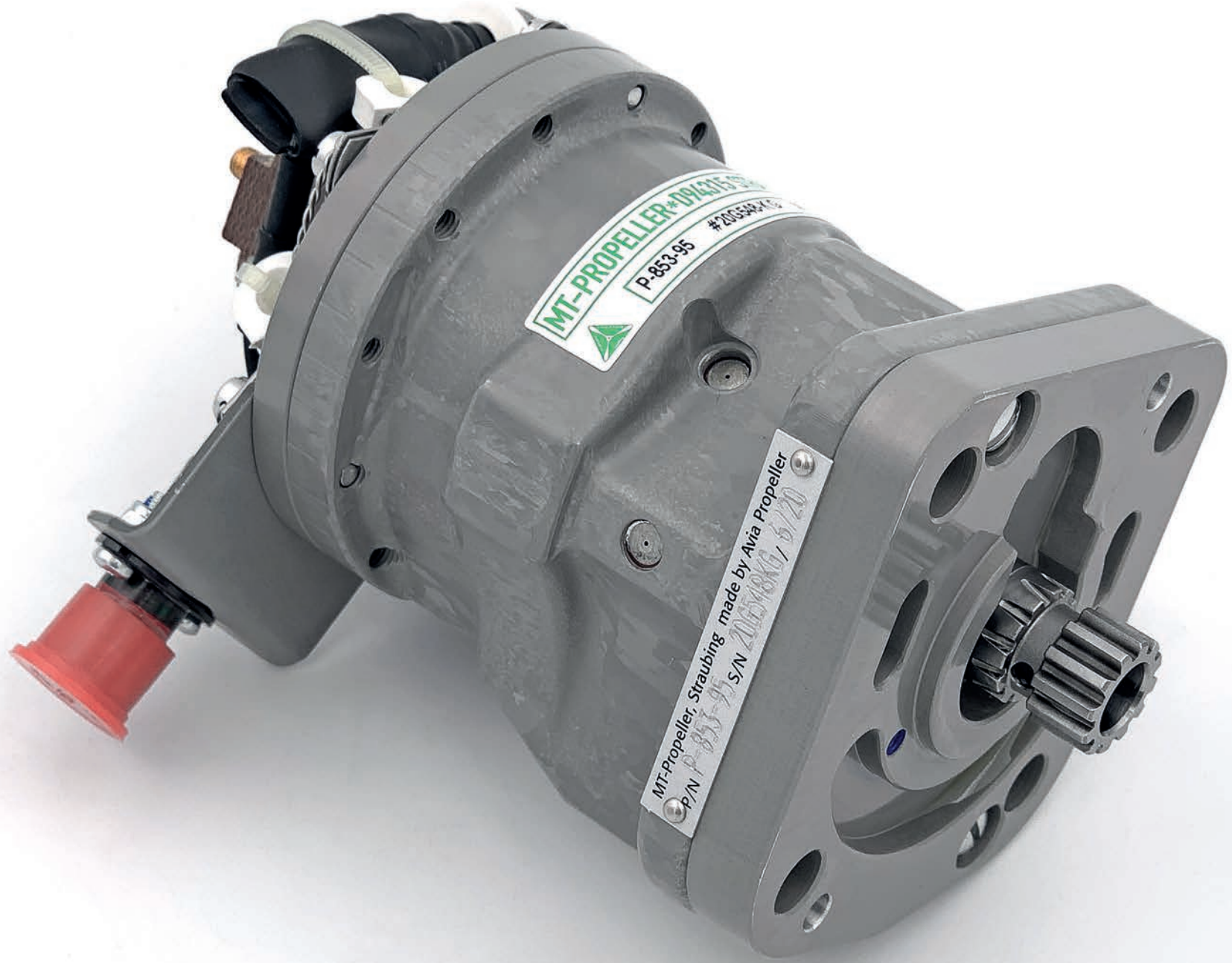




## ROTAX 912 ISC

100 HP

With a single lever control unit and a 3-blade constant-speed propeller, this aircraft is very easy to operate for students, club members, and professional pilots. Thanks to its low fuel consumption and high TBO, it is an efficient choice for any aeroclub or flying school.



MT-PROPELLER-0914315  
P-853-95 #205540245

MT-Propeller, Straubing made by Avia Propeller  
P/N P-853-95 S/N 205540245 / 6/20



## DAY NIGHT VFR

### INSTRUMENTS / NAVIGATION

L3 ESI-500 / GI 275  
 Garmin GNC 255A NAV/COM  
 Garmin GDU 460 Dual G3X Touch Display  
 Garmin GTX 345R, GPS 20A WAAS/GPS-Pos.  
 Garmin GSA 28 smart autopilot servo  
 Garmin GMC 507 autopilot control panel  
 Garmin GAP 26 AOA probe heated

Back-up battery for G3X, IBBS-12V-6Ah  
 Tosten CS-8 on both sticks  
 LED strip on the glare shield  
 BOSE Lemo connectors  
 ELT Kannad 406

# IFR

## INSTRUMENTS / NAVIGATION

Garmin G500 TXi PFD with synthetic vision  
Garmin G3X engine monitoring system  
Garmin GMC 507 autopilot control panel  
Garmin GI275  
Garmin GTN650Xi

Garmin GNC 255A NAV/COM  
DME remote in G500  
Remote Garmin XPDR  
Garmin Audio panel GMA 345  
L3 Storm scope



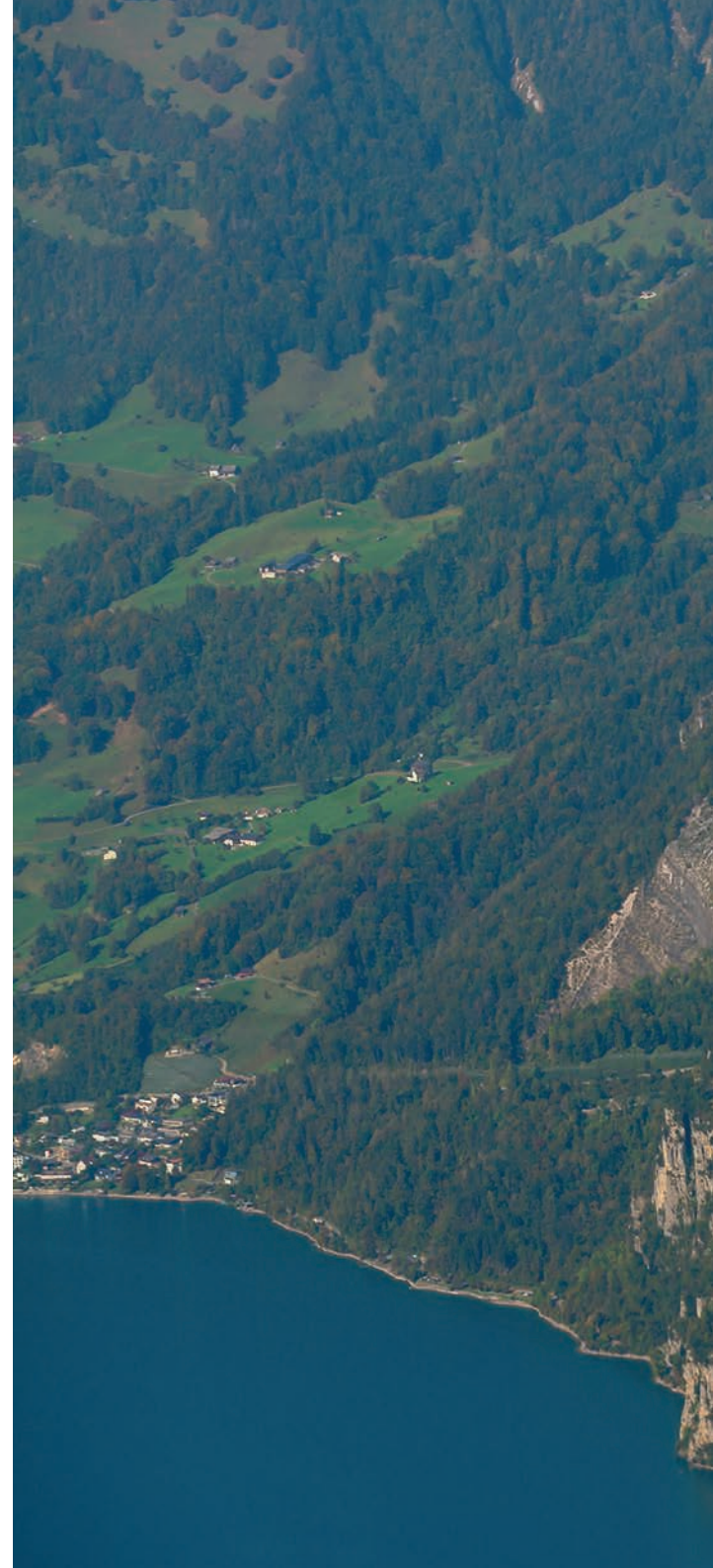


## BRISTELL B23 TOWING

**B23 is certified for**

- gliders up to 800 kg
- tow pilot training

**You can choose towing device – hook or winch.**











OK-ACD

B23.fr

SPRINT 2003



## INTERIOR AND UPHOLSTERY FOR MAXIMUM COMFORT

Sit comfortably. Fly. Enjoy. Thanks to the comfort of our seats, spacious cockpit and great ergonomics you can cover any distance. Precise processing. Choose a color combination according to your personality.



# BRISTELL B23 DESIGN

The design of the aircraft is done by people with passion and care. Design for your plane. An airplane for your life.





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## BRISTELL B23 FEATURES

### 1 / Hydraulically adjustable constant speed propeller

BRISTELL B23 is already certified as standard with a hydraulically adjustable three-blade constant speed propeller to take advantage of the maximum power of the ROTAX engine, both in ascending mode and maximum speed in horizontal flight.

### 2 / Large luggage compartment

BRISTELL B23 is certified including the luggage compartment 2x20 kg in both wings. As well as in the luggage compartment 15 kg behind the seats. In total you can load 55 kg of luggage into the aircraft and you still have 245 kg of payload left. This makes the B23 the winner among GA aircraft worldwide.

### 3 / Easy to fly with autopilot

Fly cross-country flights even more comfortably and safely. A modern and advanced GARMIN autopilot will help you.

### 4 / The most spacious cockpit in its class

Fly comfortably even two. Don't limit yourself, you have enough space. Enjoy the comfort of the most spacious cabin on the market. The width is 130 cm.

### 5 / Steerable nose wheel for full control

The aircraft will be under your full control even when taxiing. BRISTELL B23 is produced only with a steerable nose wheel controlled by rudder pedals.

### 6 / BRS rescue system for more safety

BRISTELL B23 has successfully passed the entire certification without a ballistic rescue system. Due to the high demand, the B23 is also certified with a rescue system from BRS, which is, for example, the main supplier of rescue systems for well-known Cirrus aircraft.

### 7 / OPTIONAL hook or winch for gliders towing

You can choose towing device – hook or winch.

### 8 / OPTIONAL FOR 912 engine certified exhaust silencer

Reduce the noise of your BRISTELL B23 with EASA certified exhaust silencer. Fly even when other aircraft have to stay on the ground.



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### 9/ Single lever control unit



## BRISTELL B23 TECHNICAL DATA

	BRISTELL B23	BRISTELL B23 TURBO
<b>Dimensions</b>		
Wing span	9.274 m	
Wing area	11.75 m <sup>2</sup>	
Wing loading	63.82 kg/m <sup>2</sup>	
Aircraft length	6.585 m	
Aircraft height	2.36 m	
Cabin width	1.3 m	
<b>Weight</b>		
Empty weight	450 kg	465 kg
Maximum take-off weight (MTOW)	750 kg	750 kg
Useful load	300 kg	285 kg
Fuel tanks capacity	120 l	
Fuselage luggage compartment	15 kg	
Wing luggage compartment	2x20 kg	
Load factor	+4/-2 g	
<b>Airspeed, Climb and Cruise performance</b>		
Stall speed without flaps V <sub>S1</sub>	50 KCAS (MTOW 750 kg)	
Stall speed with flaps V <sub>S0</sub>	43 KCAS (MTOW 750 kg)	
Manoeuvring speed V <sub>A</sub>	98 KCAS	
Maximum flap speed V <sub>FE</sub>	81 KCAS	
Maximum horizontal flight speed V <sub>H</sub>	117 KTAS	FL140 157 KTAS
Never exceeded speed V <sub>NE</sub>	156 KCAS	
Best rate of climb speed V <sub>Y</sub> (flaps retracted), MTOP	74 KIAS	82 KIAS
Best rate of climb (flaps retracted), MTOP	700 ft/min	1 260 ft/min
Best angle of climb speed V <sub>X</sub> , MTOP	62 KIAS	66 KIAS
Best rate of climb speed V <sub>Y</sub> (flaps 10°), MTOP	76 KIAS	84 KIAS
Best rate of climb (flaps 10°), MTOP	634 ft/min	1 195 ft/min
Take-off distance (ground roll)	365 m	176 m
Take-off distance over 15 m (50 ft) obstacle	479 m	331 m
Landing distance (ground roll)	146 m	
Landing distance from 15 m (50 ft) height	391 m	

All data at MTOW 750 kg

## EQUIPMENT

ROTAX 912 S3 (100 HP) engine, carb. heat., slipper clutch, water thermostat  
 ROTAX 915 iSc (141 HP) engine  
 ROTAX 912 iSc (100 HP) engine  
 In flight adjustable propeller MTV-34-1-A/175-200 hydraulic constant speed  
 Locking canopy, locking fuel tank caps  
 Adjustable fresh-air ventilation system  
 Hydraulic differential disk brakes installed on both sides of 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  
 Single lever control unit



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