

**auto
GYRO**



Cavalon

a new era





Next to each other – with each other

Flying is our passion. When we have overcome gravity with neck and crop and when the air becomes our element, we can feel the infinite freedom tickling all over our body. Every single thread of us tries to realize the never-ending vastness, every single breath pumps fresh air into our lungs. We are part of the vastness. We are one with the sky. We are free.

This interaction of emotion and energy gets a completely new dimension with the Cavalon. Experiencing the flight next to each other means enjoying the flight with each other. Sharing the room next to each other means feeling the room with each other. The Cavalon is new way of flying, a shared flying. We are next to each other, we are with each other.



Cavalon – Boarding Enthusiasm

We are fascinated. Thought-out design and superior presence forms the image of the Cavalon. With its characteristic double wing doors, it invites us to a completely new flying experience. Every little detail shows us the new orientation and we are amazed by the exclusive form of the aircraft. The generous picture windows offer the perfect frame for our great view and the wide gills grace the sportive rear for our flying fun. We are boarded.



A joy shared is a joy doubled

Effortlessly we lift off and feel comfortable. The Cavalon adjusts to us and our demands, and gives us the freedom of simply enjoying the flight together. Next to each other we can appreciate the same view and share the experience of the lighthearted freedom. Calm and considerate it chauffeurs us, so that we can enjoy the comfort and the high standard without restriction. The Cavalon is convincing. We are relaxed.





Cavalon

Cavalon



Focused, determined, arrived

We have asked for this aircraft and it has been built to our demands. The Cavalon leaves nothing to be desired. Having been developed at record speed, it has been presented to us in 2010 for the first time. Already then, it caused a sensation and it surely deserves to do so. Less than one year later, after the first drawn line of its contours it arose from the blank paper to being something special, the Cavalon obtained the German registration. Focused, it may now present us its world and its points of view.

Determined, the LED landing lights capture the surroundings and contribute the resolute look to the Cavalon's front. The generous wing doors give us a first insight into the spacious

interior and alleviate boarding and deboarding. Without difficulty, we may adapt the many individually adjustable features to our personal level of comfort and store our luggage safely behind our seats. All flight instruments are clearly arranged in the cockpit and offer a perfect overview for the flight together.

The roomy cabin of the Cavalon offers us our seats next to each other and promises the unprecedented flight experience – communicative, collective, connected. Unrivaled and successful, the Cavalon has reached our goal and is to our disposal, to chauffeur us to our next destinations.

We are impressed.



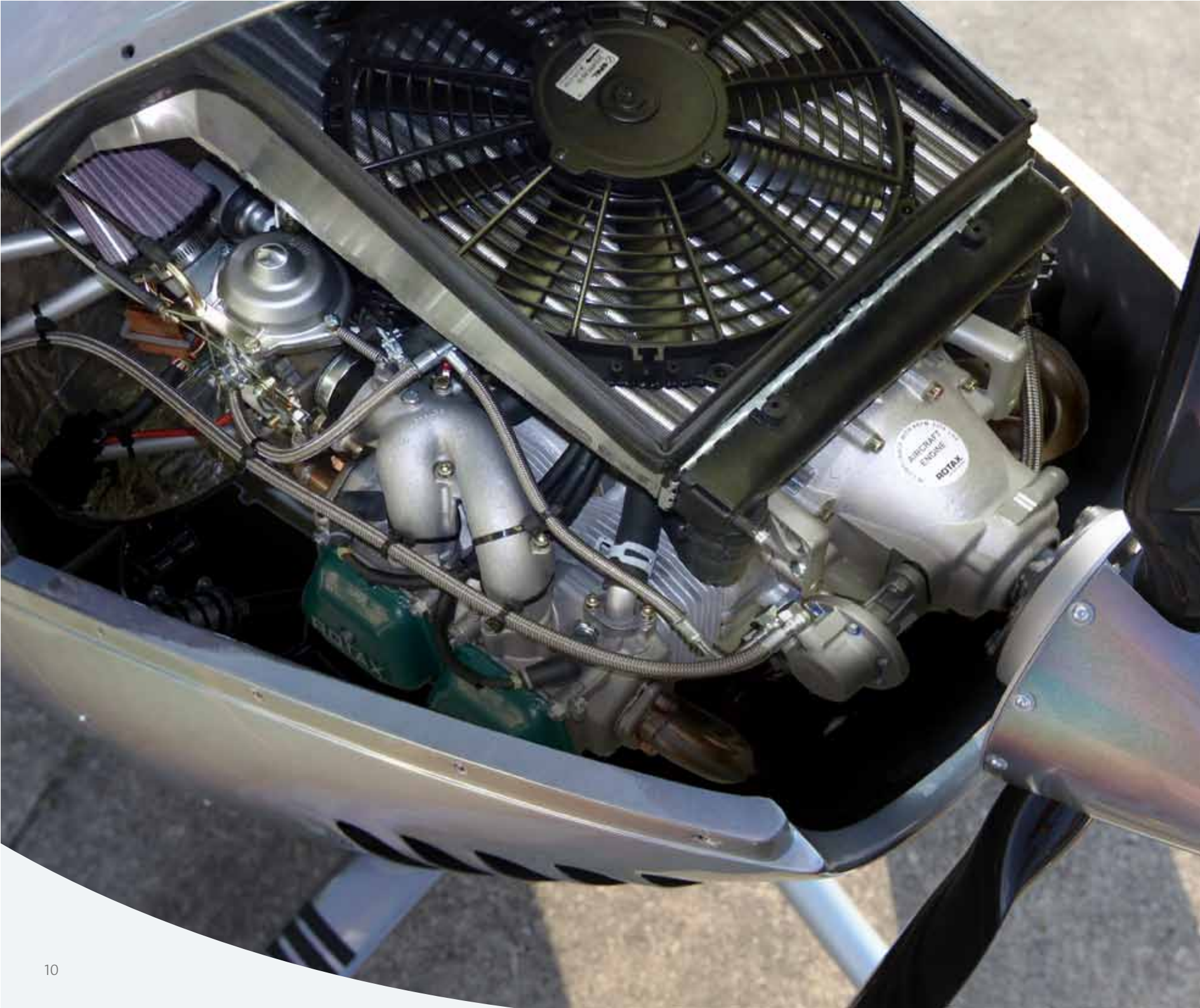
I see something you don't see

That's over with. The horizon is ours, the view is for the both of us. The huge window bank of the Cavalon shows us nature's great vastness and gives us an overview over the amazing landscape. Equipped with everything we need,



the interior hosts us just perfectly and comfortable. And even that can be expanded, when removing the stylistic wing doors for our incomparable convertible feeling.* That's the ideal arrangement between comfort and sportiveness. We are present.

* dependent upon the airworthiness restrictions





Technical details motor

- Rotax 912 ULS with 100 HP
- Rotax 914 UL Turbo with 115 HP
- Rotax 912 iS with 100 HP (dependent upon registration)
- 4 cylinders
- Liquid-cooled cylinder heads
- Air-cooled cylinders
- Dry sump forced lubrication
- Electronic dual ignition
- 2. electronic fuel pump, for 912 ULS

Powerful Quality

Ideally adapted to our demands, the Cavalon also shows competence underneath the surface and meets highest requirements. As with every AutoGyro, the Cavalon is run by approved Rotax engines, which are offered in in three versions: originally with the 912 ULS or a bit more sportive with the 914 UL Turbo, in the future with the 912 iS injection motor. In combination with the the in-house HTC 3B CCW 172,5 propeller our performance is completed. The big fuel tanks (collective 100 ltrs.) are filled with 95 or 98 octane fuel or AvGas and give us the freedom to enjoy our flight for up to five hours.





Sennheiser-Headset HME 110



Sennheiser-Headset HMEC 460



Sennheiser-Headset S1 Digital

Everything at a glance and on the road of success

It is the entire margin united in the Cavalon's cockpit und we can choose freely. No matter if we choose the standard or high-end variant – there is the ideal solution directly fitted to our demands. All functions and features are visible at a glance, no compromises are accepted and we can simply devote ourselves to the comfort of the aircraft. Individually adjustable seats (decline and lumbar support) with finest fabric or leather covering, individually adjustable pedals and infinitely adjustable seat heating crown the sophisticated design and unique concept. Completed by premium Sennheiser headsets, we are given the perfect combination for our requirements. We are equipped.





red dot design award

We are awarded. It is one of the biggest and most famous product design competitions of the world: the red dot award. This high-value award is an internationally recognized quality seal and a positive classification of the products on the global market. The AutoGyro Cavalon was now awarded with the demanded red dot award: product design 2012, which prides the sophisticated and innovative design of the gyroplane. We are proud.



reddot design award
winner 2012



With best-in-class quality and engineering to the world market leader



AutoGyro is based at Hildesheim airport, and has grown steadily since starting to make gyroplanes in 2004. As the world market leader in development, production and sales of gyroplanes, the specialist from Lower Saxony employs a team of over 90 high class workers and engineers. Thanks to many years of experience, as well as the in-house development and production with strict quality audits, the manufacture of



safe and reliable gyroplanes meeting highest standards has become second nature. Within the serial production facility one to two gyroplanes per day are produced and supplied to its recipient all around the globe. AutoGyro serves and supports a superb global network consisting of more than 40 sales partners around the world.

In England, the country with the strictest construction regulation (BCAR Section T), AutoGyro in cooperation with RotorSport UK Ltd. succeeded to supply the first ever UK Type Approved factory built gyroplane in the market. Furthermore, AutoGyro holds more than 20 patents.





Technical data Cavalon

Standard equipment

- Dual seat gyroplane side by side
- Monocoque construction including 2 side doors, each with sliding and vent window
- With dual control-option
- 2 luggage compartments behind the pilot seats
- Aluminum rotor system Naca 8H12 8,4m
- Exhaust stainless steel, aftermuffler aluminum
- Turbo with 115 PS
- Additional electrical fuel pump for Rotax 912 ULS
- Propeller HTC 3B CCW 172,5
- Instrument Panel
 - Airspeed and Altitude
 - Engine and Rotor rpm
 - Oil and cylinder head temperature
 - Oil pressure
 - Standard compass on top of instrument panel
 - emperature indicator OAT and RBT
 - Engine hour meter
 - electrical fuel gauge
 - 12V power plug
- Pneumatic trim (altitude) and Rotor Brake
- Pneumatic roll trim
- Pneumatic prerotator with safety lock
- Hydraulic main wheel brake with parking position
- Battery charging plug
- Fuel tanks, collective capacity 100 lts.
- Rotor bag
- All composite parts are painted
- pilot-seat with adjustable back, sitting position and angle
- Adjustable pedal position, recommended body height 155-205 cm
- Color choice on color palette
- Fully assembled and test flown

| | | | |
|------------------|-------------------|---------------|---------------|
| l x w x h | 4,8 x 1,7 x 2,7 m | | |
| mtow | 450 (560) kg | range | up to 5 h |
| Vne | 160 km/h | rotor | 8,4 m |
| Vcruise | 145 km/h | engine | Rotax 914/912 |

Additional Equipment

Engine

- Rotax 912 ULS with 100 HP
- Rotax 914 UL Turbo with 115 HP
- Rotax 912 iS (Injection) with 100 HP, dependent upon registration

Color

- All aircraft panels made from GRP/CFK. Panels (body, tail unit, rudder, engine and mast panels, suspension bow, wheel housings and spinner) are painted in the customers color
- Standard colors are yellow, red, and white (cost included in the basic price)
- Special colors (solid color or metallic), two-color lacquer finishes or special lacquer finishes are available subject to special order

Avionics

- Radio ATR500 Funkwerk Avionics
- Radio ART833 Funkwerk Avionics
- Transponder TRT800H Funkwerk Avionics
- ELT automatic radio beacon Kannad 406 compact
- Filser radio ATR500 or ATR833 fully fitted
- Headsets Sennheiser S1, HMEC 460, HME 110

School equipment

- Flight instructor set consisting of pedals and stick on the left side

color examples



Lighting

- Landing lights LED
- LED strobes and navigation lights

Cockpit

- GPS or Glass cockpit variants for the following devices:
 - Garmin 695
 - ThinkNavi T7
 - Flymap L, LD, XL
 - Dynon SkyView 10"
 - iPad mounting
- Additional instruments
 - Vertical speed indicator 80 or 57 mm
 - Manifold Pressure

Special equipment

- Leather seats
- Comfort seats with lumbar support and seat heating
- Floor mats
- Sun shield
- Cockpit heater (variable in flight)
- Painted wheel spats front and rear
- Painted interior
- Optional asphalt or lugged tires
- Fire Warning System
- Lockable fuel tank cap
- Super B battery (weight reduction 2 kg)



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