

DIRECT FLY

LICENCE
TRANSFER

AIRCRAFT PRODUCTION IN CZECH REPUBLIC SINCE 2007

250+ PLANES MANUFACTURED

ALTO NG

Reliable, untricky and popular aircraft produced since 2007 with over 250 planes flying worldwide. Thanks to its flying characteristics it's ideal plane for your aeroclub, flying school or just for travelling on your own. All-metal construction allows easy airframe repairs and possibility to paint the plane in almost any color. Available as a ready to fly or as a kitplane.



STOL CRUISER

All-metal high-wing ultralight combining a high cruise speed with short take-off and landing ability. This aircraft is being developed in order to achieve outstanding performance. The interior is enormously spacious and can carry a lot of luggage. Because of no wing struts and sliding seats, access to the cockpit is very comfortable.



TECHNOLOGY TRANSFER - START YOUR AVIATION BUSINESS TODAY!

For ALTO NG we offer technology transfer, which means you can get from us complete drawings, data and documentation, staff training and exclusivity for ALTO NG sales in a particular region.

- 1) Get know-how and license
- 2) Get trained
- 3) Get money from selling your planes!



www.PersianAviator.com

+98 21 44663236
+98 9127745680
+98 9192971130

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LKCM, Brno, CZE



TECHNOLOGY TRANSFER INCLUDES:

- Drawings and technical documentation
- Jigs and molds
- Technical support on-site
- Staff training
- Sample planes and kits
- Exclusive sales license for particular region



NEEDED MACHINERY

- CNC miller (1 350 x 3 500 mm)
- Press brake (3000 mm)
- Manually controlled bending machine (1000mm)
- Pressed-air compressor, pneumatic rivet gun and air drills
- Standard workshop equipment such as shears, drills, clevos, pliers etc.
- Press 500 tons (possible subcontractor)
- IG welding (possible subcontractor)
- CNC laser cutting of steel parts (possible subcontractor)
- Paint box (possible subcontractor)



PRODUCTION CAPACITIES

Direct Fly disposes with several production capacities – CNC milling, pressing, bending, eckolding, riveting and painting. This allows the company to produce the vast majority of airframe parts in-house, as well as the whole airframe assembly and finishing process like painting, engine, systems and avionics installations, test flights and service.



ABOUT DIRECT FLY

Direct Fly is a Czech aircraft development and production company. Its headquarters, design production facility are located in Brno – Medlanky airfield (LKCM).

The beginnings of the company date back to the year 2000 and are connected to development of a new wooden aircraft. Since 2007, Direct Fly has been fully committed to small-scale poruction of the ALTO aircraft. More than 250 aircraft are currently operated worldwide. Direct Fly is also involved in designing new ultralight aircraft STOL CRUISER.

In the field of aircraft development, Direct Fly cooperates with leading technical universities in the Czech Republic – Czech Technical University in Prague and Brno University of Technology.



MATCH HOLE TECHNOLOGY

Match hole technology allows assembling of an aircraft without the need to pre-drill holes for rivets. All you have to do is attach the parts and rivet. This significantly reduces production time and lower the costs. Efficient both for serial production and home builders.

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ALTO NG

NEW IN
GERMANY

READY TO FLY

RELIABLE

UNTRICKY

POPULAR

AERO EXPO PRICE 99.800 €



GREAT FOR

AEROCUBS

- ✓ Certified for 600 kg MTOW
- ✓ Engines up to 120 HP
- ✓ Towing device
- ✓ Easy to fly and service

GREAT FOR

SCHOOLS

- ✓ Untricky flight characteristics
- ✓ Galaxy GRS rescue system
- ✓ All-metal robust construction
- ✓ 250+ planes manufactured
- ✓ Production since 2007



GREAT FOR

PRIVATE OWN

- ✓ Classic gauges or glass-cockpit
- ✓ Three axis autopilot
- ✓ Cruise up to 220 km/h
- ✓ Range 1000 km
- ✓ Baggage up to 15 kg



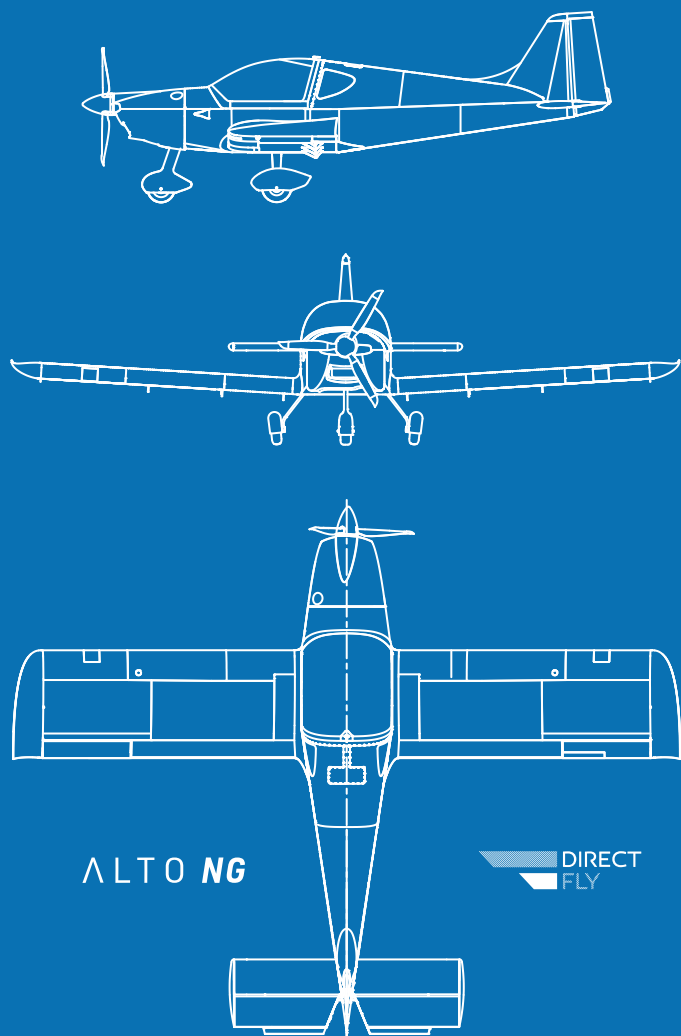
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Technical specification

ALTO NG

Length	6.22 m
Wing span	8.13 m
Wing area	10.6 m ²
Height	2.32 m
Cockpit width	1.10 m

Fuel tank capacity	92 l
Engine	Rotax 912 ULS / Rotax 912 iS / Zonsen C100 / Edge performance EP915ECi

Take-off distance to 15 m	400 m / 330 m
Landing distance from 15 m	340 m

Empty weight	from 315 kg
Maximum take-off weight	600 kg

VNE (never-exceeded speed)	265 km/h
Cruising speed	200 km/h / 219 km/h
Stall speed, landing configuration	67 km/h
Stall speed, clean configuration	89 km/h
Range	1000 km
Load factor	+4/-2

Reliable, untricky and popular aircraft produced since 2007 with over 250 planes flying worldwide. Thanks to its flying characteristics it's ideal plane for your aeroclub, flying school or just for travelling on your own. All-metal construction allows easy airframe repairs and possibility to paint the plane in almost any color.

BASIC EQUIP. INCLUDED IN THE PRICE

- Rotax 912 ULS 2 100 HP
- Ballistic rescue system Galaxy GRS 600 kg
- Propeller E-Props Durandal, on-ground adj.
- Oil and coolant thermostats, aux. electric fuel pump
- Electric pitch and roll trim
- Electric flaps with automatic pitch trimming
- Beringer hydraulic brakes with parking brake
- Cabin heating, air vents
- Basic flight instruments (airspeed, altimeter, vertical speed, compass, slip indicator)
- Basic engine instr. (RPM indicator, oil temp, oil press, coolant temp, fuel press, fuel gauges)
- 2x USB charging sockets
- LED lighting of instrument panel
- Instrument panel custom design
- Custom single-color exterior paint

EDGE PERFORMANCE

The novelty of year 2025 is ALTO NG powered by Edge Performance EP 915 ECi. This naturally aspirated engine based on the common Rotax 912 ULS provides 120 HP and direct fuel injection.

Together with constant-speed propeller, this is an affordable solution for towing gliders up to 600 kg MTOW.

AT THE CUSTOMER'S REQUEST

- ✓ Engine selection
Rotax, Zonsen, Edge performance
- ✓ Constant speed propellers
- ✓ Glass cockpit
- Garmin, Dynon, Kanardia
- ✓ 2-3 axis autopilot
- Garmin, Dynon, Kanardia
- ✓ Metallic paint
- large range of colours
- ✓ Towing device



Are you interested in individual offer for the aircraft?
Would you like to try the ALTO NG in flight?
Come and see where and how is ALTO NG made.

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ALTO NG

KITPLANE

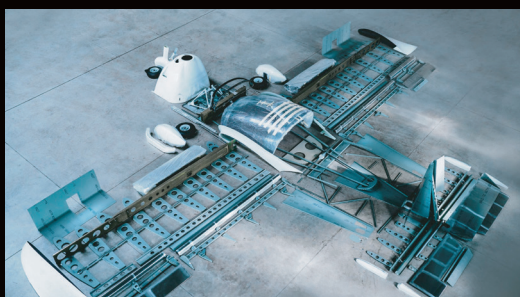
NO
DRILLING!

RELIABLE

UNTRICKY

POPULAR

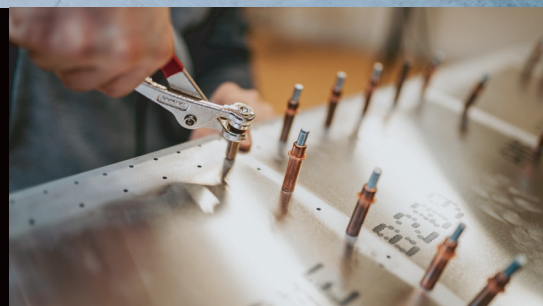
ALL METAL KITPLANE



ALTO NG

BASIC KIT

- ✓ Match hole - no drilling!
- ✓ Attach, fasten with clecos, rivet
- ✓ All parts primed
- ✓ Easy to build



ALTO NG

QUICK KIT

- ✓ Fully finished airframe
- ✓ Interior already painted
- ✓ Exterior painting upon request
- ✓ Your task is to install engine, systems, avionics



ALTO NG

FINISHING KITS

- ✓ Rotax 912 ULS systems
- ✓ Engine bed and cowlings
- ✓ Ballistic rescue system set
- ✓ Airbox, servos, lights and more



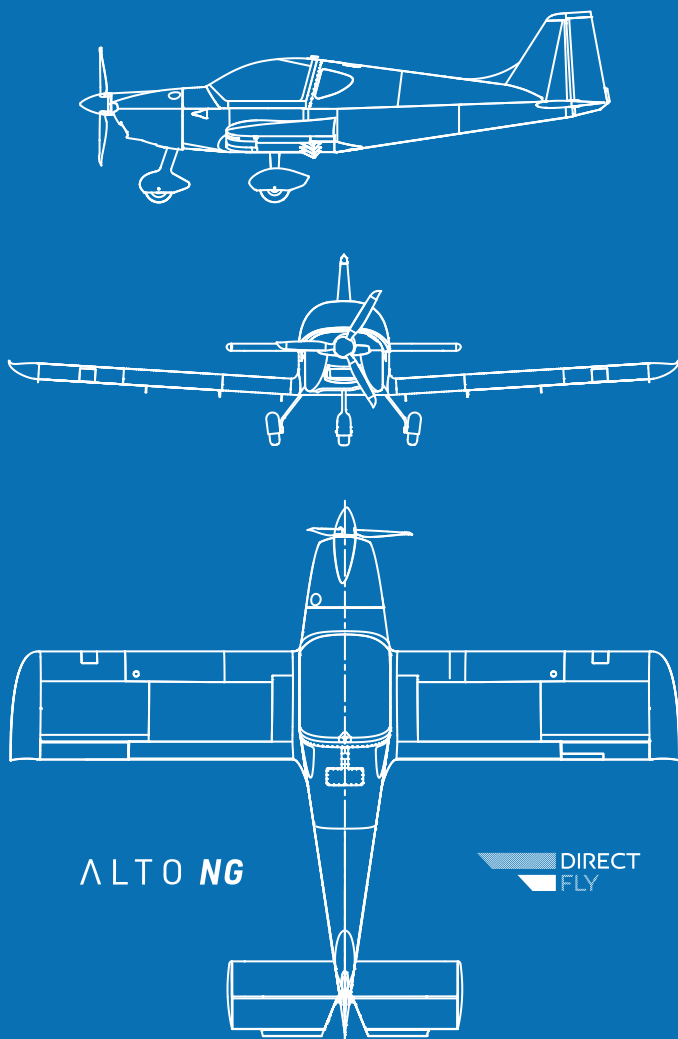
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Stall speed, clean configuration	89 km/h
Range	1000 km
Load factor	+4/-2

ALTO NG BASIC KIT (BK)

The basic kit of ALTO NG is intended for those who are passionate about aviation and love working with their hands. The kit includes all parts needed to build the airframe – including control system, landing gear with Beringer brakes, canopy etc.

The parts are CNC milled using match hole technology which means there's no mutual drilling required as it's usual for all metal kitplanes.

You need a workshop no bigger than a garage, flat table, cleco clamps, suitable pliers and common workshop equipment.

ALTO NG QUICK KIT (QK)

If you want to skip the airframe assembly, you can jump into the finishing process and get the ALTO NG quick kit. You get the airframe already assembled and interior painted.

You need to install the engine and related systems, avionics and interior upholstery. You can paint the exterior and install the ballistic rescue system – or get the kit already painted and BRS installed by us.

BASIC EQUIP. INCLUDED IN THE PRICE

FOR BASIC KIT

- Finished solid rivets assemblies - central section, wing spars
- Finished integral fuel tanks 2x 46l
- Entire airframe parts set
- Dual sticks control set
- Canopy set (welded frame, plexiglass, etc.)
- Composite parts (winglets, fairings, etc.)
- Landing gear and Beringer brake system
- Set of assembly layouts
- Set of precise fasteners for airframe assembly

FOR QUICK KIT

- Fully assembled unpainted airframe (interior painted) including composite parts
- Tinted canopy
- Engine cowlings for Rotax 912ULS (incl. air inlets and cylinder deflector)
- Fuel tanks 2x 46l
- Control system
- Landing gear and Beringer brake system
- Set of precise fasteners for airframe assembly



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