



# neo

björn jung - youngcopter



prototype for the new generation kit helicopter

# Discover neo!

With NEO a new generation of kit helicopters starts. We have designed NEO equally for pilots, passengers and builders. NEO is the result of a forward-looking design philosophy and it embodies the synthesis of modern helicopter technology and exciting styling.



**You think you touch it.  
But it is the other way round!**

Clear surfaces, unmistakable design. The streamlined body expresses energy and harmony. And this exterior design is followed by the interior architecture. Never before flying a helicopter was such a sensual experience. Look forward to the unique fusion of dynamism and elegance.



**The ideal connection not  
always is a straight line.**

Never before you had the impression to experience the airspace so directly. Thanks to the high control response of the three blade rotor system neo provides maximum fun while manoeuvring with agility and smoothness even through steep curves.



**NEO is a real helicopter.**

The development priorities of NEO are:  
high value in everyday use due to versatility and ruggedness  
high performance, safe flight characteristics and easy handling  
affordable kit and low operational costs  
no special skills required for the assembly process.

## The Airframe

The composite structure of the airframe is the central element holding together all other subassemblies. It consists of 10 main parts only and is manufactured in a single process.



## The Cockpit

NEO offers ample cabin volume for pilot and passenger. Enjoy the comfortable seating and the great visibility.



## The Instrument Panel

Easy handling starts with the instruments. Therefore we have restricted their number to the necessary which also keeps the panel sleek and ensures good visibility.



## The Seats

Contoured seats support pilot and passenger for maximum comfort. Tiltable backrests open the access to the baggage compartment. In this way also bulky loads can be carried.



## The Baggage Compartment

NEO also features an extremely spacious baggage compartment, which is unique in the light-helicopter class. It is located in the center of gravity and holds 400 liters (more than 100 gal).

## The 3-Blade Rotor

NEO is a pilot's dream. Its ease of handling, directly attributable to the responsive rotor system and the high power to weight ratio, is outstanding. The multi-blade rotor with its low blade loading improves operational safety even more. Don't worry about low-G conditions and early rotor stall any more. The blades are foldable for hangaring and transport.

## Total Control

With NEO flying is fun. It is a whole new way to fly. With the JCS anti-torque system, pilots have a reduced workload. Tail rotor strikes are a thing of the past. And JCS reduces perceived noise significantly compared to rotorcraft with conventional tailrotors. A tailrotor stall can not occur. For transport the tail can easily be detached without disassembling a drive shaft. neo features a central cyclic stick which allows easy entry and exit.

## NEO powered by NEOSIS

neo is powered by NEOSIS, a liquid-cooled 180 HP rotary engine. neosis features a very compact design and smooth operation. NEOSIS has a fuel injection and runs on unleaded automotive fuel. It is controlled by a single lever.

## The Kit

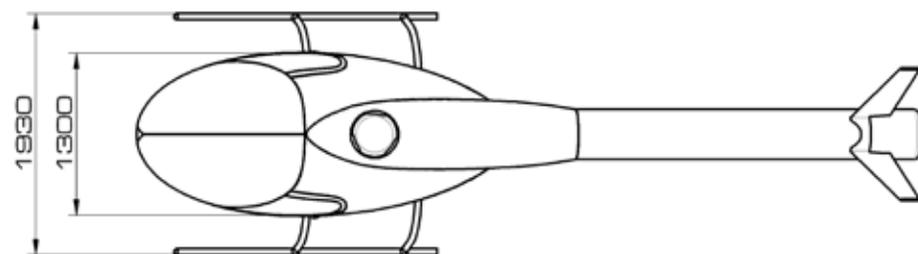
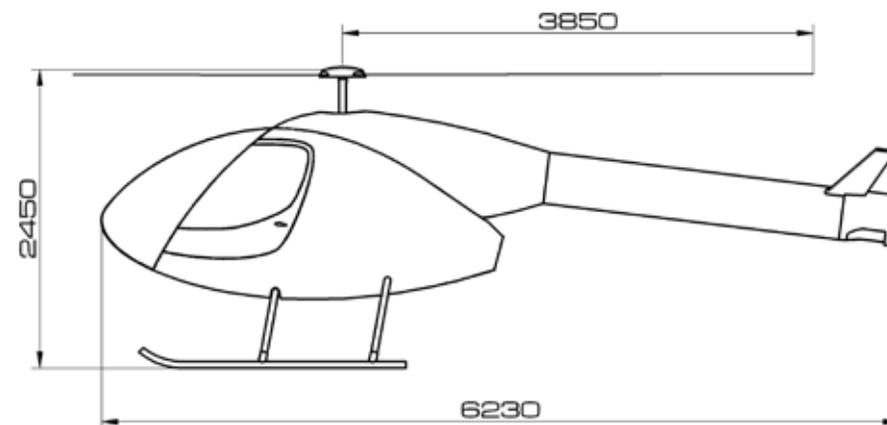
The builder will be delighted because Neo's structure is clear and well arranged. With parts made for a perfect fit neo is designed for quick and easy assembly. Average technical knowledge is needed only. Special skills e.g. in welding or laminating are not required. The kit will include all subassemblies, the engine and basic instrumentation.

## Operational Costs

The operational costs will be comparable to a typical four-seat fixed wing.

## Specification

Gross Weight	640 kg	1410	lb
Useful Load	260 kg	570	lb
Fuel Capacity	120 L	190	lb
Cruise Speed	185 km/h	100	kt
Maximum Speed	220 km/h	120	kt
Range	550 km	300	nm



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