

Airplane introduction

◆EXTRA300S

A German engineer Wolter Extra (he was an aerobatics pilot, too) designed EXTRA300 in 1987. After that EXTRA300S (has more high performance and excellent controllability, and one-seater version) was developed in 1992.

EXTRA300S is a specific aerobatic aircraft that is made of carbon fiber and steel pipe frame and comes with horizontally-opposed and six-cylinder 300hp engine of LYCOMING co. and it can endure a situation of $\pm 10G$ load.

It has a reliable margin of safety and an amenable controllability and a top class acrobatic performance around the world.

They are certified at the aerobatics flight competition all over the world.

Specification

- Length 6.65m
- Wingspan 7.50m
- Empty weight 610kg
- Maximum speed: 440km/h
- Engine Lycoming AEIO 540-L1B5 (300HP)



◆ Sukhoi-26

Su-26 is a single-seater aerobatics plane. The design and development of this aircraft were worked out by Advanced Sukhoi Technology co. (AST).

SUKHOI co. (actual producer of this aircraft) has been known a famous company from the Soviet years as the maker of a fighter jet generally.

This company was a government-owned company, but it advanced development to utilize the ability of the private sector actively.

In 1984 the prototype of Sukhoi-26 was made in public, and the production model was released in 1989, about 200 aircrafts have been produced.

This aircraft has dominated at the aerobatic competition of the world, and it is the most successful aerobatics aircraft as an exclusive.

Today Sukhoi-26 has been used by Russian team and all over the world. And because the design of this aircraft bases on the military specification, it has the enormous endurance and maintainability, in addition it can be maintainable at low cost.

Specification

- Length 6.83m
- Wingspan 7.80m
- Empty weight 736kg
- Maximum speed 450km/h
- Engine M-14P (360HP)



◆EDGE 540

Zivko Aeronautics of Oklahoma, USA had a mission to produce a plane that could perform precise standard aerobatic manoeuvres at speed and leave ample creative room for professionals to develop new figures.

The result is the Edge 540. The small one-seater airplane (a two-seater version is also available) is as precise and controllable as it is aggressive.

The Edge is a ‘Shoulder Wing’ plane with extremely stiff wings. The use of a steel tube frame with composite fairings results in an extremely light, durable and stable fuselage.

The Edge 540 has the highest aerobatic thrust to weight ratio of any competition aircraft.

Specifications

- Length 6.30m
- Wingspan 7.43m
- Empty Weight 540kg
- Maximum speed 426km/h
- Roll Rate 420 deg/sec
- G Rating ± 12 G @ 1550#
- Engine Modified Lycoming IO-540 (340HP)

