



# SKT HELICOPTERS UAV VERSION



<http://skthelicopters.ch>

- **ABOUT US**

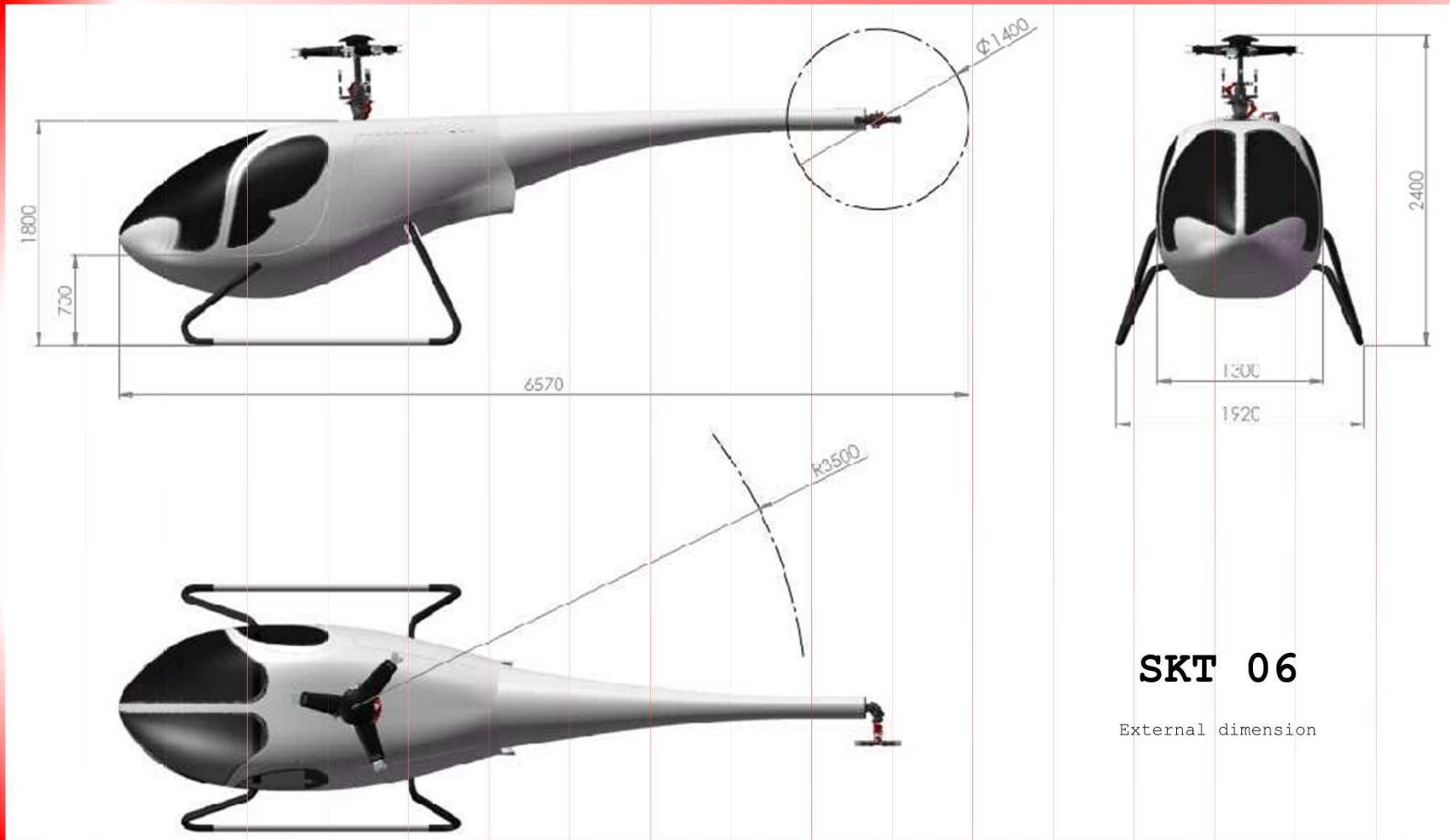
- Although recently established, '**SKT**' Helicopters is a company that has behind it, a history that dates back many years. The people who founded SKT have worked for years in the field of helicopter engineering, design and manufacturing and have now come together to use their acquired expertise to form a company providing a 'dowry' of experience in the Helicopter industry.
- The Company organization is headquartered in Stabio - Switzerland, while the test flights of each helicopter take place a short distance away at AMBRÌ Airport near the Italian border and Lake Como Italy. Experienced test pilots with thousands of hours of flying, perform accurate tests on the helicopters, prior to delivery.
- The primary place of production is Stabio - Switzerland where highly specialized technicians assemble the helicopters with parts manufactured by companies and their divisions, which are all a part of the **SKT Helicopter** group. Everything except the engines are made by SKT then tested and installed in a controlled system of assembly.
- The M/W engine incorporates the latest in modern aviation technology and is produced based on the electronic management functions and specific performance needs of the SKT helicopter. The engine is developed by the manufacturer using the advice and experience of many SKT technicians.
- **Today, SKT is a benchmark in the world**
- **of light helicopter design and production. SKT presents itself on the market**
- **as a new alternative for those who want a helicopter technologically advanced,**
- **safe, economical, and easy to use.**

## HOW SKYRIDER WAS BORN...

- **December 2011.**
- A group of experts in the field of helicopter aviation, decided to produce a two-seat helicopter that would satisfy the desires each of them had. They wanted to introduce to the industry, a new light helicopter different from some of the famed but now out-dated helicopters that to date, represent the supply side of the market. Everyone within the group brought with them, a large quantity of experience and a great desire to produce a new, beautiful, highly technological helicopter.
- **Then:**
- The pilots brought their own precise ideas about how the new helicopter should perform : simple and fluid in flying, solid and durable, with advanced air penetration, but not only a 'race car'. They wanted a helicopter perfect for recreation, but with possible applications in reconnaissance, fire control, instruction, rescue, and aerial photography as well.
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- The technicians brought forth new ideas to eliminate some problems plaguing the previous helicopter generation which continue to be a sore point in aviation. For example: the rotor drive belts. There were also innovative ideas on how to improve the collective and cyclic movements and their respective controls. At the same time, the engineers desired a fast, powerful aircraft, but with low power/fuel consumption while using high octane automotive gas, reducing the need for avgas.

- The designers created a new shape that could be only be made through very specific techniques using composites, carbon fibre and wind tunnels.
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- For better flying conditions, the rotor system incorporates a three blade system with specific characteristics. The person responsible for this delicate area, was a technician/engineer and at the same time, a true artist who has shaped and made the blades. He has achieved the best results by giving a "hook in the sky" blade that makes this helicopter unique.
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- All of these factors have created a magical alchemy coming together in 12 months, using the latest 3D technologies and the best machinery. The result is this beautiful helicopter that has now been flying since early 2013 and is called the **SKT SKYRIDER**.
- After achieving the desired technical results, there was still one thing to do after all of their efforts and investments of time and money: They needed a strong company to both develop a sound business plan and begin a continuous production line of their newly created helicopter.
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- At the end of June 2013, a Swiss group took over the whole project and formed:
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- ***SKT HELICOPTERS***
- **( Swiss Kopter Technology SA )**
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- **Regular Production started in January 2014**

# SKYRIDER EXTERNAL DIMENSIONS AND TECHNICAL IMAGES



# SKT HELICOPTERS FACTORY-STABIO SWITZERLAND



## SKYRIDER UAV

The SKT Skyrider is also available in the UAV version with a lot of accessories as military antennas, rockets, stretchers, hook and any type of radar.

Thanks to its great low level of noise the Skyrider is the perfect UAV for day and night incursions, material supply and medical assistance to the troops.

High endurance and speed allow fast movement and long range missions, the high performance ensure the best results in hostile environment (hot, high and humidity).

# SKYRIDER UAV

*SKT*



## Dimension

Pay Load: Kg 300  
Takeoff or take off max weight: Kg 650 (AECI Reg.495)  
Length: cm 657  
Height: cm 228  
Cabin width: cm 130  
Cabin height: cm 110  
Main Rotor: 3 Composite Blades  
Blade length: cm 350  
Tail Rotor: 2 Composite blade  
diameter cm 140

## Performance

MW Piston engine: 155 Hp  
RoC Rate of Climb: 7.5m/s  
HIGE Height: in Ground Effect 2260Mt/7000ft  
HOGE Height: off Ground Effect 1550Mt/5100ft  
Service ceiling: 3000Mt /10000ft  
Frame: Aeronautical Steel / Titanium HPI  
Cabin and Tail: carbon made  
Fuel: MO GAS gasoline 95 Oct  
Fuel consumption: 18/22 L.per Hour  
Fuel Tank: 65 Lt until 105 Lt  
Endurance: 3 Hours (+ 10min.reserve)

Limit Temp.- OAT LIMIT: 42 Degrees  
VNE: 200 Km/h ISA Conditions  
Cruise Speed: 160 Km/h  
Economy Speed: 85 Km/h

**SKYRIDER UAV**



# SKT YOUTUBE CHANNEL

[https://www.youtube.com/channel/UCguR9MWcyYFSfcNX2K2sP\\_Q/videos](https://www.youtube.com/channel/UCguR9MWcyYFSfcNX2K2sP_Q/videos)

## SKT YOUTUBE LINKS

<https://www.youtube.com/watch?v=tJLUMGNe--4>

[https://www.youtube.com/watch?v=TqFn31pWlxA&list=UUguR9MWcyYFSfcNX2K2sP\\_Q](https://www.youtube.com/watch?v=TqFn31pWlxA&list=UUguR9MWcyYFSfcNX2K2sP_Q)

[https://www.youtube.com/watch?v=zl-CezCnytw&list=UUguR9MWcyYFSfcNX2K2sP\\_Q](https://www.youtube.com/watch?v=zl-CezCnytw&list=UUguR9MWcyYFSfcNX2K2sP_Q)

[https://www.youtube.com/watch?v=9HnPQkiCO3I&list=UUguR9MWcyYFSfcNX2K2sP\\_Q](https://www.youtube.com/watch?v=9HnPQkiCO3I&list=UUguR9MWcyYFSfcNX2K2sP_Q)

[https://www.youtube.com/watch?v=4qTK\\_ufF5C0&list=UUguR9MWcyYFSfcNX2K2sP\\_Q](https://www.youtube.com/watch?v=4qTK_ufF5C0&list=UUguR9MWcyYFSfcNX2K2sP_Q)

[https://www.youtube.com/watch?v=CzXk2NRPXGM&list=UUguR9MWcyYFSfcNX2K2sP\\_Q](https://www.youtube.com/watch?v=CzXk2NRPXGM&list=UUguR9MWcyYFSfcNX2K2sP_Q)

[https://www.youtube.com/watch?v=GSvYrESxVNo&list=UUguR9MWcyYFSfcNX2K2sP\\_Q](https://www.youtube.com/watch?v=GSvYrESxVNo&list=UUguR9MWcyYFSfcNX2K2sP_Q)

[https://www.youtube.com/watch?v=--TGaliE8t0&list=UUguR9MWcyYFSfcNX2K2sP\\_Q](https://www.youtube.com/watch?v=--TGaliE8t0&list=UUguR9MWcyYFSfcNX2K2sP_Q)



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