

Worth remembering

Our blades seesaw !!!

As one blade moves up—the other will move down, a necessary motion for stable autorotation.

And this principle does NOT stop just because you now have all three wheels on the ground...

As long as your blades turn (whether you taxi or not) you must be aware of the wind.

CHIPPER says

Remember this subject before you fly again as it can make a huge difference to the safety of your future flights.



Need more info? Ring Gyro School

The information on this leaflet is for guidance only. It is not intended to issue specific instruction (or flying instructions) to pilots or Instructors, with whom the responsibility for safe action lies.

Read it on the run...
Then continue to have fun !

 Gyro
School
feel the thrill!

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CHIPPER says

SAFETY ADVICE

For Gyroplanes
Leaflet 2



Subject Matter: Blade sailing

Blade sailing when taxiing with rotating blades into wind!!!

Consider the blades are turning and the wind is strong.

Consider the gyro is taxiing slowly into wind at this point.

The principle of lift still applies.....

The ADVANCING blade facing the wind will rise and the retreating blade (shying away from the wind) will descend.

In order to avoid the onset of blade sail (with anti-clockwise rotating blades) the stick should be forward and moved slightly to the right. By moving the stick to the right it will stop the advancing blade from rising too dramatically and the retreating blade from descending too steeply.

CHIPPER says

Always consider the wind direction and strength in relation to your blades! Keep the disc horizontal !!!

Blade sailing when taxiing with rotating blades with a tail wind !!!

Again consider the blades are turning and the wind is strong.

Consider the gyro is taxiing slowly down-wind at this point.

The principle of lift still applies.....

The ADVANCING blade facing the wind will rise and the retreating blade (shying away from the wind) will descend.

Only this time—the ADVANCING blade is the one turning into the wind—on this occasion the left blade ...

In order to avoid the onset of blade sail (with anti-clockwise rotating blades) the stick should be forward and moved slightly to the left. By moving the stick to the left it will stop the advancing blade from rising too dramatically and the retreating blade from descending too steeply.

CHIPPER says

Always consider the wind direction and strength in relation to your blades !!! Keep the disc horizontal !!!

Why do we get blade sailing !!!

Blade sailing is a phenomenon affecting gyro rotors when rotating at low speeds in high wind conditions.

It can occur with a slow turning rotor and the aircraft gathering speed too quickly....or....it can also occur with a slowing rotor being inconsiderate of the wind direction and strength.

CHIPPER says

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