

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 downwind 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

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



CHIPPER

Rochester Airport
Maidstone Road
Chatham
Kent
ME5 9SD
UK

Phone: 0750 860 1964
Email: contact@gyroschool.co.uk
Website: www.gyroschool.co.uk