

# WHEELS vs. TRACKS



## ABOUT SPIDER

### REMOTE-CONTROLLED SLOPE MOWERS

The first Spider remote-controlled slope mower was designed in 2002 and officially launched on the global market in 2004, since then we have produced and sold more than 4.000 remote controlled mowers.

After 15 years in the market and thousands of hours of operation in over 50 countries worldwide, Spider mowers are a synonym for reliability and dependability which is very important to the professional user.



PICTURE 1: REMOTE-CONTROLLED SLOPE MOWER SPIDER ILD02

# APPLICATION

Spider mowers were designed and are dedicated to the maintenance of extreme slopes, inaccessible areas, dangerous terrains, fine turf and extensive mowing on large areas.

Often many of these sites are either too difficult or too hazardous to access with conventional mowing equipment. Regardless of the challenge, the control of vegetation is still required, and a remote-controlled mower is often the best and safest solution.

The majority of the track driven mowers were designed for a forestry applications and further adjusted for turf maintenance.

The heaviest professional Spider model weighs only 387 kilograms. The minimum weight of the closest competitor is over 500 kilograms. The weight of the equipment has a significant impact on the ground when maintaining it, on fuel consumption as well as overall environmental impact.

## SPIDER IS SUITABLE FOR DANGEROUS AND DIFFICULT TERRAINS, INCLUDING:

- Roads and highways
- Wildfire mitigation
- Sport resorts
- Parklands and estates
- Landfill Sites
- Golf courses
- Railway embankments
- Power lines maintenance
- Riparian zones (reservoir and canal embankments)
- Military bases
- Restricted environment area - Invasive species clearance



PICTURE 2: EXAMPLES OF APPLICATION

# CLIMBING ABILITY

Spider is capable of operating on slopes with up to 55 degrees of inclination. Its climbing ability has been officially tested and certified by the government testing laboratory for machinery.



CERTIFICATION



# STABILIZING HYDRAULIC WINCH

Another important advantage of Spider mowers is their ability to operate on steep slopes with the help of a stabilizing hydraulic winch.

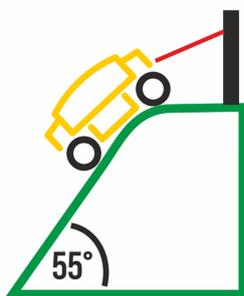
The stabilizing winch significantly increases the work safety on hazardous steep slopes. The mower can easily be anchored to guardrails, trees, posts, fence lines mobile anchoring points, etc.

The stabilizing winch works as a fifth wheel added to the mower, helping it cope with the steepest slopes and uneven terrains on slopes, enhancing the high quality of cut & mulch.

Together with the patented drive system, Spider mowers are stable even on the steepest slopes and avoid soil erosion. Thanks to its light structure and 4-wheel drive, 4-wheel steering system, Spiders will not damage the ground when turning around or skid-steering as any of the other track-driven mowers.

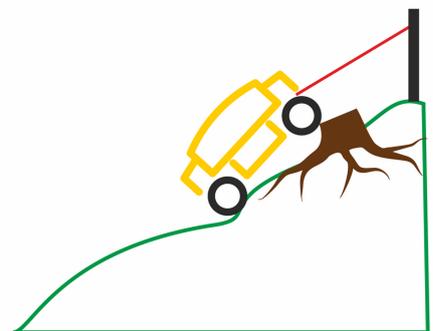
The stabilizing winch will also help new operators gain confidence in operating Spider mowers on steep slopes, until they have enough experience handling different terrains without the winch. From our experience, new operators tend to flip track driven mowers over within the first month of operation.

As remote controlled mowers are mostly used for extensive maintenance, when cutting overgrown grass on steep slopes without a winch, it is not uncommon to have hidden obstacles such as tree stumps, rocks, holes, etc. which can rapidly shift the center of gravity of the machine, thus increasing the potential for a rollover.

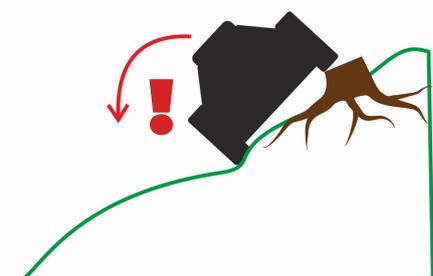


*Keep in mind that operating the remote-controlled mower on steep slopes for a whole working day requires a certain level of attention and caution.*

*The operator must stay alert to any potential hazards and obstacles in the way of the mower.*



*The stabilizing winch rapidly decreases any potential risks and helps the operator to stay safe and productive for daily operations.*



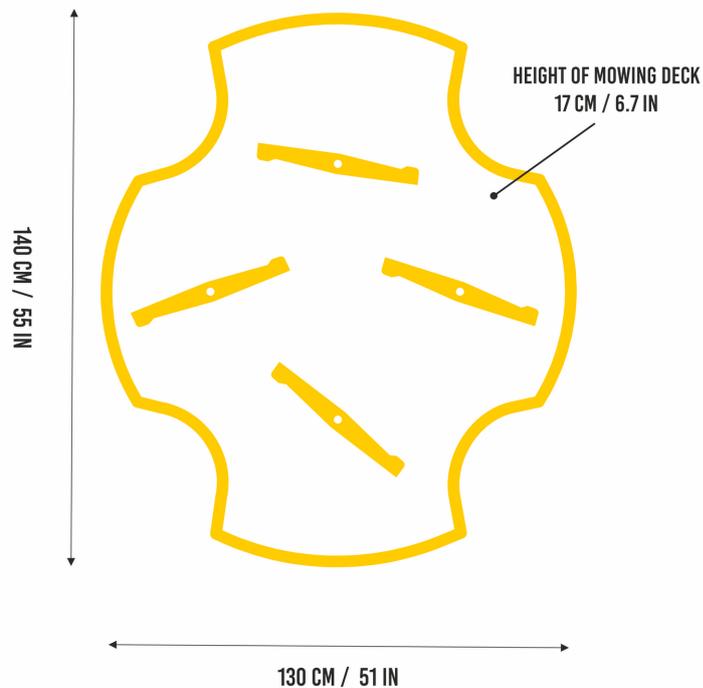
PICTURE 3: MOWING AT THE TOP OF THE SLOPE

PICTURE 4: MOWING UNEVEN TERRAIN

# MOWING DECK

The Spider mowing deck contains four rotating blades and provides 123 cm / 48,5-inch-wide cut per pass.

The inner volume of the SPIDER ILDO2 deck is 211 litres which enables the mower to accumulate more material and at the same time deliver high quality cut & mulch with no need to reduce the traveling speed when cutting overgrown and unmaintained grass.



PICTURE 5: SPIDER MOWING DECK

# CUTTING BLADES

SPIDER blades are made of special alloys that provide both enough strength and flexibility in case of accidental impact on a fixed obstacle.



## STANDARD STRAIGHT SPIDER BLADE

*Universal blade for all types of terrain*

- ideal for unmaintained areas
- precise cutting and mulching



## FINISHING SPIDER BLADE\*

*Ideal for frequent mowing*

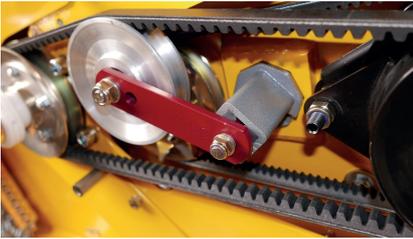
- perfect cutting finish
- lower fuel consumption and noise

\*Numerous customer records claim that the finishing blade is a better solution to the unmaintained areas. We recommend to test both options and based on the experience decide which blade is a better option to a particular type of terrain. Always test the blades in a specific terrain as the quality of cut varies with regard to the type and density of grass, hardness of the subsoil, etc.



*Because of low weight of Spider mower there is more engine's power left for the cutting blades.*

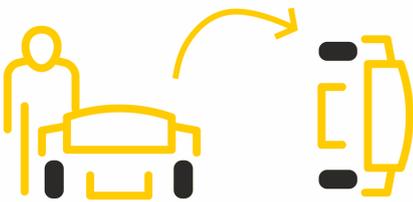
## CLUTCH BELTS' TENSIONING SYSTEM



Cutting blades and V-belts are powered by an Ogura electromagnetic clutch and together with an added belt-tensioning system of the main clutch belt, enable Spider to handle extensive mowing of unmaintained areas containing wild grown bushes typical for highway & railway applications.

- ✔ The belt-tensioning system also prolongs the belt's lifetime, reduces vibrations resulting in less frequent tensioning and maintenance.

## UNIQUE SERVICE POSITION

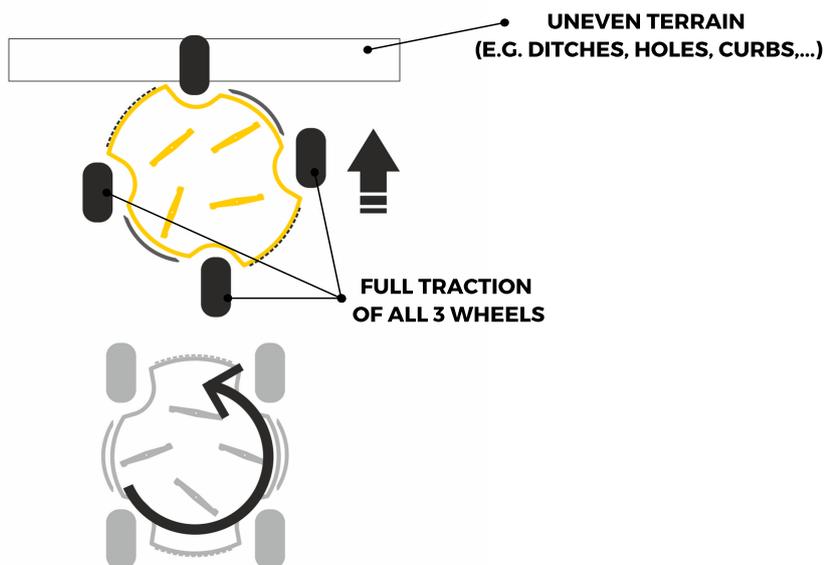


Thanks to its light structure, Spider can easily be tilted on its side onto the service position for easier maintenance and access to the mowing system.

This significantly reduces the time spent with basic maintenance procedures such as the sharpening of cutting blades.

## SKID-STEERING FUNCTION

Spider mower is equipped with a skid-steering function which allows the operator to easily adjust the mower's position onto a so-called diagonal mowing position. This will increase mower's traction on uneven terrains. Thanks to its light structure, causes no additional damage when turning.



PICTURE 6: DIAGONAL POSITION AND HANDLING WITH UNEVEN TERRAIN

# ALL-DIRECTION MOWING

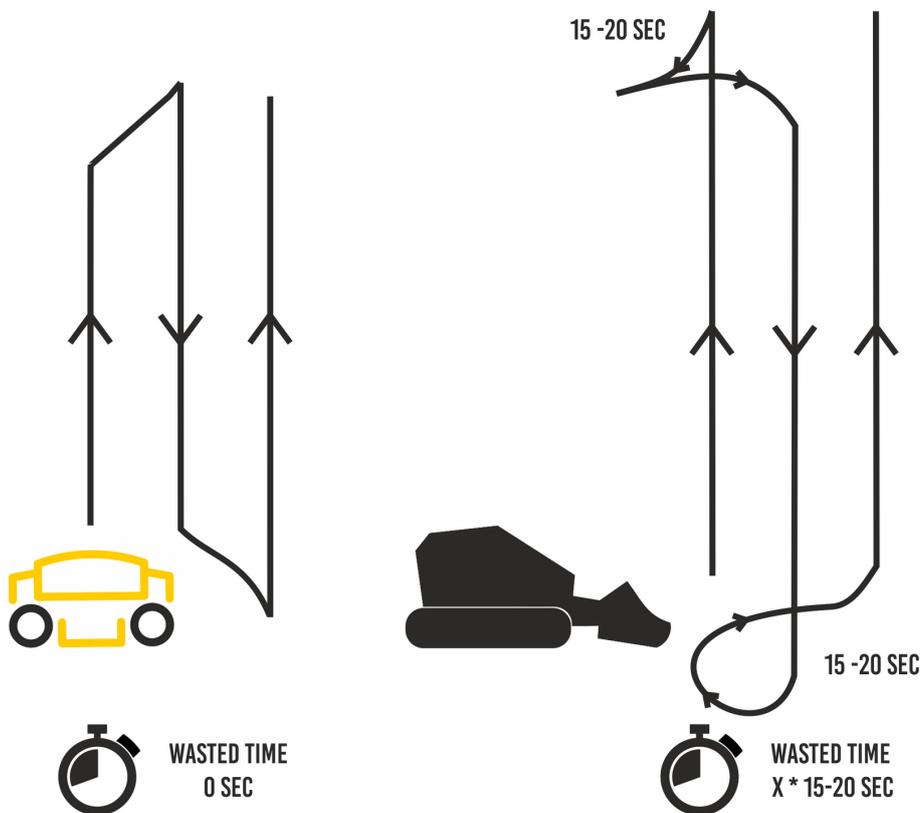
Spider's patented drive & steering system allows for unlimited 360 degrees steering while preserving the four-wheel drive at all times.



PICTURE 7: COMPARISON OF STEERING SYSTEMS

The Spider mower does not need to be turned around at the end of a mowing row but can be easily guided into the following mowing line. This way the operator achieves maximum productivity of up to 7.000 m<sup>2</sup> per hour.

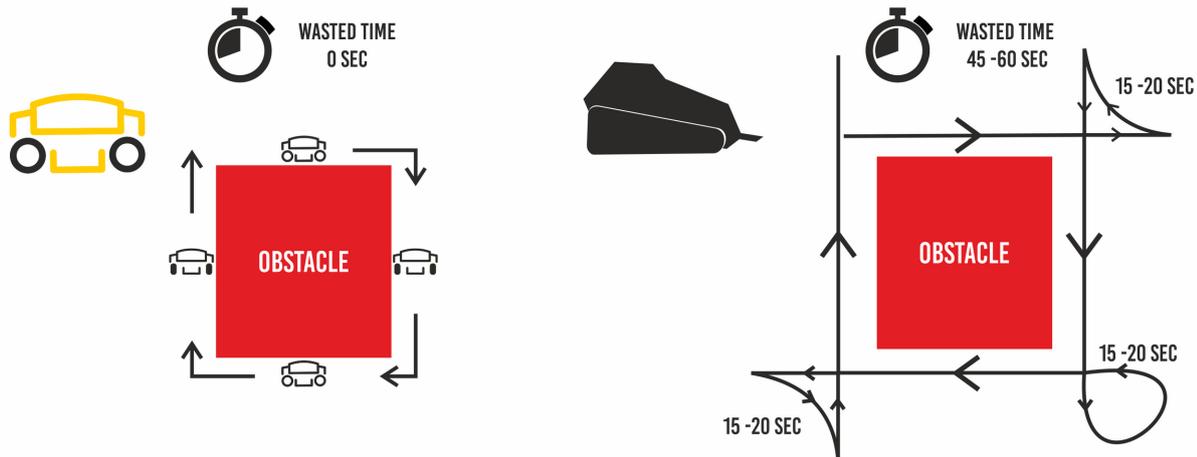
Mowers that require turning to get onto the next mowing row, typically spend 15 - 20 seconds just to turn around, leading to a significant loss of productivity.



PICTURE 8: COMPARISON OF MOWING METHODS

# MOWING AROUND OBSTACLES

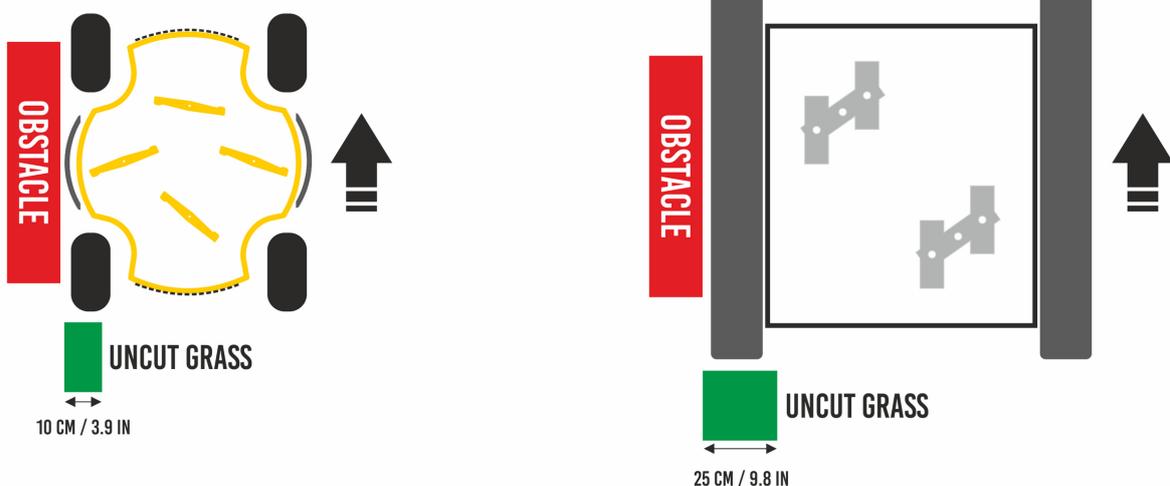
Spider's unique steering system also allows it to obtain great gains in productivity when mowing around different obstacles whereas mowers on tracks must turn around at the corners resulting in a loss of 15 - 20 seconds per turn, Spider mowers are the only mowers on the market offering the ultimate all-direction mowing making the mower extremely productive in challenging areas with many obstacles in the way.



PICTURE 9: MOWING AROUND OBSTACLES

Unlike other remote-controlled mowers on the market, the Spider mowing deck is positioned between the wheels, not in front or between a track drive system.

Thanks to this position, an uncut stripe of leftover grass is minimized to 10 cm (in comparison with track-driven mowers that leaves up to 25 cm wide stripes of uncut grass).



PICTURE 10: MOWING AROUND OBSTACLES

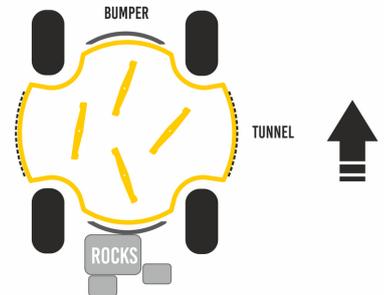
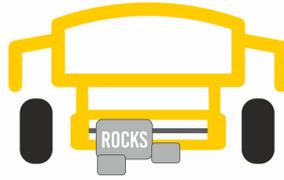
# MOWING METHODS

Spider ILD02 / 2SGS offers 2 cutting approaches:

## BUMPER SIDE AHEAD

Mowing with the bumper side of the mowing deck ahead avoids striking rocks directly with the cutting blades.

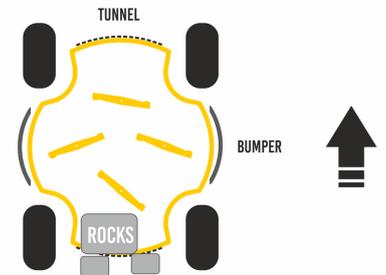
- suitable for unmaintained areas with hidden obstacles



## TUNNEL SIDE AHEAD

Mowing with the tunnel side ahead improves the quality of cut and productivity.

- suitable for well-maintained areas



PICTURE 11: BUMPER VS. TUNNEL

## TRANSPORT

- ✓ Spider's compact size is optimal for most utility vans / pick-up trucks or trailers
- ✓ No special driving licenses needed
- ✓ No additional expenses

To transport a Spider mower you can use a special car trailer with integrated pull-out ramps and a safety system securing the mower from motion. It can quickly and easily be transported by most utility vans or pick-up trucks as well.



## MORE INFORMATION

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