



 **spider**

REMOTE CONTROLLED SLOPE MOWERS



WE ARE CREATING A HISTORY

We are a leading force in the market, which even did not exist some time ago.

Now, the mowing with a remote control is a common standard among all the professionals. However, it has not always been so. In 2002, there was only limited technology and plenty of neglected hillsides, but also dissatisfaction, an idea and courage of one man who decided to change all of this.

Thus, the Spider was born – the first remotely controlled professional mower designed to maintain hillsides in the world.

Staking the technical innovation, attractive design and quality components has proved to be successful. At that time, it was necessary to change the thinking

of people clinging to conventional (and often unproductive and dangerous) technologies.

Despite the initial surprise and wariness, the Spider mower has soon won the customers' hearts, and today, it is used to mow areas that are difficult to reach, indented, and dangerous almost all over the world.

Great products, emphasis on customer care, tireless improvement efforts – these are the reasons why the Spider mowers are best-selling remote-controlled mowers on the market – on that one we have created ourselves.



Lubomír Dvořák
company owner



1348

Charles IV



1914

World War I



1918

Creation of Czechoslovakia



1920

R.U.R.



1925

Merger of ŠKODA and Laurin & Klement



1929

Establishing of the JAWA brand (Ing. František Janeček)



1938

World War II



1946

Zbrojovka Brno – ZETOR

... AND WE CREATE IN A COUNTRY HAVING A HISTORY...

The place where our mowers are born has a rich history.

Do you know Charles IV, Voskovec and Werich or Karel Čapek and its ROBOT from his famous book R.U.R.? You know that, today, we can use contact lenses thanks to Otto Wichterle. Many people wear shoes from famous shoemaker Tomáš Baťa who influenced after-war architecture in the form of functionalist skyscraper in Zlín in addition to the footwear industry.

Surely, you have heard about Ferdinand Porsche, Emil Kolben, or perhaps the name: Emil ŠKODA who founded the Škoda Plzeň and bought the Laurin & Klement later.

If not, certainly the ZETOR is a brand you know as well-known tractors.

All these highly-renowned names are connected by one thing – the Czech Republic – a place at the centre of Europe.

The place where TATRA, so-called TATRA CONCEPT, was produced (in Kopřivnice) in the 19th century or where the JAWA Company started to produce first motorcycles in the first half of the 20th century; later, these motorcycles were followed by world-famous brands such as Honda, Kawasaki, Yamaha, or Suzuki.

In particular due to the communism, the Czech Republic has never got back to the forefront of world economies as before the World War II. However, we are very pleased that big names such as Tomáš Garrigue Masaryk, Václav Havel or, last but not least, Jaromír Jágr represented and represent the Czech Republic.

And in this country, we contribute to making the history thanks to our unique product, which our SPIDER is undoubtedly.



1990

Establishing of the Lubomir Dvorak – construction division

2002

Start up of Spider mower ILD01 development

2003

Spider ILD01 launch into the market

2004

Establishing of the DVOŘÁK – svahové sekačky, beginning of mass production

2006

Spider ILD02 introduction and launch into the market

2008

Spider mowers are distributed to more than 30 countries around the world

2010

Spider MINI introduction and launch into the market

2012

Establishing of Slope Care branch

2014

Opening of "Svatá Anna" (St. Anna) new manufacturing facility



WHAT IS SPIDER MOWER

SPIDER MOWERS

The Spider mowers are universal remote-controlled mowers made in the Czech Republic. They feature with gradability, low-cost operation, and unmatched safety of their operation and a very wide range of applications.

DANCING STEP

What makes the Spider mowers so special? Primarily, it is a patented chassis design, which allows omnidirectional mowing without complicated manoeuvring. This type of movement is called "dancing step"; simply, it can be described as four-wheel drive forward and backward in combination with unlimited continuous turning of all the wheels in full extent of 360°.

With this travel system, the Spider mowers can move easily on a hillside or on waterlogged terrains and freely change

direction while maintaining the four-wheel drive. The dancing step makes the mowers very stable, manoeuvrable and gentle to a terrain, since the Spider is not required to turn like other machines. The mowers with a classic wheel chassis lose the traction when turning, contrary, the crawler mowers cause severe erosion of lawns.

DESIGN

With respect to the intended use on steep hillsides and on weakened terrains, the Spider mowers are built from light

aluminium alloys. Low weight does not represent just a great gradability, but also low fuel consumption and easy handling during transportation and servicing.

AWARDS

Since their birth, the Spider mowers have been granted countless awards for design, construction, innovation or work safety. For the entire team, however, the main award is thousands of satisfied customers and the global trend of remote-controlled mowing, at beginning of which the Spider mowers were.

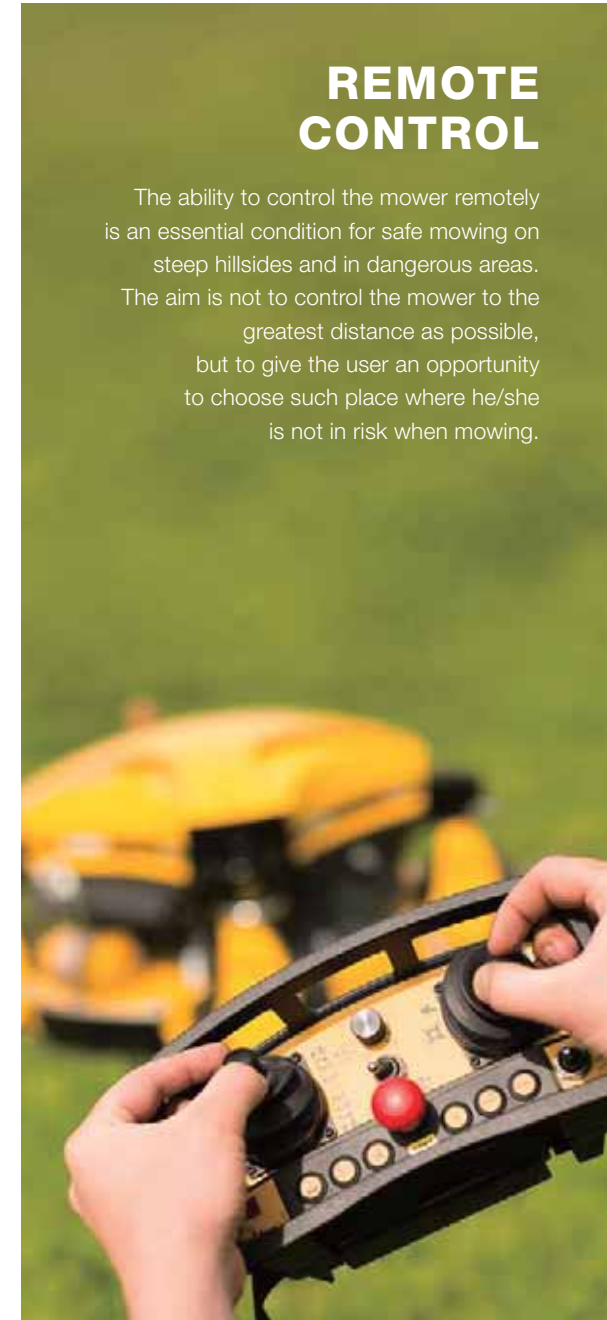


see videos on our website www.slope-mower.com



REMOTE CONTROL

The ability to control the mower remotely is an essential condition for safe mowing on steep hillsides and in dangerous areas. The aim is not to control the mower to the greatest distance as possible, but to give the user an opportunity to choose such place where he/she is not in risk when mowing.



PRODUCTIVITY



Spider mowers deliver high productivity especially in difficult terrain where spider ILD02 can replace as many as 15 workers with brush cutters or 1 boom mower carried by a tractor. The patented drive system allows for every move to be productive and eliminates loss of time caused by turning the mower, positioning it in the next line or by mowing around obstacles.

UNIQUE DRIVE SYSTEM



The patented drive system „Dance step“ together with constant 4-wheel drive ensure fantastic maneuverability of the mower in all terrains, great climbing ability and gentle treatment of grass even in wet or soft terrain.

QUALITY OF CUT

Spider mowers use mulching mower decks. The grass is cut in small pieces which fertilize the lawn. High quality of cut allows for spider mowers to be used in parks and gardens, but the very same type of the mower deck can also be used for extensive mowing of heavy grass.



SAFETY

You would hardly be able to find a safer mower in the market. The remote control allows the operator to stay away from the working area of the mower, away from noise and vibrations. Safety can be further enhanced by using the hydraulic winch, which stabilizes the machine in extreme slopes. Spider mowers work safely in the toughest conditions.



VERSATILITY

Spider mowers are exceptional pieces of equipment as they can be used for the mowing of fine and short park grass as well as for rough mowing of heavy brush – all in the same setup! They can work on flat areas or on steepest slopes. One spider mower can replace multiple specialized mowers.



CZECH PRODUCT

Spider mowers have been developed and patented and are still produced by DVORAK – svahové sekačky, which is headquartered in Havlíčkův Brod. So the customer receives the best possible technical support.



CLIMBING ABILITY 55°

Light-weight structure and a unique drive system allow spider mowers to work on extremely steep slopes with incline up to 40 degrees. The integrated hydraulic winch then increases the climbing ability up incredible 55 degrees of incline while enhancing operator safety. The engine always preserves optimum orientation ensuring sufficient lubrication. Spider mower can climb such slopes that cannot even be walked on.

ENVIRONMENTAL FRIENDLINESS

The wheel drive makes spider mowers very gentle to grass and eliminates erosion on slopes. Low fuel consumption results in low emissions. Additionally spider mowers can be equipped with the biodegradable fluids which are often required when maintaining ecologically sensitive areas such as dams, banks and reservoirs.



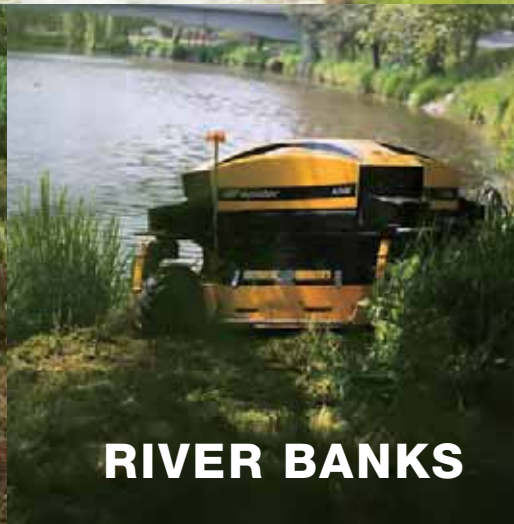
PARKS



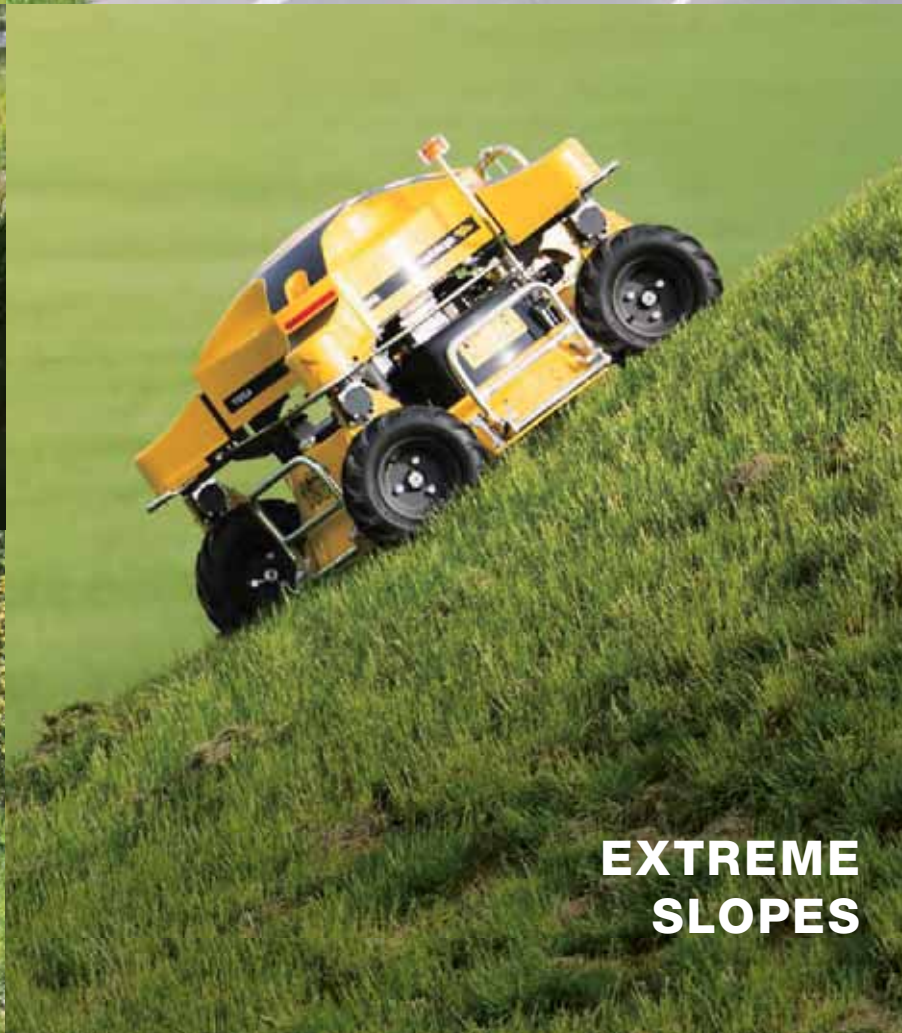
**ROADS
AND HIGHWAYS**



**TALL
GRASS**



RIVER BANKS



**EXTREME
SLOPES**

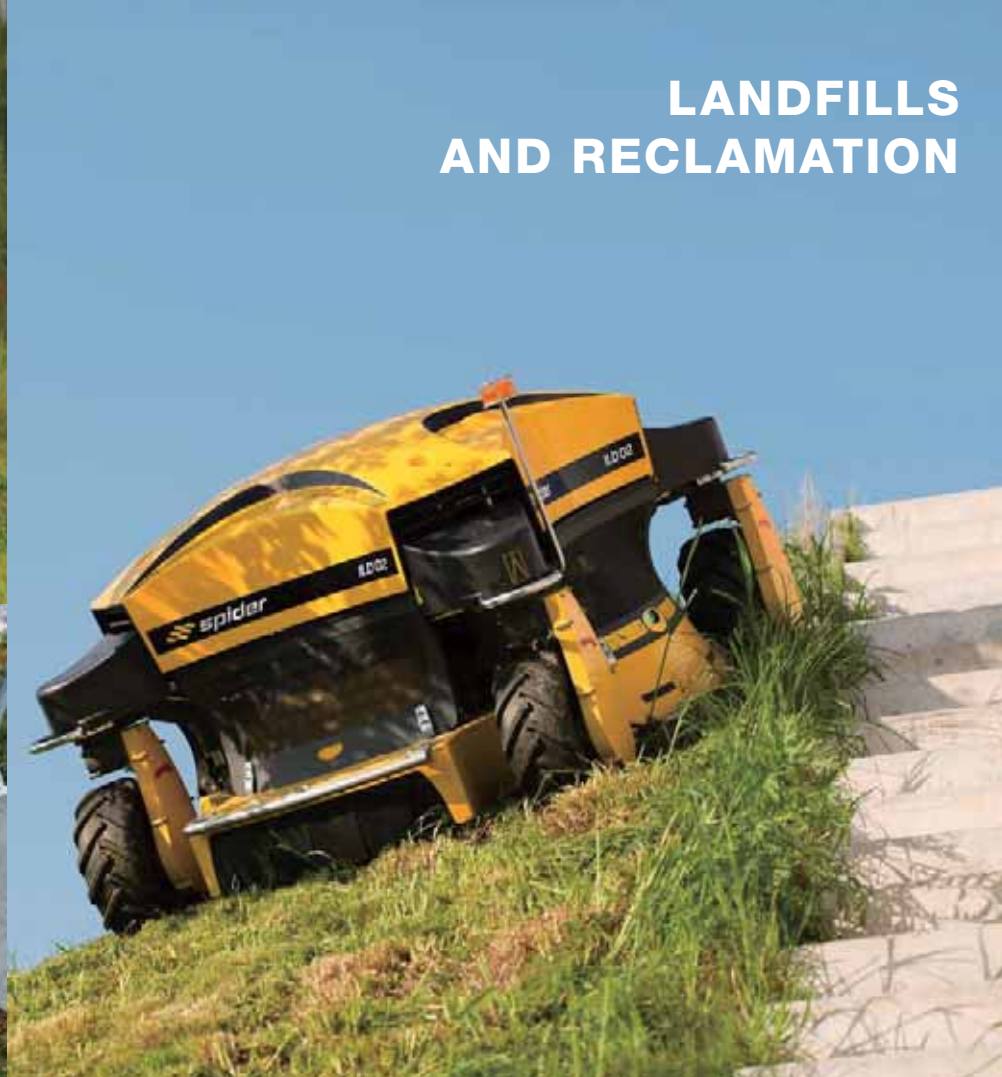


**RAILWAYS
CORRIDORS**





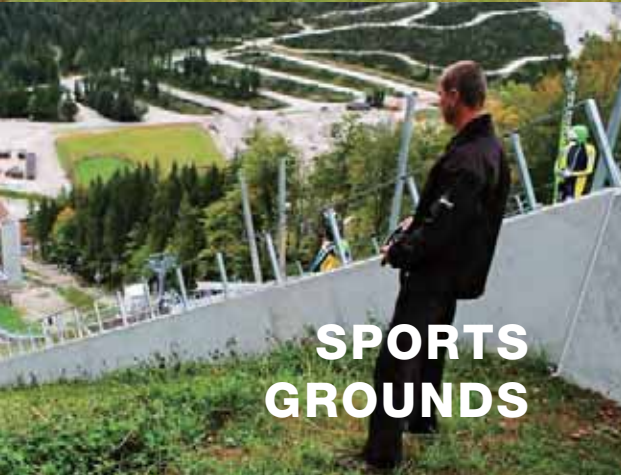
SOLAR POWER STATIONS



LANDFILLS AND RECLAMATION



MILITARY FACILITIES



SPORTS GROUNDS



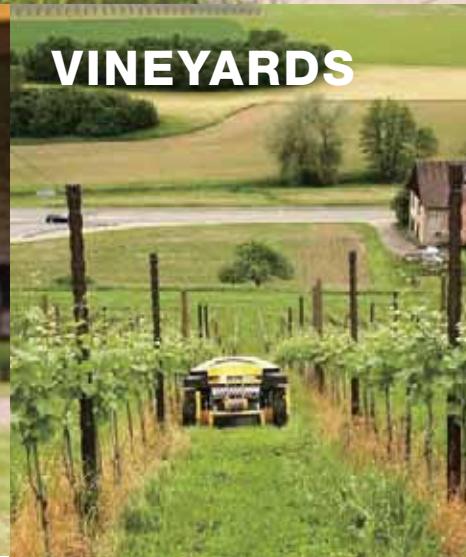
GOLF COURSES



RESERVOIRS



GARDENS



VINEYARDS



MUNICIPAL AREAS



SPIDER MOWERS FUNCTIONAL FEATURES



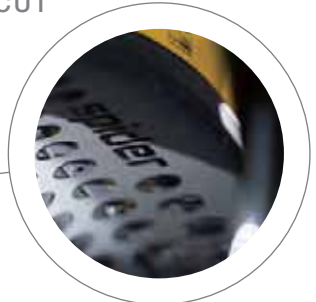
REMOTE CONTROL



ADJUSTABLE HEIGHT OF CUT



DANCE STEP



KAWASAKI ENGINE (ILD01, ILD02),
BRIGGS & STRATTON (MINI)



HYDRAULIC WINCH



ALUMINIUM ALLOY STRUCTURE



SAFETY POINTS



..... RADIO CONTROLLED



*The remote control provides comfort, safety
as well as precise control of a mower.*

COMFORT

- All the functions are at your fingertips
- Physically demanding work and movement on hillsides are eliminated.
- There are no vibrations and noise is reduced greatly.

SAFETY

- The user can choose a safe place to control the mower.
- Steep, dangerous and contaminated areas can be maintained safely.
- In the case of any disruption of communication between the control and the mower (loss of signal, interference), the entire system is switched off and the mower is stopped safely.

CONTROL

Using the controller, following functions can be controlled:

- Starting and stalling the engine
- Setting the speed mode
- Turning on and off the mower blades
- Engine speed control
- Adjusting the cutting height
- Changing the direction and speed
- Wheel rotation (360°)
- Skid steering
- Selection of frequency channel
- Activation of auxiliary winch
- Emergency shutdown of the entire system



MODEL OVERVIEW

Whether you look after a family orchard or provide professional maintenance of large areas, you can choose such size and equipment that meet your needs.

The Spider mowers are available in three sizes. Thus, they meet requirements for commercial use as well as occasional mowing on private lands. What is a common element of all 3 models of the Spider mowers?

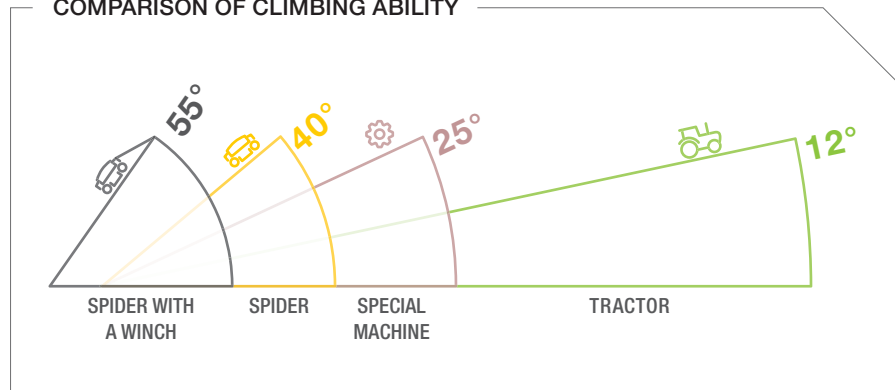
Particularly, it is the remote control, high gradability, omnidirectional mowing without turning the mower itself and great stability when driving in indented terrain. Further, the common feature of all models is very low weight resulting in low

consumption, high mowing efficiency and, of course, high gradability.

The models differ in size, mowing range, engine power, number of blades, accessories and features that can be operated by the remote control.

Whether you use the smallest model Spider MINI privately or one of the professional models ILD01 or ILD02, you will appreciate the simplicity and clarity of the entire device as well as easy daily maintenance and care.

COMPARISON OF CLIMBING ABILITY



SPIDER ILD02

The Spider ILD02 mower is designed for full professional use. It can be used where you need to mow steep, inaccessible or long-term unmaintained areas, but also in areas requiring high quality and frequency of mowing. It is the world's most popular model suitable for extensive and intensive mowing of large areas.

Application: Hillsides surrounding roads, military areas (hangars, ammunition storages), agricultural and orchard areas, grassed landfills, power plants, substations, airports, mountain hotels, ski slopes, parks, golf courses and other sports facilities, water tanks, waterways and water-works – dams and flood control systems, wetlands, and lands in protected areas.

$$1 \times \text{[Icon of Spider ILD02]} = 15 \times \text{[Icon of Spider ILD01]} = 1 \times \text{[Icon of Tractor]}$$



SPIDER ILD01

The Spider ILD01 mower is designed for full professional use. It can be used to mow sloping and indented terrains and areas with restricted access for manoeuvring or where lightweight mowers are required. It is suitable for extensive and intensive mowing of medium-large areas.

Application: Hillsides surrounding roads, military areas (hangars, ammunition storages), agricultural and orchard areas, grassed landfills, power plants, substations, airports, mountain hotels, ski slopes, parks, golf courses and other sports facilities, water tanks, waterways and water-works – dams and flood control systems, wetlands, and lands in protected areas.

$$1 \times \text{[Icon of Spider ILD01]} = 5 \times \text{[Icon of Spider MINI]}$$



SPIDER MINI

The Spider MINI mower is designed for semi-professional and occasional use. It can be used where you need to mow not so large but sloping land or areas with minimum space for manoeuvring. It is the smallest model of the Spider mower family.

Application: Corporate premises, hotels, guest houses, pensions, gardens, cemeteries, orchards.

$$1 \times \text{[Icon of Spider MINI]} = 1 \times \text{[Icon of Tractor]}$$





TECHNICAL SPECIFICATION OF THE MODELS



	MODEL	SPIDER ILD02	SPIDER ILD01	SPIDER MINI
DRIVE UNIT	Engine	Kawasaki FS 691	Kawasaki FS 541V	Briggs & Stratton 950
	Performance	21 HP (Max torque 39,6 ft.lbs)	15 HP (Max torque 28,8 ft.lbs)	6,5 HP (Max torque 9,5ft.lbs)
	Cubic capacity	726 ccm	603 ccm	223 ccm
	Ignition	electronic	electronic	electronic
	Fuel capacity	16 l / 4,2 gallon	12 l / 3,2 gallon	4 l / 1,1gallon
	Fuel	unleaded petrol (BA 95)	unleaded petrol (BA 95)	unleaded petrol (BA 95)
TRAVELING AND STEERING SYSTEM	Transmission	hydrostatic (SAUER DANFOSS)	hydrostatic	hydrostatic
	Oil tank	9 l / 2,4 gallon	6,5 l / 1,7 gallon	2,5 l / 0,65 gallon
	Speed	0–8 km per hour / 0–5 mph	0–7 km km per hour / 0–4,4 mph	0–4 km per hour / 0–2,5 mph
	Steer	360 degrees, 4 wheel	360 degrees, 4 wheel	360 degrees, 4 wheel
	Wheels	16 × 6.5 - 8	16 × 6.5 - 8	13 × 5 - 6
MOWING DEVICE	Mowing width	123 cm / 48,5 inch	80 cm / 31,5 inch	56 cm / 22 inch
	Height of cut	9–14 cm / 7–12 cm 3,5–5,5 inch / 2,8–4,7 inch	6–11 cm / 3–8 cm 2,5–4,5/1–3 inch	4–9cm / 2–4 inch
	Blade clutch	electromagnetic	electromagnetic	manual
PERFORMANCE / CONSUMPTION	Work productivity	up to 7000 m ² /h / 1,73 acre/h	up to 3000 m ² /h / 0,74 acre/h	až 1500 m ² /h / 0,37 acre/h
	Fuel consumption	3,5 l/h / 0,95 gallon per hour	2,5 l/h / 0,65 gallon per hour	1 l/h / 0,25 gallon per hour
	Climbing ability	41° / 55° (with the winch)	40° / 55° (with the winch)	30°
	Dimensions (l × w × h)	1640 × 1430 × 920 mm / 65 × 56 × 36 inch	1356 × 1200 × 913 mm / 53 × 47 × 36 inch	1040 × 910 × 600 mm / 41 × 36 × 24 inch
	Weight	367 kg / 809 pounds	278kg / 613 pounds	134 kg / 295 pounds



SPIDER ILD02

The Spider ILD02 mower is the most popular type of the Spider mowers, which also has won many awards around the world.

1x  = 15x  = 1x 

The radio remote-controlled slope mower Spider ILD02 is the second product of Dvořák - svahové sekačky. For the first time, the mower was introduced in 2005. Since 2006, it has been producing in the mass production. Since then, it has been regularly modernized. In terms of conception and technology, it is a follow-up to the Spider ILD01 model, and, at the same time, it brings many innovations and improvements. The travel system is extended to possibility of skid steering and its productivity equals to the productivity of heavy machinery.

flat areas. The mower is designed to cope with self-seeding trees, wild growth and long-term unmaintained grass, but also with keeping the park areas requiring high quality of cutting.

When mowing, the grass is mulched so the need to transport and dispose of the grass collected in environmental-friendly manner is eliminated. Especially, the mower is excellent when mowing on hillsides surrounding roads, when maintaining military and army areas (hangars, ammunition storages), agricultural and orchard areas, grassed landfills, power plants, electrical substations, airports, mountain hotels, and when maintaining ski slopes and parks. This model is often used to mow golf courses and other sports facilities. Photovoltaic plants are an ideal place to use the Spider ILD02

APPLICATION

The Spider ILD02 mower is designed to maintain an indented and inaccessible terrain with slope of up to 55°. At the same time, it is very suitable to mow



Kawasaki FS 691 V
726 ccm



(l x w x h)
1640 x 1430 x 920mm



Mowing width
123 cm



Speed
0-8 km per hour



Height of cut
9-14cm/7-12cm



Weight
367 kg





SPIDER MODELS



mower. The mower can be used where you need to mow inaccessible or long-term unmaintained areas, but also in areas requiring high quality and frequency of mowing. This is a completely universal mower designed primarily for professional use.

GRADABILITY

The gradability of the remote-controlled Spider ILD02 mower is 41° in a basic design, and up to 55° when using integrated protective winch. It allows you to work safely on hillsides, on which no other mower is able to move and which are impassable even for people.

EASY TO TRANSPORT

To transport the Spider ILD02 mower, a special car trailer containing integrated

and easy-to-extend ramps and security system preventing mower movement during transport can be used. The mower can be placed in most of the utility vans as well.

SKID STEERING

Compared to the ILD01 model, the Spider ILD02 mowers are equipped with an option of skid steering. This method of control allows to turn the mower around its vertical axis and simplifies the mower handling.

PRODUCTIVITY

With its productivity (up to 7,500m² / hour), the Spider ILD02 mower can be a match for performance of 15 brush cutters or a tractor with a cutter arm at incomparably lower operating costs.





SPIDER ILD01

The radio remote-controlled slope mower Spider ILD01 is the basic product of Dvořák – svahové sekačky.

1x  = 5x 

Immediately after its launch, the Spider ILD01 mower enjoyed huge response and success and won many prestigious awards at international exhibitions and fairs. In fact, it was a world's first remote-controlled mower for professional maintenance of hillsides. Great gradability and unique manoeuvrability are primarily a result of revolutionary and patented travel system called "dancing step".

wild growth and long-term unmaintained grass.

The mower is invaluable especially during maintenance of roadside ditches and mowing on hillsides surrounding roads, when maintaining forest tree nurseries and orchards, grass landfills, power plants, photovoltaic power plants, electrical substations, airports, mountain hotels, ski slopes, and parks.

Thanks to its unique travel system, it is very suitable for the maintenance of areas around water reservoirs, river flows, and water-works.

Low weight, which is given by most of mower parts made of light noble alloys, and four-wheel drive provide maximum

APPLICATION

The radio remote-controlled Spider ILD01 mower is designed to maintain an indented and inaccessible terrain with slope of up to 55°. The mower is designed to cope with self-seeding trees,



Kawasaki FS 541V
603 ccm



(l × w × h)
1356 × 1200 × 913mm



Mowing width
80 cm



Speed
0–7 km per hour



Height of cut
6–11cm/3–8cm



Weight
278 kg



SPIDER MODELS



protection of nature. The mower can be used safely to maintain wetlands and lands in the protected areas.

The Spider ILD01 mower can be used wherever you need to mow the inaccessible area and/or the area unmaintained for a long period. Especially, is suitable for professional use, but can be used also by private persons when mowing larger lands.

GRADABILITY

The gradability of the remote-controlled Spider ILD01 mower is 40° in a basic design, and up to 55° when using integrated protective winch. It allows you to work safely on hillsides, on which no

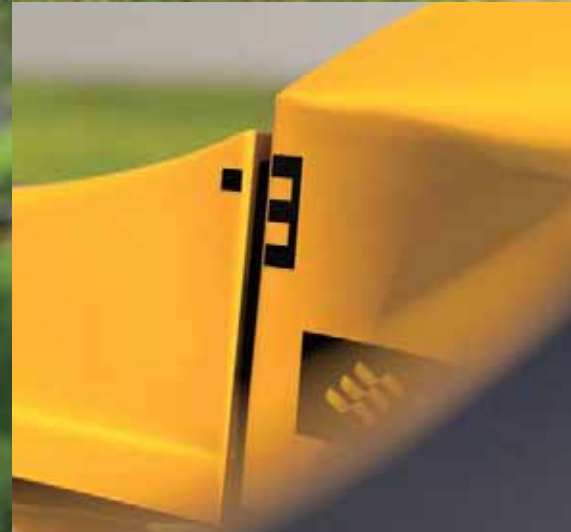
other mower is able to move and which are impassable even for people.

EASY TO TRANSPORT

To transport the Spider ILD01 mower, a special car trailer containing integrated and easy-to-extend ramps and security system preventing mower movement during transport can be used. The mower can be placed safely into normal utility vans.

PRODUCTIVITY

With its areal coverage up to 3,000 square meters per hour, the Spider ILD01 mower can be a match for performance of 5 brush cutters at substantially lower operating costs.





SPIDER MINI

The Spider MINI lower is designed and intended for customers who need to mow steep hillsides and inaccessible terrain only occasionally.



Briggs & Stratton 950
223 ccm



(l × w × h)
910 × 1040 × 600mm



Mowing width
56 cm



Speed
0–4 km per hour



Height of cut
4–9 cm



Weight
134 kg



The radio-controlled Spider MINI mower is the smallest model produced. However, with its gradability and manoeuvrability, the Spider MINI mower approaches the professional models of Spider ILD01 and ILD02. The Spider MINI mower is based on the same concept as other produced products. The remote control provides control of the travel and steering and allows to start the mower and stop it in the case of emergency.

Other functions, such as cutting height control or switching the scythe, are operated manually directly on the mower. Further, the Spider MINI mower is equipped with completely original chain portal gears that provide reliable, maintenance-free operation,

allow to reduce the mower centre of gravity, and, overall, make the mower cheaper and easier.

APPLICATION

The Spider MINI mower is designed to maintain a steep terrain with low- and high-grown grass. The mower can be operated on hillsides of a slope of 30° (58%). By introducing the Spider MINI mower, DVOŘÁK - svahové sekačky responds to a frequent demand for smaller mower that is financially affordable for customers who do not mow professionally.

Certainly, the Spider MINI mower finds its application on smaller, but indented areas, such as lawns around mountain hotels, photovoltaic power plants (PPP), dykes, orchards, farms, etc.



SPIDER MODELS



Traditionally high quality of mowing allows to use the mower even in gardens, parks and other areas mowed intensively, and install a mulching kit. Thanks to the unique travel system, the mower is also suitable to maintain areas requiring delicate care and lightweight machines. The Spider MINI mower is a dream that came true for anyone who has become tired of tedious mowing.

GRADABILITY

The gradability of the remote-controlled ditch mower Spider MINI is 30° (58%) depending on method of use. The high gradability is given by its lightweight frame, low centre of gravity, four-wheel drive and patented travel system that makes driving on a hillside simple and safe.

EASY TO TRANSPORT

Compact size and low weight allow easy transportation of the mower in any van or even in most of the passenger cars in the estate car version. Of course, the Spider MINI mower can be placed on a conventional car trailer. The remote control greatly facilitates physical handling the mower.

PRODUCTIVITY

The productivity of spider MINI mower will be especially useful in steep terrain and on larger areas instead of time-consuming work with the brush cutters. For spider MINI model the recommended area to mow is 2000–5000 square meters.





SPIDER MANUFACTURING FACILITY



spider

SVATÁ ANNA

The brand new production facility of the Company is located in the heart of the Bohemian-Moravian Highlands near pilgrimage site with a healing spring called Svatá Anna (St. Anna) near the Pohled village. Especially, the building is valued for the sensitive combination of modern architecture elements and surrounding nature and the natural communion with nature.

A world map with a light blue background and white outlines of continents. Numerous black location pins are scattered across the map, primarily concentrated in Europe, North America, and parts of Asia and Africa. A small spider icon is located at the top center of the map. A dotted line runs horizontally across the top of the map, with the text 'SPIDER DEALER NETWORK' centered between the dots.

SPIDER DEALER NETWORK

DISTRIBUTION

Company Dvorak has official distributors of spider machines in more than 30 countries around the world.

Go to www.slope-mower.com for a total list of spider distributors.



ALL TERRAIN ALL GRASS ALL PEOPLE

A close-up, low-angle shot of a yellow Spider lawnmower deck. The word "SPIDER" is embossed in large, black, block letters across the center of the deck. The background is a blurred green lawn.

SPIDER

CONTACT

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LOCAL CONTACT

