

# SWARDMAN

passion for lawns



## CATALOGUE





# Foreword

In Swardman, we love perfectly cut English-style lawns. A high-quality cylinder mower is a necessary tool for every lover of the iconic striped lawns; everyone who doesn't just settle for a standard when it comes to the quality of the lawn or the machines that take care of it.

Our vision is to become the best manufacturer of reel mowers in the world. We have started to make this dream come true back in 2013 when our company was founded. At Swardman, when it comes to development of lawn mowers, we place particular emphasis on excellent handling, high quality materials and top-notch workmanship in order to ensure perfect and precise lawn mowing.

We make Swardman mowers in our production facility in the Czech Republic for all customers who prefer quality without compromise and who want to have a beautiful and thick English-style lawn on their gardens. We value personal approach to our customers; therefore, we also provide a complete service of the mowers.

For our customers, we developed two top-class models for home use. The second generation of our petrol-powered cylinder mower, Swardman Edwin 2.1 and a battery-powered cylinder mower Electra. In their category, both models are the quietest machines for upkeep of low-cut lawns that are available on the market right now.

We operate in Central and Western Europe, North America and Australia. You can purchase Swardman mowers and more items on our e-shop, [www.swardman.com](http://www.swardman.com), and through a worldwide network of partners, which contains about 100 partner sites.

We believe that a Swardman cylinder mower will significantly contribute to your lawn being your pride and joy for everyone around you.



**SWARDMAN**



# Advantages of Swardman cylinder mowers



## Cutting instead of chopping

A cylinder mower does not chop the grass; it cuts it. Every grass blade is carefully and cleanly trimmed on a scissor-like principle. There are 5, 6 or 10 blades mounted on a cylinder in a helix layout. The individual cylinder blades spin and meet the lower passive bedknife located just above the ground level. Thus, they cut individual blades of grass. A precise cut without split grass blades contribute to a greener and healthier appearance of the lawn.



## Quiet and eco-friendly operation

Cylinder mowers, by their nature, are far less demanding when it comes to engine power than classic rotary mowers. Therefore, they have smaller motors installed in them; motors that are quieter and have lower consumption, emissions and loudness. Both Swardman models, petrol-powered Edwin and battery-powered Electra, are the quietest mowers in the world in their categories.

## Multifunctional system of exchangeable cartridges 5 in 1

A unique system of exchangeable cartridges allows you to transform your mower into a verticutter, scarifier, groomer or a rotary brush for sand application within two minutes. The better care you take of your lawn, the thicker it will become. For example, a more frequent verticutting will support sprouting of the grass and help it densify faster.



## Striped lawn instead of wheel traces

Cylinder mowers move on rollers, not on wheels like common rotary or robot mowers. Rollers are more gentle to the grass because of a better weight distribution. The front roller prevents the scalping of the grass. The rear roller with a differential constantly evens out small surface bumps, enables turning on one spot and is responsible for the striped lawn effect.





# Edwin

Swardman Edwin 2.1 is the most modern self-propelled walk-behind cylinder mower on the market. It is designated for the upkeep of home, English-style lawns. Thanks to the newest manufacturing procedures and 4-stroke Briggs & Stratton engine, Edwin 2.1 is the quietest petrol-powered mower in the world with a noise level at the operator's ear of 77 dB. The mower has been entirely developed and manufactured in the Czech Republic. The first generation of Edwin was introduced in 2013. Dozens of improvements and innovations have been implemented since then.

Edwin is produced in two working ranges of 45 and 55 cm (18 and 22 in) and can cut lawns between 4 and 45 mm (0,15 and 2 in).

**Edwin with working range of 45 cm** (18 in) is designated for lawns with area under 600 m<sup>2</sup> (6500 ft<sup>2</sup>). It rides perfectly on uneven terrains and is a good fit for modulated lawns with multiple terrain obstacles, such as garden beds, little ponds, shrubs or other landscape features. In such areas, you will appreciate the unparalleled maneuverability in the category of lawn mowers, which is caused by the movement on the rollers.

**Edwin with working range of 55 cm** (22 in) does the same job as its narrower, 45-centimetre wide colleague. However, if you mow a larger and more homogenous grass area up to 2000 m<sup>2</sup> (20 000 ft<sup>2</sup>), where you drive straight most of the time and don't need to avoid many obstacles, Edwin 55 will save you a lot of time thanks to its wider range.



## Clean Cut on the Principle of Scissors

During Edwin's development, our goal was to create the best garden reel mower in the world with a perfectly clean cut on the principle of scissors for low-cut or English lawns. A perfect cut without frayed grass blades means less stress, a greener look and higher resistance to diseases and pests for the lawn.



## Production, Materials and Design

Swardman mowers are developed and manufactured in the Czech Republic. We manufacture the vast majority of components ourselves. However, for some parts, we use services of premium Czech and European suppliers. The solid all-metal construction with a minimum of plastic parts guarantees exceptional quality and high longevity of our mowers as well as minimal impact on the environment.



## Power bound by belts

We have decided to choose the highest quality belts available on the market. Thanks to Continental's more than 140 years of experience, we have managed to find just that. We use CONTI SYNCHROFORCE® CXP neoprene belts on two permanent transmissions, allowing us to transmit the highest power, torque, and RPM. For reel drive and self-propelling system of the mower, we use CONTI®V GARDEN belt which is covered in special textile to ensure optimal pulley operation.



## Reliable and Quiet Briggs & Stratton Engine

The four-stroke Briggs & Stratton XR550 engine with a capacity of 127 cm<sup>3</sup> and an output of 2,4 kW offers the ideal combination of easy maintenance, minimal consumption of less than 1 liter per operating hour, and low emissions. However, the biggest advantage of this engine is that it is exceptionally quiet, making Swardman Edwin 2.1 the quietest petrol mower in the world.



„I really appreciate this sophisticated cylinder mower, which I have been using second season without noticing any flaws. The condition of my lawn, which had been completely destroyed by snow mold, has dramatically improved with the use of the cylinder mower. There is always room for improvement when it comes to lawn care, but Swardman mower sure is a great helper.“

Jakub Kvapil, Czech Republic

EDWIN<sup>2.1</sup> | Self-propelled petrol cylinder mower

	Swardman Edwin 2.1 45	Swardman Edwin 2.1 55
Working range	45 cm (18 in)	55 cm (22 in)
Overall machine width	54 cm (21 in)	64 cm (25 in)
Grass catcher capacity	40 l	50 l
Noise level at the operator's ear	77 dB	79 dB
Machine weight	53 kg	61 kg
Cut height	4 - 45 mm (0,15 - 2 in) with continuous micro-adjustment	
Cylinder	5 blades, 60 cuts per meter (6 or 10 blades on demand)	
Mowing speed	Max. 6 km/h (3,7 mph)	
Rear roller	Split, made of stainless steel, with a differential	
Country of origin	Czech Republic	
Special features	Multifunctionality 5 in 1 – mower with possibility of transformation into verticutter, scarifier, groomer and brush	
Motor	Briggs & Stratton XR 550, 4 stroke, power 2,4 kW, displacement 127cm3, fuel consumption less than 1 l/hour, fuel tank capacity 1,9 l	
Additional accessories	Verticutter, scarifier, groomer, rotary brush, astroturf cleaner, cup holder, mobile phone holder, wheels for tall grass, transport casters, rear roller wiper, front roller wiper, dirt for dirt and dew, tarp cover, LED lighting, carbon bonnet, leather-coated handlebars, wall-mounted cartridge stand, big grass bag, safety locks for grass box	



# Electra

Swardman Electra 2.0 is the most modern battery-powered cylinder mower on the market. It is designed for the upkeep of English-style lawns. It is the first mower with two industrial emission-free motors. One of them propels the cylinder and the other one powers the drive of the mower.

Electra, just like Edwin, has been entirely developed and manufactured in the Czech Republic, with emphasis on easy and intuitive manipulation, low operation costs and very quiet operation that will not disturb you or your neighbours. It is produced in two working ranges of 45 and 55 cm (18 and 22 in) and can cut lawns between 4 and 45 mm (0,15 and 2 in).

Even in its standard configuration, Electra is equipped with a modern lithium-iron-phospate battery with a capacity of 510 Wh. It is designated for lawns up to 1 700 m². It can easily handle frequent mowing as well as lawn regenerative activities such as verticutting, scarifying, grooming or sanding after aeration.

Electra introduces a revolutionary steering system with five control buttons. Another unique feature is a reverse gear. It is invaluable for example when mowing around trees, bushes, pools – and especially when parking the mower in a garage or in a garden shed.

An icing on the cake are advanced functions like cruise control or regenerative mode that allows you to drive at the minimum speed at maximum cylinder revolutions. This is ideal for verticutting and especially for brushing out the thatch.



ELECTRA<sup>2.0</sup>



## State-of-the-Art-Technology

Electra 2.0 is both technologically advanced and environmentally friendly. Thanks to the absence of an internal combustion engine, minimal number of plastic parts, exclusively metal moving parts, and honest craftsmanship, Electra is also exceptionally easy to maintain.



## Easy to Use, No Cables Necessary

Electra was designed for total freedom of movement without cables and with an emphasis on easy and intuitive handling. Even a more subtle person can handle it without any problems. The machine is easy to start and operate via buttons on the handlebars and two electronic levers for mowing and propelling. The speed can be easily adjusted with buttons on the control panel. As the only hand-guided mower in the world, Electra has a reverse gear which makes it easier to maneuver or, for example, to park.



## Maximum Power, Zero Noise

The Swardman Electra 2.0 cordless reel mower is the first garden mower in the world powered by two independent electric engines. Additionally, Electra is the quietest mower on the global market. Its noise level is approximately 5 times lower than that of conventional rotary mowers. Therefore, in addition to you, your neighbors will also enjoy it.



## Regeneration mode

For more advanced lawn-lovers out there, we have developed a special mode – regeneration mode. It allows the mower to ride at minimum speed while at maximum reel RPM. This option is great for verti-cutting as well as combing grass felt. With Electra, you will be able to make the most of all regeneration cartridges.



## Innovation

Swardman Electra 2.0 comes with an array of new improvements. The software is ready for future pairing with a smart app. During the development, the designers put emphasis on perfecting the weight distribution of the mower. A new 30% lighter fabric basket is also available. Last but not least, a sophisticated BMS has been included for even battery charging and longer battery life.

Accumulator type	Accumulator capacity	Charging time	Maximum lawn area	Use
lithium-iron-phosphate (LiFePO <sub>4</sub> )	510 Wh	8 h	1 700 m <sup>2</sup> * (18 300 ft <sup>2</sup> )	Frequent mowing, regenerative activities

\* Maximum mowed area is affected by lawn shape and terrain.





„I have had my mower shipped and it was so easy to put it into operation. Mowing with it is a pleasure. The results of mowing are perfect and the surface is smooth. Pure joy to look at! There are no unevennesses on the surface or visible individual cuts. The exchange of cartridges from the mowing cylinder to the scarifier is very fast and simple and works perfectly. All felts and old grass are swept straight into the grass box. The Swardman Edwin cylinder mower, with its 3 cartridges, is destined for complete lawn care and above all for the perfect mowing results. Thank you for your fair and friendly conduct.“

Erika and Heinz Trausmuth, Austria

ELECTRA<sup>2.0</sup> | Self-propelled battery-powered cylinder mower

	Swardman Electra 2.0 45	Swardman Electra 2.0 55
Working range	45 cm (18 in)	55 cm (22 in)
Overall machine width	59 cm (23 in)	69 cm (27 in)
Grass catcher capacity	40 l	50 l
Noise level at the operator's ear	67 dB	67 dB
Machine weight	53 kg	59 kg
Cut height	4 - 45 mm (0,15 - 2 in) with continuous micro-adjustment	
Cylinder	5 blades, 60 cuts per meter (6 or 10 blades on demand)	
Mowing speed	0,7 -5,3 km/h (0,4 – 3,3 mph), reverse gear	
Rear roller	Split, made of stainless steel, with a differential	
Motor for cylinder propulsion	Industrial 24 V/ 500 W	
Motor for drive	Industrial 24 V/ 200 W	
Charger	230 V; cable length 4 m	
Country of origin	Czech Republic	
Special features	Multifunctionality 5 in 1 – mower with possibility of transformation into verticutter, scarifier, groomer and brush. Special regenerative mode and cruise control.	
Additional accessories	Verticutter, scarifier, groomer, rotary brush, astroturf cleaner, wheels for tall grass, transport casters, grooved front roller, rear roller wiper, front roller wiper, tarp cover, leather-coated handlebars, wall-mounted cartridge stand, big grass bag	

# Mowing cylinders



## 5-blade cylinder

This cylinder is designated for less-frequent mowing once or twice a week, because it can deal with taller grass. We recommend it to everyone who starts with a cylinder mower. The 5-blade cylinder cuts with a frequency of 60 cuts per meter.



## 6-blade cylinder

An optimal choice for more advanced lawn enthusiasts and for mowing in the standard mode twice a week. This frequency will ensure an even cut and continuous improvement of the condition of the lawn. The 6-blade cylinder cuts with a frequency of 72 cuts per meter.



## 10-blade cylinder

A high frequency of 120 cuts per meter will ensure the maximum of cut grass blades. This leads to a perfectly cut lawn without a ridged effect. The best choice for low-cut and very dense lawns or for home golf greens that are mowed three to five times a week. It is ideal to use this cylinder for grass height under 15 mm, but if you wish you can start mowing from 4 mm with this cylinder.



# Regenerative cartridges



## Verticutter

The transformation of Swardman mower into a verticutter is very easy and does not take more than 2 minutes. You can verticut your lawn more often this way. We recommend verticutting 3-5 times per year, depending on the density of the grass. Verticutting is used to cut the lawn vertically. This removes the longer sprouts of grass, and cleans the lawn of withered remains.



## Scarifier

The scarifier cartridge is an ideal helper for cleaning a lawn from excess leaves, needles, but especially from thatch and remains after verticutting. The scarifier is far more effective than working with a manual rake and will save you a lot of time and energy. After using the cartridge, the grass is brushed through and it is easier to trim it better and more precisely.



## Groomer

The groomer is designed for regular and frequent care that is friendly to your lawn. While the reels utilizing bedknives mow the lawn horizontally, the groomer cuts the grass vertically. It shortens horizontally growing grass blades and removes thatch from the lawn. As a result, the grass is stimulated to grow further upwards. Regular usage of the groomer cartridge helps you achieve an evenly growing, dense, and homogeneous lawn. Thanks to its narrow blades fitted close to each other, the use of the groomer is very lawn-friendly and cannot be confused with verticutting.



## Astroturf cleaner

Swardman astroturf cleaner will clean your artificial grass from leaves, needles, little rocks and other small objects. This cartridge will become an essential aid in the care of your artificial grass.



## Rotary brush

The rotary brush is used to apply sand into the lawn after aeration or topdressing. It is also suitable for evening out uneven surfaces. The package contains a cartridge with a rotary brush, a metal cover and a protective shield.







# Garden tools for lawn enthusiasts

Robust manual tools designed for amateur lawn enthusiasts, professionals and greenkeepers or irrigation specialists. The tools are available for individual sale or in a conveniently-priced set. Everything is made of stainless steel.



## Fork aerator

You can use the fork aerator on smaller lawn pieces, especially in areas that are under more stress than other ones – e.g. a path from your terrace or a walkway around the house. The tool is equipped with hollow exchangeable tines.



## Soil probe

A practical helper that will show you the soil structure, the height of thatch in the lawn and the depth of the roots. With the soil probe, you can easily extract a sample from all commonly condensed soils. Thanks to its exact shape, it is also easy to insert the soil sample back into the ground.



## Sprinkler head trimmer

It prevents the grass from growing around the sprinklers and eliminates the risk of damaging them during the regeneration of your lawn. Sprinkler heads get covered with grass quickly and becomes hard to find, or a thick piece of turf can have a negative impact on the functionality of the sprinkler. If used regularly, it prevents damage of the sprinkler during verticutting or aeration.





# 8 basic lawn care rules



## Mow regularly – ideally 2x a week, trim only 1/3 of the grass length

Regular mowing twice a week is a sufficient impulse for the grass not to grow tall, but to sprout to the sides. This helps the lawn thicken quickly. Mowing three times a week will result in an even faster lawn densification. Mowing once in 5 days or even a week is borderline harmful – this frequency makes the lawn quality improve very slowly or stagnate altogether. Trim the grass only by 1/3 of the grass blade length. If you cut off more than 1/3 of the grass height, the grass will be stressed and will not prosper.



## Always use a sharpened and adjusted mower

Cylinder mowers cut the grass on a scissor-like principle. It is the gentlest way to trim grass in the world. A dull mower is a disaster for the lawn. When mowing, we want to trim and even out the grass, not to damage and destroy it. You can't use a dull knife to slice your bread either. Therefore, make sure to check the sharpness of the cylinder blades and the bedknife regularly and have it adjusted properly – not too tight, not too loose.

## Use the best seed mixtures with high share of fescue

The right seed mixture is the key. You will achieve a thick, English-style lawn faster if you sow a fescue mix (for golf fairway or green), rather than a sport-field or park mixture from a DIY store. Fescue is a drought-loving plant and can prosper without irrigation. It regenerates well even after longer drought periods. It handles being trimmed short very well and has a very fine structure. Therefore, it is used on golf courses and English-style lawns.



## Do not mulch, collect the grass

Collecting the cut grass improves the esthetical value of the lawn and lowers the risk of molds and other diseases. Moreover, you won't be bringing the grass onto your porch or into the house on your shoes. So, forget mulching, it has no long-term benefits to your lawn. The grass that you don't collect suffocates the lawn and will eventually turn into thatch, which keeps nutrients, air and moisture from the grass roots.



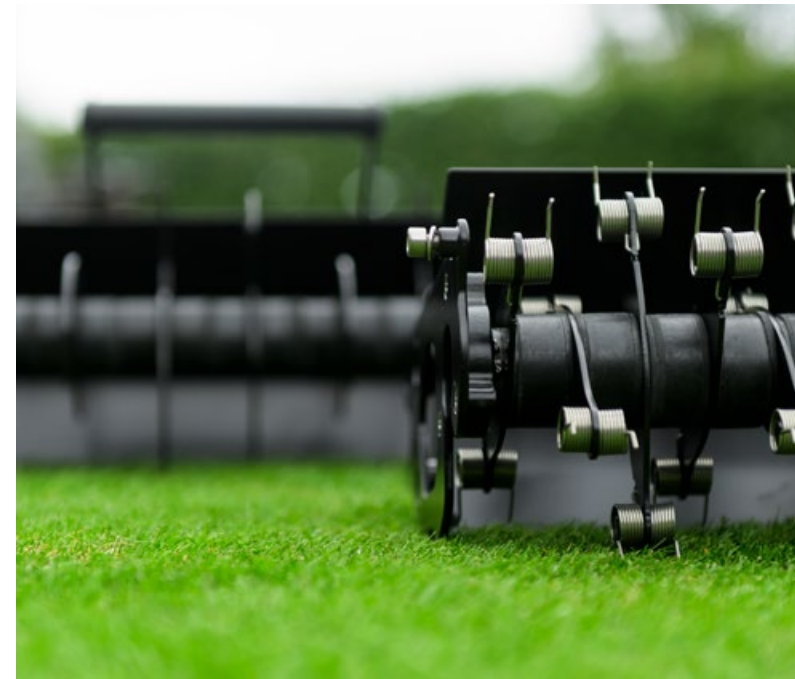


# 8 basic lawn care rules



## Use organic fertilisers regularly and respect seasons

Chemicals don't belong into a healthy lawn. They can be retained in the soil and can deviate the soil environment from its optimum and the lawn can collapse. Nowadays, it is again very effective to take care of the lawn through the natural way. Use organic fertilizers that have a long-lasting effect, do not burn grass blades and that nourish beneficial soil organisms. The turf is healthier, has stronger roots and is more resistant to stress (temperature fluctuations, drought, pests).



## Verticut at least 3x a year and brush the lawn

The thicker the lawn, the more often it needs to be pruned or verticut. Proper verticutting will make approximately 3-5 mm grooves in the lawn; it does not tear the grass, it only cuts through the turf. After verticutting, it is necessary to remove undesired material from the lawn, preferably to brush it out with a scarifier. In addition to verticutting, you will also remove unwanted thatch from the lawn, which prevents the access of air, moisture and nutrients to the roots.

## If possible, use irrigation

If you don't irrigate your lawn and sow regularly with a suitable mixture, only the types of grasses that handle the drought well, will come through. It is a natural selection that works perfectly in nature. If you want a lush green lawn for the entire season, you will not manage without irrigation in the warm months. When irrigating, try to create conditions similar to a normal rainfall. Irrigate less frequently and intensely, but long enough to soak the soil profile with water, so that the roots could draw the water for several days. Morning irrigation before sunrise is effective.



## Aerate once in 2 years

The lawn is often dense and stiff. This prevents air, moisture and nutrients from reaching the roots. If the roots are not supplied properly, the grass can't be green and thick. Densified areas such as paths or areas around a terrace or a pool, should be pierced with aeration forks and sanded. It is ideal to do a thorough aeration of the entire lawn with an aerator machine once in a year or two and to sand the lawn thoroughly.







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