

INNOVATORS' CHOICE SINCE 2005



GRIN[®]

CHANGE YOUR PERSPECTIVE

C A T A L O G U E 2 0 2 6


#changeyourperspective

GRIN was founded in 2005 to change the perspective of garden maintenance.
The creation and the development of our products have a common philosophy as guideline:

TO IMPROVE THE QUALITY OF LIFE
TO INNOVATE AND SIMPLIFY
TO PROPOSE SUSTAINABLE SOLUTIONS

Discover the **GRIN R-evolution !**

GRIN GUARANTEES



33
MODELS
Aimed to meet your every need.



750
AUTHORISED DEALERS
To advise and help you.



100,000
SATISFIED CUSTOMERS
Who use GRIN lawn mowers.



ECO-FRIENDLY GARDEN



**MOWING
NO GRASS BAG
NO WASTE**



TEST DRIVE
GRIN

Check out the pictures of the gardens mowed with GRIN and read the customer's reviews:

www.mygrin-garden.com

INDEX

01. THE GRIN ECO-FRIENDLY GARDEN

The 3Rs of Sustainability.....	p. 8
--------------------------------	------

02. LAWN MOWING WITH GRIN

How it works.....	p. 14
The GRIN gardens.....	p. 16
Ask the expert GRIN vs mulching.....	p. 18
Ask the expert Leaves are transformed into fertilizer.....	p. 20

03. LAWNS FROM 0 UP TO 3,000 M²

Highlights INNOVATION.....	p. 24
Highlights CONSTRUCTION.....	p. 26
Engine protection cone.....	p. 28
The engines chosen by GRIN.....	p. 30
Selection guide.....	p. 32
The full range.....	p. 34
Lawnmowers - EM range	p. 38
Lawnmowers - HM range	p. 42
Lawnmowers - BM range	p. 52
Lawnmowers - PM range	p. 60
Lawnmowers - SPM range	p. 66
Summary data sheet.....	p. 70

04. LAWNS OVER 3,000 M²

XM range	p. 74
GRIN MAXI-3 mowing deck.....	p. 76
XM user-friendly.....	p. 78
XM 3 machines in 1 with ON BOARD.....	p. 80
XM technical features.....	p. 86

05. PRUNING SHREDDING WITH GRIN

BIOCH range	p. 90
BIOCH50	p. 92
BIOCH70	p. 93
BIOCH100 DRIVE	p. 94
BIOCH120 ROAD - CROSS	p. 102
BIOCH150 ROAD	p. 112

06. GRIN IS ALWAYS BY YOUR SIDE

The GRIN company.....	p. 122
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INNOVATORS' CHOICE SINCE 2005

INNOVATORS' C H O I C E S I N C E 2 0 0 5



From the very first prototypes, we knew that this was a true innovation and revolution in the lawnmower market.

We're in the early 2000s. Mulching was already well known, but our ambition was to manufacture a truly new product: a mowing system that completely pulverized the grass and definitively solved the problem of disposing of it. A change of perspective.

In 2005, this project became a reality with the creation of the GRIN patent. As with any new reality, the first few years were marked by ups and downs, emotions and choices, but also by the satisfaction of the first customers who tested the machines and gave us the best advertising in the world: word of mouth.

They gave us the strength to keep growing: the products improve, the range expands and more and more people get to know us thanks to new dealers all over Europe.

By 2010, it was clear that GRIN was the European leader in mowing without grass bag, pulverizing the mown grass. The advantages of the patent are countless and recognized by all those who start using our machines.

A conversation with a gardener confirmed this. He unequivocally underlined the principles that have in fact been carved in our DNA from the very beginning: after 10 years taking care of gardens with GRIN, he had saved 3,000 km of trips to the waste disposal, 100,000 liters of water and a few tons of fertilizer. All this, with far fewer working hours and total satisfaction concerning the quality of the lawn.

It's clear: a garden tended with GRIN is an eco-friendly garden, i.e. that respects the environment, that is healthy and well-maintained, saving time and effort. An essential value for any product with the ambition to last.

With these premises, the GRIN patent is appreciated by domestic users and is functional for the most demanding commercial users. The passion of our technicians, the expertise of our dealer network and the trust of the more than 100,000 customers who have chosen us over the past 20 years complete the picture.

Today, in 2026, GRIN has become a brand that has established itself alongside the great leaders in the lawnmower market. But this achievement is no reason to stop. Indeed, three years ago, we introduced a range of shredders, to ensure that pruning would also become an eco-friendly task.

Then, two years ago, we introduced the GRIN XM range dedicated to large green spaces.

Not to mention our move to a new, larger head quarter with additional production capacity.

Innovation runs through our veins: the next few years will be a constant challenge, which we look forward to embracing.

With the promise of continuing to bring innovation to the green sector and to your gardens, we would like to thank all those of you who, like us, believe that a change of perspective is possible!



Handwritten signature of Franco Ghezzi, CEO.

Franco Ghezzi
CEO

THE GRIN ECO-FRIENDLY GARDEN



INNOVATORS' CHOICE SINCE 2005

01.

GRIN gardens recycle and reuse grass and pruning waste to reduce water and fertilizer consumption, and save time and effort during maintenance.



THE 3RS OF SUSTAINABILITY

RECYCLE

grass to transform it into fertilizer.



The recycling of the grass pulverized by the GRIN mowing system allows the transformation of "waste" into a valuable fertilizer that increases the presence of the organic substance in the soil: humus.

Humus is one of the key elements to create a stable and fertile soil able to easily release nutrients and balance the presence of air and water.

The grass pulverization avoids its transport to the waste disposal that, apart of being tiring and annoying, implies the use of motorized vehicles, which are often polluting, and causes an expensive waste management for the community.

You can therefore save time and effort.

01.

THE GRIN ECO-FRIENDLY GARDEN



REUSE

the pruning as chippings.



With the GRIN shredders, you can chop hedges, trees and bushes, obtaining useful chippings for ground covering or to mix it with the soil. The chipping: when it decomposes, it becomes an excellent, natural fertilizer that serves as water reserve and helps protect from the drought, reducing in this way water needs. It limits the growth of weeds and therefore the weeding.

It also protects the soil from the atmospheric agents, thermal stress and erosion.

Reusing pruning as chippings avoids having to dispose of it and you will therefore save time and money.

01.

THE GRIN ECO-FRIENDLY GARDEN

REDUCE

the use of water and chemical fertilizers.



The combined action of the GRIN cutting system for grass and pruning allows a significant reduction of water and fertilizer.

Water is a precious (and expensive) resource that must be saved. However, plants and lawn need it to grow lush. Thanks to a GRIN garden maintenance, it is possible to minimize irrigation, using the humidity contained into the grass blades pulverized by the lawn mowers and keeping the soil humid with the chippings under hedges and

and plants. Besides water, the lawn, the hedges and the plants need fertilizers to grow healthy.

Again, the combined action of the GRIN cutting system allows to feed the microorganisms of the soil, providing a natural and free fertilizer, that reduces or, in some cases, eliminates the use of other chemical fertilizers.

THE GRIN ECO-FRIENDLY GARDEN



REDUCE | REUSE | RECYCLE

ECO-FRIENDLY GARDEN

GRIN®

Save time and effort.

WOULD YOU LIKE TO TEST GRIN?



100,000 satisfied customers.



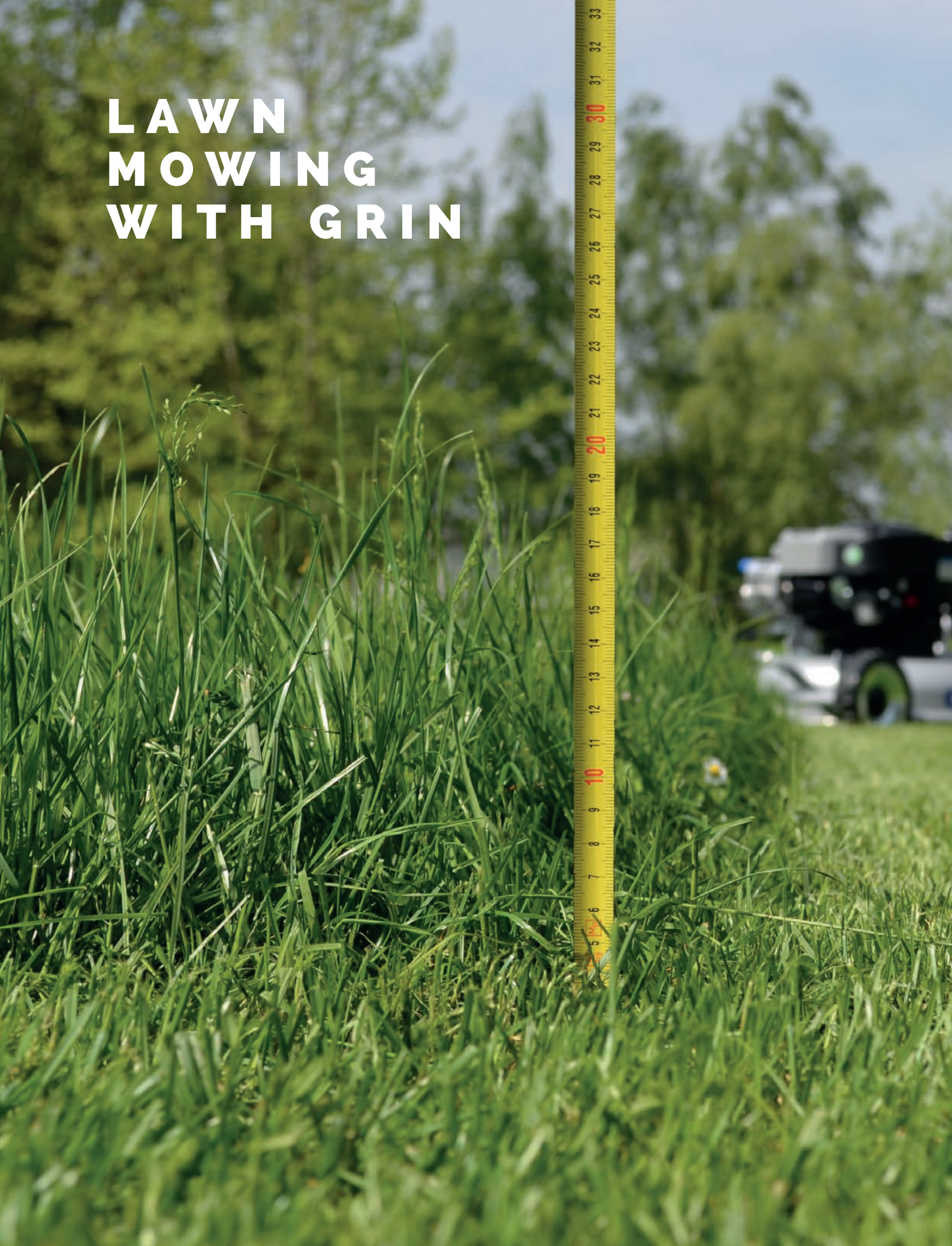
Contact us at
+39.039.95.51.98

Find the closest dealer
www.mygrin.eu

Follow us and find out all the events



LAWN MOWING WITH GRIN



INNOVATORS' CHOICE SINCE 2005



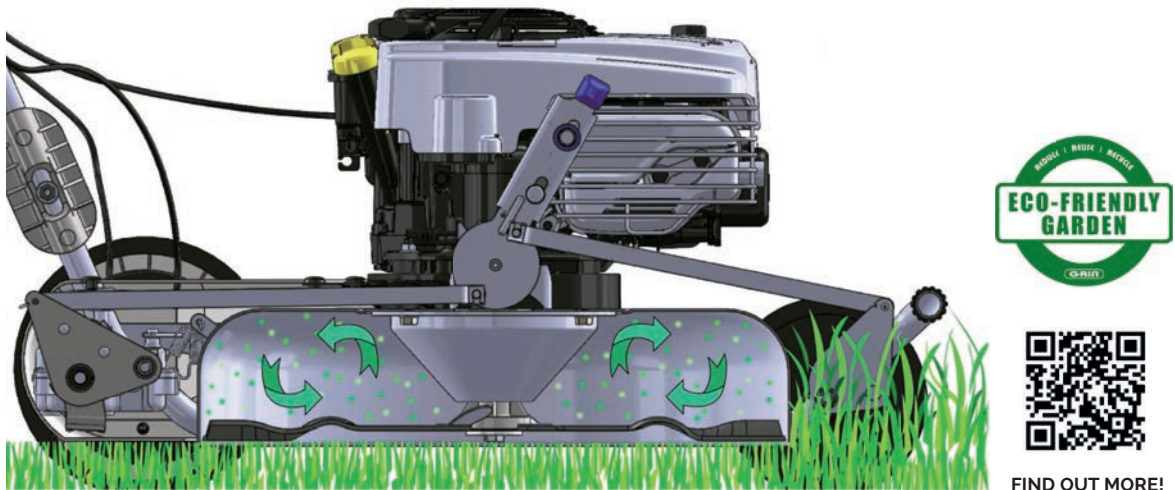
GRIN

02.

The patented GRIN mowing system is the only one that allows you to pulverize grass. A perfect and naturally fertilized lawn, avoiding the effort of collecting and disposing of the grass.



HOW IT WORKS



IT PULVERIZES GRASS

The patented mowing system - **MOWING, NO GRASS BAG, NO WASTE** - developed by GRIN pulverizes grass while mowing.

With GRIN there is no need to collect the grass, store it and dispose of it. The mowed grass remains suspended for a few fractions of a second inside the patented GRIN mowing deck. It is centrifuged and pulverized, thanks to the vortex created by the patented GRIN blade combined with the effect of a GRIN helix disc.

In this way the grass loses most of its volume and is pulverized into tiny little and virtually invisible particles. These particles fall directly onto the soil (they do not remain on the surface of the lawn!) and are absorbed in a very short time.

GRIN optimally processes the grass inside the

IT MOWS TALL GRASS

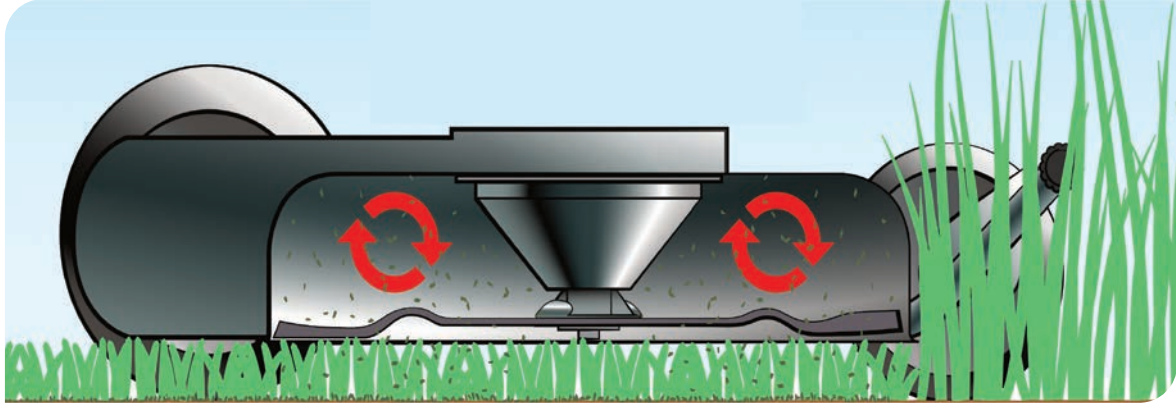
mowing deck, pulverizing everything into extremely fine particles, which become an excellent fertilizer for your lawn!

Under normal conditions, the lawn looks identical to the one mowed with a mower with grass bag. The mowing deck is so voluminous and smooth that no accumulation and clogging problems are encountered during mowing, which are typical of machines with grass bag, instead.

All GRIN mowers are built with a special frame, solely designed for this type of mowing. The GRIN frame optimizes the performance of the patented mowing system and ensures excellent results even in particularly difficult mowing conditions: tall grass, wet grass, uneven terrain etc.

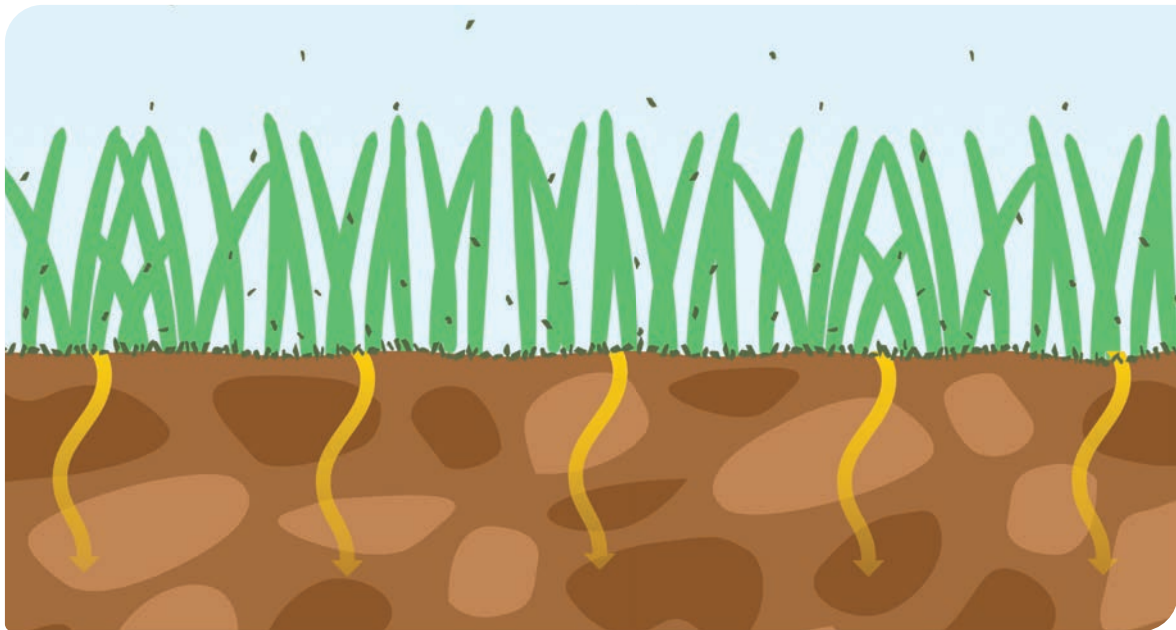
02.

LAWN MOWING WITH GRIN



HOW IT WORKS

1. GRIN MOWS THE GRASS AND PULVERIZES IT
2. THE GRASS IS ABSORBED AS FERTILIZER
3. THE FERTILIZER MAKES YOUR LAWN MORE BEAUTIFUL!



THE ADVANTAGES

1. QUICKER AND EASIER MAINTENANCE
2. NO WASTE TO BE DISPOSED OF
3. LESS WEEDS
4. LOWER USE OF FERTILIZERS AND WATER

#changeyourperspective

THE GRIN GARDENS

Name: **Ginette**
Country: **The Netherlands**
Garden size: **400 m²**
GRIN model used: **EM37**

I LOVE GRIN BECAUSE:
"Acceptable noise level, mows well and light in use, easy to move around and reduces the grass in fine particles (extra nutrition for the lawn). Delivers what it promises."

MY OPINION ON GRIN



Name: **Fabio**
Country: **Italy**
Garden size: **700 m²**
GRIN model used: **BM46**

I LOVE GRIN BECAUSE:
"Powerful, quiet and very fast."

MY OPINION ON GRIN



Name: **Thierry**
Country: **France**
Garden size: **1,500 m²**
GRIN model used: **HM46A**

I LOVE GRIN BECAUSE:
"I no longer go to the dump, my garden became more beautiful etc."

MY OPINION ON GRIN





CHECK OUT ALL THE PICTURES ON
www.mygrin-garden.com

100,000 customers have chosen GRIN mowing system



Name: **Benedetta**
 Country: **Italy**
 Garden size: **3,000 m²**
 GRIN model used: **PM53A**

I LOVE GRIN BECAUSE:
**"It's a fantastic machine!
 I mow my garden in
 a very short time.
 Mowing is a pleasure now.
 Thank you GRIN!"**

MY OPINION ON GRIN
 ★ ★ ★ ★ ★



Name: **Francis**
 Country: **France**
 Garden size: **500 m²**
 GRIN model used: **BM46-82V**

I LOVE GRIN BECAUSE:
**"For its maneuverability, its
 robustness and the mowing
 effectiveness, without
 forgetting its silence and an
 almost zero maintenance!"**

MY OPINION ON GRIN
 ★ ★ ★ ★ ★



Name: **Jean-Pascal**
 Country: **France**
 Garden size: **2,500 m²**
 GRIN model used: **PM53A**

I LOVE GRIN BECAUSE:
**" Ideal to mow leaves in
 autumn and especially to
 not go to the dump in
 summer!"**

MY OPINION ON GRIN
 ★ ★ ★ ★ ★

ASK THE EXPERT

01

DOES GRIN DAMAGE THE LAWN?

NO. GRIN pulverizes grass into very fine particles, which do not remain on the surface of the lawn damaging it. Instead they fall directly onto the soil ready to be absorbed as fertilizer. **Both professionals and domestic users have been using GRIN for many years to maintain gardens.**

03

HOW TALL SHOULD BE THE GRASS TO BE MOWED BY GRIN?

IT IS NOT NECESSARY TO MOW MORE OFTEN. With GRIN there is no need to mow more often than with a mower with grass bag. Mowing heights do not change much, as well. To optimize grass pulverization, mow medium tall grass every 10-15 days. **GRIN is also effective in tall grass (over 20/30 cm), even if the pulverization is less fine.**

05

IS THE GRIN MOWING SYSTEM DIFFERENT FROM THE TRADITIONAL MULCHING?

YES, THEY ARE VERY DIFFERENT. Both systems are characterized by mowing without grass bag, **but GRIN has many advantages:**

- **PULVERIZATION of grass**, without leaving large residues on the lawn surface, **which can hardly be absorbed.**
- **Mowing of TALLER GRASS**, without therefore being obliged to mow too often.
- **Effectiveness** even in case of **WET GRASS.**

THESE FEATURES ARE ESSENTIAL, WHERE CLIMATIC CONDITIONS FAVOR A RAPID GROWTH OF GRASS LIKE IN EUROPE.

02

WHAT HAPPENS TO THE PULVERIZED GRASS BY GRIN?

IT BECOMES A FERTILIZER. The grass pulverized by GRIN is absorbed by the soil thanks to the **micro-organisms and humidity.** The nutrient-rich grass becomes a natural and valuable fertilizer for the lawn. **Being composed of 80% water, grass releases moisture, reducing the water supply needed for your lawn by 20%.**

04

CAN I MOW ALL TYPE OF GARDENS WITH GRIN?

YES. GRIN is suitable for both well-maintained and rustic lawns.

On the website www.mygrin-garden.com/en you can find some pictures of gardens maintained with GRIN and notice the effectiveness of GRIN on the different type of lawns. **In case of doubts, contact one of our dealers to perform a free TEST-DRIVE.**



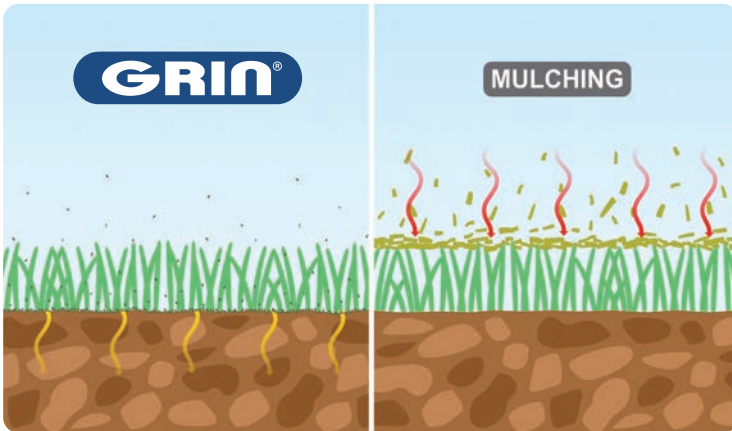
WATCH ALL THE TECHNICAL VIDEOS
ON GRIN YOUTUBE CHANNEL

GRIN vs MULCHING



WATCH THE VIDEO
GRIN vs MULCHING

YOU CAN'T SEE THE PULVERIZED GRASS ON TOP OF THE LAWN

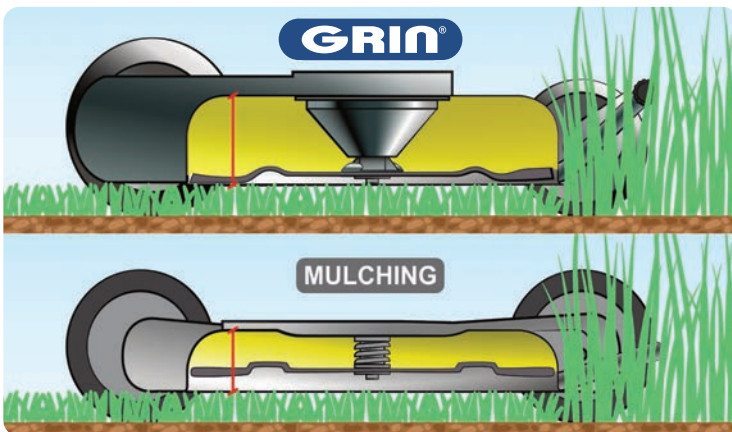


Under normal mowing conditions, GRIN pulverizes grass so fine that it falls through the grass directly onto the soil, to be absorbed as natural fertilizer.

In this way, the aesthetic result of mowing with GRIN is similar to the one obtained with a mower with grass-bag. Under similar mowing conditions, conventional mulching merely cuts grass, which remains on the surface of the lawn, making absorption by the soil difficult.

The risk of grass accumulation and lawn suffocation is therefore very high. Moreover, when it dries up, it remains visible on top of the lawn, looking unaesthetic.

THE GRIN MOWING DECK MOWS ALSO TALL GRASS

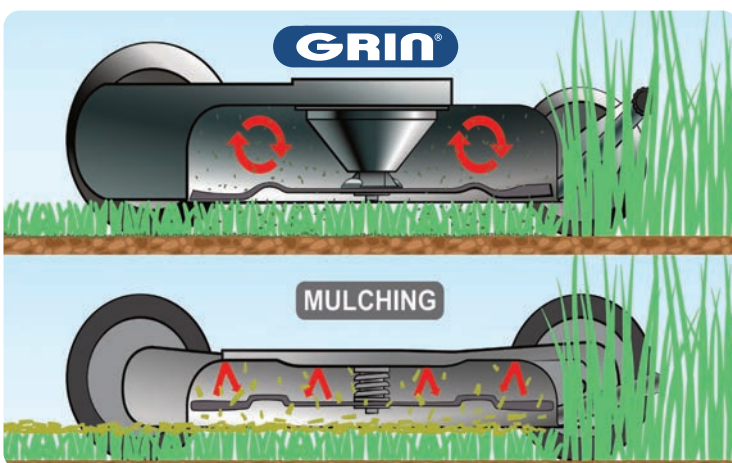


The GRIN mowing deck is about 30% higher than conventional mulching machines. The shape and the position of the blade make the volume of a GRIN mowing deck about 50% larger than conventional mulching machines.

This means that a GRIN mower can mow more grass and for a longer period, without getting overloaded.

Therefore, GRIN performs much better in medium-tall grass than a conventional mulching system.

THE GRIN BLADE CENTRIFUGES THE MOWED GRASS



The GRIN mowing system consists of a patented blade with a particular shape and made of a special material. The blade is assembled with a patented helix disc in a specific position inside the mowing deck. These two components, combined with the shape of the mowing deck, create a vortex with centrifugal effect, which keeps the grass suspended in air for a long time to be pulverised in fine particles.

The mowing system of a mulching machine normally consists of a curved blade that cuts the grass into several segments, the first time during mowing and then when the cut segment falls down.

ASK THE EXPERT



LEAVES ARE TRANSFORMED INTO FERTILIZER.

The patented mowing system – MOWING, NO GRASS BAG, NO WASTE – developed by GRIN is also effective with leaves.

The leaves are ground inside the mowing deck and transformed into fertilizer for your lawn.

If the leaves are fine ground by the GRIN system, they become an excellent nourishment for the lawn because they are rich of carbon.

The night humidity and the microorganisms of the terrain help the absorption, so that the soil becomes more fertile and consequently more beautiful.

In this way, there is no need to waste time and effort in collecting the leaves and disposing of them.



WATCH THE VIDEO OF
GRIN ON LEAVES

IN ANY CONDITIONS... **A PERFECT LAWN!**



TALL GRASS



FLOWERY MEADOW



RUSTIC LAWN



WELL MAINTAINED LAWN



LEAVES



WEEDS



#changeyourperspective

**MOWING
NO GRASS BAG
NO WASTE**

LAWNS FROM 0
UP TO 3,000 M²



INNOVATORS' CHOICE SINCE 2005



GRIN

03.

You can choose among **24 GRIN mowers**, designed for **private use or professional maintenance**. By choosing the **cutting width, the engine and whether or not to include traction**, you'll find the GRIN model best suited to your lawn.



HIGHLIGHTS INNOVATION



01

FOLDABLE HANDLEBAR

Thanks to two easy levers, it is possible to fold the handlebar for storage in little space and an easy transport.

With folded handlebar, GRIN can be put vertically to clean the mowing deck or to be stored in garage*.

*The electric models and the models equipped with MOW N' STOW combustion engine can be stored vertically for a long period (even with full tanks)



02

ANTI-VIBRATION QUICK REGULATOR

Two sturdy Nylon regulators allow the adjustment of the handlebar height according to the one of the user. GRIN has also studied a vibration absorption system inside the new regulators to grant much more comfort in case of intensive use.



03

CENTRALIZED MOWING HEIGHT ADJUSTMENT

The rapid height adjustment on the four wheels is possible using a single lever.

With a single movement, it is possible to set the desired height quickly and easily.



04

FRAME DESIGNED FOR TRANSPORT

The GRIN frame has an ergonomic shape designed to improve the maneuverability of the mower and is suitable for transport. Two handles allow the user to lift the machine easily in case of stairs or inconvenient areas of the garden. **With folded handlebar, GRIN can also fit in the smaller cars to be easily transported.**



05

EASY STARTER

The high range equipment of the GRIN motors allow an **effortless and immediate start**. New technologies **make the use easy and intuitive** by minimizing ordinary maintenance operations.



06

ELECTRIC STARTER

Just a button is necessary to start the GRIN models with combustion engine of the INSTART range and the electric ones of the EM and BM range.

A simple press of the starter is enough to be ready to mow: **quick, easy and effective.**

INNOVATION, SIMPLICITY, CONVENIENCE

HIGHLIGHTS CONSTRUCTION



01

STEEL MOWING DECK

The mowing deck is completely smooth and manufactured with a 3 mm thick, powder coated steel.

This provides sturdiness and allows a proper centrifuge of the grass.



02

STEEL FRAME

The supporting frame is manufactured with a steel tube, which is welded to the mowing deck to form a unique solid part (registered utility model).

This increases the overall strength and rigidity of the lawnmower and helps reducing vibration.



03

PATENTED BLADE

The patented blade is manufactured with a special production process, which enhances strength and durability.

The material thickness and the sharpening method assure a 3/4 times longer life span than conventional blades.



04

STEEL WHEELS

The wheels with steel rim and hub are manufactured to last over time.

The double ball bearings grant ease of movement even on extremely difficult terrain. The treads have been designed to meet the need of every model and user.



05

SUSPENDED TRACTION

The traction in oil bath in aluminum casing works in suspension reducing the load on the drive axles.

The drive belt is completely protected by a specific cover.

It tends automatically with the movement of the traction, thus minimizing the wear.



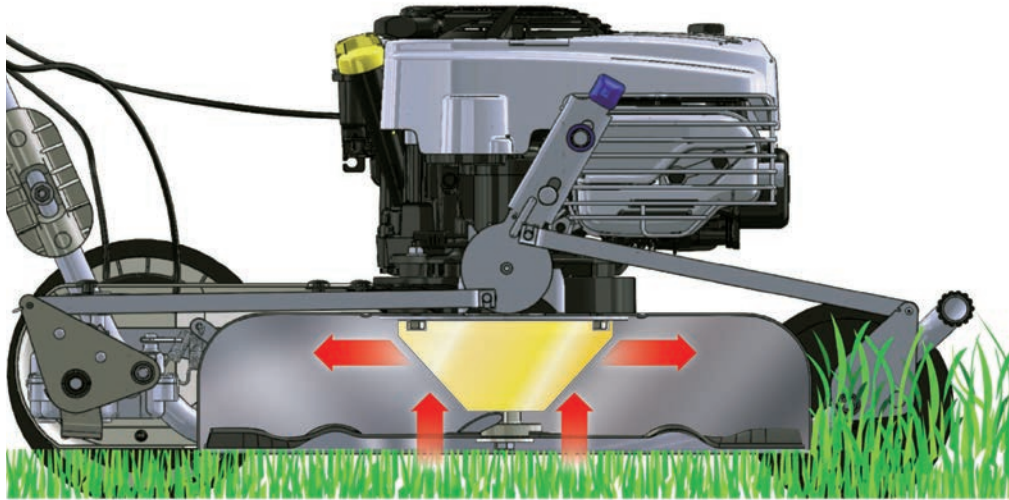
06

REINFORCED AXLES

The steel axles are characterized by sections of reinforced tube to grant impact resistance and an efficient moving even after years of use.

PRODUCTS
BUILT TO LAST

ENGINE PROTECTION CONE



WATCH THE VIDEO OF THE ENGINE PROTECTION CONE SYSTEM



THE **ENGINE PROTECTION CONE** OFFERS PROTECTION WHEN THE BLADE ACCIDENTALLY HITS AN OBSTACLE WHILE MOWING (SUCH AS A STONE, ROOT OR OTHER).

Have you ever hit a stone with your lawn mower and damaged the crankshaft?

These kind of accidents may cause serious mechanical problems. For this reason, **GRIN has introduced a device called ENGINE PROTECTION CONE to minimize these risks.**

This device offers protection when the blade accidentally hits an obstacle while mowing (such as a stone, a root or something else).

To better understand how it works, we suggest you watch the explanatory video. **The steel cone, in combination with the GRIN chassis, absorbs the hit and minimizes the risks of damage.**

Should the blade hub break, its replacement

is easy, quick and low-cost. The user can directly carry it out.

The ENGINE PROTECTION CONE is recommended for uneven terrains or for any distracted user, who easily runs into this kind of accidents.

The ENGINE PROTECTION CONE is fitted as standard on the GRIN Professional range* and is optionally available for the other models.

*PM46A B&S | PM46A IS | PM46A HD | PM46A KW | PM53A B&S | PM53A IS | PM53A HD | PM53A KW | SPM53A KW | BM46-82V | BM46A-82V | BM53A-82V |

Recommended for uneven terrain.



GRIN GIVES YOU FOR FREE THE
GUARANTEE EXTENSION
UP TO 3 YEARS.



FIND OUT MORE!

THE ENGINES CHOSEN BY GRIN



Briggs & Stratton

With over 100 years of history, **the American company BRIGGS & STRATTON is the world-leading manufacturer** of combustion engines for lawn mowers and other gardening applications. Briggs & Stratton offers a dense, **worldwide network of technical support** with more than **40,000 workshops**. **Some features of the BRIGGS & STRATTON engines chosen by GRIN are:**

• MOW N'STOW

Thanks to the Mow N' Stow system, the lawnmower can be stored in vertical position after each use, thus saving the **70% of ground space** and allowing an easy access to the mowing system. **These engines have specific technical features designed to avoid leaks of petrol and oil**, when the lawnmower is put vertically.

• READY START

The ReadyStart® system makes it extremely easy to start the engine. Manually starting with a primer or air intake adjustment is no longer necessary. **It is enough to pull the cord a couple of times and the motor starts right away.**

• ELECTRIC STARTER*

(*on the Instart series)

GRIN machines equipped with the Briggs & Stratton engine with IS Instart system feature instead electric start-up with a push of a button. A lithium ion battery, fitted directly on the engine, **assures immediate and effortless start.**

Charging the battery is simple and easy, thanks to an external battery charger.

POWERED by
HONDA



Honda

Honda, established in 1948, has wide experience in developing and producing engines.

Honda is recognised internationally for its expertise and leadership in developing and making a wide variety of products - from small general purpose engines to sports cars. **Some features of the HONDA engines chosen by GRIN are:**

• OHV SYSTEM

Honda's OverHead Valve (OHV) engines are designed to enhance combustion efficiency, to help to reduce fuel and oil consumption and to ensure excellent thermal balance. **Also the durability, reliability and service life of the engine is extended.**

• EASY STARTING

All Honda engines are equipped with an automatic decompression **system which enables an easy start.** This system, connected to the camshaft, reduces compression by opening the exhaust valve slightly when the engine is being started.

This reduces the degree of force needed to start the engine, allowing the engine to be used even by operators who are not particularly experienced.

• LOW EMISSIONS

Honda is well aware of its responsibility in containing emissions right from the production stage of its engines, and has therefore adopted all the procedures and systems that modern technology offers in this regard to **minimize its impact on the environment.**

YOU CAN CHOOSE THE CONFIGURATION YOU PREFER ACCORDING TO YOUR NEEDS

Powered by
Kawasaki



Kawasaki

Kawasaki Engines has been producing professional engines for turf care for over 60 years. With an engineering heritage firmly focused on excellence and innovation, Kawasaki Engines have earned a reputation for supplying some of the highest quality and most dependable engines in the world. Some features of the KAWASAKI engines chosen by GRIN are:

• PRESSURIZED LUBRICATION

The KAI FJ180V engine is equipped with pressurized lubrication, which enables mowing even on steep slopes without problems of oil suction.

• HEAVY-DUTY FLYWHEEL

Heavy-duty, high inertia flywheel facilitates the mowing of thickest grass. Coupled with an ideal torque curve for GRIN mowing, the performance of machines with Kawasaki engines are especially appreciated in the most difficult mowing conditions.

• DESIGNED FOR DURABILITY

Strength and resilience are built into every FJ engine. From the tough combined crankcase design to hard-wearing chrome plated piston rings and cast iron cylinder liners. Quality bearings ensure high engine loads can be sustained for a longer period of time.



Cramer

The Swedish brand CRAMER is a global player on the market for the production of battery powered motors. With its cutting-edge technology, it drives forward the development of high-performing, powerful and durable battery powered tools and equipment. It offers revolutionary power, innovation and intelligent solutions to support professionals and private users. Some features of the CRAMER engines chosen by GRIN are:

• PROFESSIONAL POWER

The 1.5-kW BRUSHLESS CRAMER engine has a performance that can be compared to a internal combustion engine between 160 and 180 cc. Mowing is therefore possible under all conditions.

• AUTOMATIC ADJUSTMENT OF ENGINE RPM

An electronic PCB automatically adjusts the number of engine RPM, ensuring the appropriate power for the condition of the grass we are mowing, optimising at the same time the duration of the battery.

• OPTIMIZATION OF BATTERY LIFE

CRAMER manufactures batteries of different sizes to suit the needs of each garden. A runtime of 1,200 sq m on a single charge is possible, tested in realistic medium- to heavy-grass situations.

SELECTION GUIDE

GRIN offers a complete range of products that fit the requirements of every garden.
It's important to choose the right lawn mower:
GRIN will accompany you for many years to come!

REMEMBER THAT GRIN DOES NOT HAVE A GRASS BAG.
 THIS MAKES IT LIGHTER AND MORE MANEUVERABLE THAN THE LAWN MOWERS YOU
 HAVE USED UNTIL TODAY.

01 CHOOSE THE RIGHT MOWING WIDTH

Usually, you can choose a smaller GRIN lawn mower in comparison to a model with grass bag (e.g. if you used a 53 cm mowing width, a 46 cm GRIN model might suit you). **The choice of a grass bag lawn mower with large dimensions is due to the fact that a larger grass bag reduces the number of stops when mowing.** With GRIN, choosing a larger mowing width saves you approx. 10 minutes each 1,000 m². However, the smaller machines are more maneuverable especially in tight spaces.

02 CONSIDER IF YOU NEED A TRACTION

Lawn mowers with grass bag are typically heavier, especially when the bag is full of grass. **To easily maneuver them, the traction is needed starting from 400 m² or on slight slopes. GRIN machines without traction are more maneuverable, instead, especially in tight spaces.** A walk-behind GRIN mower is recommended up to 800 m² and 10° of slope.

03 CHOOSE THE RIGHT ENGINE

GRIN lawn mowers with electric motor have the same structural features as the ones with combustion engine: the mowing result is particularly qualitative and under normal mowing circumstances practically identical to that of the line with internal combustion engines.

Use the guiding scheme to choose the GRIN model suitable for you and your garden!

HOW BIG IS YOUR GARDEN IN SQUARE METERS?

M ² OF THE GARDEN	BLADE WIDTH	TRACTION	MODEL
0-400	37 cm (600-800 m ² \h)	NO	EM37 - HM37 B&S - BM37-82V
400-800	46 cm (800-1.000 m ² \h)	NO	HM46 B&S - HM46 IS HM46 HD - BM46-82V
800-1.200	46 cm (800-1.000 m ² \h)	YES	HM46A B&S - HM46A IS - HM46A HD BM46A-82V - PM46A B&S - PM46A IS PM46A HD - PM46A KW
1.200-3.000	53 cm (1.000-1.200 m ² \h) (2.000 m ² \h con SPM53A)	YES	HM53A B&S - HM53A IS - HM53A HD BM53A-82V - PM53A B&S - PM53A IS PM53A HD - PM53A KW - SPM53A KW

COMPARISON WITH A LAWN MOWER WITH GRASS BAG

	M ² OF THE GARDEN	GRIN BLADE WIDTH	LAWN MOWER WITH GRASS BAG BLADE WIDTH	GRIN TRACTION	LAWN MOWER WITH GRASS BAG TRACTION
	0-400	37 cm	46 cm	NO	NO
	400-800	46 cm	53 cm	NO	YES
	800-1.200	46 cm	53 cm	YES	YES
	1.200-3.000	53 cm	53 cm	YES	YES

IS IT FLAT OR ON SLOPES?

DEGREE OF SLOPE	TRACTION	ENGINE
0° - 10°	NO (up to 800 m ²)	ALL
10° - 20°	YES	ALL
> 20° (MAX 35° - 40°)	YES	Battery (BM46A-82V - BM53A-82V) Kawasaki with pressurised lubrication (PM46A KW - PM53A KW - SPM53A KW)

THE FULL RANGE

HOBBYPRO

The HobbyPRO line is addressed to demanding private users. Robustness and quality of professional materials are combined with components designed to grant maneuverability, convenience and ease of use.

LIGHT



Designed to be maneuverable, even in tight spaces

EASY



Easy start and intuitive use

ROBUST



Professional frame, blade and wheels designed to last over time

HOBBYPRO

0-400 M²



EM37



HM37 B&S



BM37-82V

400-800 M²



HM46 B&S



HM46 INSTART



HM46 HD



BM46-82V

800-1,200 M²



HM46A B&S



HM46A INSTART



HM46A HD

1,200-3,000 M²



HM53A B&S



HM53A INSTART



HM53A HD

CORDED
ELECTRIC



INTERNAL COMBUSTION
ENGINE



Briggs & Stratton 6.75

INTERNAL COMBUSTION
ENGINE



Briggs & Stratton 6.75
INSTART

ELECTRIC START

INTERNAL COMBUSTION
ENGINE



Honda
GCV170

BATTERY



82V

A MODEL FOR EVERY NEED.

PROFESSIONAL

The PROFESSIONAL line is designed to professional turf maintenance.

The components are suitable for intensive use, even on difficult terrains.

POWERFUL



Specific engine and components to mow under difficult conditions

RESISTANT



The engine protection cone is important on uneven terrain

ADAPTABLE



The professional traction allows you to adapt speed according to different mowing conditions

PROFESSIONAL

GRIN[®]

CHANGE YOUR PERSPECTIVE



BM46A-82V



PM46A B&S



PM46A INSTART



PM46A HD



PM46A KW



BM53A-82V



PM53A B&S



PM53A INSTART



PM53A HD



PM53A KW



SPM53A KW

BATTERY



82V

INTERNAL COMBUSTION ENGINE



Briggs & Stratton 8.50

INTERNAL COMBUSTION ENGINE



Briggs & Stratton 8.50 INSTART

ELECTRIC START

INTERNAL COMBUSTION ENGINE



Honda GCV200

INTERNAL COMBUSTION ENGINE



Kawasaki

FOR SLOPES > 20°

ASK THE EXPERT

01

HOW DO I CHOOSE THE RIGHT GRIN MODEL FOR MY GARDEN?

ACCORDING TO THE SIZE of your garden in square meters, choose the mowing width (37, 46 or 53 cm) referring to the chart at page 33.

Once you have identified the models of the right size, look at the data sheets in the following pages.

Do not hesitate to contact GRIN for advice or visit one of our authorized dealers.

02

FOR LAWNS UP TO 800 M², WHY ISN'T THE TRACTION NECESSARY WITH GRIN?

BECAUSE GRIN is lighter than a mower with grass bag. In fact it does not carry the weight of the bag full of grass. Unless there are slopes of more than 10°, the traction in a medium-sized garden could make the machine heavier and less maneuverable.

In order to understand more about the GRIN system, we suggest you to perform a free TEST DRIVE by our authorized dealers.

03

WHICH IS THE DIFFERENCE BETWEEN GRIN PM AND HM PRODUCT RANGE?

The PM range is designed for PROFESSIONAL and very intensive use. The frame and the mowing deck are very similar in both product lines, but the equipment and the components are different.

The PM range in addition has the engine protection cone as standard, more performant engine, professional 2-speed traction, MAXI rear wheels, a more comfortable handlebar and levers. As for the use, the main differences can be noticed on uneven terrains, in tall grass or on very well maintained lawns. **If you have doubts, do not hesitate to contact us for help or perform a free TEST DRIVE.**

04

HOW DO THE GRIN BATTERY MACHINES PERFORM?

LIKE THE ONES WITH COMBUSTION ENGINE.

The GRIN battery machines are equipped with the same steel frame like the ones with combustion engine.

The 82V motors are extremely powerful and grant excellent performances. The electric motor torque is sometimes even more performant than the engines of the HM range.

Many professional use these machines also in very tall grass or on extremely difficult lawns. **You can fully appreciate it performing a free TEST DRIVE by the closest GRIN dealer.**

#changeyourperspective

TEST DRIVE GRIN



FIND OUT MORE!



**IT PULVERIZES
GRASS**

**IT MOWS
TALL GRASS**

**IT IMPROVES
YOUR LAWN**

WOULD YOU LIKE TO TEST GRIN?



100,000 satisfied customers.



Contact us at
+39.039.95.51.98

Find the closest dealer
www.mygrin.eu

Follow us and find out all the events





E M R A N G E

C O R D E D E L E C T R I C

The GRIN EM range consists of a mower with 37 cm mowing width featuring the patented MOWING – NO GRASS BAG – NO WASTE system. Ideal for users who look for the convenience and simplicity of an electric motor without sacrificing the quality of the materials and the effectiveness of the GRIN mowing. Recommended for those who need a maneuverable machine with steel

frame and high quality mowing results.

It combines the same structural features of an internal combustion engine lawn mower with the silence, ease of use and reduced costs of an electric motor. It turns on with a practical command on the handlebar and the motor does not need any maintenance.

An electric mower like you have never seen before!

H I G H L I G H T S

E M R A N G E



01

ELECTRIC START

Start the engine simply pushing a button.



02

VERTICAL STORAGE

70% of space saved in your garage.



03

1600 W ELECTRIC MOTOR

The convenience of an electric motor, without giving up on performance.



GRIN EM37

Built on the proven GRIN chassis, **GRIN EM37** features a very powerful, **1600 Watt corded electric motor**. Those who have tried this machine confirm they **have found no differences in mowing quality compared to an internal combustion engine lawn mower**. **Very maneuverable** thanks to the compact size and steel wheels with double ball bearings, this lawn mower **excels in gardens up to 400 m²** with easy access to mains power

sockets. **The advantages** of this model are: **silent, easy to switch on, no polluting emissions**, the convenience of not needing any petrol or oil. The structure of this machine is the same as a GRIN lawn mower with internal combustion engine. **When used in a small garden, it will work perfectly for many years.**

ENGINE

 **CORDED ELECTRIC**

RECOMMENDED FOR

0-400 M²

FOR SLOPES

0-10°



MOWING SYSTEM	Patented GRIN mowing system MOWING - NO GRASS BAG - NO WASTE
MOWING WIDTH	37 cm
MOWING HEIGHT	4 heights, adjustable with a single quick action lever
TRACTION	No
WHEELS	Steel structure with double ball bearing
MOWING DECK AND STRUCTURE	Reinforced, powder coated steel
ENGINE PROTECTION CONE	No
HANDLEBAR	Foldable with quick regulators
ENGINE	Electric 220 Volt - Power 1600 Watt
START	Electric
WEIGHT	20 kg



FIND OUT MORE!

**KEEP UP-TO-DATE
AND FIND OUT ALL THE NEWS
OF GRIN WORLD!**



FIND OUT MORE!



#changeyourperspective

GET ALL THE INFORMATION ON
WWW.MYGRIN.EU

FIND OUT MORE ON OUR
YOUTUBE CHANNEL

FOLLOW US ON
FACEBOOK AND INSTAGRAM



H M R A N G E

I N T E R N A L C O M B U S T I O N E N G I N E

The GRIN HM range consists of 10 lawn mowers featuring the patented MOWING – NO GRASS BAG – NO WASTE system. **Recommended for all demanding private users, who require a machine with a professional chassis that also assures great maneuverability.** They are available with mowing width of **37, 46 and 53 cm** and either in the push version or with traction. These were the **first models** to be developed **with the patented**

MOWING - NO GRASS BAG - NO WASTE system. They have always driven our company's growth.

Three engine versions are available:

- Briggs&Stratton 6.75 with starter cord and with the MOW N'STOW system
- Briggs&Stratton 6.75 with electric start and with the MOW N'STOW system
- Honda GCV 170

**Very reliable machines tested and evolved
over 20 years in the field!**

H I G H L I G H T S

H M R A N G E



01

HOBBY PRO

Robustness and quality of professional materials are combined with components designed to grant maneuverability, convenience and ease of use.



02

ELECTRIC START

Start the engine simply pushing a button.

*ON THE INSTART MACHINES



03

MOW N'STOW VERTICAL STORAGE

70% of space saved in your garage even with full tanks.

*AVAILABLE ON BRIGGS & STRATTON POWERED MODELS



GRIN HM37

GRIN HM37 is a compact, **very maneuverable lawn mower** with internal combustion engine.

Built on the proven **GRIN chassis**, it is **equipped with the powerful and reliable Briggs & Stratton 6.75 series, 163 cc engine** with Ready Start for an easy start up.

This lawn mower is the smallest and lightest of the internal combustion engine range. **Nevertheless, it features the structural advantages of all GRIN lawn mowers, granting high solidity and mowing efficiency:** 3 mm thick mowing deck, reinforced by a tubular frame, steel wheels with double ball bearing, centralised height

wheels with double ball bearing, centralised height adjustment lever, quick anti-vibration handlebar regulators, 25 mm handlebar, patented GRIN blade, etc.

Ideal for users who look for high quality mowing in small gardens or with narrow passages. The 37 cm blade **is recommended for lawns up to approximately 400 m².** The chassis of this machine is very solid and durable. In case of particularly rocky or uneven terrain, **it can be equipped with the optional engine protection cone.**

 ENGINE INTERNAL COMBUSTION ENGINE	RECOMMENDED FOR 0-400 M ²	FOR SLOPES 0-10°
 	MOWING SYSTEM	Patented GRIN mowing system MOWING - NO GRASS BAG - NO WASTE
	MOWING WIDTH	37 cm
	MOWING HEIGHT	4 heights, adjustable with a single quick action lever
	TRACTION	No
	WHEELS	Grip GRIN , steel structure with double ball bearing
	MOWING DECK AND STRUCTURE	Reinforced, powder coated steel
	ENGINE PROTECTION CONE	Optional
HANDLEBAR	Foldable with quick anti-vibration regulators	
ENGINE	Briggs & Stratton 6.75 - Ready Start 4-stroke - 163 cc MOW N'STOW for vertical storage	
START	Easy starter cord - automatic	
WEIGHT	25 kg	



FIND OUT MORE!

DEMO DAY GRIN



FIND OUT MORE!



**MEET
GRIN TECHNICIANS**

**FIND OUT THE SECRETS
OF THE MOWING SYSTEM**

**FIND THE RIGHT MODEL
FOR YOUR GARDEN**



#changeyourperspective

FIND OUT THE GRIN EVENTS AND JOIN US!

www.mygrin.eu

GRIN



GRIN HM46

GRIN HM46 is one of the most popular machines in the GRIN range with internal combustion engine. The most impressive feature of this lawn mower is its maneuverability. Its compact chassis, the wheels with double ball bearings, the low weight and the practical frame make it the **ideal machine to easily mow in between trees, flowerbeds, lanes and all the other obstacles in the garden.** Nevertheless, **its 46 cm mowing deck allow easy and quick maintenance up to 800 m².** The lack of traction is not perceived on flat lawns: **GRIN**

lawn mowers have no grass bag, therefore the weight of the machine is low and does not increase with full grass bag.

Pushing GRIN HM46 is easy and comfortable for everyone and there is no traction that could hinder maneuvering.

The chassis of this machine is very solid and durable. In case of particularly rocky or uneven terrain, **it can be equipped with the optional engine protection cone.**

ENGINE



INTERNAL COMBUSTION ENGINE

RECOMMENDED FOR

400-800 M²

FOR SLOPES

0-10°

MOWING SYSTEM

Patented GRIN mowing system **MOWING - NO GRASS BAG - NO WASTE**

MOWING WIDTH

46 cm

MOWING HEIGHT

4 heights, adjustable with a single quick action lever

TRACTION

No

WHEELS

Grip GRIN, steel structure with double ball bearing

MOWING DECK AND STRUCTURE

Reinforced, powder coated steel

ENGINE PROTECTION CONE

Optional

HANDLEBAR

Foldable with quick **anti-vibration regulators**

AVAILABLE ENGINES



GRIN HM46 B&S



ENGINE	Briggs & Stratton 6.75 Ready Start 4-stroke - 163 cc
START	Easy starter cord - automatic
WEIGHT	27 kg

FIND OUT MORE!



MOW N'STOW FOR VERTICAL STORAGE



GRIN HM46 INSTART



ENGINE	Briggs & Stratton 6.75 - INSTART with built-in battery - 4-stroke - 163 cc
START	Electric
WEIGHT	28 kg

FIND OUT MORE!



MOW N'STOW FOR VERTICAL STORAGE

ELECTRIC START



GRIN HM46 HD



ENGINE	Honda GCV 170 - 4-stroke - 166 cc
START	Starter cord
WEIGHT	29 kg

FIND OUT MORE!



LIMITED EDITION

ASK THE EXPERT

WHY DOES THE GRIN MOWING SYSTEM IMPROVE THE LAWN?

Pulverized grass is an excellent fertilizer: microorganisms in the soil turn pulverized grass into humus. Soil rich in humus will **promote the growth of a quality lawn** and, for those who use it, **reduce the use of fertilizers of 20%.**



G R I N H M 4 6 A

GRIN HM46A is one of the most popular machines in the GRIN range with internal combustion engine and traction.

Built on the proven **GRIN chassis**, it is equipped with **powerful and reliable engines**. The traction in oil bath, in aluminum casing, **is reliable and powerful**. The innovative **GRIN design of the traction**, mounted on **GRIN suspended axles**, enables to increase shock resistance and

durability. The **46 cm mowing deck** allows you to quickly mow up to **1,200 m²**, still assuring **extreme maneuverability** even in the narrowest garden areas, on slopes and during transport.

The chassis of this machine is very solid and durable. In case of particularly rocky or uneven terrain, **it can be equipped with the optional engine protection cone**.

ENGINE



INTERNAL COMBUSTION ENGINE

RECOMMENDED FOR

800-1,200 M²

FOR SLOPES

0-20°

MOWING SYSTEM

MOWING WIDTH

MOWING HEIGHT

TRACTION

WHEELS

MOWING DECK AND STRUCTURE

ENGINE PROTECTION CONE

HANDLEBAR

Patented GRIN mowing system **MOWING - NO GRASS BAG - NO WASTE**

46 cm

4 heights, adjustable with a single quick action lever

MONO in aluminum casing

Grip GRIN, steel structure with double ball bearing

Reinforced, powder coated steel

Optional

Foldable with quick **anti-vibration regulators**

AVAILABLE ENGINES



GRIN HM46A B&S



ENGINE	Briggs & Stratton 6.75 Ready Start 4-stroke - 163 cc
START	Easy starter cord - automatic
WEIGHT	32 kg

FIND OUT MORE!



MOW N'STOW FOR VERTICAL STORAGE



GRIN HM46A INSTART



ENGINE	Briggs & Stratton 6.75 - INSTART with built-in battery - 4-stroke - 163 cc
START	Electric
WEIGHT	33 kg

FIND OUT MORE!



MOW N'STOW FOR VERTICAL STORAGE

ELECTRIC START



GRIN HM46A HD



ENGINE	Honda GCV 170 - 4-stroke - 166 cc
START	Starter cord
WEIGHT	34 kg

FIND OUT MORE!



LIMITED EDITION

ASK THE EXPERT

WHY DOES THE GRIN MOWING SYSTEM REDUCE WEEDS IN THE LAWN?

Weeds proliferate when the soil is dry and poor. **GRIN mowing system enriches the soil with humus by promoting the growth of quality grass varieties.** The soil will be less favorable to weeds, which will also have less "space" to grow, as the lawn will be thicker.



G R I N H M 5 3 A

GRIN HM53A with internal combustion engine and traction is designed for large spaces.

Built on the proven **GRIN chassis**, it is equipped with **powerful and reliable engines**.

The traction in oil bath, in aluminum casing, is reliable and powerful. **The innovative GRIN design of the traction, mounted on GRIN suspended axles, enables to increase shock resistance and durability.** The 53 cm mowing deck allows you

to mow lawns larger than 1,200 m². Compared to the smaller model, with 46 cm mowing deck, **it is best suited for wide open spaces**, where a larger mowing width helps to save time for maintenance.

The chassis of this machine is very solid and durable. In case of particularly rocky or uneven terrain, **it can be equipped with the optional engine protection cone.**

ENGINE



INTERNAL COMBUSTION ENGINE

RECOMMENDED FOR

1,200-3,000 M²

FOR SLOPES

0-20°

MOWING SYSTEM

Patented GRIN mowing system **MOWING - NO GRASS BAG - NO WASTE**

MOWING WIDTH

53 cm

MOWING HEIGHT

4 heights, adjustable with a single quick action lever

TRACTION

MONO in aluminum casing

WHEELS

Grip GRIN, steel structure with double ball bearing

MOWING DECK AND STRUCTURE

Reinforced, powder coated steel

ENGINE PROTECTION CONE

Optional

HANDLEBAR

Foldable with quick **anti-vibration regulators**

AVAILABLE ENGINES



GRIN HM53A B&S



ENGINE	Briggs & Stratton 6.75 Ready Start 4-stroke - 163 cc
START	Easy starter cord - automatic
WEIGHT	34 kg

FIND OUT MORE!



MOW N'STOW FOR VERTICAL STORAGE



GRIN HM53A INSTART



ENGINE	Briggs & Stratton 6.75 - INSTART with built-in battery - 4-stroke - 163 cc
START	Electric
WEIGHT	35 kg

FIND OUT MORE!



MOW N'STOW FOR VERTICAL STORAGE

ELECTRIC START



GRIN HM53A HD



ENGINE	Honda GCV 170 - 4-stroke - 166 cc
START	Starter cord
WEIGHT	36 kg

FIND OUT MORE!



LIMITED EDITION

ASK THE EXPERT

WHY DOES MOWING WITH GRIN CONTRIBUTE TO LAWN WATERING?

Grass is about 80% water. **The GRIN mowing system gives it back to the soil while mowing.**
It has been tested that, a lawn mowed with GRIN, needs 20% less water intake to grant the same quality result.



B M R A N G E

8 2 V B A T T E R Y

The GRIN 82V battery powered range consists of 4 lawn mowers, 2 push models and 2 with traction, featuring the patented MOWING – NO GRASS BAG – NO WASTE system.

They are equipped with the innovative, brushless Cramer electric motor with an output of 1.5 kw and powered by a 82V lithium ion battery. This new technology allows amazing performances compared to the past. In terms of power and mowing quality, these lawn mowers have nothing to envy to the ones with internal combustion engine. With the 8Ah battery, one full charge is enough to mow 1,000 - 1,200 m² with the model

BM53A-82V and 800 - 1,000 m² with the model BM46A-82V. With the 5 Ah battery, one full charge is enough to mow 800 – 1,000 m² with the model BM46-82V. With the 2.5Ah battery, one full charge is enough to mow up to 500-600 m² with model BM37-82V. The battery is housed in an internal compartment of the motor and can be easily removed to be recharged. In this way, the battery is protected from hits and atmospheric agents.

The combination of 2 batteries allows an autonomy of several consecutive hours, increasing the usability.

H I G H L I G H T S

B M R A N G E



01

ELECTRIC START

Start the engine simply pushing a button.



02

82V BATTERY MOTOR

Powerful like a combustion engine, easy like an electric motor.



03

VERTICAL STORAGE

70% of space saved in your garage.



PRACTICAL AND ENVIRONMENTALLY FRIENDLY... WITHOUT COMPROMISES!

01

GUARANTEED POWER

to mow without compromise compared to an internal combustion engine.

02

OPTIMISED AUTONOMY

of the battery thanks to the automatic consumption control of the **ECO MODE** and **POWER MODE** system.

03

NO MAINTENANCE

needed for the **82V Cramer motor**.

04

LOW ENVIRONMENTAL IMPACT

for an eco-friendly mowing and a quiet motor.



2,5Ah



5Ah



8Ah

82VOLT LITHIUM MAX

GUIDE TO CHOOSE YOUR BATTERY-POWERED GRIN



Model	Blade	Traction	Supplied battery	Battery lifetime m ²	Supplied battery charger	Charging time	Battery life cycles
BM37-82V	37	NO	2,5Ah	500-600 M ²	4Ah (4 amps per hour)	40 min	500\1.000 (1 year -15-20 cycles for private use)
BM46-82V	46	NO	5Ah	800-1.000 M ²	4Ah (4 amps per hour)	75 min	500\1.000 (1 year -15-20 cycles for private use)
BM46A-82V	46	YES PRO with 2 speeds	8Ah	800-1.000 M ²	4Ah (4 amps per hour)	120 min	500\1.000 (1 year -15-20 cycles for private use)
BM53A-82V	53	YES PRO with 2 speeds	8Ah	1.000-1.200 M ²	4Ah (4 amps per hour)	120 min	500\1.000 (1 year -15-20 cycles for private use)



GRIN BM37-82V

GRIN BM37-82V features the **Cramer electric motor powered by an 82V Lithium Ion battery**. The 2.5 Ah and 82V battery allows you to mow up to 500-600 m² of lawn, under normal conditions, with one full charge. Built on the proven GRIN chassis, it is equipped with a 1.5KW electric motor that assures incredible performance in tall grass and in difficult conditions, similar to a machine with an internal combustion engine. The electronics enable the variation of the motor's RPM from

2,600 to 2,900, optimising battery life thanks to automatic power adjustment according to mowing conditions. The chassis of this machine is the same as a GRIN lawn mower with internal combustion engine. Thanks to the structural integrity and the motor, it is particularly suitable for tight space and trimming jobs, when it is necessary to combine mowing performance with a reduced noise level, pollutants and engine maintenance.

ENGINE	RECOMMENDED FOR	FOR SLOPES
 BATTERY	0-400 M ²	0-10°
	MOWING SYSTEM	Patented GRIN mowing system MOWING - NO GRASS BAG - NO WASTE
	MOWING WIDTH	37 cm
	MOWING HEIGHT	4 heights, adjustable with a single quick action lever
	TRACTION	No
	WHEELS	Grip GRIN , steel structure with double ball bearing
	MOWING DECK AND STRUCTURE	Reinforced, powder coated steel
	ENGINE PROTECTION CONE	Optional
	HANDLEBAR	Foldable with quick anti-vibration regulators
	ENGINE	Cramer - Lithium ION High efficiency, with integrated control, safety key
	START	Electric
	BATTERY	2.5Ah-82V - 500 / 600 m² with one full charge
	BATTERY CHARGER	QUICK - 40 minutes for one full charge
	WEIGHT	23 kg - without battery



500 / 600 M² WITH ONE FULL CHARGE

ELECTRIC START



FIND OUT MORE!



GRIN BM46-82V

GRIN BM46-82V features the **Cramer electric motor** powered by an **82 V Lithium Ion battery**. The **5 Ah and 82V battery** allows you to mow up to **800-1,000 m² of lawn**, under normal conditions, with one full charge. Built on the proven **GRIN chassis**, it is equipped with a **1.5KW electric motor** that assures incredible performance in tall grass and in difficult conditions, similar to a machine with an internal combustion engine. The electronics enable the variation of the motor's RPM from 2,600 to

2,900, optimising battery life thanks to automatic power adjustment according to mowing conditions. **The chassis of this machine is the same as a GRIN lawn mower with internal combustion engine** and the **ENGINE PROTECTION CONE** is standard. Thanks to the structural integrity and the motor, **it is widely appreciated by professional gardeners**, who need to combine mowing performance with a reduced noise level, pollutants and engine maintenance.

ENGINE

RECOMMENDED FOR

FOR SLOPES



BATTERY

400-800 M²

0-10°



MOWING SYSTEM

Patented GRIN mowing system
MOWING - NO GRASS BAG - NO WASTE

MOWING WIDTH

46 cm

MOWING HEIGHT

4 heights, adjustable with a single quick action lever

TRACTION

No

WHEELS

Grip GRIN, steel structure with double ball bearing

MOWING DECK AND STRUCTURE

Reinforced, powder coated steel

ENGINE PROTECTION CONE

Standard

HANDLEBAR

Foldable with quick **anti-vibration regulators**

ENGINE

Cramer - Lithium ION
High efficiency, with integrated control, safety key
Electric

START

5Ah-82V - 800 / 1,000 m² with one full charge

BATTERY

QUICK - 75 minutes for one full charge

BATTERY CHARGER

WEIGHT

25 kg - without battery



800 / 1,000 M² WITH ONE FULL CHARGE

ELECTRIC START



FIND OUT MORE!



GRIN BM46A-82V

GRIN BM46A-82V is a lawn mower with automatic traction equipped with the **Cramer electric motor powered by an 82V lithium-ion battery**. The **8Ah and 82V battery allows you to mow up to 800-1,000 m²**, under normal conditions, with one full charge.

The **2 SPEED professional traction** in oil bath, in aluminum casing, is reliable and powerful and allows you to adjust the speed according to the conditions of the lawn. The innovative **GRIN design of the traction, mounted on GRIN suspended axles**, enables to increase shock resistance and durability. Built on the

proven **GRIN chassis, with the standard ENGINE PROTECTION CONE**, it is equipped with a **1.5 KW electric motor**, that assures **incredible performance in tall grass and difficult conditions**, similar to a machine with internal combustion engine.

The electronics enable the **variation of the motor's RPM from 2,600 to 2,900**, optimising battery life thanks to automatic power adjustment according to mowing conditions.

Thanks to the structural integrity and the motor, it is widely appreciated by professional gardeners.

ENGINE



BATTERY

RECOMMENDED FOR

800-1,200 M²

FOR SLOPES

0-30°



MOWING SYSTEM

Patented GRIN mowing system

MOWING WIDTH

46 cm

MOWING HEIGHT

4 heights, adjustable with a single quick action lever

TRACTION

Professional with 2 speeds

WHEELS

Grip GRIN, steel structure with double ball bearing

MOWING DECK AND STRUCTURE

Reinforced, powder coated steel

ENGINE PROTECTION CONE

Standard

HANDLEBAR

Foldable with quick **anti-vibration regulators**

ENGINE

Cramer - Lithium ION

High efficiency, with integrated control, safety key

START

Electric

BATTERY

8Ah-82V - 800 / 1,000 m² with one full charge

BATTERY CHARGER

QUICK - 120 minutes for one full charge

WEIGHT

33 kg - without battery



800 / 1,000 M² WITH ONE FULL CHARGE

ELECTRIC START



FIND OUT MORE!



GRIN BM53A-82V

GRIN BM53A-82V is a lawn mower with automatic traction equipped with the **Cramer electric motor powered by an 82V lithium-ion battery**. The **8Ah and 82V battery** allows you to mow up to **1,000-1,200 m²**, under normal conditions, with one full charge.

With an additional 8Ah battery, it is possible to mow up to 2,000-2,400 m². The **2 SPEED professional traction** in oil bath, in aluminum casing, is reliable and powerful and allows you to adjust the speed according to the conditions of the lawn.

The innovative GRIN design of the traction, mounted on **GRIN suspended axles**, enables to increase shock

resistance and durability. Built on the proven **GRIN chassis, with the standard ENGINE PROTECTION CONE**, it is equipped with a **1.5 KW electric motor**, that assures **incredible performance in tall grass and difficult conditions**, similar to a machine with internal combustion engine.

The electronics enable the **variation of the motor's RPM from 2,600 to 2,900**, optimizing battery life thanks to automatic power adjustment according to mowing conditions.

Thanks to the structural integrity and the motor, it is widely appreciated by professional gardeners.

ENGINE



BATTERY

RECOMMENDED FOR

1,200-3,000 M²

FOR SLOPES

0-30°



MOWING SYSTEM

Patented GRIN mowing system

MOWING WIDTH

53 cm

MOWING HEIGHT

4 heights, adjustable with a single quick action lever

TRACTION

Professional with 2 speeds

WHEELS

Grip GRIN, steel structure with double ball bearing

MOWING DECK AND STRUCTURE

Reinforced, powder coated steel

ENGINE PROTECTION CONE

Standard

HANDLEBAR

Foldable with quick **anti-vibration regulators**

ENGINE

Cramer - Lithium ION

High efficiency, with integrated control, safety key

START

Electric

BATTERY

8Ah-82V - 1,000 / 1,200 m² with one full charge

BATTERY CHARGER

QUICK - 120 minutes for one full charge

WEIGHT

35 kg - without battery



1,000 / 1,200 M² WITH ONE FULL CHARGE

ELECTRIC START



FIND OUT MORE!



P M R A N G E

I N T E R N A L C O M B U S T I O N E N G I N E

The GRIN PM range consists of 8 lawn mowers featuring the patented MOWING – NO GRASS BAG – NO WASTE system designed for professional use. Recommended for gardeners, maintainers, cooperatives or demanding private users.

Available with mowing width of 46 and 53 cm, the lawn mowers of the PM range are equipped with a professional traction to adapt to the different mowing conditions. The wheels with GRIP GRIN tread and MAXI rear diameter assure high performance on uneven terrain. The engine protection cone, which offers protection from accidental hits on the blade, is standard. The comfort levers combined with the anti-vibration

covered handlebar grant more comfort during intensive use. Representing the evolution in professional maintenance, GRIN's professional range is able to meet the requirements to reduce costs and shorten maintenance time, always granting standard high mowing quality!

Four engine versions are available:

- Briggs&Stratton 8.50 with starter cord
- Briggs&Stratton 8.50 with electric start
- Honda GCV 200
- Kawasaki FJ180 V KAI with pressure lubrication system for slopes

Granting standard high mowing quality!

H I G H L I G H T S

P M R A N G E



01

PROFESSIONAL TRACTION

Professional with 2 speeds to adapt to different conditions.



02

ENGINE PROTECTION CONE

To minimize impacts on uneven terrain.



03

MAXI GRIP GRIN

To overcome obstacles on uneven terrain.



04

ANTI-VIBRATION HANDLEBAR AND COMFORT LEVERS

For more comfort in case of intensive use.



G R I N P M 4 6 A

Built on the proven **GRIN chassis**, **GRIN PM46A** is equipped with powerful and reliable engines, that are **particularly high-performance in difficult mowing situations such as high, wet or particularly dense grass**. The **2 SPEED professional traction** in oil bath, in aluminum casing, is **reliable and powerful and allows you to adjust the speed according to the conditions of the lawn**. The **innovative GRIN design of the traction, mounted on GRIN suspended axles, enables to increase shock resistance and durability**. **Ideal for professional lawn maintenance**, this machine

is best suited for difficult conditions. **Maintainers who use it are astonished by its ability to pulverise grass**, even in difficult lawns. It is also suitable for less frequent maintenance. **The 46 cm mowing deck makes it maneuverable in tight space or for trimming jobs**. The reinforced construction, the 3 mm thick mowing deck and the standard **ENGINE PROTECTION CONE** allow even the most distracted operator to mow rustic lawns. **The quality of the GRIN mowing system combined with the machine's components assure excellent results on well-maintained lawns**.

<p>ENGINE</p> <p>INTERNAL COMBUSTION ENGINE</p>	<p>RECOMMENDED FOR</p> <p>800-1,200 M²</p>	<p>FOR SLOPES</p> <p>0-30°</p>
<p>MOWING SYSTEM</p>	<p>Patented GRIN mowing system MOWING - NO GRASS BAG - NO WASTE</p>	
<p>MOWING WIDTH</p>	<p>46 cm</p>	
<p>MOWING HEIGHT</p>	<p>4 heights, adjustable with a single quick action lever</p>	
<p>TRACTION</p>	<p>Professional with 2 speeds</p>	
<p>WHEELS</p>	<p>Grip GRIN, steel structure with double ball bearing. Rear wheels with MAXI diameter</p>	
<p>MOWING DECK AND STRUCTURE</p>	<p>Reinforced, powder coated steel</p>	
<p>ENGINE PROTECTION CONE</p>	<p>Standard</p>	
<p>HANDLEBAR</p>	<p>Foldable with quick anti-vibration regulators</p>	

AVAILABLE ENGINES



GRIN PM46A B&S



ENGINE Briggs & Stratton 8.50 professional OHV Ready Start 4-stroke - 190 cc
START Easy starter cord - automatic
WEIGHT 37 kg

[FIND OUT MORE!](#)



GRIN PM46A INSTART



ENGINE Briggs & Stratton 8.50 professional OHV **INSTART with removable battery** 4-stroke - 190 cc
START Electric
WEIGHT 38 kg

[FIND OUT MORE!](#)



ELECTRIC START



GRIN PM46A HD



ENGINE Honda GCV200 - 4-stroke - 201 cc
START Starter cord
WEIGHT 37 kg

[FIND OUT MORE!](#)



LIMITED EDITION



GRIN PM46A KW



ENGINE Kawasaki Fj180V KAI - 4-stroke - with pressurised lubrication to mow on slopes - 179 cc
START Easy starter cord - manual
WEIGHT 45 kg

[FIND OUT MORE!](#)



ENGINE FOR SLOPES > 20°



G R I N P M 5 3 A

Built on the proven GRIN chassis, **GRIN PM53A** is equipped with **powerful and reliable engines**, that are particularly high-performance in difficult mowing situations such as high, wet or particularly dense grass.

The **2 SPEED professional traction** in oil bath, in aluminum casing, is reliable and powerful and allows you to adjust the speed according to the conditions of the lawn. The innovative GRIN design of the traction, mounted on GRIN suspended

axles, enables to increase shock resistance and durability. **Ideal for professional lawn maintenance**, this machine is best suited for difficult conditions. **Maintainers who use it are astonished by its ability to pulverise grass even when on difficult lawns.** It is also suitable for less frequent maintenance. **The 53 cm mowing deck makes it suitable for large spaces, while assuring easy maneuverability even in smaller spaces.**

ENGINE



INTERNAL COMBUSTION ENGINE

RECOMMENDED FOR

1,200-3,000 M²

FOR SLOPES

0-30°

MOWING SYSTEM

Patented GRIN mowing system **MOWING - NO GRASS BAG - NO WASTE**

MOWING WIDTH

53 cm

MOWING HEIGHT

4 heights, adjustable with a single quick action lever

TRACTION

Professional with 2 speeds

WHEELS

Grip GRIN, steel structure with double ball bearing. Rear wheels with **MAXI diameter**

MOWING DECK AND STRUCTURE

Reinforced, powder coated steel

ENGINE PROTECTION CONE

Standard

HANDLEBAR

Foldable with quick **anti-vibration regulators**

AVAILABLE ENGINES



GRIN PM53A B&S



ENGINE Briggs & Stratton 8.50 professional OHV
Ready Start 4-stroke - 190 cc

START Easy starter cord - automatic

WEIGHT 39 kg

[FIND OUT MORE!](#)



GRIN PM53A INSTART



ENGINE Briggs & Stratton 8.50 professional OHV **INSTART**
with removable battery 4-stroke - 190 cc

START Electric

WEIGHT 40 kg

[FIND OUT MORE!](#)



ELECTRIC START



GRIN PM53A HD



ENGINE Honda GCV200 - 4-stroke - 201 cc

START Starter cord

WEIGHT 39 kg

[FIND OUT MORE!](#)



LIMITED EDITION



GRIN PM53A KW



ENGINE Kawasaki Fj180V KAI - 4-stroke - with pressurised
lubrication to mow on slopes - 179 cc

START Easy starter cord - manual

WEIGHT 47 kg

[FIND OUT MORE!](#)



ENGINE FOR SLOPES > 20°



S P M R A N G E

I N T E R N A L C O M B U S T I O N E N G I N E

GRIN SPM53A KW is a 3-wheeled machine, with off-centered engine, ideal for maintenance in tall grass and on slopes. The innovative GRIN HD bridge frame allows to fit the professional KAWASAKI engine off-centre. It is characterized by a high mowing speed, that allows to mow 2,000 m² per hour. The lockable pivoting front wheel, the GRIP GRIN MAXI rear wheels and the excellent weight balance make this machine agile and easy to maneuver in tight space, on

uneven terrain and on slopes. The 3-wheeled structure facilitates mowing near trees or other obstacles. The professional KAWASAKI engine is equipped with a pressurised lubrication system to mow on slopes without facing lubrication problems. Ideal for professional use in tall grass, it is best suited for difficult lawns with different mowing conditions, e.g. from rustic lawn, not often maintained to regularly maintained areas.

Ideal for maintenance in tall grass and on high slopes.

H I G H L I G H T S

S P M R A N G E



01

PIVOTING WHEEL

The front pivoting wheel grants extreme maneuverability in tight spaces and around obstacles. A practical locking system allows to block the wheel in case of necessity. The 3 wheeled structure grants an effective mowing even near trees, allowing the machine to get closer to the trunk compared to a model with 4 wheels.

The rear wheels with maxi diameter have more grip on slopes and help on uneven terrains, reducing the effort of the user while mowing.



02

MOWING IN TALL GRASS

GRIN SPM53A KW is developed to mow in tall grass, still granting an effective result on well-maintained lawns, as well. By adjusting the height of the pivoting front wheel, the grass can easily be fed into the mowing deck. The off-centred engine shifts the weight on the back of the machine, allowing to lift it easily under difficult mowing conditions. The mowing performance is higher thanks to the GRIN HD system and the FJ180V KAI Kawasaki engine specifically developed for this kind of use.



03

MOWING ON SLOPES

The professional Kawasaki engine is equipped with a pressurized lubrication system that allows the user to easily mow on slopes.

The GRIN HD system allows to fit the off-centred engine. This weight distribution makes the machine particularly handy on climbs, on slopes and when maneuvering.



GRIN SPM 53 A KW

<p style="text-align: center; margin: 0;">ENGINE</p> <p style="text-align: center; margin: 0;">INTERNAL COMBUSTION ENGINE</p>	<p style="text-align: center; margin: 0;">RECOMMENDED FOR</p> <p style="text-align: center; margin: 0;">1,200-3,000 M²</p>	<p style="text-align: center; margin: 0;">FOR SLOPES</p> <p style="text-align: center; margin: 0;">0-30°</p>
<p>MOWING SYSTEM</p> <p>MOWING WIDTH</p> <p>MOWING HEIGHT</p> <p>TRACTION</p> <p>WHEELS</p> <p>MOWING DECK AND STRUCTURE</p> <p>ENGINE PROTECTION CONE</p> <p>HANDLEBAR</p> <p>ENGINE</p> <p>START</p> <p>WEIGHT</p>	<p>Patented GRIN mowing system MOWING - NO GRASS BAG - NO WASTE</p> <p>53 cm</p> <p>3 heights, adjustable on the front pivoting wheel</p> <p>Professional with 2 speeds (Higher speed than the PM line)</p> <p>3 wheeled-structure to facilitate mowing near trees. Grip GRIN Maxi rear wheels for greater grip on uneven terrain and front pivoting wheel for greater maneuverability in tight spaces</p> <p>Steel frame with off-centered engine to facilitate maneuverability on slopes</p> <p>Standard, combined with GRIN HD system</p> <p>Foldable with quick anti-vibration regulators</p> <p>Kawasaki Fj180V KAI - 4-stroke - with pressurised lubrication to mow on slopes - 179 cc</p> <p>Easy starter cord - manual</p> <p>59 kg</p>	

Powered by **Kawasaki**

ENGINE FOR SLOPES > 20°



FIND OUT MORE!

LAWNCARE PROFESSIONALS CHOOSE GRIN.

FIND OUT HOW MUCH YOU SAVE WITH A GRIN LAWN MAINTENANCE



THE BEST MOWING SYSTEM WITHOUT GRASS BAG

All the GRIN lawn mowers are designed, produced and assembled with the highest quality standards. GRIN allows a quicker and more profitable maintenance.

- ✓ It pulverises grass very fine
- ✓ The result is perfect both in tall and wet grass
- ✓ It works on all types of lawn
- ✓ It is not necessary to mow more often
- ✓ It is built to last

WOULD YOU LIKE TO TEST GRIN?



100,000 satisfied customers.



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SUMMARY DATA SHEET

MODEL	RECOMMENDED FOR			MOWING WIDTH	WEIGHT	(L x W x H)	(L x W x H)	ENGINE	
	M ²	SLOPE	USER			DIMENSIONS FOLDED	DIMENSIONS IN OPERATION	POWER SOURCE	ENGINE
EM37	0-400	0-10°	HobbyPRO	37 cm	20 kg	820x420 x370	1150x420 x1030	corded electric	Electric 220 Volt Power 1.600 Watt
HM37 B&S	0-400	0-10°	HobbyPRO	37 cm	25 kg	800x420 x420	1250x420 x1000	fuel	Briggs & Stratton 6.75 Ready Start 4-stroke - 163 cc MOW N'STOW
HM46 B&S	400-800	0-10°	HobbyPRO	46 cm	27 kg	800x520 x420	1250x520 x1000	fuel	Briggs & Stratton 6.75 Ready Start 4-stroke - 163 cc MOW N'STOW
HM46 IS	400-800	0-10°	HobbyPRO	46 cm	28 kg	800x520 x420	1250x520 x1000	fuel	Briggs & Stratton 6.75 - INSTART with built-in battery 4-stroke - 163 cc MOW N'STOW
HM46 HD	400-800	0-10°	HobbyPRO	46 cm	29 kg	800x520 x420	1250x520 x1000	fuel	Honda GCV170 4-stroke - 166 cc
HM46A B&S	800-1,200	0-20°	HobbyPRO	46 cm	32 kg	800x520 x420	1250x520 x1000	fuel	Briggs & Stratton 6.75 Ready Start 4-stroke - 163 cc MOW N'STOW
HM46A IS	800-1,200	0-20°	HobbyPRO	46 cm	33 kg	800x520 x420	1250x520 x1000	fuel	Briggs & Stratton 6.75 - INSTART with built-in battery 4-stroke - 163 cc MOW N'STOW
HM46A HD	800-1,200	0-20°	HobbyPRO	46 cm	34 kg	800x520 x420	1250x520 x1000	fuel	Honda GCV170 4-stroke - 166 cc
HM53A B&S	1,200-3,000	0-20°	HobbyPRO	53 cm	34 kg	900x600 x450	1350x600 x1000	fuel	Briggs & Stratton 6.75 Ready Start 4-stroke - 163 cc MOW N'STOW
HM53A IS	1,200-3,000	0-20°	HobbyPRO	53 cm	35 kg	900x600 x450	1350x600 x1000	fuel	Briggs & Stratton 6.75 - INSTART with built-in battery 4-stroke - 163 cc MOW N'STOW
HM53A HD	1,200-3,000	0-20°	HobbyPRO	53 cm	36 kg	900x600 x450	1350x600 x1000	fuel	Honda GCV170 4-stroke - 166 cc
BM37-82V	0-400	0-10°	HobbyPRO	37 cm	23 kg without battery	800x420 x420	1250x520 x1000	battery	Cramer 82V Lithium ION
BM46-82V	400-800	0-10°	HobbyPRO	46 cm	25 kg without battery	800x520 x420	1250x520 x1000	battery	Cramer 82V Lithium ION
BM46A-82V	800-1,200	0-30°	Professional	46 cm	33 kg without battery	800x520 x420	1250x520 x1000	battery	Cramer 82V Lithium ION
BM53A-82V	1,200-3,000	0-30°	Professional	53 cm	35 kg without battery	900x600 x450	1350x600 x1000	battery	Cramer 82V Lithium ION
PM46A B&S	800-1,200	0-20°	Professional	46 cm	37 kg	800x520 x420	1250x520 x1000	fuel	Briggs & Stratton 8.50 professional OHV Ready Start 4-stroke - 190 cc
PM46A IS	800-1,200	0-20°	Professional	46 cm	38 kg	800x520 x420	1250x520 x1000	fuel	Briggs & Stratton 8.50 professional OHV INSTART Removable battery 4-stroke - 190 cc
PM46A HD	800-1,200	0-20°	Professional	46 cm	37 kg	800x520 x420	1250x520 x1000	fuel	Honda GCV200 4-stroke - 201 cc
PM46A KW	800-1,200	0-30°	Professional	46 cm	45 kg	800x520 x420	1250x520 x1000	fuel	Kawasaki Fj180V KAI 4-stroke with pressurised lubrication to mow on slopes - 179 cc
PM53A B&S	1,200-3,000	0-20°	Professional	53 cm	39 kg	900x600 x450	1350x600 x1000	fuel	Briggs & Stratton 8.50 professional OHV Ready Start 4-stroke - 190 cc
PM53A IS	1,200-3,000	0-20°	Professional	53 cm	40 kg	900x600 x450	1350x600 x1000	fuel	Briggs & Stratton 8.50 professional OHV INSTART Removable battery 4-stroke - 190 cc
PM53A HD	1,200-3,000	0-20°	Professional	53 cm	39 kg	900x600 x450	1350x600 x1000	fuel	Honda GCV200 4-stroke - 201 cc
PM53A KW	1,200-3,000	0-30°	Professional	53 cm	47 kg	900x600 x450	1350x600 x1000	fuel	Kawasaki Fj180V KAI 4-stroke with pressurised lubrication to mow on slopes - 179 cc
SPM53A KW	1,200-3,000	0-30°	Professional	53 cm	59 kg	1050x600 x550	1350x600 x1000	fuel	Kawasaki Fj180V KAI 4-stroke with pressurised lubrication to mow on slopes - 179 cc

ENGINE		MOWING HEIGHT			WHEELS					ENGINE PROTECTION CONE
START	VERTICAL STORAGE	REGULATION	MOWING HEIGHTS	MOWING HEIGHTS (mm)	MATERIAL	SLIDING	TREAD	FRONT DIAMETER	REAR DIAMETER	
electric with push button	yes	centralised	4	30-60 mm	steel	double ball bearing	sculpted	151	151	no
starter cord	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	181	optional
starter cord	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	181	optional
electric with push button	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	181	optional
starter cord	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	181	optional
starter cord	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	235	optional
electric with push button	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	235	optional
starter cord	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	235	optional
starter cord	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	235	optional
electric with push button	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	235	optional
starter cord	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	235	optional
electric with push button	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	181	optional
electric with push button	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	181	yes
electric with push button	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
electric with push button	yes	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
starter cord	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
electric with push button	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
starter cord	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
starter cord	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
starter cord	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
electric with push button	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
starter cord	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
starter cord	no	centralised	4	35-70 mm	steel	double ball bearing	Grip GRIN	181	281	yes
starter cord	no	front wheel	3	55-96 mm	steel	double ball bearing	Grip GRIN	181	281	yes

LAWNS
OVER 3,000 M²



INNOVATORS' CHOICE SINCE 2005

04.

For large spaces, **GRIN** has designed a range of innovative and modern machines, combining our unique mowing system without grass bag with an innovative and versatile structure.





X M R A N G E

I N T E R N A L C O M B U S T I O N E N G I N E

XM: The GRIN R-evolution for the **professional maintenance of large green spaces.**

This range of machines combines the **quality of the GRIN mowing system without grass bag** with **mowing decks of 90 cm, 120 cm and 140 cm.**

GRIN MAXI-3 mowing decks allow an effective grass pulverization, even under difficult conditions.

The extreme manoeuvrability is granted by GRIN EASY DRIVE: an innovative, practical, easy to use and to maintain zero-turn driving system.

The **reduced dimensions** make the handling on the lawn and the transport very easy. **The low weight**

implies low operating consumption and minimal soil and turf crushing. The machines of the XM range can be transformed in a few seconds **from lawn mowers into ride-on machines.** This can be done by the user himself thanks to the right accessory and without the need of any tools.



FIND OUT MORE!

Very small dimensions, low weight, low fuel consumption and minimal ground crushing.

GRIN[®]
CHANGE YOUR PERSPECTIVE

XM R-EVOLUTION

PROFESSIONAL MAINTENANCE OF LARGE GREEN SPACES



XMD 90_A



XMD 120_A



XMD 140_A

MAXI-3 MOWING DECK:

The quality of the mowing system without grass bag is granted by 3 separate GRIN mowing decks laid out in a triangle.



01

MOTOR POSITIONING AND WEIGHT BALANCE

The position of the **engine**, directly on the **mowing deck**, provides maximum efficiency and reduces the loss of power, **granting grass pulverization even under difficult conditions**.

The optimized weight balance allows the mowing deck to work under optimal conditions, improving the mowing quality.

04.

LAWNS OVER 3,000 M²



02

QUICK CLEANING.

The cleaning system, equipped with graft for water hose, is integrated into the mowing deck and allows a quick maintenance.



03

ELECTRIC MOWING HEIGHT ADJUSTMENT.

- **Button on the dashboard**, that can also be used with the engine switched off.
- **Micrometric adjustment.**
- **From 25 mm to 115 mm** (measured on tarmac).



XM USER-FRIENDLY

GRIN EASY DRIVE is an innovative Zero-Turn traction.



01

GRIN EASY DRIVE ZERO-TURN TRACTION

GRIN EASY DRIVE is an innovative Zero-Turn traction, that grants:

- **Ease of use**
(easier control of the machine in comparison to the traditional zero-turn levers).
- **Effectiveness** on **slopes**.
- **Respect** of the **soil** and the **turf**.

04.

LAWNS OVER 3,000 M²



02

LOW WEIGHT

Despite the wide mowing decks and the sturdiness of the steel structure, **the weight of GRIN XM is very low.**

Depending on the model, **the weight varies between 180 kg and 215 kg and this allows:**

- **Minimal** soil and turf **crushing.**
- **Maximum** agility.
- **Less fuel** consumption.



03

DIMENSIONS COMPARABLE TO A SMALL LAWNMOWER

GRIN XM is **only app. 140 cm long** and is:

- **Handy** in **tight spaces.**
- **Practical for transport** on vehicles.



3 MACHINES IN 1 THANKS TO THE ON BOARD PLATE

The connection plate that allows different configurations of use.



01

CONNECTION PLATE ON-BOARD

GRIN XM is equipped with the ON-BOARD connection plate for the quick coupling and uncoupling of **two accessories** that allow a **different configuration**.



04.

LAWNS OVER 3,000 M²



02

STAND ON

For the use in lawnmower mode with **STANDING MAN ON BOARD.**



03

RIDE ON

For the use in lawnmower mode with **SEATED MAN ON BOARD.**

IMPORTANT

The configuration can be changed by the user himself in a few seconds and without any tools.

STAND ON



01

STAND ON

It is an accessory that allows to use XM in the **STANDING MAN ON BOARD** version.

STAND-ON allows the operator to have a position on the machine that grants: **better view** of the mowing area, **more safety**, in case of having to quit the machine, **compact dimension** and **higher performance** on slopes.



RIDE ON



01

RIDE ON

It is an accessory that allows to use XM in the **SEATED MAN ON BOARD** version.

RIDE-ON offers a comfortable seat to the operator, even in intensive use, thanks to: coupling joint with **piston shock absorber**, **comfort seat** with high quality padding and **spring cushioned seat**.

The advantages of **RIDE-ON** are: **safety** for the operator, **adaptability and maneuverability** in tight spaces, **optimal weight distribution** with **low rate of soil crushing** and **more grip** on slopes.





XM TECHNICAL SPECIFICATIONS

ENGINE



INTERNAL COMBUSTION ENGINE

RECOMMENDED FOR

OVER 3,000 M²

MOWING SYSTEM	Patented GRIN mowing system MOWING – NO GRASS BAG – NO WASTE
MOWING HEIGHT	Electric adjustment, from 25 mm to 115 mm, countless positions in between
MOWING DECK	GRIN MAXI 3: three GRIN mowing decks
ENGINE PROTECTION CONE	Standard
TRACTION	GRIN EASY DRIVE: easy handling zero-turn drive
WHEELS	Front: Flat full wheel 209x76 - Rear: Garden wheel 13x5.00-6
ENGINE	Briggs & Stratton 4175EX - 500 cc
TANK CAPACITY	8 lt
START	Electric





XMD 90.

MOWING WIDTH
90 cm
WEIGHT
180 Kg
M ² /H
5,200 M ² /H
DIMENSIONS (L x W x H) (Open handlebar - High deck)
139 x 96 x 116 cm



XMD 120.

MOWING WIDTH
120 cm
WEIGHT
200 Kg
M ² /H
7,000 M ² /H
DIMENSIONS (L x W x H) (Open handlebar - High deck)
145 x 126 x 116 cm



XMD 140.

MOWING WIDTH
140 cm
WEIGHT
215 Kg
M ² /H
8,100 M ² /H
DIMENSIONS (L x W x H) (Open handlebar - High deck)
145 x 146 x 116 cm

PRUNING SHREDDING WITH GRIN



INNOVATORS' CHOICE SINCE 2005



BIOCH

05.

Cutting speed and cutting quality are the heart of all machines of the **BIOCH range**. Innovative solutions are combined with **high-quality MADE IN ITALY manufacturing**.





B I O C H R A N G E

I N T E R N A L C O M B U S T I O N E N G I N E

The **BIOCH** range consists of shredders for demanding domestic and commercial users, looking for **high-quality products** equipped with a cutting system capable of **quickly and efficiently processing any type of pruning**. GRIN shredders are available for **diameters ranging from 50 mm up to 150 mm** and, depending on the model, **they can be moved manually, on tracks or on trailer**. Each machine, depending on its intended use,

adopts a specific cutting system.

Special attention has been paid to loading hoppers, that enable the user to work quickly and in a comfortable way.

The steel structure **grants the reliability and the durability** of these products. Each component was developed **to grant the highest user convenience and security.**

The quality of chipping is ensured by the GRIN cutting systems.

BIOCH RANGE

IN ANY CONDITIONS A PERFECT CHIPPING



BIOCH50



BIOCH70



BIOCH100



BIOCH120



BIOCH150



B I O C H 5 0

GRIN BIOCH50 is the ideal shredder for demanding private users that need to **chop the pruning of hedges, orchards and vegetable gardens up to diameters of 50-55 mm**. Built on a robust steel frame, it is equipped with the powerful and reliable **Briggs & Stratton XR PROFESSIONAL Series, 208 cc engine with electric starter**.

The GRIN chopping system with a 280 mm disk, with 2 blades and 8 flails, allows you to finely and quickly process all kind of pruning to transform

it into **excellent chippings for your garden**. The **steel structure grants durability and performance** even by intensive use and it is developed to be very handy thanks to the **big GRIP GRIN run flat wheels** and the practical transport handle.

The feed hopper is equipped with a quick opening to clean the cutting system and for an **easy transport even by car**. The wide and high hopper allows the operator to **load a good quantity of material in complete safety**.

ENGINE

 INTERNAL COMBUSTION ENGINE

DIAMETER

50 mm

RECOMMENDED FOR CHOPPING

Pruning of hedges, orchards and vegetable gardens



CUTTING SYSTEM

GRIN cutting system with **6 mm thick disk and diameter of 280 mm, with 2 blades and 8 flails**

BLADES

100 mm in high strength, hardened steel

WHEELS

GRIP GRIN run flat tires, in steel and with double ball bearing and **MAXI diameter**

STRUCTURE

Powder coated steel

ENGINE

Briggs & Stratton XR Professional 4-stroke, 208 cc engine

START

Electric (with starter cord, if required)

WEIGHT

71 Kg

DISCHARGE SYSTEM

Fixed - in steel

HOPPER

Quick opening system for cleaning and transport

TRANSMISSION

V-belt

HOURLY OUTPUT

2 - 3 cubic meters per hour depending on the processed material



ELECTRIC START



FIND OUT MORE!



BIOCH70

GRIN BIOCH70 is the ideal shredder for gardeners, farmers and demanding private users who need a powerful machine with compact dimensions and low weight to **chop pruning up to diameters of 70-75 mm, also suitable for fibrous wood such as olive trees and palms**. Build on a robust steel frame, it is equipped with the powerful and reliable **Briggs & Stratton XR 1450 Series, 306 cc engine** with electric starter. The GRIN chopping system with a 340 mm disk, with 2 blades and 12 flails, allows you to finely and **quickly process all kind of pruning, even the most fibrous one,**

and transform it into **excellent chippings**. The **steel structure grants durability and performance** even by intensive use and it is developed to be very handy thanks to the **big GRIP GRIN run flat wheels** and the practical transport handle. The wide and high hopper allows the loading of a **good quantity of material and the safety of the user**. The **270° swiveling discharge** chute with quick adjustable system is **very wide and allows you to discharge the processed material directly** onto a van or a trailer.

ENGINE

INTERNAL COMBUSTION ENGINE

DIAMETER

70 mm

RECOMMENDED FOR CHOPPING

Pruning of wood with many leaves (also olive trees and palms)



CUTTING SYSTEM

GRIN cutting system with **10 mm thick disk and diameter of 340 mm, with 2 blades and 12 flails**

BLADES

150 mm in high strength, hardened steel

WHEELS

GRIP GRIN run flat tires, in steel and with double ball bearing and **MAXI diameter**

STRUCTURE

Powder coated steel

ENGINE

Briggs & Stratton XR 1450 4-stroke, 306 cc engine

START

Electric (with starter cord, if required)

WEIGHT

135 kg

DISCHARGE SYSTEM

Swiveling at 270° with quick adjustable system - in steel

HOPPER

Removable

TRANSMISSION

Double V-belt

HOURLY OUTPUT

4 - 6 cubic meters per hour depending on the processed material



ELECTRIC START



FIND OUT MORE!



B I O C H 1 0 0 D R I V E

S E L F - P R O P E L L E D W I T H D R I V E W H E E L S

GRIN BIOCH100 DRIVE is the ideal shredder for pruning experts who need a machine suitable for all types of pruning, **powerful and rapid in shredding**, but also with **compact dimensions for an easy and safe handling**. BIOCH100 DRIVE is equipped with a **hydraulic loading roller** with adjustable speed and an **antistress PRO system**, that adjusts the loading of the material to be processed and allows different settings depending on the material type. The heart and innovation of BIOCH100 DRIVE is the **GRIN ULTRA CUT system**, a cutting system with closed cylindrical cutterhead that **allows to**

maximize the power of the Vanguard engine while also minimizing its consumption.

The working speed and the high-quality chipping are much appreciated. The DRIVE version, **self-propelled with drive wheels**, allows an easy handling without damaging the lawn.

The compact dimensions, **only 79 cm wide**, allow the machine to be easily driven in tight spaces as through garden gates.

Once the adjustable discharge chute is folded, BIOCH100 DRIVE **can be safely loaded even on trucks of small dimensions.**



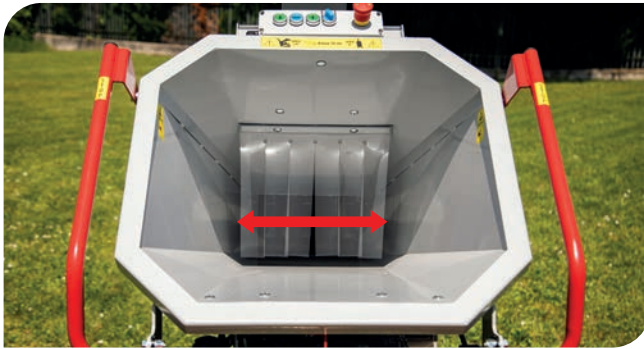
100,000 satisfied customers.



WATCH THE VIDEO OF
BIOCH100 DRIVE
AT WORK

EASY AND FAST MATERIAL LOADING

The hydraulic loading roller and the antistress PRO system grant maximum speed and automatic loading adjustment.

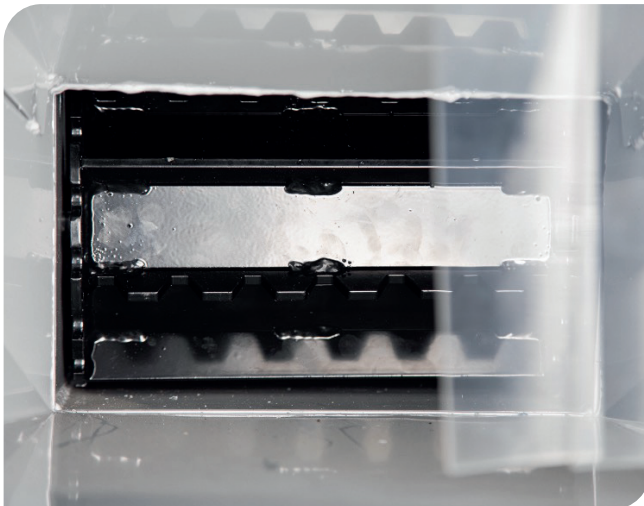


01

COMPACT HOPPER WITH MAXI INLET

A convenient and large hopper allows the loading of bulky and leafy material.

Entering the shredding system, the branches pass through a **30 cm wide inlet**, that allows an **extreme working speed**.



02

HYDRAULIC LOADING ROLLER WITH ADJUSTABLE SPEED

The toothed loading roller allows the **transport of the material** from the hopper into the GRIN shredding system. The roller is made of **very resistant steel** and powered by a **high-performance hydraulic pump**. An external control allows you to change the **speed in order to adjust the amount of material to be processed** according to the type.



03

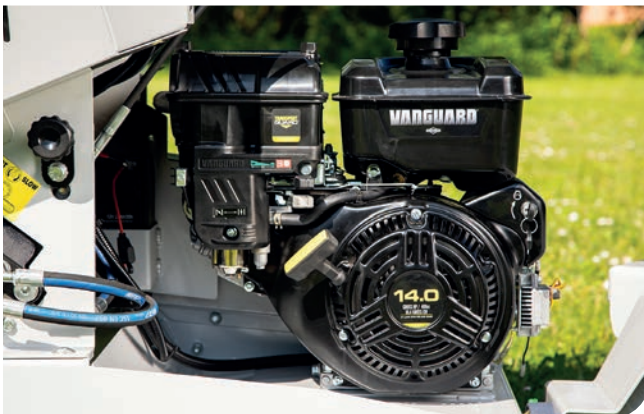
GRIN ANTISTRESS PRO SYSTEM

The movement of the roller is regulated by the GRIN ANTISTRESS PRO system: **it automatically manages the backward movement of the roller**, allowing the material to move backward for a few centimeters and then resume the chopping process a few seconds later.

This electronic control is essential to **maintain a high working speed** even when the machine is overloaded. The GRIN ANTISTRESS PRO system also allows **3 different settings depending on the material that is going to be processed**.

GRIN ULTRACUT cutting system

Incredible shredding power along with maximum consumption efficiency.



01

GRIN ULTRACUT CUTTING SYSTEM

The **GRIN ULTRACUT cutting system is the heart of the machine.** It consists of a set of knives placed on a **closed cylindrical cutterhead.**

On the outer part, some radial blades are designed to generate the airflow needed to eject the processed material.

The **GRIN ULTRACUT** cutterhead:

- Takes full advantage of the engine power.
- Decreases clogging caused by overloading.
- Reduces the consumption of the machine.
- Guarantees incredible working speed.

EASY MAINTENANCE

Thanks to the possibility of completely open the machine in a few seconds.



01

OPENING FLAP FOR MAINTENANCE

It only takes a few seconds to open the GRIN BIOCH100 DRIVE flap that allows you to access the heart of the machine and quickly perform ordinary and extraordinary maintenance. Thanks to this system the operator has access to the cutting apparatus for blades maintenance but also to the counter-blade for adjustments. Moreover, it is possible to clean it in a fast, comfortable and safe way.



REDUCED DIMENSIONS

Only 79 cm wide to be handy
in tight spaces.



01

79 CM TO ACCESS ALL GARDENS

The dimensions of BIOCH100 DRIVE allow the machine **to access all gardens**.

Only 79 cm wide; it is easy to **pass through pedestrian gates or tight spaces**, driving the machine to the pruning area.



02

SPACE-SAVING TRANSPORT

Folding the discharge chute with a quick command and thanks to its dimensions of **185 L x 79 W x 150 H cm** (with folded discharge chute), **GRIN BIOCH100 DRIVE can also be loaded on small vans or save space on bigger trucks**.



SELF-PROPELLED WITH DRIVE WHEELS

To respect the turf but also be confident on slopes and uneven terrain.



01

DRIVE TRACTOR WHEELS

The **tractor wheels** of BIOCH100 DRIVE are equipped with hydraulic engines.

The operator can start the self-propelled unit with **two levers placed under the hopper** that engage the forward or the reverse gear.

Compared to shredders with tracks, **the wheels are gentler on lawn** but allow anyway a good performance on slopes.



02

PIVOTING WHEELS WITH SWINGING BRACKET


Thanks to the pivoting wheels, it is possible to move the machine easily.

They are mounted on a **swinging bracket to adapt to the uneven terrain and increase safety and effectiveness in traction.**

A lock allows to **fix the movement of the pivoting wheel during transport** or loading onto the van.



BIOCH 100 DRIVE

ENGINE	DIAMETER	RECOMMENDED FOR CHOPPING
 INTERNAL COMBUSTION ENGINE	100 mm	Any kind of pruning
CUTTING SYSTEM	GRIN ULTRA CUT system with closed cutterhead	
HOPPER	Compact hopper with maxi inlet	
LOADING ROLLER	Hydraulic steel toothed loading roller with adjustable speed and anti-stress PRO control unit	
DISCHARGE SYSTEM	Swiveling at 270° - adjustable deflector - discharge height 197 cm - foldable without tools	
HANDLING	Self-propelled drive wheels	
ENGINE	VANGUARD Briggs & Stratton 14 HP - 408 cc - integrated tank	
START	Electric (with starter cord, if required)	
SIZE IN CM	In action: 240 L X 79 W x 197 H - Transport: 185 L x 79 W x 150 H	
WEIGHT	411 Kg	
HOURLY OUTPUT	10-15 m³/h	



ELECTRIC START



FIND OUT MORE!



B I O C H 1 2 0

W I T H H Y D R A U L I C T R A C K S
O R O N R O A D T R A I L E R

GRIN BIOCH120 is the ideal shredder for pruning experts: gardeners, farmers and hirers.

It quickly chops branches up to 120 mm diameters, producing a **high-quality chipping**: very fine and uniform. **The long and wide hopper allows the introduction of long, leafy branches that do not need to be processed** and brought to size before being introduced into the cutting system. This greatly speeds up loading operations. During transport and handling, **the hopper can be folded down reducing its dimensions. It is equipped with the powerful V-Twin engine 23 HP Vanguard, Briggs & Stratton, with electric start. The working speed is remarkable, and the branches are introduced thanks**

to a hydraulic roller with adjustable speed.

An anti-stress control unit helps the operator to control the volume of material introduced, preventing the clogging of the cutting system. The GRIN chopping system consists of a 4 blade cutterhead and it is very effective even with leafy pruning or difficult pruning such as palm, olive and bamboo trees.

The power and quality of the engine, combined with the MADE IN ITALY construction with high quality materials, grant low operating and maintenance costs as well as increased durability, even by intensive use.

BIOCH120 IS AVAILABLE IN TWO VERSIONS



ROAD



On road trailer, that allows for safe road transportation.

The compact road trailer, combined with a low weight and reduced dimensions, ensure an exceptional handling.

CROSS



With hydraulic tracks that grant an easy and safe handling of BIOCH120 even on uneven terrain.

Exceptional stability and handling are ensured by the low centre of gravity.



100,000 satisfied customers.



WATCH THE VIDEO OF
BIOCH120 ROAD
AT WORK



WATCH THE VIDEO OF
BIOCH120 CROSS
AT WORK

LONG AND WIDE HOPPER

To simplify the loading of long, leafy branches, speeding up the operator's work.



01

MAXI HOPPER

The GRIN BIOCH120 hopper has a **very wide inlet (96 x 43 cm)** to allow the operator to easily introduce material. It can be **easily folded in two points** for space-saving transportation.

On the hopper there are the **emergency button**, the machine **restart button** and the **commands to reverse the direction of the loading roller**.



02

WIDE CUTTING SYSTEM INLET

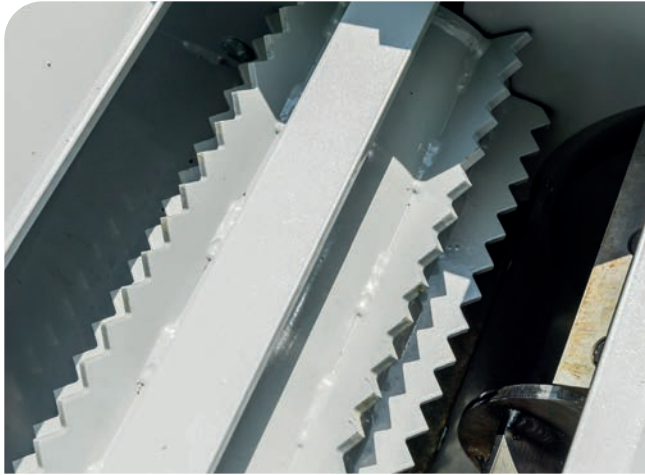
Once loaded, the material passes through the lower part of the hopper before entering the shredding system.

Once again, the generous dimensions (33.5 x 32 cm) make the introduction of particularly leafy material very easy.

In this way, even the most difficult pruning are quickly shredded by GRIN BIOCH120 with a **significant reduction in working time.**

05.

PRUNING SHREDDING WITH GRIN



03

HYDRAULIC LOADING ROLLER WITH ADJUSTABLE SPEED

The toothed loading roller allows the **transport of the material** from the hopper into the GRIN shredding system. The roller is made of **very resistant steel** and powered by a **high-performance hydraulic pump**.

An external control allows you to change the **speed in order to adjust the amount of material to be processed** according to the type.



04

STANDARD ANTISTRESS SYSTEM

The **ANTISTRESS system** consists of a **control unit that detects the engine effort** and transmits information to the loading roller. In this way, **the loading speed is optimized** in case of material hard to process. The ANTISTRESS control unit doubles as an **hour counter** to register the actual use of the machine.

GREAT SHREDDING CAPACITY

On all types of pruning. Capable of producing very fine wood chips while avoiding clogging.



01

GRIN CUTTERHEAD SYSTEM WITH 4 KNIVES AND RADIAL BLADES

The heart of BIOCH120 is the **GRIN cutterhead system, that weighs 50 kg.**

This system is equipped with **four heavy-duty, hardened steel knives** that grant finely cut material. The **radial blades**, placed inside the cutterhead, can produce **a strong air flow** that has the dual task of:

- **Quickly ejecting material** once processed from the cutterhead to avoid clogging and speed up work.
- **Pushing the material** out of the discharge system to avoid clogging even when it is wet and/or fibrous.



02

A FLAP FOR QUICK MAINTENANCE

A flap allows the inspection of the cutterhead (and the roller) for cleaning or maintaining the cutting blades.

The bearings dedicated to transport have a cast-iron support with grease nipple.

05.

PRUNING SHREDDING WITH GRIN



03

SHREDDING: UP TO 120 MM

GRIN BIOCH120 is suitable to chop pruning up to **120 mm diameters**. The **high-quality chipping is uniform**, ideal for reuse without any further processing.

The transmission is granted by a double toothed belt with centrifugal clutch.



04

CUTTING OF DRY, GREEN AND FIBROUS WOOD

Optimal performances even with **difficult and fibrous pruning such as palm or olive trees**. The shredding system, combined with the power of the **Briggs & Stratton VANGUARD 627 CC 23HP two-cylinder engine**, does not fail even with the most difficult material.

The engine start is electric, but also corded if required. The integrated 8.5 L tank allows you to work without interruption over a long period.

ON ROAD TRAILER

Lightweight and small in size to move on the road with small dimensions and low weight.



01

BIOCH120 ROAD

BIOCH120 ROAD is light and compact. Therefore, **it's suitable for moving on the road due to its reduced dimensions and low weight. The weight of 500 kg is low, even if the construction is very solid and the machine can be transported with a B driving license. The position of the engine has been developed to shift the center of gravity downwards in order to increase stability:**

- During road transport
- For "manual" handling



WITH HYDRAULIC TRACKS

Combined with the folding hopper to take up little space, it allows safe handling.



01

HYDRAULIC TRACKS

BIOCH120 can be easily moved thanks to **two hydraulic tracks** developed for this specific application. The hydraulic handling is possible thanks to two levers on the dashboard that grant **smooth movements on lawns** but are, at the same time, **effective on uneven terrain** and wood areas. BIOCH120 has a **driving speed of 2.5 km/h** and is **effective on slopes up to 37%**. The tracks are 105 cm long and the track width is 90 cm. Compared to other shredders, the length and track width are very wide, increasing in this way stability and safety.



02

REDUCED DIMENSIONS AND LOW WEIGHT

BIOCH120 is **only 109 cm wide and approximately 174 cm long when the hopper is folded** (290 cm with open hopper). These dimensions are very compact for this machine type and **allow you to transport BIOCH120 even on the smallest trucks**.

It is also possible to store the machine in a small space. The weight of 550 kg is low, even if the construction is very solid.




03

SINGLE ENGINE TO SHIFT THE CENTER OF GRAVITY DOWNWARDS, INCREASE STABILITY AND DRIVING SENSIBILITY

The single 627 cc Briggs & Stratton VANGUARD engine serves both for handling and for operating the cutting system. The position of the engine is developed to **shift the center of gravity downwards in order to increase stability** to: avoid **overturning** and improve **driving sensibility**. The single engine also optimizes consumption and maintenance of the machine.



BIOCH 120 ROAD

ENGINE	DIAMETER	RECOMMENDED FOR CHOPPING
 INTERNAL COMBUSTION ENGINE	120 mm	Any kind of pruning
CUTTING SYSTEM	GRIN cutterhead system with 4 hardened steel blades	
HOPPER	Maxi Hopper 96 cm - foldable in 2 places	
LOADING ROLLER	Hydraulic steel toothed roller with adjustable speed and ANTI-stress control unit	
DISCHARGE SYSTEM	Swiveling at 270° - adjustable deflector - discharge height 195 cm	
HANDLING	Road trailer - B driving license	
ENGINE	VANGUARD Briggs & Stratton 23 HP - V-Twin 627 cc - integrated tank 8,5 lt.	
START	Electric (with starter cord, if required)	
SIZE IN CM	In action: 350 L x 144 W x 206 H - Transport: 260 L x 144 W x 206 H	
WEIGHT	500 Kg	
HOURLY OUTPUT	10-15 m ³ /h	




ELECTRIC START



FIND OUT MORE!



BIOCH 120 CROSS

ENGINE	DIAMETER	RECOMMENDED FOR CHOPPING
 INTERNAL COMBUSTION ENGINE	120 mm	Any kind of pruning
CUTTING SYSTEM	GRIN cutterhead system with 4 hardened steel blades	
HOPPER	Maxi Hopper 96 cm - foldable in 2 places	
LOADING ROLLER	Hydraulic steel toothed roller with adjustable speed and ANTI-stress control unit	
DISCHARGE SYSTEM	Swiveling at 270° - adjustable deflector - discharge height 195 cm	
HANDLING	Hydraulic tracks (Length 105 cm - Width 90 cm)	
ENGINE	VANGUARD Briggs & Stratton 23 HP - V-Twin 627 cc - integrated tank 8,5 lt.	
START	Electric (with starter cord, if required)	
SIZE IN CM	In action: 290 L x 109 W x 196 H - Transport: 175 L x 109 W x 150 H	
WEIGHT	550 Kg	
HOURLY OUTPUT	10-15 m ³ /h	



ELECTRIC START



FIND OUT MORE!



B I O C H 1 5 0 R O A D

O N R O A D T R A I L E R

GRIN BIOCH150 is the **ideal shredder for pruning experts: gardeners, arboriculturists, woodcutters and farmers.** It chops effectively **branches up to a diameter of 150 mm.** It doesn't fear branches with forks and allows an incredible working speed.

The hopper has significant dimensions and is positioned at an optimal height from the ground to simplify loading operations. The wide opening of the hydraulic loading roller area **allows a lot of material to be loaded at once,** decreasing down-time while in service. The **ANTistress PRO control unit** communicates with the 2 loading rollers,

making them automatically retract when the machine is under stress. Depending on the material loaded, the operator can choose three different settings. The heart of the machine is the **GRIN ULTRA CUT cutting system designed to maximize the power of the V-Twin 22 HP Honda engine while also minimizing its consumption.** It is equipped with **knives placed on removable inserts** that allow you to sharpen or replace the knives quickly. The inserts allow you to adjust the positioning of the knives, compared to the counter knife, in a very easy way.



Ideal shredder for pruning experts: gardeners, arboriculturists, woodcutters and farmers.

Each component is designed to increase the life and the efficiency of the machine and to ensure the safety of the operator. BIOCH150 can be

transported on the road with a standard car driving license and is comfortable and easy to handle.



100,000 satisfied customers.



WATCH THE VIDEO OF
BIOCH150 ROAD
AT WORK

MAXI HOPPER

A large hopper, positioned at a comfortable height from the ground, allows you to work quickly in comfort and safety.



01

MAXI HOPPER

The hopper of BIOCH150 is one of the largest on the market. Thanks to its 1200 mm inlet, it's possible to load even very leafy branches. Loading is done through **two maxi-sized hydraulic rollers**: the 420 mm width of the loading inlet **allows even branches with forks to be processed without interrupting work.**

Furthermore, **a large amount of material** can be introduced into the cutting system at the same time to increase productivity.

Two operators can load the material without hindering each other or without clogging the machine.

The hopper's height from the ground of about 700 mm allows the operator to introduce the branches without having to raise them too high off the ground, working in a perfectly ergonomic position.

DOUBLE HYDRAULIC ROLLER

Regulated by the
GRIN ANTISTRESS PRO system.



01

DOUBLE HYDRAULIC ROLLER

The **double hydraulic loading roller**, with variable speed, is made of especially resistant materials to process even the hardest wood. **Branches with forks, particularly long branches, significant amounts of branches or hedges** are dragged by the force of the two rollers.



02

GRIN ANTISTRESS PRO SYSTEM

The movement of the rollers is regulated by the **GRIN ANTISTRESS PRO system: it automatically manages the backward movement of the rollers**, allowing the material to move backward for a few centimeters and then resume the chopping process a few seconds later. **This electronic control is essential to maintain a high working speed even when the machine is overloaded.**

The GRIN ANTISTRESS PRO system also allows 3 different settings **depending on the material that is going to be processed.**

GRIN ULTRACUT cutting system

Incredible shredding power along with maximum consumption efficiency.



01

GRIN ULTRACUT CUTTING SYSTEM

The **GRIN ULTRACUT cutting system is the heart of the machine.** It consists of a set of knives placed on a **closed cylindrical cutterhead.**

On the outer part, some radial blades are designed to generate the airflow needed to eject the processed material.

The **GRIN ULTRACUT** cutterhead:

- **Takes full advantage of the engine power.**
- **Decreases clogging** caused by overloading.
- **Reduces the consumption** of the machine.
- **Guarantees incredible working speed.**



KNIVES INSERTS

To speed up maintenance operations and facilitate correct knives positioning.

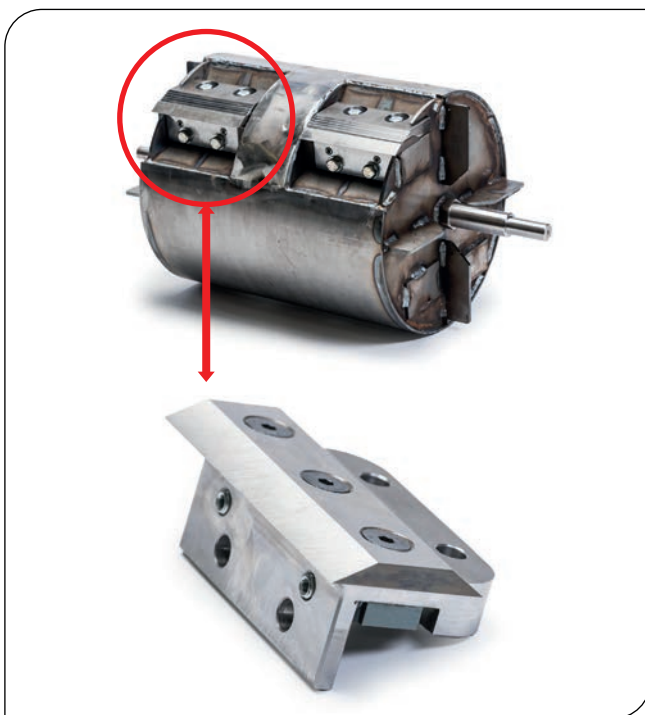


01

OPENABLE DISCHARGE CHUTE

It only takes a **few seconds to access the cutting apparatus** and perform maintenance such as changing knives.

The operator can rely on a **large access area**, positioned to work effectively and safely.



02

REMOVABLE KNIVES INSERTS

The knives are not simply screwed to the cutterhead but are placed on **removable inserts**. These inserts enable:

- **A fast replacement of knives** that avoids downtime
- **A perfect and precise adjustment between knife and counter-knife** that ensures perfect shredding even after many years of use.

The operator can also **have spare inserts to change knives** in few seconds and directly on site.

DISCHARGE CHUTE

Adjustable and foldable for transportation.



01

DISCHARGE CHUTE

Material is ejected through an **adjustable discharge chute**, swiveling at **270 degrees** with a quick lever.

The height of the discharge chute, **2,350 mm** from the ground, **makes it possible to load wood chips even into the highest van levels**. While, thanks to the deflector, it is possible to direct the flow of material.

The last part of the discharge chute folds down with a quick, tool-free command for transport when hauling the machine.



BIOCH 150 ROAD

ENGINE



INTERNAL COMBUSTION ENGINE

DIAMETER

150 mm

RECOMMENDED FOR CHOPPING

Any kind of pruning

CUTTING SYSTEM	GRIN ULTRA CUT system with a closed cutterhead and removable knives inserts
HOPPER	Maxi hopper 1,200 x 1,200 mm - 700 mm h from the ground
LOADING ROLLER	Hydraulique double steel toothed loading roller with adjustable speed and anti-stress PRO control unit
DISCHARGE SYSTEM	Swiveling at 270° - adjustable deflector - discharge height 235 cm foldable without tools
HANDLING	Road trailer - B driving license
ENGINE	V-Twin HONDA GX690 - 22 HP
START	Electric
SIZE IN CM	In action: 356 L x 166 W x 235 H - Transport: 303 L x 166 W x 187 H
WEIGHT	730 Kg
HOURLY OUTPUT	15-20 m ³ /h

POWERED by
HONDA

ELECTRIC START



FIND OUT MORE!

**GRIN IS
ALWAYS BY
YOUR SIDE**



INNOVATORS' CHOICE SINCE 2005



06.

The **GRIN** project started in **2005** has grown and developed in the main **European markets**.





THE GRIN COMPANY

GRIN srl was founded in 2005 around the patented mowing system: MOWING – NO GRASS BAG - NO WASTE. With headquarters in La Valletta Brianza, Lecco province, famous for the mechanical engineering industry, GRIN srl has grown thanks to the passion and years of expertise within the lawn mowing sector. **The first years were dedicated to the development of a highly innovative range of lawn mowers produced in Italy.** Innovation and quality are the groundstones of GRIN philosophy. Therefore, the company itself carries out all

development steps, the production and the assembly. **Over 95% of the components are MADE IN ITALY and most of them are produced directly by GRIN.** During these years, the GRIN project has grown and developed in the main **European markets.** This led to the opening of the branch **GRIN FRANCE in La Verpillière**, near Lyon, and to the launch of the countries **BELGIUM and the NETHERLANDS**, as well as many collaborations with international distributors.

Innovation and quality, GRIN it's made in Italy.

C O N T A C T S

HEADQUARTER and BRANCH



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