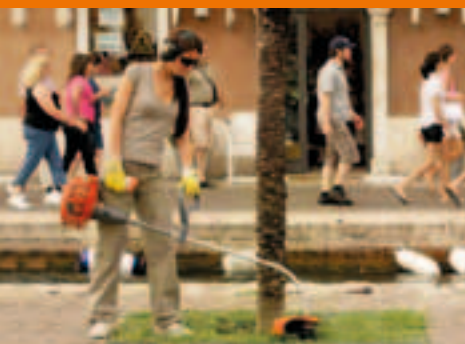




# Product Catalogue 2010



our power, your passion







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## Symbols



### Home-plus

A range of machines aimed at the home user. Easy to start, easy to use, easy to maintain: these are the ideal tools for getting things done quickly and neatly around the home.



### Easy-on

User-friendly starting system ensures a smooth pick-up of the engine with no kickback, and limits the number of pulls required.



### SRS Safety Release System

Innovative quick release system allowing the operator to step away from the machine in an instant, for maximum protection and safety.



### Tough-tech

Solid and dependable, these are machines designed for heavy and frequent use. Designed adopting solutions certain to ensure high work rates and maximum durability over time.



### Plus Cut

Multifunction lawnmowers with collection or mulching system.



### Original accessories and spare parts

Quality mark identifying original Emak spare parts and accessories.



### Sharp-pro

No-nonsense everyday tools for the busy professional, these are machines that stand out for the toughness of their components, their high performance and their matchless long-term durability.



### Vib Cut

An antivibration system that isolates the engine from the handles and the body of the machine, so as to guarantee maximum comfort and easy handling.



### Rev&Go

Patented quick-fit mechanism for Multimate which enables the operator to switch from one implement to another within seconds, without the need for tools.





## *Pruning trees*

The beauty of a garden is reflected primarily in the show of **flourishing, healthy plants** it contains. Be they evergreen or deciduous, fruit-bearing or ornamental, trees are a fundamental feature, whether of large landscaped areas and parks or small town gardens, as they generate perspective depth, **create intimate and inviting corners**, and give shade in summer. **Trees and plants need to be tended carefully and treated continuously**; so here are a few thoughts on the more important operations involved in ensuring they are properly looked after.

### *Why, how and when to prune?*

There are several reasons why trees and plants need pruning: **to check excessive growth**; **to control the development of grafted plants** (fruit-bearing or ornamental); **to promote flowering or fruiting**; **to give new life to ageing or weakened plants**; **to clear away dead branches that have died off or are growing irregularly**, and thus control the shape of the plant; **to correct imbalances** caused by previous pruning; and **to favour the outcome** of a transplantation, reducing leaf transpiration.

Pruning requires skill and patience; it is important to keep **the harmony and growth of the tree in mind**, avoiding injudicious and harmful actions such as indiscriminate cutting. Pruning must be done at the proper time and in proper proportion – according to



the type of plant – but equally, using **the right technique**: in effect, the cut should be clean and made obliquely, near to a bud or a knot, preferably on branches of smaller rather than large diameter.

### *Select the most suitable machine*

The use of **suitable pruning equipment** will help to ensure that plants grow in the proper way and make them easier to look after. Selection of the best tool is evaluated on the basis of individual needs and preferences, taking the advice of experts.

Pruning operations can be done using **chain saws and pruners**: the market offers a wide variety of chain saws to cater for the different requirements of users everywhere. Anyone with a small garden can use one of these machines simply for **pruning the thicker branches of trees**, but if there happens to be a fireplace in the home, a chainsaw will also be handy for **chopping up logs**. The same goes for pruners: small pruning chain saws that can be used to cut branches **located high up and not easily accessible**.





### **Care of hedges and collection of leaves**

Hedges help to increase the amount of green that meets the eye. They have a significant influence on the **personality of a garden**, not least as they can be fashioned into attractive and original shapes.

Essential operations in any maintenance programme include **periodic thinning out of unduly dense growth**, so that air can circulate at the centre of the foliage and strengthen the base of the plant; also **keeping the outer surface compact** by frequently trimming new growth, being careful at the same time not to take too much off and open up unsightly and “holes” that can be harmful to the plant; and **removing dry or damaged growth**, especially in spring and autumn.



### **Growing and keeping a luxuriant hedge**

Before planting a hedge, care must be taken to plot the position of trees or shrubs so as to ensure compliance with **legal constraints** and with any pertinent **local regulations**. The best time to plant a hedge is between the **beginning of autumn and the beginning of spring**. To cultivate a **full hedge** of the **desired shape**, the single bushes or shrubs must be planted **close together**, and it will be necessary to **trim** the topmost branches from the **second year** of growth onwards, so as to encourage the growth of buds on the lower branches. To achieve satisfying results and work in safety, these are jobs that need to be done using the right machines. The **hedge trimmer** is designed for accuracy; it offers the kind of **clean and sharp cut** needed in order to obtain the desired visual effect and safeguard the health of the plant.



### **Cleaning up leaves and other debris**

**Lawns and paths can be kept clear** of leaves, twigs and all kinds of debris using **blowers and vacuum cleaners**, offered in **hand-held** and **backpack** versions.

From appliances available currently on the market, users can find the **technological solution** best able to meet their particular operating requirements. These are **specific-purpose machines**, **easy to handle**, that will get the **job done simply, swiftly and quietly**. Certain models of blower, generally with an internal combustion engine, can be **converted easily to operate as vacuum cleaners by fitting a special collection kit**, with a blade by which vacuumed material is chopped up to reduce the volume when inside the bag. They can also be equipped with anti-vibration systems that isolate the engine from the handgrips and the body of the machine, **significantly reducing the level of vibration** transmitted to the operator when in use.



A complete range of items for home and professional users alike. Tools for DIY projects, cutting up firewood, pruning, tree-felling.

**Quality, dependable performance, simplicity of use and maintenance:** winning features offered by a family of products designed with the practical needs of users in mind, and developed applying the very latest technological solutions.

## *Proper maintenance of chain saws and pruners*

- After every 8-10 hours of operation, remove the cover and clean the **air filter**, replace if damaged or excessively soiled.
- Check the condition of the **fuel filter** periodically.
- Clean the **cylinder fins** periodically by brushing, or blasting with compressed air.
- Inspect and clean the **spark plug** periodically.
- Check the **electrode gap** periodically.
- After every 30 hours of operation, remove the screw on the bevel drive and check the **grease level** (pruner).
- Check and, if necessary, replace the **chain safety stop** (chain saw).
- Turn the guide bar and make sure that the **lubrication holes** are free from impurities (chain saw).



## *Guide to chain saw and pruner selection*

For general tasks in and around the home, such as cutting up firewood, light pruning or small DIY building jobs, an **electric chain saw** is just the job. **Rated from 1.5 to 2 kW**, this machine is ideal for performing even the most demanding tasks quickly and comfortably.

For lopping and limbing, chopping down small plants and cutting up firewood, we recommend a lightweight machine of between 4 and 5 kg with a **displacement of between 35 and 45 cm<sup>3</sup>**.

For intensive work requiring maximum reliability and consistent long-term performance, the best machines are **professional chain saws**, with **over 50 cm<sup>3</sup> displacement**. Weighing just 5 to 10 kg, they are ideal for felling and cutting up large trees.

For pruning jobs, the ideal machines are **professional pruning chain saws**, which provide the perfect blend of power, lightweight construction and easy handling. Equipped with a top handle, they are ideal for professional pruning operations and other precision work, such as grafting or surgery carried out on wounded or diseased plants.

For lopping and trimming overhead, or wherever there is uneven or sloping ground to contend with, a **pruner** is best. Thanks to a **telescopic pole**, cuts can be made **up to 5 metres above ground**, and therefore even on the highest branches. The saw itself is adjustable through intermediate **angular settings from 0° to 90°**.



## Electric chain saws



	OM 1800 E	OM 2000 E
Power	1.7 kW	1.9 kW
Bar length	35 cm	41 cm
Weight	4.4 Kg	4.4 Kg



OM 2000 E

## Universal chain saws for home use



	GS 35 *
	<b>GS 350 (Euro 2) *</b>
Power	2.0 HP - 1.5 kW
Bar length	35-41 cm
Weight	4.4 Kg

\* available from spring 2010.

## Universal chain saws for intensive home use



	937	941 C	941 CX
	<b>GS 370 (Euro 2)</b>	<b>GS 410 C (Euro 2)</b>	<b>GS 410 CX (Euro 2)</b>
Power	2.2 HP - 1.6 kW	2.5 HP - 1.8 kW	2.5 HP - 1.8 kW
Displacement	35.2 cm <sup>3</sup>	39.0 cm <sup>3</sup>	39.0 cm <sup>3</sup>
Bar length	35-41 cm	41 cm	41 cm
Weight	4.1 Kg	4.2 Kg	4.2 Kg



941 CX

**Model 936.**  
**Power: 2.1 HP - 1.6 kW.**  
**Displacement: 35.2 cm<sup>3</sup>.**  
**Bar length: 30-35-41 cm. Weight: 4.0 Kg.**

## Chain saws for intensive use



	947	952	956
Power	3.1 HP - 2.3 kW	3.4 HP - 2.5 kW	4.1 HP - 3.1 kW
Displacement	45 cm <sup>3</sup>	51.7 cm <sup>3</sup>	56.5 cm <sup>3</sup>
Bar length	41-46 cm	33-41-46 cm	38-41-46-51 cm
Weight	4.9 Kg	5.0 Kg	5.5 Kg



952

## Professional chain saws



GS 820

	962	GS 720	GS 820
Power	4.7 HP - 3.5 kW	5.4 HP - 4.0 kW	6.0 HP - 4.4 kW
Displacement	61.5 cm <sup>3</sup>	70.8 cm <sup>3</sup>	80.7 cm <sup>3</sup>
Bar length	41-46-51 cm	46-51-58-64 cm	51-58-64-76 cm
Weight	5.5 Kg	6.8 Kg	7.1 Kg

## "Heavy Duty" professional chain saws



	965 HD	999 F
Power	4.3 HP - 3.2 kW	6.8 HP - 5.0 kW
Displacement	63.4 cm <sup>3</sup>	100.9 cm <sup>3</sup>
Bar length	46-64 cm	76-91-104 cm
Weight	5.8 Kg	10.0 Kg



965 HD



## Professional pruning chain saws



GS 260

GS 260

932 C

Power	1.2 HP - 0.9 kW	1.6 HP - 1.2 kW
Displacement	25.4 cm <sup>3</sup>	30.1 cm <sup>3</sup>
Bar length	25 cm	30-35 cm
Weight	2.8 Kg	3.4 Kg

932 C

## Professional pruners



PP 270

PPX 270

Power	1.3 HP	1.3 HP
Displacement	27.0 cm <sup>3</sup>	27.0 cm <sup>3</sup>
Bar/Chain	10" - 3/8" x .043"	10" - 3/8" x .043"
Overall length of machine	2.30 m	2.60 m/3.80 m
Weight of machine complete*	5.9 Kg	7.4 Kg

\*dry weight, without bar and chain

PP 270

PPX 270



Suitable for topiary and general gardening; machines that do a perfect job, characterized by the **cleanest of cutting actions**.

These are machines featuring an excellent blend of **power** with **ease of handling and operation**: tools anyone can use, young or old, beginner or expert.

**Quality blades** are guaranteed to give a clean cut, indispensable both for the visual end result, and for the health of plants.

## Proper maintenance of hedgetrimmer

- Check **the condition of the blade**. If excessive **wear** is evident, contact a service centre.
- After each session, **free the blade** of any debris that has collected; when clean, **spray the blade with a light coating of thin oil** to prevent rust.
- **Sharpen the blade** periodically with the special tool provided.
- **Clean the machine** regularly with a soft brush or a cloth.
- Periodically, inspect the **air and fuel filter** (models with petrol engine), and replace if necessary.
- **Clean the cylinder fins** regularly, using a brush or compressed air (models with petrol engine).
- Periodically, inspect the **spark plug**, check the **electrode gap** (0.5 mm) and verify the condition of the **exhaust silencer** (models with petrol engine).
- **Grease the speed reduction/drive mechanism** every 20 working hours.



## Guide to hedgetrimmer selection

For tending and cutting hedges with **small trunks** located near to houses, even in spaces where access may be difficult, the best option is an **electric model rated 600 or 700 watts**, guaranteeing **agility, easy handling and minimal noise**.

On the other hand, **professional hedgetrimmers** are just what you need to confidently tackle all types of hedge, no matter how tough or dense. Generally **rated at over 600 watt**, they guarantee consistent long-term efficiency with maximum productivity and minimum effort.

Hedgetrimmer blades can have single or double cutting edges and are between 60 and 75 cm in length. Optional features such as the **primer** ensure trouble-free ignition even at low temperatures. The dual safety switch and the shockproof material used in construction are designed to protect the user and safeguard the integrity of the machine. **The handgrip turns through 180°** allowing operation even close to walls, with the machine held at an angle.



**Hedgetrimmer for home use**



HC 600 E	
Power	0.60 kW
Voltage	230 V
Blade type	double
Blade length	600 mm
Weight	3.9 Kg

**Professional hedgetrimmers**



HC 275 XP

	HC 750 E	HC 260 XP	HC 275 XP	HCS 275 XP
Power	0.70 kW	0.90 kW	0.90 kW	0.90 kW
Voltage/Displacement	230 V	25.4 cm <sup>3</sup>	25.4 cm <sup>3</sup>	25.4 cm <sup>3</sup>
Blade type	single	double	double	single
Bar length	700 mm	600 mm	750 mm	750 mm
Weight	4.3 Kg	5.3 Kg	5.5 Kg	5.2 Kg



**Powerful and efficient** tools for clearing any surface of leaves, twigs and debris generally, whether for the home user or for the professional operating in public areas.

Special care has been taken over the design of devices designed to guarantee **user comfort**, also to ensure **low noise operation** and minimize environmental impact.



## ***Proper maintenance of blower***

- After every 10 hours operation, clean the **air filter** by shaking out thoroughly; replace if damaged or worn.
- Check the condition of the **fuel filter** periodically; if soiled excessively, discard and fit a replacement.
- Clean the **cylinder fins** regularly, using a brush or compressed air.
- Periodically, clean the **spark plug** and check the **electrode gap** (0.5 mm).
- Check the condition of the **exhaust silencer**; in the case of the 62 cm<sup>3</sup> version, remove the **flame-trap mesh** from the silencer after every 30/40 hours operation and clean off carbon deposits.



## ***Guide to blower selection***

For gardeners or home users who need to tidy up flowerbeds, walkways and greenery, the most suitable machines are **handheld blowers with displacements ranging from 25 to 30 cm<sup>3</sup>**.

**Backpack blowers, with variable displacements from 30 to 70 cm<sup>3</sup>**, are the better option for clearing much larger areas whether rural (such as hazel and chestnut groves, farmyards and forecourts) or urban (parks, stadia, flowerbeds and roads).

Certain models can be converted easily **to operate as vacuum cleaners by fitting a special collection kit**, with a blade that chops up vacuumed material to reduce its volume inside the bag. They can also be equipped with systems that significantly reduce the vibration transmitted to the operator when in use.



## Hand-held blowers



### Vib Cut

#### BV 270

Power	1.2 HP - 0.9 kW
Displacement	30.5 cm <sup>3</sup>
Max. air volume	11.6 m <sup>3</sup> /min - 700 m <sup>3</sup> /h
Weight	4.5 Kg

#### BV 300

Power	1.3 HP - 1.0 kW
Displacement	30.5 cm <sup>3</sup>
Max. air volume	12.0 m <sup>3</sup> /min - 720 m <sup>3</sup> /h
Weight	4.5 Kg



BV 300

#### 5656 2001

Collection bag capacity	36 L
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#### 5655 2001

36 L



## Backpack blower



#### BV 162

Power	4.5 HP - 3.3 kW
Displacement	61.3 cm <sup>3</sup>
Max. air volume	20 m <sup>3</sup> /min - 1200 m <sup>3</sup> /h
Weight	9.4 Kg





An invaluable help to gardeners everywhere, these new bioshredders finally **solve the disposal problems posed by green waste** (clippings, twigs, small prunings). Equipped with **powerful electric motors or petrol engines**, they will chop and shred vegetable and organic waste, and foliage. Reduced to a fine consistency, these can be used as **compost or mulch** to give beneficial nutrients back to the soil and favour natural plant growth.



## *Proper maintenance of bioshredder*

- Models with petrol engine: check the **oil** and **petrol levels** periodically.
- Models with petrol engine: inspect and clean the **air filter** and **spark plug** periodically.
- Resharpener the **blades** or replace them to enable the machine to function at maximum power.
- Always replace the **cutting tools** in pairs.
- **Clean the machine** at the end of every job, removing shredded debris from the **discharge port**.
- Check the **tightness of all screws**.



## *Guide to bioshredder selection*

The first point to consider is the **power unit**, which can be an electric motor (if the machine will be operating where it can be connected to an a.c. power supply) or a petrol engine (the better option for intensive use, and the only option if there is no electrical power).

The other point to consider is the **type of waste material (consistency and diameter), and the quantity**.

**Soft materials, such as leaves and twigs, and branches up to 40 mm in diameter:** an electric bioshredder rated 2000 to 2500 W can be used.

**For heavier workloads, chipping and shredding more consistent materials, and diameters greater than 40 mm,** a petrol engine bioshredder is recommended. This will give a higher work rate (up to 650 Kg/h) and has a wider discharge opening for faster disposal of the shredded material.

## Electric bioshredders



	SH 210 E	SH 240 E
Engine	electric	electric
Power	2.1 kW	2.4 kW
Voltage/frequency	230 V / 50 Hz	230 V / 50 Hz
Shreddable diameter	40 mm	40 mm
Work rate	180 Kg/h	370 Kg/h
Weight	35 Kg	50 Kg

SH 240 E



## Petrol bioshredder



	SH 550
Engine	Honda GX 160
Displacement	160 cm <sup>3</sup>
Shreddable diameter	60 mm
Work rate	650 Kg/h
Weight	80 Kg







## Looking after the lawn

A lush, green lawn is an object of desire for anyone who has a garden. In effect, a healthy expanse of turf **enhances the appearance of open spaces surrounding** a home. Like plants and flowers, any lawn requires **tending and treating** continuously: and with a little effort, it can be kept in **perfect shape**, year in and year out. So here is a quick guide to the more important jobs that need doing through the course of the year to ensure **proper upkeep of the lawn**.

### Mowing

Cutting the grass is not just an **enjoyable pastime**. It is also an **operation absolutely essential** to the health of the lawn: mowing must be done at the right time, in the proper way and using **suitable equipment**. It is important to remember that **mowing** – which should wait until the winter is definitely over – must be done **frequently**, to favour new growth: every 10-15 days at first, then once a week or thereabouts (right through the summer). For ornamental lawns, the height of the grass should be, on average, about 3 cm in spring and autumn and 5 cm in summer.

### Watering

It is important that the turf receives the **right amount of moisture** at all times during the year, as dictated by the weather conditions and the nature of the soil.

## Fertilization

The **soil** is not an inexhaustible reservoir of nutrients, and will be impoverished further by mowing: **fertilizers** are essential as a means of restoring **nutrient substances** to the soil. It is important to select products specifically for lawns, enabling a slow release of nitrogen and preferably mineral-organic in formulation. The lawn should be **fertilized regularly** all the year round, except in winter, selecting the **products best suited** to each respective period. Always keep to the dosages indicated, and be careful to spread the product uniformly.

## Controlling weeds and moss

**Weeds** not only degrade the appearance of a lawn, they also cause damage. The remedies to adopt will depend on the type of weeds: having identified the problem, consult a specialist, who will be able to indicate the **weedkillers** best able to combat the situation. **Moss** grows on damp soils, wherever moisture tends to linger. The ideal solution would be to prevent its growth by digging and working peat or silver sand into the soil before seeding, to create a soft and permeable bed. Where moss has taken hold, on the other hand, the soil needs to be treated with **suitable products**, such as ferrous sulphate; having removed the dead moss, make holes in the soil, spread sand and peat, and apply a complex **fertilizer** to revive the turf.



## ***Lawnmower, brushcutter or garden tractor?***

There are three types of equipment offering a complete solution to the various needs encountered in the care of a lawn. In fact, the ability of the turf to flourish will depend not least on the machine used to cut the grass. In practice, the use of the right appliance will make work in the garden **more relaxing and pleasurable** and bring **better results**. Here, we look at the best way to go about making a choice.

### ***The brushcutter***

An essential item, **on any surface near obstructions** (low walls, fences, steps, etc.), or where the ground is uneven or on a steep gradient.

This machine is used to cut **grass, weeds, brush and scrub** in areas not accessible with other machines. Certain brushcutters, when fitted with particular accessories, can also be used for **pruning high and low growth** on trees and orchard plants, for **clipping medium-high hedges** and for **cultivating small vegetable plots**.

### ***The lawnmower***

Lawnmowers are adaptable to different types of surface. Simply select the most suitable type from the models available: models for **hobbyists** (small lawns, gardens), and models for **professionals**, indispensable when working **large areas and on irregular lawns** with depressions or ridges. Some models are self-propelling, which makes for greater operator comfort when mowing large expanses, and working on slopes or slightly uneven soils.

If the lawnmower is equipped with a **mulching kit**, the need to **dispose of clippings** is largely eliminated, since these are finely fragmented and strewn on the turf, retaining moisture and essential nutrients.

### ***The garden tractor***

These offer the ideal solution for **large gardens**, and for **parkland and public green spaces**. Sturdily built and easy to handle, machines of this type have a small turning circle to simplify manoeuvres in amongst plants and shrubs. They generally have a side or rear outlet duct for connection to a grass catcher. Like lawnmowers, certain models of garden tractor can be converted by means of a simple kit to operate in **mulching mode**.

## ***Mulching***

In addition to the benefits for the lawn, mulching helps solve the problem of how to dispose of grass clippings, as these are simply chopped up finely and spread over the turf.

### ***What is mulching?***

In the case of lawns, this is a technique whereby the grass clippings from mowing are used as nutrient for the turf. Thanks to the use of a special blade and a plug that closes off the discharge duct, grass clippings continue to circulate beneath the mower deck when cut. The particles are chopped finer and finer, and spread uniformly over the lawn, decomposing ultimately and acting as a **natural fertilizer**.

With mulching, the lawn benefits from an invaluable **application of organic and nutritional substances** – also of moisture, to prevent it from drying out – and, last but not least, there are no waste disposal problems.








# Multimate combined system



Multimate is the all-in-one tool that makes gardening **8 times more efficient**. At its centre is one big heart: a **compact, lightweight and quiet engine which can power up to 8 different implements**. Ideal for keen gardeners with diverse needs: **finishing the lawn edges and around walls and fences, pruning trees and hedges, trimming bushes, and blowing away leaves and debris**. No matter what the needs of the private user, one big heart takes care of them all.



-  **The all-in-one tool for your garden:** it offers all the implements you need to look after every inch of your garden.
-  **Simple changeover action:** just press a button and rotate to switch between the 8 implements supplied with Multimate.
-  **A single engine body, quiet yet powerful:** lightweight, quiet and incorporating an ergonomic handgrip, with all controls at your fingertips for maximum comfort.
-  **Eight machines for the price of one – invaluable.**
-  **Minimal space requirements:** Multimate takes up minimal room and is also supplied with a special implement storage kit.





## Multimate - Quick-fit lock-release system

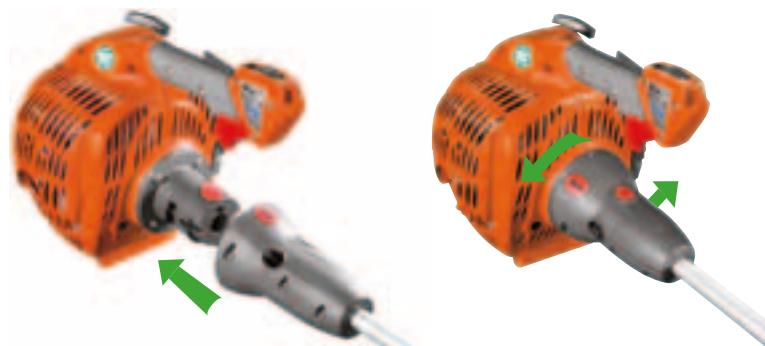


**Multimate** is based on a **highly intuitive lock-release system which is so user-friendly and safe** that it can be operated by even the least expert users.

**Multimate** features the patented **Rev&Go** system, a quick-fit mechanism which enables the operator to switch from one implement to another within seconds and without the need for tools: simply insert an implement and rotate to attach it, or press a button and rotate to release it.

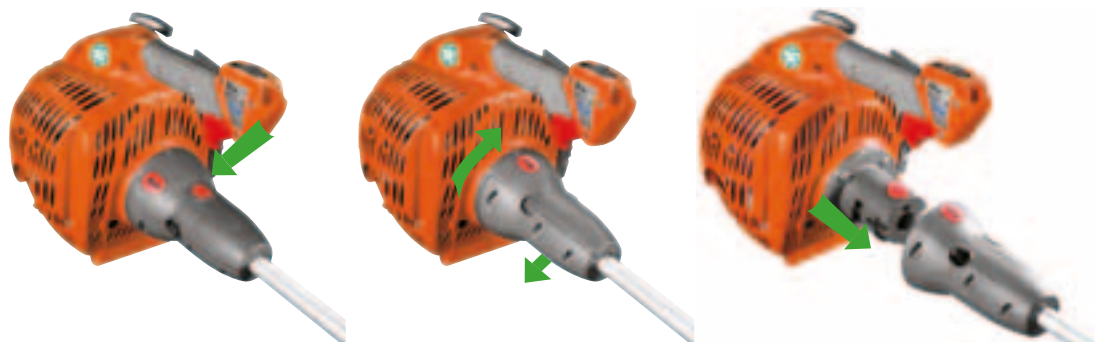
### From one implement to the next in just 5 seconds

#### Attachment procedure



Silver Medal for  
Innovation at  
Demopark 2009  
(Germany)

#### Release procedure



## Multimate - Engine unit



Quiet, powerful and eco-friendly, the single 2-stroke engine features an innovative 3-spring anti-vibration system which completely isolates it from the handgrip: this is the revolutionary heart of **Multimate**!

Engine	30 cm <sup>3</sup> EURO 2
Power	1.0 HP
Primer	for introducing fuel into the carburettor and guaranteeing simple starting every time
Filter	foam air filter which guarantees an optimum filtering action and long cleaning intervals
Digital coil	to reduce effort during start-up and limit fuel consumption
Anti-vibration system	with 3 springs
Fuel tank capacity	0.37 dm <sup>3</sup>
Implement fitting	2 positions (0° and 90°)
Weight	3.9 Kg





Multimate – Brushcutter



The ideal tool for cutting grass, weeds, bushes and shrubs in areas not accessible with other machines. Essential both for cleaning and tidying private premises, and for clearing areas overgrown with untended vegetation.



Shaft arm tube	Ø 22 mm (internal drive shaft Ø 6 mm)
Cutting components	Ø 109 Tap'n Go head, 2.0 mm line
Weight	2.3 Kg

Multimate – Trimmer



The perfect implement for tending to less accessible corners of the garden, even those with obstacles.

Shaft arm tube	Ø 22 mm (internal drive shaft Ø 6 mm)
Cutting components	Ø 105 Tap'n Go head, 2.0 mm line
Weight	1.9 Kg



## Multimate - Lawn Edger



Practical and lightweight implement designed for trimming and tidying lawn edges along paths and flower beds; the vertical cutting action enables it to accurately follow the contours of the lawn, tidying borders that other machines such as brushcutters and lawnmowers are unable to reach.

Shaft	Ø 22 mm (internal drive shaft Ø 6 mm)
Cutting components	blade Ø 8"/200 mm, thickness 2 mm
Blade guard	plastic
Depth of cut	50 mm
Wheel	plastic (Ø 135 mm)
Weight	2.8 Kg

\* available from autumn 2010.



## Multimate - Blower



Practical and manoeuvrable, this implement is ideal for trouble-free removal of leaves, shrubs and garden debris. Particular attention paid to enhancing the comfort of the end user.

Air flow rate	600 m³/h
Air speed	60 m/s
Handle	swivelling
Weight	1.6 Kg



Multimate – Hedgetrimmer



The 1.1 metre shaft enables the operator to trim hedges up to 3 metres high, without the use of a ladder. Twelve different blade settings.



		*
Gearbox	in aluminium	in aluminium
Cutting action	reciprocating	reciprocating
Blade length	510 mm	510 mm
Cutting width	25 mm	25 mm
Blades	adjustable through 12 positions from 0 to 135°	adjustable through 12 positions from 0 to 135°
Blade pitch	30 mm	30 mm
Weight	2.2 Kg	2.6 Kg

\* available from autumn 2010.





## Multimate – Pruner



For pruning all kinds of tree branches and foliage up to three metres from the ground, to keep growth under control.



Shaft arm length	1.5 m
Bar length	10" (250 mm)
Chain	Oregon 3/8" x .043"
Chain thickness	1.1 mm
Oil reservoir capacity	0.165 dm <sup>3</sup>
Weight	2.4 Kg

## Multimate - Tiller



Versatile implement which can be used for preparing soil for grass seeding, as well as digging furrows for planting flowers, shrubs and vegetables. Its versatility means that it can also be used for turf scarification.

Rotor	2+2 blades - 30 cm
Rotor guard	plastic
Gearbox	1 forward speed
Transmission	in aluminium
Handlebars	folding
Weight	9.4 Kg

\* available from autumn 2010.





Essential both for cleaning and tidying private premises, and for clearing areas overgrown with untended vegetation. **This is a family of products characterized by top-of-the-range performance and supreme operator comfort, not to mention maximum care for the environment guaranteed by new engines producing low emissions.**

## *Proper maintenance of brushcutter*

- Clean the **air filter** after every 8-10 hours of operation, replace if excessively soiled or damaged.
- Inspect the **fuel filter** periodically, replace if damaged or excessively soiled.
- Clean the **cylinder fins** by brushing, or blasting with compressed air.
- Clean the **spark plug** periodically and **check the electrode gap**.
- Check the **grease level** on the bevel drive after every 30 hours of use.
- Grease the **end of the flexible pipe** after every 20 hours of use, and the **joint of the rigid pipe** (backpack models) after every 100 hours.
- Clean the machine and the cutter assembly at the end of every job.
- Sharpen the **blade** periodically.



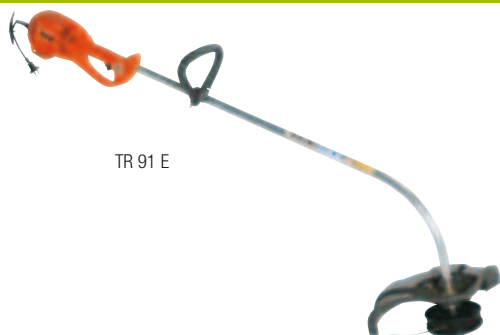
## *Guide to brushcutter or trimmer selection*

The best machines for relatively small areas are **electric trimmers**. Generally rated between **500 and 1000 watt**, they are ideal **for trimming jobs** on small, level areas with obstacles.

On **more or less level surfaces near obstructions**, brushcutters are the better option. For grass cutting and trimming jobs, a **brushcutter** of **between 25 and 40 cm<sup>3</sup>** displacement will be enough; more demanding tasks on uneven ground should be performed using more powerful brushcutters of between **40 and 60 cm<sup>3</sup>** displacement.

For performing jobs on surfaces with **particularly accentuated height differences**, or among reeds and thicker undergrowth, or if conditions are rendered generally more difficult by obstacles, sloping ground or the intensity of use, **backpack models** of **40 and 60 cm<sup>3</sup>** displacement are preferable.

## Electric trimmers



TR 91 E

	TR 61 E	TR 91 E	TR 101 E
Power	600 W	850 W	1000 W
Grip	single	single	single
Weight	3.2 Kg	3.5 Kg	4.5 Kg

## SPARTA series universal brushcutters for home use



	SPARTA 25 TR	SPARTA 25 S	SPARTA 25
	SPARTA 250 TR (Euro 2)	SPARTA 250 S (Euro 2)	SPARTA 250 T (Euro 2)
Power	1.0 HP - 0.8 kW	1.0 HP - 0.8 kW	1.0 HP - 0.8 kW
Displacement	25.4 cm <sup>3</sup>	25.4 cm <sup>3</sup>	25.4 cm <sup>3</sup>
Grip	single	single	handlebar
Weight	4.5 Kg	5.6 Kg	6.2 Kg



SPARTA 250 S

## SPARTA series brushcutters for intensive use



SPARTA 38 S



	SPARTA 38 S	SPARTA 38
	SPARTA 380 S (Euro 2)	SPARTA 380 T (Euro 2)
Power	1.8 HP - 1.3 kW	1.8 HP - 1.3 kW
Displacement	36.2 cm <sup>3</sup>	36.2 cm <sup>3</sup>
Grip	single	handlebar
Weight	6.8 Kg	7.3 Kg



## SPARTA series "Heavy Duty" brushcutters for intensive use



new

	SPARTA 44 S	SPARTA 44	SPARTA 42 BP
Power	2.1 HP - 1.6 kW	2.1 HP - 1.6 kW	2.1 HP - 1.6 kW
Displacement	40.2 cm <sup>3</sup>	40.2 cm <sup>3</sup>	40.2 cm <sup>3</sup>
Grip	single	handlebar	single
Weight	6.9 Kg	7.4 Kg	9.5 Kg



SPARTA 44 S



## PREMIUM series universal brushcutters for intensive home use



BC 280 S

	BC 280 S	BC 280 T
Power	1.3 HP - 1.0 kW	1.3 HP - 1.0 kW
Displacement	27 cm <sup>3</sup>	27 cm <sup>3</sup>
Grip	single	handlebar
Weight	5.5 Kg	6.0 Kg

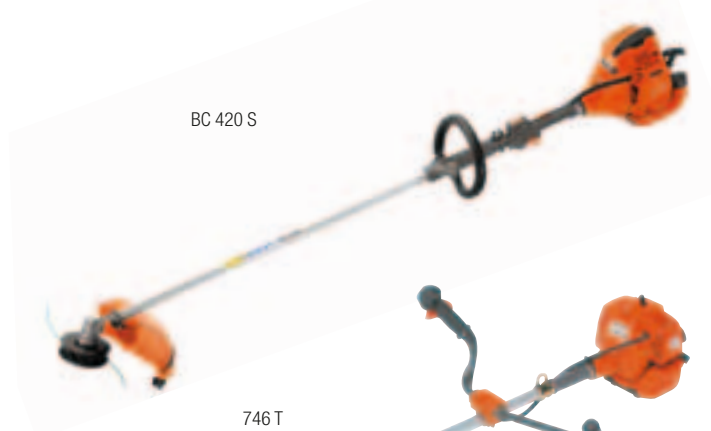
## PREMIUM series brushcutters for intensive use



BC 380 S

	BC 320 S	BC 320 T	BC 380 S	BC 380 T
Power	1.5 HP - 1.1 kW	1.5 HP - 1.1 kW	1.9 HP - 1.4 kW	1.9 HP - 1.4 kW
Displacement	30 cm <sup>3</sup>	30 cm <sup>3</sup>	36.3 cm <sup>3</sup>	36.3 cm <sup>3</sup>
Grip	single	handlebar	single	handlebar
Weight	5.8 Kg	6.3 Kg	7.2 Kg	7.8 Kg

## PREMIUM series professional brushcutters



BC 420 S

	BC 420 S	BC 420 T
Power	2.2 HP - 1.6 kW	2.2 HP - 1.6 kW
Displacement	40.2 cm <sup>3</sup>	40.2 cm <sup>3</sup>
Grip	single	handlebar
Weight	7.3 Kg	7.9 Kg



746 T

	746 S	746 T	753 S	753 T	755 MASTER
Power	2.5 HP - 1.8 kW	2.5 HP - 1.8 kW	2.8 HP - 2.1 kW	2.8 HP - 2.1 kW	2.8 HP - 2.1 kW
Displacement	45.7 cm <sup>3</sup>	45.7 cm <sup>3</sup>	52.5 cm <sup>3</sup>	52.5 cm <sup>3</sup>	52.5 cm <sup>3</sup>
Grip	single	handlebar	single	handlebar	handlebar
Weight	7.5 Kg	8.1 Kg	7.4 Kg	8.2 Kg	8.5 Kg

## PREMIUM series professional backpack brushcutters



BCF 420

	BCF 420	453 BP ERGO
Power	2.2 HP - 1.6 kW	2.8 HP - 2.1 kW
Displacement	40.2 cm <sup>3</sup>	52.5 cm <sup>3</sup>
Grip	single	single
Weight	9.4 Kg	11.0 Kg

## Brushcutters with 4-stroke engine



BC 260 4S

BC 360 4S

BC 360 4T

Displacement	25.0 cm <sup>3</sup>	35.8 cm <sup>3</sup>	35.8 cm <sup>3</sup>
Grip	single	single	handlebar
Weight	5.6 Kg	6.7 Kg	7.0 Kg



BC 360 4S

## Additional tools for brushcutters



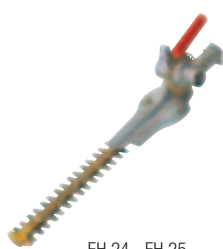
EP 90



EP 100



EP 120



EH 24 - EH 25



EH 48 - EH 50 - EHD 50



CULTIVATOR



An **extensive range** of lawn care solutions. Small gardens or large parks; machines for occasional users and for professional contractors and groundsmen. All models are designed taking account of their **typical operating environment**, and of **customer preferences** with regard to **use and maintenance**.

A wide and diversified offering able to meet a variety of needs with innovative and hi-tech solutions.

## *Proper maintenance of lawnmower*

- Periodically, check the **oil level** and the **fuel level** (models with petrol engine).
- Make certain that the **cutting area** (under the deck), the grass catcher, and the machine in general, are **cleaned** regularly and thoroughly.
- Check the **sharpness of the blade periodically**.
- Inspect and clean the **air filter** periodically.
- Check the **engine oil** periodically and renew if necessary, inspect the **drive belts and pulley** of the transmission system, clean the **variable speed** unit thoroughly, and inspect the **wheel bearings**, lubricating if necessary.



## *Guide to lawnmower selection*

For gardens spanning **up to 900 m<sup>2</sup>**, the best option is an **electric lawnmower**, with **plastic or steel deck**. Equipped with an electric motor, these machines are ideal due to their compact size and manoeuvrability, with a cutting width that generally ranges between **30 and 50 cm**.

For larger **expanses of up to 2000 m<sup>2</sup>**, models with cutting width of **40 to 55 cm** are more suitable. Comprising a robust structure with steel deck, they are available in the **push-type** and **self-propelled** versions. For **areas exceeding 1200 m<sup>2</sup>** the best option is a **self-propelled model**, which will reduce the effort needed when working on uneven or sloping ground.

The ideal machines for big gardens (**between 2000 and 2600 m<sup>2</sup>**) are **self-propelled professional models**. Offering a cutting width of **40 to 55 cm**, they combine the advantages of **tough** construction materials (aluminium deck) with **dependable** performance, in terms of optimum work rate and shorter job times.



## Electric lawnmowers with plastic deck



300-550 m²

	K 35	K 35 P	K 40 P
Deck	polypropylene	ABS	ABS
Power	0.9 kW	1.1 kW	1.3 kW
Cutting width	33 cm	33 cm	38 cm
Propulsion	push	push	push
Grass box capacity	25 L	25 L	40 L



K 40 P

## Electric lawnmowers with steel deck



600-900 m²



G 48 PE



	G 44 PE	G 48 PE	G 48 TE
Deck	steel	steel	steel
Power	1.5 kW	1.6 kW	1.8 kW
Cutting width	41 cm	46 cm	46 cm
Propulsion (speed)	push	push	self-propelled (3.6 Km/h)
Grass box capacity	60 L	60 L	60 L

## Push-type lawnmowers with steel deck



800-1400 m²

	G 44 PK	G 44 P	G 44 PB
Deck	steel	steel	steel
Displacement	140 cm³	148 cm³	158 cm³
Engine make/model	Emak K 500 OHV	B&S 450 series	B&S 500 series
Cutting width	41 cm	41 cm	41 cm
Propulsion	push	push	push
Grass box capacity	60 L	60 L	60 L

G 53 PBX COMFORT



	G 48 PK	G 48 P	G 48 PB	G 48 PBQ	G 48 PBX	G 53 PBX COMFORT
Deck	steel	steel	steel	steel	steel	steel
Displacement	140 cm³	148 cm³	158 cm³	158 cm³	190 cm³	190 cm³
Engine make/model	Emak K 500 OHV	B&S 450 series	B&S 500 series	B&S 550 series	B&S 625 series	B&S 625 series
Cutting width	46 cm	46 cm	46 cm	46 cm	46 cm	51 cm
Propulsion	push	push	push	push	push	push
Grass box capacity	60 L	60 L	60 L	60 L	60 L	60 L



## Self-propelled lawnmowers with steel deck



1000-2000 m²

	 <b>G 44 TB</b>	 <b>G 48 TK</b>	 <b>G 48 TBQ COMFORT</b>	 <b>G 48 TBX COMFORT</b>	 <b>G 48 TH COMFORT</b>
Deck	steel	steel	steel	steel	steel
Displacement	158 cm³	140 cm³	158 cm³	190 cm³	135 cm³
Engine make/model	B&S 500 series	Emak K 600 OHV	B&S 550 series	B&S 625 series	Honda GCV 135
Cutting width	41 cm	46 cm	46 cm	46 cm	46 cm
Propulsion (speed)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)
Grass box capacity	60 L	60 L	60 L	60 L	60 L



G 48 TBX COMFORT

	 <b>G 53 TK</b>	 <b>G 53 TBX COMFORT</b>	 <b>G 53 THX COMFORT</b>
Deck	steel	steel	steel
Displacement	196 cm³	190 cm³	160 cm³
Engine make/model	Emak K 800 OHV	B&S 625 series	Honda GCV 160-A2
Cutting width	51 cm	51 cm	51 cm
Propulsion (speed)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)
Grass box capacity	60 L	60 L	60 L

## ALLROAD series self-propelled lawnmowers with steel deck



1400-2000 m²

**new**

	<b>G 48 TK ALLROAD</b>	<b>G 53 TK ALLROAD</b>	<b>G 53 THX ALLROAD</b>	<b>G 55 VBX 4-IN-1</b>
Deck	steel	steel	steel	steel
Displacement	140 cm³	196 cm³	160 cm³	190 cm³
Engine make/model	Emak K 600 OHV	Emak K 800 OHV	Honda GCV 160-A2	B&S 625 series
Cutting width	46 cm	51 cm	51 cm	53 cm
Propulsion (speed)	self-propelled (3.6 km/h)	self-propelled (3.6 km/h)	self-propelled (3.6 km/h)	self-propelled, variable speed drive (from 2.5 to 5 km/h)
Grass box capacity	60 L	60 L	60 L	80 L

G 55 VBX 4-IN-1



## Professional lawnmowers with aluminium deck, MAX 44 series



1200-1600 m²

	<b>MAX 44 PBX</b>	<b>MAX 44 TBX</b>
Deck	aluminium	aluminium
Displacement	190 cm³	190 cm³
Engine make/model	B&S 625 series	B&S 625 series
Cutting width	43 cm	43 cm
Propulsion (speed)	push	self-propelled (3.6 km/h)
Grass box capacity	60 L	60 L

MAX 44 TBX



## Professional lawnmowers with aluminium deck, MAX 48 series



2000-2400 m²

	MAX 48 PBX	MAX 48 TK	MAX 48 TBX	MAX 48 TH
Deck	aluminium	aluminium	aluminium	aluminium
Displacement	190 cm³	140 cm³	190 cm³	135 cm³
Engine make/model	B&S 650 series	Emak K 600 OHV	B&S 650 series	Honda GCV 135
Cutting width	46 cm	46 cm	46 cm	46 cm
Propulsion (speed)	push	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)
Grass box capacity	75 L	75 L	75 L	75 L



MAX 48 TBX

## Professional lawnmowers with aluminium deck, MAX 53 series



2000-2400 m²

new

	MAX 53 PBX	MAX 53 TK	MAX 53 TBX	MAX 53 TBXE	MAX 53 TBDF
Deck	aluminium	aluminium	aluminium	aluminium	aluminium
Displacement	190 cm³	196 cm³	190 cm³	190 cm³	160 cm³
Engine make/model	B&S 675 series	Emak K 800 OHV	B&S 675 series	B&S 675 series	B&S 750 series
Cutting width	51 cm	51 cm	51 cm	51 cm	51 cm
Propulsion (speed)	push	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)	self-propelled (3.6 Km/h)
Grass box capacity	75 L	75 L	75 L	75 L	75 L

\* with electric start.

new

	MAX 53 VBD	MAX 53 THX
Deck	aluminium	aluminium
Displacement	160 cm³	160 cm³
Engine make/model	B&S 750 series	Honda GCV 160
Cutting width	51 cm	51 cm
Propulsion (speed)	self-propelled, variable speed drive (from 2.5 to 4.5 Km/h)	self-propelled (3.6 Km/h)
Grass box capacity	75 L	75 L

MAX 53 TBDF



## Professional lawnmowers with aluminium deck, LUX 55 series



2300-2600 m²

LUX 55 TBI



new

new

	LUX 55 TBD	LUX 55 TBI	LUX 55 HXF
Deck	aluminium	aluminium	aluminium
Displacement	160 cm³	190 cm³	163 cm³
Engine make/model	B&S 750 series	B&S 850 series	Honda GXV 160
Cutting width	53 cm	53 cm	53 cm
Propulsion (speed)	self-propelled (3.6 Km/h)	3 speeds	3 speeds
Grass box capacity	70 L	80 L	80 L





Designed for **discerning users, professional gardeners and groundsmen**, these tools are used in conjunction with lawnmowers and are ideal for **keeping the lawn healthy by eliminating moss and thatch**.

## *Proper maintenance of scarifiers*

- Check the **state of the blades** before every use, sharpen or replace as necessary.
- Clean the machine immediately after each use.
- Empty and clean the **collection bag**.
- Clean the bottom of the equipment, as well as **the roller** or scarifier.
- Remove all dirt using a rag or brush.
- Do not clean the machine with running water or high pressure washers.



## *Guide to scarifier selection*

Used for **removing thatch and moss from the lawn surface**, they are equipped with a **robust structure** and **powerful engine**, to take on even the toughest of terrains. Lawns should be scarified at least twice a year, as this will aerate the soil and enable moisture, air and nutrients to reach the roots of the grass, favouring steady and healthy growth.

An important feature to look out for is the **height adjustment system with memory**, which ensures that the machine can be set down at the same height when repositioned. Generally available with a **cutting width of between 35 and 50 cm**. Models equipped with bearing-mounted wheels ensure excellent propulsion, whatever the type of surface.



#### SR 35 B45

Deck	steel
Displacement	158 cm <sup>3</sup>
Engine make/model	B&S 550 series
Cutting width	38 cm
Spike	fixed
Wheels	plastic with bearings
Cutting depth	adjustable with memory
Overall dimensions	103x57x96 cm
Weight	30 Kg

### Professional scarifiers

> 2000 m<sup>2</sup>



#### SR 40 R45

#### SR 50 H60

Deck	steel	steel
Displacement	160 cm <sup>3</sup>	160 cm <sup>3</sup>
Engine make/model	Robin EX13 OHV	Honda GX 160
Cutting width	40 cm	50 cm
Spike	fixed	floating
Wheels	plastic with bearings	metal with bearings
Cutting depth	adjustable with memory	adjustable with memory
Overall dimensions	120x68x90 cm	120x82x102 cm
Weight	50 Kg	65 Kg



SR 40 R45



A range of products designed for **discerning home users, produce growers and landscape maintenance contractors**. Ideal for cutting down and removing long, thick grass, they are distinguished by their extremely robust design, cutting power and **comfortable operation**, which enables the user to get the job done quickly and efficiently.



## *Proper maintenance of wheeled brushcutters/flail mowers*

- Before each use ensure that the **cooling intake area** and the **engine cylinder** are free from dirt.
- After each use clean the **cutter assembly housing** and clear the engine of any residual vegetation.
- Regularly check that the **cutting blade** is sharp, so to obtain the cleanest possible cut.
- Replace the **gasket of the blade brake** after every 100 hours of use.
- Lubricate the **bearings, axles, front/rear wheels and chain** after every 25 hours of use.
- Check the **oil level** after every 100 hours (minimum).
- Sharpen and balance the **blade** after every 20 hours of use.



## *Guide to wheeled brushcutter/flail mower selection*

Home users can choose from **semi-professional models**, which are **extremely robust** but also compact and easy to handle. Equipped with **centralised cutting adjustment** (two settings in the flail mower), they are ideal for cleaning medium-sized areas infested with weeds, scrub or other types of invasive vegetation.

For more **demanding and continuous work**, such as that performed by farmers or professional contractors, **a professional model is needed**. Equipped with professional blade (wheeled brushcutter) and professional cutting unit (flail mower), **they assure excellent chopping quality**, even on dense undergrowth and medium-sized shrubs.





WB 51 VB6

## Wheeled brushcutters for home use



> 5000 m²

	WB 51 B6	WB 51 VB6
Displacement	190 cm³	190 cm³
Engine make/model	Briggs & Stratton 625 series	Briggs & Stratton 825 OHV series
Cutting width	51 cm	51 cm
Transmission	single speed propulsion	variable speed drive
Cutting height adjustment	central (controlled from handgrip)	central (controlled from handgrip)
Weight	55 Kg	62 Kg

## Professional wheeled brushcutter



> 5000 m²



	WB 52 VBR6
Displacement	190 cm³
Engine make/model	B&S 825 OHV series
Cutting width	52 cm
Transmission	2 forward speeds + 1 reverse
Cutting height adjustment	flange-operated
Weight	82 Kg



## Flail mower for home use



> 3000 m²

	WB 55 H 6,5
Displacement	196 cm³
Engine make/model	Honda GX 200
Cutting width	50 cm – 26 blades
Transmission	single speed propulsion
Cutting height adjustment	centralised (20 - 80 mm)
Weight	125 Kg

## Professional flail mowers



> 5000 m²

	WB 65 HR 8,5	WB 80 KR 11
Displacement	270 cm³	300 cm³
Engine make/model	Honda GX 270	Kohler PRO CS 10
Cutting width	65 cm – 38 blades	80 cm – 46 blades
Transmission	3 forward speeds + reverse	3 forward speeds + reverse
Cutting height adjustment	centralised (20 - 80 mm)	centralised (20 - 80 mm)
Weight	155 Kg	170 Kg



WB 80 KR 11



Ideal for gardens of all shapes and sizes, parkland and public green spaces.

**Tough and easy handling, these are the perfect machines for anyone interested in high work rates.**

Incorporating the latest solutions technology has to offer, they give **maximum satisfaction** in terms of comfort and performance, even to the most demanding of users.

## *Proper maintenance of garden tractor*

- After every 25 hours operation, check that the blade is **fastened securely, and sharp**.
- Every 20 hours, check the **adjustment of the propulsion brake, the state of the drive belts** and the condition of **the blade clutch**: if worn, contact a service centre.
- Make a periodic inspection of all mechanical **fastenings and general** lubrication.
- Check the **level of the oil**, replacing after the first 10 hours operation and every 50 hours thereafter.
- Inspect the **air filter and fuel filter**, and replace if clogged excessively.
- Check the **pressure of the tyres**.



## *Guide to garden tractor selection*

**Garden tractors with side discharge (for areas up to 6,000 m<sup>2</sup>):** these are small and compact models with a tight turning radius, suitable for manoeuvring in confined spaces. They can be converted to operate in mulching mode.

**Garden tractors with rear discharge for small and medium-sized areas (up to 3,000 m<sup>2</sup>):** known as ride-on tractors (engine under driver seat), rated up to 15 HP. Compact and neatly proportioned, these machines afford ease of manoeuvre in gardens with a high density of plants, where grass clippings need to be collected. They can be converted to operate in mulching mode.

**Garden tractors with rear discharge for medium-sized areas (up to 4,000 m<sup>2</sup>):** fitted with medium-large cutter assemblies (76/92 cm), they combine strength with manoeuvrability and are ideal for frequent use in the garden, where grass clippings need to be collected. Available with mechanical or hydrostatic transmission which allows the operator to control direction and speed by means of a single pedal.

**Garden tractors with rear discharge for larger areas (up to 7,000 m<sup>2</sup>):** fitted with large cutter assembly (102 cm), designed for maintenance of large gardens where grass clippings need to be collected. Available with mechanical or hydrostatic transmission which allows the operator to control direction and speed by means of a single pedal.

**Professional garden tractors with rear discharge for large areas (up to 9,000 m<sup>2</sup>):** fitted with large cutter assembly (102 cm), designed for maintenance of large gardens, parks and public green spaces where grass clippings need to be collected. Available with hydrostatic transmission which allows the operator to control direction and speed by means of a single pedal.

**Professional all-terrain garden tractors (for areas up to 9,000 m<sup>2</sup>):** with 92 cm cutter assembly, designed for clearing and tidying up areas overgrown with thick vegetation, on uneven and sloping ground where there is no need for clippings to be collected. Available with hydrostatic transmission which allows the operator to control direction and speed by means of a

## Side-discharge lawn tractors

3000-6000 m²



TORNADO 108/17,5 H



### TORNADO 95/11,5 T

Power	11.5 HP / 8.5 kW
Engine make/model	B&S I/C AVS
Cutting width	96 cm
Propulsion	7 speed Shift-on-the-go
Weight	148 Kg



### TORNADO 97/13,5 T

Power	13.5 HP / 10.0 kW
Engine make/model	B&S I/C AVS
Cutting width	96 cm
Propulsion	7 speed Shift-on-the-go
Weight	152 Kg



### TORNADO 108/15,5 T

Power	15.5 HP / 11.6 kW
Engine make/model	B&S I/C AVS
Cutting width	107 cm
Propulsion	7 speed Shift-on-the-go
Weight	164 Kg



### TORNADO 108/18,5 H

Power	18.5 HP / 12.9 kW
Engine make/model	B&S I/C AVS
Cutting width	107 cm
Propulsion	variable speed
Weight	166 Kg



### TORNADO 108/20 H

Power	20 HP / 14.9 kW
Engine make/model	B&S V-Twin
Cutting width	107 cm
Propulsion	variable speed
Weight	172 Kg

## Rear-discharge lawn tractors for small and medium-sized areas



2000-3000 m²

### OM 63 C/6,5 V

Power	6.5 HP / 4.8 kW
Engine make/model	B&S Intek Pro OHV
Cutting width	62 cm
Propulsion	self-propelled, variable speed drive
Bag capacity	140 L

### OM 72 C/12,5 M

Power	12.5 HP / 9.2 kW
Engine make/model	B&S OHV I/C AVS
Cutting width	71 cm
Propulsion	5 forward gears + reverse
Bag capacity	170 L

### OM 72 C/12,5 H

Power	12.5 HP / 9.2 kW
Engine make/model	B&S OHV I/C AVS
Cutting width	71 cm
Propulsion	hydrostatic
Bag capacity	170 L

OM 72 C/12,5 H





## Rear-discharge lawn tractors for medium-sized areas



> 4000 m<sup>2</sup>

	KROSSER 80/12,5 T	KROSSER 92/13,5 T	KROSSER 92/15,5 AM	OM 93 C/13,5 H
Power/Displacement	12.5 HP / 9.2 kW	13.5 HP / 10.0 kW	15.5 HP / 11.6 kW	13.5 HP / 10.0 kW
Engine make/model	B&S I/C AVS	B&S I/C AVS	B&S I/C AVS	B&S OHV I/C AVS
Cutting width	76 cm	92 cm	92 cm	92 cm
Propulsion	7 speed Shift-on-the-go	7 speed Shift-on-the-go	variable speed	hydrostatic
Bag capacity	200 L	240 L	240 L	260 L



KROSSER 92/13,5 T

## Rear-discharge lawn tractors for large areas



6000-7000 m<sup>2</sup>

new



	KROSSER PLUS 105/17,5 H	OM 102 C/18,5 H
Power	17.5 HP / 12.9 kW	18.5 HP / 13.9 kW
Engine make/model	B&S I/C AVS	B&S Intek OHV AVS
Cutting width	105 cm	102 cm
Propulsion	hydrostatic	hydrostatic
Bag capacity	270 L	300 L

KROSSER PLUS 105/17,5 H



## Professional garden tractors with rear-discharge for large areas



6000-9000 m<sup>2</sup>

	OM 106 J/15,5 H	OM 106 J/16 H	OM 106 J/17,5 H	OM 106 J/18 H
Power	15.5 HP	16 HP	17.5 HP	18 HP
Engine make/model	B&S I/C	B&S Vanguard	B&S Intek	B&S Vanguard
Cutting width	102 cm	102 cm	102 cm	102 cm
Propulsion	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Bag capacity	300 L	300 L	300 L	300 L



OM 124 J/22 H

### OM 124 J/22 H

Power	22 HP
Engine make/model	Briggs & Stratton
Cutting width	122 cm
Propulsion	hydrostatic
Bag capacity	360 L

## Professional all-terrain garden tractors



> 9000 m<sup>2</sup>

	APACHE 92	APACHE 92 4x4
Power	20 HP / 14.9 kW	23 HP / 17.2 kW
Engine make/model	B&S two-cylindere	B&S Vanguard
Cutting width	92 cm	92 cm
Cutting height	50-60-75-90 cm	50-60-70-80-100 cm
Propulsion	hydrostatic self-locking differential	hydrostatic 4 WD self-locking differential

APACHE 92 4x4







## *Watering of plants, hedges and lawns*

**Proper, regular watering** is a fundamental aspect of looking after plants and greenery. During spring and summer, in particular, plants, hedges and lawns need a **supply of water sufficient, and carefully gauged**, to ensure that the roots do not dry out and the growth will remain green and lush.

In the case of lawns, especially, water should be distributed **uniformly** and rained in fine droplets. If **newly seeded**, the lawn needs to be kept moist on the surface, and should therefore be sprinkled **2-3 times a day** with moderate amounts of water.

As the grass begins to grow, it will need to be watered more abundantly and less often, so that the water can penetrate well down into the soil. A **mature lawn** – well into spring, especially during dry spells – can be **well watered every 4 or 5 days**. The best time to water is undoubtedly in the **early morning**, as the soil cools down during the night and early watering will avoid thermal shock; also because when the sun is high, moisture will evaporate too quickly. When the lawn is particularly dry, it is advisable to water sparingly at first, and then increase the amount by stages.

Every kind of **home and professional irrigation** requirement, from private gardens to small-medium crop cultivation, can be met confidently with **self-priming and centrifugal water pumps**: these machines are lightweight and easy to handle, yet tough and reliable over time, available in a range of displacements and with different types of engine, offering maximum flexibility under any conditions and guaranteeing **optimum efficiency even with long suction runs**.

In the case of plants and hedges, in particular, it is best that the water used should never be too cold: sprayers or lances are ideal for delivering atomized water at the most suitable temperatures.







### ***Protection of plants, hedges and lawns***

**The preservation of green areas** is a major concern, especially in the urban context: indeed plants play a role of fundamental importance not only from the health and hygiene standpoint, as the optimum antidote to pollution, but also because of **the recreational, cultural, social and aesthetic needs** they are able to satisfy.

Besides needing water, all plants, hedges and lawns must be fed with other substances that are essential if they are to prosper. **Treatments and disinfestations** of green areas – including crops, small plantations and greenhouses – are carried out generally with the aid of **mistblowers and sprayers**.

The essential purpose of these machines is to **atomize the active chemical** in solution with water, and spray it at the **vegetation being treated**. They can **spread liquids** (such as fungicides and pesticides) **or powders formulated to safeguard the health and growth of the vegetation**.

In connection with this family of machines, mention should be made of the **technological progress** made in recent years as regards their general specifications and **materials, the adaptation of their performance to the needs of particular tasks, and in the areas of safety, health and hygiene**.

As a general rule, finally, it should be remembered that these types of treatment are best done when conditions are cooler, avoiding the middle part of the day. Also, to ensure that treatment products are used effectively and to avoid releasing excessive amounts into the environment, spraying or dusting operations should not be undertaken in windy or rainy conditions.





A **complete range** of self-priming and centrifugal water pumps, suitable for every kind of home and professional irrigation requirement, as well as building and deflooding services. **Lightweight and easy to handle**, yet **tough and dependable**, these are pumps with a high head-to-flow ratio, offering maximum flexibility under any conditions, and optimum efficiency even with long suction runs.



## Guide to water pump selection

WP 30 - WP 300 (Euro 2)		Total head H (m)							
		1,5	3	5	10	15	20	25	30
Total length of pipeline Ø 20mm	5	137	132	128	124	108	98	72	57
	20	108	104	100	89	76	63	57	41
	50	82	79	76	67	58	46	33	12
	100	62	60	57	50	43	34	25	10
	200	46	44	42	37	32	25	16	
	300	28	27	25	22	20	15		
L (m)		Flow rate Q (l/min)							

SA 30 TLA		Total head H (m)							
		1,5	3	5	10	15	20	25	30
Total length of pipeline Ø 40mm	5	266	260	247	205	185	150	100	50
	20	240	230	220	195	167	132	85	45
	50	202	195	185	165	142	115	72	40
	100	170	162	157	140	118	98	70	37
	200	130	127	120	107	92	76	55	
	300	90	87	82	72	63	51	40	
L (m)		Flow rate Q (l/min)							

SA 45 TL		Total head H (m)							
		1,5	3	5	10	15	20	25	30
Total length of pipeline Ø 50mm	5	520	510	498	453	394	328	255	166
	20	477	468	450	400	357	290	228	146
	50	403	395	377	340	295	247	200	128
	100	327	318	310	280	242	205	166	111
	200	255	247	237	218	186	166	130	94
	300	170	166	162	145	130	110	90	70
L (m)		Flow rate Q (l/min)							

FS 45 TL		Total head H (m)							
		1,5	3	5	10	15	20	25	
Total length of pipeline Ø 50mm	5	530	510	500	450	360	250	60	
	20	490	470	450	375	300	200	55	
	50	390	375	350	300	250	150	50	
	100	300	290	275	240	180	125	40	
	200	230	220	210	180	140	100		
	300	150	140	135	120	95	65		
L (m)		Flow rate Q (l/min)							

SC 33		Total head H (m)							
		1,5	3	5	10	15	20	25	30
Total length of pipeline Ø 40mm	5	308	300	286	250	205	160	120	55
	20	270	260	250	220	185	150	100	53
	50	222	212	203	180	152	123	90	50
	100	177	171	165	148	125	102	78	40
	200	137	130	125	110	98	80	58	
	300	90	88	82	75	65	52	40	
L (m)		Flow rate Q (l/min)							

## Proper maintenance of water pump

### Routine maintenance of self-priming/non self-priming water pumps

- After every 10 hours operation, clean the **air filter** (metal strainer version) with petrol, dry off and refit; for versions with foam or cloth air filter, shake the element out thoroughly and blow clean with compressed air. Replace if damaged.
- Periodically, check the condition of the **fuel filter**; on versions with float-type carburettor, the filter is located on the carburettor fuel line fitting and should be cleaned with petrol. For versions with diaphragm carburettor, replace the filter if dirty.
- Clean the **spark plug periodically** and check the **electrode gap** (0.5 mm); on 4-stroke versions, check the **level of the oil** after every 10 hours operation and renew after 50 hours.

### Proper maintenance of high-pressure water pumps

- Check the level and condition of the **oil**.
- Inspect the **suction filter** and clean if necessary.
- Check the **inflation pressure of the accumulator**.
- Check the integrity of the **suction circuit**.
- Check that the pump is **secured** firmly to the **structure** of the relative machine.

### Major servicing

- Every 300 hours, check the **suction/discharge** balance.
- At least once a year, inspect the **diaphragms** of the high-pressure pump and **replace** if necessary.
- **Renew the oil** and check the **tightness of the bolts** securing the pump assembly.



## Self-priming water pumps

WP 30



	WP 30*	SA 30 TLA	SA 45 TL	FS 45 TL
	WP 300 (Euro 2) *			**
Power	1.3 HP - 1.0 kW	2.1 HP - 1.6 kW	3.4 HP - 2.5 kW	3.5 HP - 2.6 kW
Displacement	30 cm <sup>3</sup>	50.2 cm <sup>3</sup>	98.2 cm <sup>3</sup>	147.7 cm <sup>3</sup>
Max. flow rate/Max. head	150 L/min/36 m	270 L/min/30 m	580 L/min/40 m	580 L/min/26 m
Suction Ø/Delivery Ø/Suction head	1"/25.4 mm/7 m	1.5"/38.1 mm/7.3 m	2"/50.8 mm/7.5 m	2"/50.8 mm/7.5 m
Pump type	centrifugal	centrifugal	centrifugal	centrifugal
Total dry weight	5.5 Kg	8.5 Kg	14.2 Kg	20.8 Kg



\* available from spring 2010

\*\* 4-stroke engine.

## Non self-priming water pumps



SC 33

Power	2.1 HP - 1.6 kW
Displacement	50.2 cm <sup>3</sup>
Max. flow rate/Max. head	320 L/min/30 m
Suction Ø/Delivery Ø/Suction head	1.50"/38.1 mm/7.3 m
Pump type	centrifugal
Total dry weight	6.5 Kg



## High-pressure water pump



C 19/20

Power	2.1 HP - 1.6 kW
Displacement	50.2 cm <sup>3</sup>
Max. flow rate	19 L/min
Max. pressure	20 Kg/cm <sup>2</sup>
Weight	10.2 Kg







**Designed to give users maximum convenience, long uninterrupted spells of operation and high efficiency.** Innovative technological design solutions guarantee intensive and uniform treatments, effected in rapid time and with maximum practicality. A must for any grower intent on keeping a greenhouse, field crop or plantation perfectly healthy all year round.



## Proper maintenance of mistblower

- Periodically, inspect the **air filter**, and replace if damaged; inspect the **fuel filter**, and replace if dirty.
- Check the **spark plug** periodically and check the **electrode gap** (0.5 mm).
- Clean the **fan cowl** periodically, freeing the grill of dirt and debris.
- Clean the **cylinder fins** periodically, removing dirt and debris with a brush and compressed air.
- Remove the **flame-trap mesh** from the exhaust silencer once a week, and clean off carbon deposits.
- Inspect the **liquids filter**, wash in clean detergent and dry off; clean the **ULV filter** by blowing compressed air through the six orifices.
- When using a mistblower to deliver notably aggressive chemicals, check and/or replace the **seals**.
- Clean the equipment thoroughly after each treatment.



## Guide to mistblower selection

Designed for use in the garden or in smallholdings, these are machines for the discerning user, keen to benefit from the latest technological solutions.

- Driven by **powerful and reliable engines** of around **60-70 cm<sup>3</sup>** displacements, they offer users maximum convenience, long uninterrupted spells of operation, and high efficiency.
- **Backpack design reduces carrying weight** to render the task of the operator that much easier.
- Mistblowers come with **2-stroke engines in various sizes** depending on the type of use intended.
- They incorporate a **booster pump** – ensuring a longer throw of sprayed liquids to give better results on taller vegetation – and a **ULV kit** that optimizes the delivery of sprayed liquids to prevent waste.
- Standard features include **easily accessible controls and capacious tanks**.
- Other particularly useful accessories are a **conversion kit for treatments utilizing powdered or small**

## Backpack mistblowers



AM 162

	AM 162	MB 80
Power	4.5 HP - 3.3 kW	5 HP - 3.7 kW (SAE)
Displacement	61.3 cm <sup>3</sup>	72.4 cm <sup>3</sup>
Max. air flow	20.0 m <sup>3</sup> /min	16.0 m <sup>3</sup> /min
Liquid delivery rate	0.67 ÷ 5.15 L/min	0.5 ÷ 3 L/min
Liquid tank capacity	16.0 L	14 L
Weight	11.5 Kg	12.5 Kg







Ideal for **targeted** and **selective treatments**, thanks to the convenient pressure and atomization controls. The machine directs the spray just where it is needed, **avoiding unnecessary waste** and ensuring plants and crops are not damaged. **High resistance to stress** assured, even when for lengthy stints and operating in hostile conditions.

## *Proper maintenance of sprayer*

Maintenance of backpack and wheelbarrow sprayers in petrol engine and electric versions

- Inspect the **air filter**, and replace if clogged or damaged.
- Check the condition of the **fuel filter** periodically; if soiled excessively, discard and fit a replacement.
- Clean the **cylinder fins** periodically, removing dirt and debris with a brush and compressed air.
- Periodically, clean the **spark plug** and check the **electrode gap** (0.5 mm).



## *Guide to sprayer selection*

For **targeted and selective treatment on vegetation and crops** the recommended machines are **backpack models** equipped with **petrol engines of between 20 and 30 cm<sup>3</sup> displacement**, preferably with primer and Lift Starter for easy ignition. Equally important is the possibility of pressure adjustment, to **precisely match the flow pressure to the type of use**. Available with different lances with multiple jets for a larger angle of atomisation.

For **spraying and disinfection treatments on medium to large-sized plantations and crops**, **wheelbarrow models with electric motor or petrol engine** are preferable. Capable of generating a flow rate in excess of **15-20 litres/minute** they are equipped with 50-litre and 80-litre tanks which allow for lengthy periods of operation between stops. Rubber-tyre wheels ensure easy transit, even over rough



## Backpack sprayer



### SP 126

Power	1.2 HP - 0.9 kW
Displacement	25.4 cm <sup>3</sup>
Liquid tank capacity	25 L
Max. delivery rate	8 L/min
Max. pressure	35 Kg/cm <sup>2</sup>
Weight	9.0 Kg



## Wheelbarrow sprayers



	SC 150	SC 180	SC 150 E	SC 180 E
Power	2.1 HP - 1.6 kW	2.1 HP - 1.6 kW	1.25 HP - 0.9 kW	1.25 HP - 0.9 kW
Displacement	50.2 cm <sup>3</sup>	50.2 cm <sup>3</sup>	-	-
Liquid tank capacity	55 L	80 L	55 L	80 L
Max. delivery rate	19 L/min	19 L/min	19 L/min	19 L/min
Max. pressure	20 Kg/cm <sup>2</sup>	20 Kg/cm <sup>2</sup>	20 Kg/cm <sup>2</sup>	20 Kg/cm <sup>2</sup>
Weight	31 Kg	33 Kg	33 Kg	34 Kg



SC 180



# Other power equipment











Machines for mechanized harvesting of olives and other fruit, offering a **level of efficiency 5 times greater** than with manual methods.

Designed to the **highest quality standards** and able to meet the needs of a demanding clientele no less interested in high performance, these shakers also ensure minimal stress on plants, and excellent operator comfort.

## *Proper maintenance of shakers*

- Inspect and clean the **air filter** periodically, replace if necessary.
- Check the condition of the **fuel filter** periodically, replace

if excessively soiled.

- Clean the **cylinder fins** by brushing or by blasting with compressed air, to ensure efficient cooling.
- Clean the **spark plug** periodically and check the **electrode gap**.
- Clean the appliance periodically, blasting with compressed air and wiping with a rag.
- Keep the **handgrips** free of oil and fuel.
- Renew worn **hook end rollers**.
- Periodically check the **level of oil in the transmission**.
- Check the **anti-vibration system** periodically and restore the correct setting.



## *Guide to shaker selection*

**Powerful, dependable and comfortable to use.** Ideal for mechanised harvesting of olives and other fruit, offering a level of efficiency 5 times greater than with manual methods.

For **professionals** engaged in the cultivation and maintenance of olive groves, **hook-end style models** are the perfect solution. Equipped with **petrol engines rated over 2.5 HP**, they deliver lasting reliability, even in tough conditions and when used for long hours at a stretch. For optimal working efficiency the machine should guarantee at least 1,200 cycles per minute.

For demanding **private users or agricultural operators**, the ideal machines are **finger-style models**, which are **effective, lightweight and easy to handle**.. Available with **petrol engine** or **electric motor**, they are capable of between 1,000 and 1,300 cycles per minute. They are generally supplied with alternative

## Shaker with hook end



**Vib Cut**

**OS 530 ERGO**

Displacement	52.5 cm <sup>3</sup>
Power	2.8 HP - 2.1 kW
Air filter	paper element
Carburettor	with compensator
Fuel tank capacity	1.5 L
Extension rod lengths	2 m and 3 m
N° cycles per minute	1360 (at 8000 rpm engine speed)
Hook travel	60 mm
Weight	14.5 Kg (without rod and hook)

## Shakers with finger end

OS 255



**OS 300 E**

Power	250 kW
Displacement	12 V
Extension rod lengths	1.5 m - 2.2 m / 1.85 m - 2.7 m
Tube diameter	34 / 28 mm
Drive shaft	10 mm
N° cycles per minute	1150 - 1250
Weight	3.0 Kg



**new**



**OS 250 L**

**OS 255**

Displacement	25.4 cm <sup>3</sup>	25.4 cm <sup>3</sup>
Power	1.2 HP - 0.9 kW	1.0 HP - 0.8 kW
Fuel tank capacity	0.6 L	0.75 L
Extension rod lengths	2 m	1.5 m - 2.2 m / 1.85 m - 2.7 m
Tube diameter	26 mm	34 / 28 mm
Drive shaft	8 mm	10 mm
N° cycles per minute	1300 (at 8000 rpm engine speed)	1300 (at 8000 rpm engine speed)
Weight	2.7 Kg	7.8 Kg





Ideal for **cleaning outdoors** around the home, in the garden and the garage: a natural addition to the Emak range of products for gardening and plant care. **Vanguard materials and manufacturing methods** combine with **innovative design** to ensure hygiene, cleanliness and optimum results. Special electrical device ensures smooth power-up and start, whatever the type of connection to the mains supply.

### *Proper maintenance of high pressure washers*

- Check the **power cable**, high pressure hose, fittings and lance hose.
- Periodically check the **level of oil in the pump**, and change the oil when necessary.
- Clean the **water inlet filter** periodically.
- Check the **water circuit** of the pump, and change the hoses if necessary.
- Clean the **jet nozzle** periodically, using the special pin provided.
- Check the **inlet and outlet valves** of the pump.
- Check the pump **control valve**.
- Check the **tightness of the pump screws**.
- Inspect the **safety devices**.



### *Guide to high pressure washer selection*

For **cleaning outdoor areas around the home**, garden or garage, we recommend **cold water high pressure washers**, which are designed to ensure convenient and practical cleaning. Supplied with a **generous standard equipment package**, these high pressure washers deliver lasting performance and efficiency.

**Professional users** should opt for the professional **cold water high pressure washers**, which assure structural strength and dependability in any working conditions thanks to **internal parts made of stainless steel and brass**, as well as tough piston pumps with control valve and pressure gauge.

For **cleaning large areas** (such as yards and arcades), **industrial facilities** such as factory floors or machinery, and whenever the extra cleaning power of hot water is required, we recommend the **hot water electric high pressure washer**. It incorporates a **vertical boiler with double spiral coil**, for fast water



## Electric high-pressure washers (cold water) for home use



	PW 121 C	PW 136 C	PW 145 C	PW 155	PW 170 C
Max. pressure	130 bar	140 bar	150 bar	150 bar	155 bar
Max. flow rate	360 L/h	410 L/h	480 L/h	480 L/h	540 L/h
Rated power	1700 W	2000 W	2300 W	2300 W	2700 W
Voltage	230 V	230 V	230 V	230 V	230 V
Pump	metal	metal	brass	brass	brass
Hose reel	yes	yes	yes	no	yes



## Electric high-pressure washers (cold water) for professional use



PW 210 C

	PW 190	PW 210 C
Max pressure	140 bar	150 bar
Max flow rate	540 L/h	600 L/h
Rated power	2600 W	2900 W
Voltage	230 V	230 V
Pump	brass	brass
Hose reel	no	yes

## Electric high-pressure washer (hot water) for professional use



	PW 300 HC
Max pressure	150 bar
Max flow rate	540 L/h
Rated power	2700 W
Voltage	230 V
Pump	axial 3-piston with brass head
Hose reel	yes





Machines for **gardeners, growers and landscaping contractors**; indispensable for soil preparation, cultivation and general tillage over sizeable expanses.

**Sturdy, yet easy to handle**, these machines will make light work even of the hardest and most uncultivated soils, when preparing for future grass or crop seeding.

## *Proper maintenance of rotary tillers*

- Change the **engine oil** after every 6 months or 50 hours of use.
- Check the **fuel filter** periodically, replace if damaged or excessively soiled.
- Clean or replace the **air filter** periodically.
- Keep the **cooling circuit** clean, and clean or replace the spark plug periodically.
- Clean the **cylinder fins** periodically by brushing, or blasting with compressed air.
- Periodically lubricate the **mechanical linkages, control cables and belt tensioner pivot** with oil.
- Check the **condition of the blades** periodically and sharpen or replace as necessary.
- At least once during every season, **check the tightness of all nuts and bolts**, especially those of the blade rotor.
- Check the **spark arrester screen** periodically and replace it if holed, bent or buckled.
- Check the **level of oil in the gear case** before using the machine, every time. Change the oil periodically.
- Inspect and adjust the **tensioner and propulsion control cables**.



## *Guide to rotary tiller selection*

Robust and reliable, easy to handle and user-friendly, rotary tillers are indispensable for soil preparation, cultivation and general tillage over sizeable expanses.

For **private users** with **small to medium-sized plots and gardens** requiring periodic maintenance and various work, choose models with **60 to 80 cm rotors**, which have **powerful engines rated up to 6 HP**. **Adjustable handlebars** allow the operator to work more comfortably.

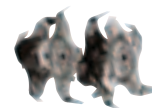
**Professional models with 90 to 100 cm rotors** are ideal for gardeners and growers alike. **Devised to give exceptional performance even on unyielding and uneven soils**, they are useful for cultivation duties and landscape maintenance. These models, with **rotors up to 100 cm**, are **fitted with a reverse gear** which facilitates manoeuvring the machine and repositioning it after each pass. **Includes adjustable**

## MH 130

Engine make/model	Honda GX 25
Displacement	25 cm³
Gearbox	1 forward speed
Rotor	2+2 blades - 30 cm



Set of 4 cutters



Roller brush



Scarifier



Plough



## Rotary tillers for home use



MH 180 R

	MH 160	MH 180	MH 180 R	MH 190	MH 190 R
	MH 165	MH 185	MH 185 R	MH 195 X	MH 195 RC
Engine make/model	B&S Intek	B&S Intek	B&S Intek	Honda GX 160	Honda GC 160
Power/Displacement	5.5 HP - 4 kW	5.5 HP - 4 kW	5.5 HP - 4 kW	163 cm³	160 cm³
Gearbox	1 forward speed	1 forward speed	1 forward speed + 1 reverse	1 forward speed	1 forward speed + 1 reverse
Rotor	2+2 blades 60 cm with protection discs	3+3 blades 80 cm with protection discs	3+3 blades 80 cm with protection discs	3+3 blades 80 cm with protection discs	3+3 blades 80 cm with protection discs

## Rotary tillers for professional use

	MH 210 R	MH 250 R	MH 260 R
Engine make/model	Honda GX 160	Honda GX 160	Honda GX 200
Power/Displacement	163 cm³	163 cm³	196 cm³
Gearbox	2 forward speeds + 1 reverse	3 forward speeds + 1 reverse	6 forward speeds + 2 reverse
Rotor	3+3 blades 90 cm with protection discs	3+3 blades 100 cm with protection discs	3+3 blades 100 cm with protection discs

MH 210 R







Used for **sinking holes** to receive vines and plants in general, greenhouse poles or fence uprights, lampposts. Machines affording **superior mechanical strength** under the most hostile of conditions, in all operating positions and for the toughest of jobs on the hardest of soils.

### *Proper maintenance of earth augers*

- Inspect and clean the **air filter periodically**.
- Check the state of the **fuel filter periodically**, and replace if necessary.
- To ensure efficient cooling, clean the **cylinder fins** by brushing, or blasting with compressed air.
- Clean the **spark plug periodically** and check the **electrode gap**.
- After every 100 hours of use, change the **grease in the gear case**.
- Inspect the bit regularly for signs of wear and damage.
- Check the **flight and the pilot tip**, sharpening or replacing as necessary.



### *Guide to earth auger selection*

For **small holes** we recommend medium-power models (**40-60 cm<sup>3</sup>** displacement) which are ideal for individual work, since the engine controls can be operated using one hand.

For **larger holes and harder soils** which require the presence of two operators, we recommend the high-power professional models (**70-90 cm<sup>3</sup>** displacement), with double handle and reversing gear. The two-man professional models can also be used with auger bits of smaller diameter by fitting the adapter supplied.

## Earth augers



### MTL 51

### MTL 85 R

Power	2.1 HP - 1.6 kW	5.7 HP - 4.2 kW
Displacement	50.2 cm <sup>3</sup>	80.7 cm <sup>3</sup>
Bit diameter	8-10-15-20 cm	from 8 to 50 cm
Weight without bit	9.1 Kg	30.6 Kg

MTL 51







Ideal for construction and agricultural duties involving the **transportation of bulky and heavy loads** on steep gradients or over rough terrain. Designed to stringent quality standards, these machines offer **top performance** in terms of carrying capacity, **matchless long-term reliability** and a **high level of operator safety** even on steep gradients.

## *Proper maintenance of transporters*

- Check the **oil level** regularly and change the oil whenever necessary.
- Inspect and clean the **air filter** periodically, replacing as necessary.
- Keep the **cooling circuit** clean, and clean or replace the **spark plug**.
- Change the **transmission** oil after the first 50 hours of use and then after every 100 hours of use.
- Inspect and clean the **brake assembly** periodically.
- Adjust the side-mounted **halfshaft release and brake levers**.
- Check the **track tension adjustment** periodically.



## *Guide to transporter selection*

For **carrying firewood or harvesting fruit on private land**, the ideal choice is the **manual dump transporter**, which generally offers a load capacity of **up to 400 kg**. A useful feature is the **telescoping dumper body**, which facilitates loading operations and makes it easier to carry very bulky loads.

On the other hand, if you are looking for a transporter which guarantees **matchless long-term reliability** and **solid grip on any type of terrain**, the recommended option is a **professional transporter with load capacity of between 400 and 600 kg**. Equipped with **manual or hydraulically-operated dumper body**, they also incorporate telescoping and fully collapsible sides.

An essential feature is the **tight turning radius**, for easy manoeuvring even in confined spaces.



## Transporters for home use



CR 340

	CR 270	CR 340
Engine	B&S 625 series	B&S 700 series
Displacement	190 cm <sup>3</sup>	160 cm <sup>3</sup>
Load capacity	270 Kg	350 Kg
Gearbox	2 + 2	2 + 2
Lift/dump	manual	manual
Body	telescoping	telescoping

## Professional transporters



	CR 450	CR 560	CR 560 H	CR 560 HD
Engine	Honda GX 120	Honda GX 160	Honda GX 160	Honda GX 160
Displacement	118 cm <sup>3</sup>	163 cm <sup>3</sup>	163 cm <sup>3</sup>	163 cm <sup>3</sup>
Load capacity	450 Kg	550 Kg	550 Kg	550 Kg
Gearbox	3 + 1R	4 + 2R	4 + 2R	4 + 2R
Lift/dump	manual	manual	hydraulic	hydraulic
Body	telescoping	telescoping/ collapsible sides	telescoping/ collapsible sides	dumper



CR 560 HD

Operator safety is one of the top priorities for manufacturers of gardening machines. In addition to designing and implementing technological devices designed exclusively to safeguard the user, **Oleo-Mac** also presents a genuinely comprehensive range of **protective clothing** and a generous selection of accessories designed especially to improve levels of safety still further, all of which type approved to **EC standards**.

# Protective clothing



### Helmet with ear defenders, visor and nape cover

EC approval, standard EN 397 and KWF certification. Personal protective equipment category 3. Made of UV-stable ABS. Complete with adjustable ear defenders (EC approval, standard EN 352-3) and mesh face screen (EC approval, standard EN 1731-S). Adjustable internal fabric edging with 4-point fitting and absorbent material with sweat shield and protective neck flap. Lightweight and strong.

### Professional mesh visor with hearing defenders

Professional mesh visor with EC approval, made to standard EN 1731-S. Double adjustment with terry cloth headband. Complete with EC approved adjustable hearing defenders made to standard EN 352-1.



### Professional ear and hearing defenders with FM stereo radio

Approved in conformity with PPE Directive 89/686 EEC and the applicable sections of European standard EN 352-1: 1993/pr EN 352-3. The music volume at the earphone has been measured in tests and corresponds to a maximum sound pressure level of 80 dB(A). Designed for people who work or do their hobby outdoors – in woods, gardens, parks, etc - to protect your hearing and listen to the radio at the same time.



### Chain-resistant protective jacket

EC approval, standards EN 340 and EN 381-10/11: PPE category 2 - class 1. Resistant to chain speeds of up to of 20 m/sec. Made from breathable material composed of 33% cotton and 67% polyester. Complete cutting protection for arms, shoulders, and chest. Two front pockets, elasticated cuffs, double pull zip.



### Protective goggles – bronze

Goggles with bronze-tinted polycarbonate lenses. EC approval, standard EN 166: 2001 Optical class 1. PPE category 2. Free of optical distortion (EN 166-170), impact resistant, 100% UV filtration (EN 172), anti-fog, anti-scratch, anti-static and anti-glare in sunlight. Lenses adjustable.



### Professional anti-vibration gloves

EC approval, standards EN 420 - EN 388. PPE category 2. Made of 1.2 – 1.4 mm gauge full-grain cowhide. Double thickness on palm and thumb to provide high wear resistance and greater comfort. Elasticated cuff prevents the entry of foreign matter. Leather guard protecting wrist artery. Special anti-vibration feature fitted to palm and back for maximum attenuation of vibrations.



### Safety dungarees for brushcutters

EC approval, standard EN 340 - PPE category 1 – class 1. Made from breathable material composed of 33% cotton and 67% polyester, with tough protective facing on the front of the legs. Shoulder straps, elasticated waistband, side opening secured with buttons, one bib pocket, two front pockets and ruler pocket on one side.



### Chain-resistant forestry boots

EC approval, standard EN ISO17249 (class 2), EN-ISO20344, EN-ISO20345 (class S3CI-HRO). PPE category 2 - class 2. Resistant to chain speeds of up to 24 m/sec. Boots with full grain water-resistant leather upper, laced to the top, and inner of leather and breathable fabric, impact-resistant padding at calf height, anatomically contoured footbed of antistatic "EVA" with high sweat absorption / deabsorption coefficient. Sole in vulcanized HRO rubber (resistant to temperatures up to 300 °C) with deep cleated tread, puncture resistant sole plate, rigid toecap and blade guarding from instep up to shin, and on the sides.



### Chain resistant dungarees

EC approval, standards EN 340 and EN 381-5: 1995 type A, PPE category 2 - class 1. Resistant to chain speeds of up to 20 m/sec. Made from breathable material composed of 33% cotton and 67% polyester. Chain protection 180° + 5 cm at sides. Side opening secured with buttons. 1 bib pocket, 2 front and 1 side. Elasticated waistband with loops for belt and shoulder straps. Modified bib has extra wraparound width, providing additional comfort and limiting penetration of sawdust.



## Accessories and spare parts - the value of being original



To ensure machines will give long service and stay effective throughout, **always use original spare parts and accessories**: a certain way to continue reaping the benefits of performance and safety standards offered by chainsaws, lawnmowers, brushcutters, garden tractors and all other products in the **Oleo-Mac** range.

To find out about the extensive range of original parts and accessories, consult an **Oleo-Mac** authorized dealer.

### **"PROSINT 2" special oil for 2-stroke engines**

Special "PROSINT 2" synthetic ester-based lubricant, expressly formulated for high-performance 2-stroke engines. Special oil for use at 2% (50:1). Effective lubrication at high temperatures. Low emissions, reduced wear and clean engine. Its pre-fluidified composition makes preparing the mixture easy. Colour: dark red.

Exceeds API TC, JASO FC and ISO-L-EGD specifications.



### **"LIFE-LUBE" guide bar and chain protector**

A compound formulated expressly for the protection of bars and chains, easily biodegradable, guarantees appreciable protection against wear and seizure.

### **Special oil for 4-stroke engines - SAE 10W - 30**

Synthetic oil based lubricant, SAE 19 W - 30 grade, specifically developed for 4-stroke air- and water-cooled engines used in gardening sector applications. High-performance all-season oil containing a special combination of additives that give excellent detergent and dispersant, antioxidant, anticorrosive, and anti-wear properties.

Exceeds API SL/CF specifications.



### **Special grease**

Special high quality lithium grease with molybdenum bisulphide, recommended for any mechanical component subject to heavy loading.

Exceeds ISO 6743-9; DIN 51825 KPF 2K - 30 specifications.

### **"ADDITIX 2000" special additive for petrol and diesel fuels**

Ideal for conditioning diesel fuel, 2-stroke mixture and leaded or unleaded petrol. Prevents deterioration of fuel for at least 12 months and protects against oxidation. Facilitates starting, keeps fuel system clean, and protects against rust and corrosion.







## Greater peace of mind and efficiency thanks to technical assistance



### Advantages offered by Oleo-Mac dealerships

- **Advice on purchase:**  
the **Oleo-Mac** dealer will **advise** you on the **machine** best suited to your needs, and provide all pertinent information on correct use of the product.
- **Specialized technical service:**  
users are ensured **quality repairs**, carried out as quickly as is practically possible. Products for home use are guaranteed two years.
- **After-sales service:**  
all **Oleo-Mac** dealers are skilled operators who regularly attend **refresher and specialization courses** enabling them to offer the customer clear and comprehensive information, always in line with developments in the sector.
- **Original parts and accessories:**  
repairs or replacements of components are carried out using only **Oleo-Mac** original spare parts and accessories. A guarantee that machines will maintain their performance undiminished over time.



Mowing the lawn, clearing up grass and twigs, trimming hedges or thinning the foliage of trees, watering, pruning, these are important jobs that need to be done, if gardens or outdoor areas are to look good and stay healthy, but they can also be of value simply as **enjoyable pastimes** for lovers of greenery and life in the open air.

Enjoyable, thanks not least to the **high standards** offered by all **Oleo-Mac** machines in terms of **performance, comfort and safety**. A machine must be used correctly and **properly maintained** if it is to retain its original quality, add value to the work of the operator and deliver the expected service life and long-term reliability. Accordingly, the careful observance of a few simple guidelines will ensure you continue to derive maximum satisfaction from your machine.

- Contact **only an Oleo-Mac authorized dealer when making a purchase**: you will be advised as to which is the best machine for your needs, told about correct and safe operating procedures, and instructed how to prepare it for first time use;
- Every machine is accompanied by an **Operator Instruction Book** included in the packaging, which you will receive at the moment of purchase: be sure to read the book carefully before use;
- Have your product **checked over periodically** by an **Oleo-Mac** authorized dealer: this will ensure the machine always stays in tip-top condition and matches up fully to your expectations;
- Always use **original spare parts and accessories**, which your **Oleo-Mac** authorized dealer will be able to supply.

Data and illustrations published in the catalogue are not binding where specifications of materials are concerned, given that these will always be subject to technical improvement. Technical specifications given in the catalogue are subject to change without notice, as also are directions relating to general use of the equipment.

Certain items are not available in all countries, or are available only on request.



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