

# Hermes Mulching Machines

# HM

since 1975



where **quality** comes  
as **standard**



since 1975



# Mulching machines

# HM

Circular (disk) mulching machines are Hermes's crowning achievement, available in the **HM (Hermes Mulching)** series and now in the **Fisarmonica** series, the company's latest addition.

Hermes started producing the **HM series** in 1975, to respond to the demand for machines that could cut grass quickly and effectively. By then, one of its founding partners, also a designer, already had a good understanding of farmers' requirements and anticipated their needs. In the late 70s, Hermes was already producing state of the art machines that quickly became a reference in the industry.

**HM** machines are the perfect blend of **reliability** and **strength**, cutting **speed** and **precision**, **innovation** and experience within the industry, **aesthetics** and **functionality**. They have been used by farmers all over Europe and around the world for many years, providing exceptional results; this is the reason why **Hermes** produces so many different models and versions suit-



# fisarmonica

able for all types of work: from the standard machine with no swing disk, to the versions with one and two swing disks. These machines are perfectly suited for today's farming needs: they allow to save time and fuel as their cutting system is fast and very effective. To this day, the machines in the **HM** series maintain the same characteristics that made them the perfect mulching machines forty years ago. **Maximum flexibility:** this is one of HM machines' main characteristics. **18 models**, over **75 different versions** and a complete range of options that allow agricultural firms to personalise their **HM** according to their needs.

To cut grass effectively, a machine with a rotating blade alone is not sufficient. In-depth knowledge, from years of experience in the field and constant feedback from customers are also essential requirements. Collaborating with customers, **Hermes** engineers have learned, day after day, how to cut grass in the most quick and effective way.

Hermes has used this evolving knowledge to create mulching machines that represent the best solution to maintaining grass surfaces in today's agriculture.

As a testimony to its spirit of innovation and great experience in the field, Hermes has recently launched a new range of machines called **Fisarmonica**. These new models are designed to solve pressing agricultural needs, allowing to cut grass very quickly, saving time and significantly reducing fuel consumption compared to hammer mowers. Today, **Fisarmonica** is without doubt the best machine for grass surface maintenance.

**Innovation, quality, reliability** and **strength** are why we are proud of our rotary mulching machines.





since 1975

# Rotary mulching machine **fisarmonica**



In recent years, farmers' equipment requirements have changed. However, the demand for machines that allow to improve and optimise production costs remains. Grass cutting is high on the agenda. As agricultural firms grow in size, skilled labour becomes increasingly difficult to find and cultivation techniques improve, the hectare/hour ratio needs to be reduced, in order to save time and money. To meet these requirements, Hermes, which has always invested in rotary cutting machines, has developed the **Fisarmonica**. On one hand, the blades cut the grass with optimal results and low energy consumption; on the other, the system allows to cut even high grass very quickly (up to 10 km/ hour). Compared to a hammer mower, cost and time is reduced by 2/3.

In addition to reducing costs, the **Fisarmonica** is **very flexible**: the two lateral wings can be hydraulically controlled, to adapt to the width of the row. This feature is particularly useful to agricultural firms that have varying widths between the rows of trees, plants, etc.



## FISARMONICA

Watch the **video** of the machine in action on your smartphone.



Mod. Kombi

**Minimum working width**

What makes these machines so efficient is the fact that they are **easy and inexpensive to maintain**: the time and operations required for their ordinary maintenance are reduced by the fact that they are solidly and simply built. Large firms that have many machines particularly appreciate this aspect.

**Fisarmonica** is the ideal grass cutting machine. Its cutting system and flexibility is perfectly suited to today's **modern and efficient** way of maintaining grass surfaces.

# variable cutting width



## Maximum working width

Model		FI 125	FI 145	FI 160	FI 175
Minimum working width	cm	125	145	160	175
Maximum working width	cm	175	190	215	234
Side shift		nd.	nd.	nd.	nd.
3 point linkage ISO		I/II	I/II	I/II	I/II
Number of movable blades		2	2	2	2
HP	CV	20	23	30	35
Number of transfer cases		3	3	3	3
Kombi: version for front and rear PTO 540 revs/min-1		0	0	0	0
Kombi: version for front and rear PTO 1.000 revs/min-1		0	0	0	0
Rear roller with adjustable height, D.159 mm		S	S	S	S
Fixed front wheels with adjustable height and width		S	S	S	S
Pivoting front wheels with adjustable height and width		0	0	0	0
Simultaneous hydraulic regulation of lateral wings		S	S	S	S
Independent hydraulic regulation of lateral wings		0	0	0	0
Herbmulching: 100 lt herbicide tank with 12V pump		0	0	0	0
Herbmulching: 200 lt herbicide tank with 12V pump		nd.	nd.	0	0
Overall size - Length with closed swing disk	cm	130	150	165	180
Weight (standard version)	kg	400	480	550	650

0 = Optional nd = Not available

# HMM

## mulching machine



## HERMESMULCHING

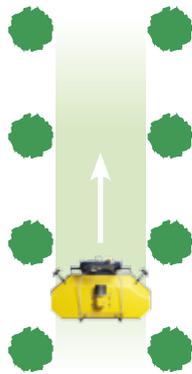
Watch the **video**  
of the machine  
in action on your  
smartphone.



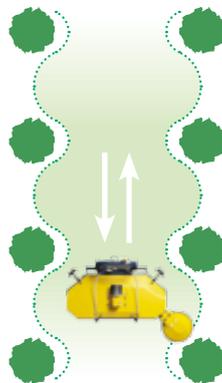
# CONFIGURATION



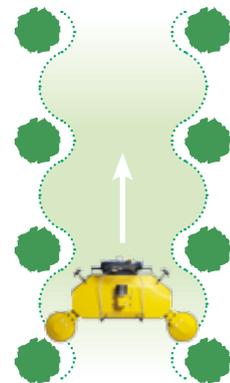
with no swing disk



with one swing disk



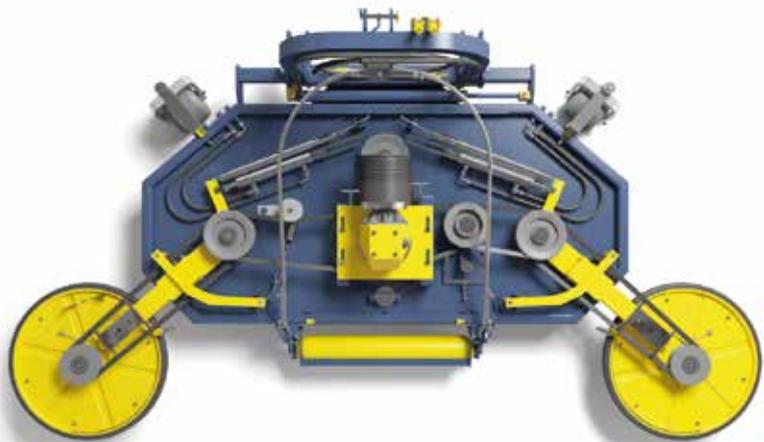
with two swing disks



The **HM** with one swing disk is ideally suited for wide rows of trees or plants that require the machine to pass twice. The swing disk allows for a continuously **variable swath**, but also acts as a safety device in the event of hitting an obstacle, as it retracts thanks to the spring return, which is standard in all models.

The flagship of the range, thanks to its **flexibility**, the HM machine with two swing disks is ideally suited for modern agricultural needs. The two swing disks allow for a **variable swath**. These machines are designed to solve agriculture's most pressing requirements: cutting grass by passing between rows just once, to reduce the hectare/hour ratio, avoiding the use of chemicals and drastically reducing fuel consumption.

The appliance **is easy to use** and has been developed with those firms in mind that wish to deal with the grass around the trunks mechanically or chemically. They can cut grass fast as they operate only between rows of trees, plants or vines. The decentralised position of the transfer case (to the left), the stability and fibreglass covering, make cutting possible where fruit or branches hang low.





HM

From a technical point of view, the machines all share the same principle: the transmission works with belts and pulleys, the blade shaft has 3 ball bearings, a robust C shaped frame, a Hermes transfer case proportionate to the model and a strong fibreglass covering very close to the ground. Last but not least, all models in the **HM** range are true to the same principle, which is shared by all Hermes machines: **quality**.

The transmission has the advantage of making the belt work a bit like a clutch: when the blade finds an obstacle, the belt absorbs the excess torque. The belt is one of the cheapest components and it is easy to replace, so **maintenance** costs over the years **are low**. This system has proved successful and is appreciated by many professionals in the sector. Except for the **HM115** and the **HM160**, all the machines in this series **have triangularly positioned blades** to guarantee **optimal results** at all times.

The size of the transfer case, which is built in-house, is proportioned to the model, to guarantee the optimal rotation speed of the blades at all times. In this series, the transfer case is on the left. This allows the machine to keep as much as possible to the right, for example if it has to pass through rows twice or if it has to cut under trees in an orchard.

To combine cutting and weeding, the machine can be equipped with a herbicide sprayer, called **Herbymulching**, with a tank of 100 or 200 litres (depending on the model).

# HM with no swing disk



Modello		HM115	HM150	HM160	HM175	HM200	HM265C	HM265L
Largh. di lavoro corpo macchina base	cm	115	155	160	175	200	265	265
Numero lame corpo macchina base/interfilare		2/-	3/-	2/-	3/-	3/-	4/-	4/-
Attacco a 3 punti ISO		I/II	I/II	I/II	I/II	I/II	I/II	I/II
CV assorbiti	CV	18	20	22	22	25	30	30
Posizione gruppo moltiplicatore centrale		S	S	S	S	S	S	nd.
Posizione gruppo moltiplicatore laterale		nd.	nd.	nd.	nd.	nd.	nd.	S
Frontale per presa di forza frontale 540 giri/min <sup>-1</sup>		nd.	0	0	0	0	0	0
Frontale per presa di forza frontale 1.000 Giri/min <sup>-1</sup>		nd.	0	0	0	0	0	0
Ruota/ruota		nd.	nd.	nd.	nd.	nd.	nd.	nd.
Rullo/rullo		0	0	0	0	0	0	0
Ruota/rullo		S	S	S	S	S	S	S
Ø Rullo livellatore posteriore regolabile in altezza	mm	159	159	159	159	159	2X159	2X159
Spost. Laterale massimo centro trattore	cm	85	125	nd.	145	162	165	230
Spost. Laterale meccanico macchina posteriore		S	S	S	S	S	S	S
Spost. Laterale idraulico macchina posteriore		0	0	0	0	0	0	0
Spost. Laterale meccanico (macchina frontale)		nd.	nd.	0	0	0	0	0
Spost. Laterale idraulico (macchina frontale)		nd.	nd.	0	0	0	0	0
Spost. Laterale maggiorato (20 cm circa) (macchina posteriore)		nd.	0	S	0	0	nd.	nd.
Herbmulching: impianto diserbo 100 lt con pompa 12V		0	0	0	0	0	0	0
Herbmulching: impianto diserbo 200 lt con pompa 12V		nd.	nd.	0	0	0	0	0
Ingombro totale - larghezza con interfilare chiuso (non valido per Mayor)	cm	123	163	168	183	208	273	273
Peso (riferito alle versione standard)	kg	250	290	300	330	370	340	470

0 = Optional nd = Not available



HM



The **HM** with one swing disk is ideally suited where the machine needs to pass twice between rows of trees, plants, vines, etc. The swing disk has a spring return that makes the disk retract when it hits an obstacle; once the obstacle is passed, the disk returns in position. The option to adjust the cutting height hydraulically, while maintaining the spring return, makes the machine easier to operate. The swing disk has a plate below the blades and an articulated arm that allows the disk to move vertically (approx. 10 cm), to adjust should it hit the ground.

**HM** machines with one swing disk (except for the **HM265C**), feature the transfer case on the left in order to allow the machine to keep as much as possible to the right; ideal when cutting grass under trees with very low, long branches.

Hermes's spirit of innovation is expressed at its best in the **HM301L Energy** model of this series: this machine is particularly suited for solar panel maintenance, as the side shift of over 2.90 m from the middle of the tractor makes it ideal to cut grass underneath solar panels. With this machine, Hermes once again proves its ability to offer solutions for new issues by building **technologically advanced machines**.

**HM** machines can be fitted with swing disks of different diameters: 45 cm, 55 cm and 65 cm. This allows to adapt the swing disk to the cutting distance required, and choose the most appropriate overall cutting width.

# HM one swing disk



Modello		HM161	HM201	HM221	HM251	HM301C	HM301L
Working width of the main body	cm	115	155	175	200	265	265
Tot. working width (with standard swing disk Ø45 cm)	cm	155	195	215	240	305	305
Tot. working width (with swing disk Ø55 cm)	cm	165	205	225	250	315	315
Tot. working width (with swing disk Ø65 cm)	cm	175	215	235	260	325	325
Number of blades of the main body/swing disk		2/1	3/1	3/1	3/1	4/1	4/1
3 point linkage ISO		I/II	I/II	I/II	I/II	I/II	I/II
HP	CV	20	22	25	30	35	35
Angle gear central		S	S	S	S	S	nd.
Angle gear left side		nd.	nd.	nd.	nd.	nd.	S
Front version for front PTO 540 revs/min-1		nd.	0	0	0	0	0
Front version for front PTO 1,000 revs/min-1		nd.	0	0	0	0	0
Wheel/Wheel		nd.	nd.	nd.	nd.	nd.	nd.
Roller/Roller		0	0	0	0	0	0
Wheel/Roller		S	S	S	S	S	S
Ø height adjustable rear roller	mm	159	159	159	159	2X159	2X159
Maximum side shift from middle of tractor	cm	135	175	195	210	210	280
Mechanic side shift rear machine		S	S	S	S	S	S
Hydraulic side shift rear machine		0	0	0	0	0	0
Mechanic side shift front machine		nd.	0	0	0	0	0
Hydraulic side shift front machine		nd.	0	0	0	0	0
Extra side shift (approx. 20 cm)		nd.	0	0	0	nd.	nd.
Herbmulching: 100 lt herbicide tank with 12V pump		0	0	0	0	0	0
Herbmulching: 200 lt herbicide tank with 12V pump		nd.	nd.	0	0	0	0
Swing disk spring return		S	S	S	S	S	S
Hydraulic cutting adjustment (spring return)		0	0	0	0	0	0
Overall size - Length with closed disk (not valid for Mayor)	cm	123	163	183	208	273	273
Weight (standard version)	kg	470	300	380	420	520	520

0 = Optional nd = Not available



**Flexibility** is the word that best describes **HM** machines with two swing disks. The two swing disks ensure a variable swath, ideal for farms that have varying widths between the rows of trees, plants, etc. Grass is cut with optimal results by passing just once between rows and, if required, between one tree or plant and the next. These machines are ideal for organic farming, where farms cannot use chemicals and must cut grass mechanically.

The transfer case is positioned in the middle (except in the **HM252L** model), the machine needs only drive once through the middle of a row of trees or plants.

To offload cut grass in any situation, HM machines with two swing disks feature a transfer case, built in-house, with particular characteristics: a double output that allows the blades to rotate in two opposite directions. Three of the blades rotate clockwise (four in the **HM302** model), while the other two (3 in the **HM302** model), rotate anticlockwise. Considering that these machines can cut up to a width of 3.75 m, this feature is essential: cut grass is offloaded uniformly and distributed at both sides of the machine.

As the other machines in this series, in the HM with two swing disks the transmission works with belts and pulleys. These machines have been designed to be easy to maintain, therefore, changing a belt is an easy operation to perform. Staff do not require any specific knowledge and belts can be replaced easily and quickly by acting on the screws.

# HM

## two swing disks



Model		HM202	HM222	HM252C	HM252L	HM302
Working width of the main body	cm	155	175	200	200	255
Tot. working width (with standard swing disk Ø45 cm)	cm	235	255	280	280	335
Tot. working width (with swing disk Ø55 cm)	cm	255	275	300	300	355
Tot. working width (with swing disk Ø65 cm)	cm	275	295	320	320	375
Number of blades of the main body/swing disk		3/2	3/2	3/2	3/2	5/2
3 point linkage ISO		I/II	I/II	I/II	I/II	I/II
HP	CV	30	33	35	35	40
Angle gear central		S	S	S	nd.	S
Angle gear left side		nd.	nd.	nd.	S	nd.
Front version for front PTO 540 revs/min-1		0	0	0	0	0
Front version for front PTO 1,000 revs/min-1		0	0	0	0	0
Wheel/Wheel		S	S	S	nd.	S
Roller/Roller		0	0	0	0	0
Wheel/Roller		nd.	nd.	nd.	S	nd.
Ø height adjustable rear roller	mm	159	159	159	159	159
Maximum side shift from middle of tractor	cm	2x150	216	2x190	2x210	2x210
Mechanic side shift (rear machine)		S	S	S	S	S
Hydraulic side shift (rear machine)		0	0	0	0	0
Side shift (front machine)		nd.	nd.	nd.	nd.	nd.
Extra side shift (approx. 20 cm)		nd.	nd.	nd.	nd.	nd.
Herbmulching: 100 lt herbicide tank with 12V pump		0	0	0	0	0
Herbmulching: 200 lt herbicide tank with 12V pump		nd.	0	0	0	0
Swing disk spring return		S	S	S	S	S
Hydraulic cutting adjustment (spring return)		0	0	0	0	0
Overall size - Length with closed disk (not valid for Mayor)	cm	163	183	208	208	263
Weight (standard version) kg	kg	420	440	480	480	630

0 = Optional nd = Not available



[www.hermesmulching.com](http://www.hermesmulching.com)

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