

FD 13.09 4WD STAGE5

Hydrostatic Out-Front Mower

Grillo
AGRIGARDEN MACHINES

FD 13.09

STAGE5

GRILLO design and build machines always giving careful consideration o the operator's needs, to transform work into pleasure



Grillo is your guarantee of quality.
The company strives for continuous improvement through innovation.
Continuous improvement results in quality and reliability and this, combined with excellent customer and spare parts service, means that **Grillo** machines retain their value over a long period.

FD 13.09

Hydrostatic mower perfect for maintenance

The **FD 13.09 4-wheel drive** hydrostatic mower has been specifically designed for cutting and collecting grass. Its wide cutter deck and spacious grass box, together with an extremely small turning radius makes it the ideal machine for green operators. Anywhere you need an immaculate and manicured finish.







The **integral permanent 4WD** system allows users to work in excellent **safety conditions on any slope**.

FD 13.09 is unequalled in the maintenance of school gardens, public parks, sports facilities, camping, riding areas ... anywhere you need both a nice and efficient cleaning.

FD 13.09 STAGE5

A well-done job combined with great reliability





Its agility, its ease travelling over curbs make **it ideal for the maintenance of road flower beds and round-abouts.**



FD 13.09 has a great cutting and collecting capacity; **it is unmatched in extreme conditions with high or wet grass.**
The grass box has an excellent discharge height, 200 cm of height and 20 cm of rear overhang, enabling the user to easily empty the grass box into a truck or container.

FD 13.09 is also ideal for collecting leaves.



FD 13.09

Versatile mower with functional applications and accessories





The **FD 13.09** can be equipped with:

132 cm mower deck with collection and hydraulic cutting height adjustment via button from the driver seat.
155 cm mower deck with collection, hydraulic cutting height adjustment and mower deck tilting via button from the driver seat and a lock valve to ensure both functions. Both equipped with mulching kit.

130 cm and 160 cm flail mower, they can be equipped with a scarifier kit (on demand).
The 160 cm can be also fitted (on demand) with a hammer flail blade kit.

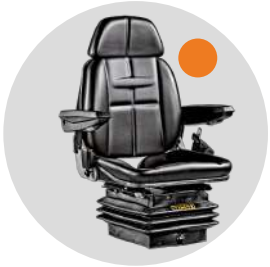
MP 130 cm cutter deck with three blades and an integrated mulch or rear discharge function.
The change between each function is easily carried out by means of a an electrical push-button on the dashboard.

LMP 160 cm cutter deck with three blades and three different functions: mulch, rear or side discharge.
The user can shift from a function to the other simply by removing the bulkheads (two kinds of blades are standard delivered).
This operation can be carried out easily and quickly in the field by the operator himself.

Comfort cabin with heating system.

150 cm front blade.

Pneumatic dampened seat



132 cm and 155 cm mower decks with collection

Grass catcher and load chute are perfectly aligned.



MP 130 cm mower cutting deck



LMP 160 cm mower cutting deck



FD 13.09 STAGE5 Professional mower with great cutting and collecting capacity



Mobile grass distributor



Complete compaction



Load accelerator

Load accelerator case is equipped with wear and tear sheet metal parts which are screwed and are therefore easily changeable.



Standard auxiliary hydraulic couplings.



Mulching kit as a standard feature on cutting decks with collection



Hydraulic-assisted and continuous cutting adjustment

FD 13.09 can be equipped with two kinds of mower deck, **132 cm or 155 cm with collection and mulching kit.** Both cutter decks are centre-positioned, extremely robust and transmission via cardan joint with oil-bath angle gearboxes.

The PTO hydraulic multi-disc clutch is equipped with a blade brake and electrically-operated, ensuring therefore greater reliability and maximum duration.
PTO and collection are engaged independently.

The cutting deck floats hydraulically maintaining constant surface pressure in all conditions allowing it to perfectly suit uneven ground.

Cutting height by means of an electrical push-button on the dashboard is continuous, thus allowing the operator to adapt the machine to all working conditions easily, quickly and precisely.

The innovative grass collection system employs a unique load accelerator which transfers mechanical energy to the clippings eliminating the need for large air flows, consequently noise and fuel consumption are drastically reduced whilst still maintaining excellent collection capabilities.
When blades are engaged, an electronic device activates first the load accelerator and then the blades to keep the grass chute clean and make collection easier.
Grass catcher and load chute are perfectly aligned.

The inside of the collector is equip-ped with a **filtering grid and a motorised grass distributor** that ensures complete filling and compaction of grass.
A sensor detects when the collector is full and disconnects blade rotation to prevent obstructions.

Two hydraulic electrically-operated PTOs are standard with front quick couplings to attach implements such as snow blades, brushes... max. flow 120 BAR and 18 litres/min.

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Compact mower with an excellent turning radius



FD 13.09 is a compact mower with a very narrow wheelbase, **equipped with power steering and a turning radius of only 31 cm.**
To obtain these features, **Grillo** has designed a special steering geometry, putting the axis of the steering wheel on the vertical side of the tire and equipping the steering arm with a double articulation.
Thanks to its front cutting deck, **FD 13.09** ranks at the top of its category for manoeuvrability, **efficiency and working speed around obstacles**.



FD 13.09 STAGE5

Powerful transmission and excellent stability

The latest **3TNV82A STAGE 5 1331 c.c. diesel engine (26 HP, 2800 rpm)** liquid cooled with electric fan and both automatic and manual cleaning, protects environment and human health by limiting the main polluting emissions. The engine calibration allows the optimisation of consumption and performance by improving the hourly mowing capacity and the economic return of the machine. It is possible to mow in public areas where specific legal norms foresee to reduce environmental impact.
Speed up to 15 km/h. Tank capacity 23 L.
Optimal stability thanks to a careful weight distribution.
The machine is equipped with a **permanent integral 4WD** system which is maintained even with the narrowest steering, **it is equipped with four hydraulic motors connected with a special valve and with a hydraulic variable displacement pump calibrated at 280 BAR offering high performances especially on steep slopes.**



In addition, **an innovative system allows to automatically engage and disengage the differential lock.**
It immediately detects the slope, thus considerably increasing the efficiency and the job safety even in extreme conditions.
It also frees the operator from engaging and disengaging the differential lock and guarantees full grip and stability of the machine.
This operation can also be carried out manually.
Thanks to its steering system, its hydraulic and wheel transmission system and the automatic stabilisation device, this machine does not spoil the grass and has a low tyre consumption.

FD 13.09 STAGE5

Excellent comfort and total safety



FD 13.09 is equipped with a large and comfortable driving position plus an adjustable suspension seat, armrests and excellent control ergonomics.
The position of the adjustable steering wheel makes the driver's seat suitable for all operators.

All hydraulic controls for both the grass box and the cutting deck are enganged through electrical buttons.

Excellent sound insulation due to a reduction in air flow noise.
The flexible coupling which keeps the grass chute and collector together combined with a special air filter, situated high up in clean air, makes the machine comfortable and suitable for long work sessions in large areas.

Both cutting blades and grass box are disengaged automatically when the grass box is full to prevent obstructions.

FD 13.09 is equipped with safety belts and homologated protective roll bar.
The roll-bar can be folded for easier operation under trees and obstacles.
The machine is equipped with lights to operate on public roads.







An electronic control unit and several sensors guarantee **the safety of the machine**.

FD 13.09 STAGE5

Simple maintenance and easy cleaning





Access to the engine compartment is easy.
The greasing points for routine maintenance are marked in a label near the driver's seat.

Access to the pre-filter, the engine air filter, the diesel filter and decanter and the hydraulic oil filter **is easy.** Even the battery is easily accessed, as well as the belt tensioner and the hydraulic PTO clutch.

The cutter deck can be raised vertically for maintenance and blade inspection. The mower deck can be quickly tilted **without dismount neither the cardan joint nor the load chute.**



The radiator opens outward to facilitate inspection and cleaning and **it is equipped with an automatic system which reverses the direction of the electric fan, in order to keep the whole surface of the radiator grid clean, and to guarantee constant control of the temperature.** If needed, this operation can also be carried out manually by the operator. In addition it is possible to have access to the belt tensioner and to the grass load accelerator electromagnetic clutch.



FD 13.09 has been manufactured with an extremely strong chassis, a cutting deck body reinforced in the main working points and an oversized grass collector support frame.
Extensive use of high performance steel was made in the assembling of the machine.
The hydraulic components of the FD 13.09 were designed to last over time.



Easy rear access to the hydraulic components such as the service pump, drainage points and **the grass grid can be removed for cleaning.**

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Beyond the product values that make the difference



Grillo Technical Assistance

SAT Servizio Assistenza Tecnica Grillo

Efficient, practical pre and after sales service with a single goal:
to always give our Customers quick, efficient answers.

Guarantee and Service Spare parts

Guaranteed machines. Spare parts service with fast delivery times:
value guaranteed over time.

GTS Grillo Top Service

Grillo Top Service

On-site presentation and demonstration.

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Hydrostatic mower with front cutting deck

TECHNICAL SPECIFICATIONS

	YANMAR 3TNV82A STAGE 5 1331 c.c. diesel engine (26 HP, 2800 rpm) 3 cylinders, EC (NRMM) Stage V (Europa), direct fuel injection. Liquid cooling with electric fan, equipped with manual and automatic device for radiator cleaning
DIESEL 23 L	**FUEL TANK CAPACITY:** 23 litres Average fuel consumption 3,6 L/H **HYDRAULIC OIL TANK:** 20 litres
	PUSH BUTTON DIFF-LOCK (also manual)
HYDROSTATIC	**STEERING SYSTEM**: wheel with powered steering **DRIVE:** hydraulic 4-wheel drive (permanent integral even on narrow turning radius) **SPEED:** 0-15 km/h: continuously variable **TYRES:** front 23 x 10.50-12; rear 18 x 8.50-8 **BRAKE:** service drum brake and parking brake
	GRASS COLLECTOR: 900 litres **HYDRAULIC DECK LIFT AND COLLECTOR EMPTYING** **DISCHARGE HEIGHT:** 2000 mm, **REAR OVERHANG:** 200 mm **CLUTCH:** hydraulic PTO, with magnetic blade brake **LOAD ACCELERATOR:** with swinging blades, belt transmission + independent electromagnetic clutch, diameter 350 mm **MOTORISED DEFLECTOR THAT ENSURES COMPLETE AND UNIFORM COLLECTOR FILLING** **AUTOMATIC DEVICE:** automatic disengagement of blades and load accelerator when collector is full **STANDARD AUXILIARY HYDRAULIC COUPLINGS**
	CUTTING HEIGHT: from 20 up to 100 mm (132 cm cutting deck), from 20 up to 120 mm (155 cm cutting deck) continuously adjustable via button **CUTTING WIDTH:** 132 cm (132 cm cutting deck) - 155 cm (155 cm cutting deck)
	SEAT: super comfort with armrests, suspension and adjustable (optional pneumatic seat) **STEERING WHEEL:** mounted on adjustable column **WITH LIGHTING KIT**
R	**STEERING RADIUS:** 310 mm
	ACCESSORIES: 1320 mm cutting deck with collection, 1550 mm cutting deck with collection, MP Cutting deck with 1300 mm, LMP Cutting deck with 1600 mm, Flail mower 1600 mm with scarifier Kit and blade Kit (on demand), Flail mower 1300 mm and scarifier Kit (on demand), Front snow blade 1500 mm, Pneumatic dampened seat, Comfort cabin with heating system
m^2	**HOURLY CAPACITY:** 12.000 m^2/h
	WEIGHT without cutting deck: 1040 kg **WEIGHT** with cutting deck: 1230 kg (132 cm mower deck) - 1310 kg (155 cm mower deck)





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