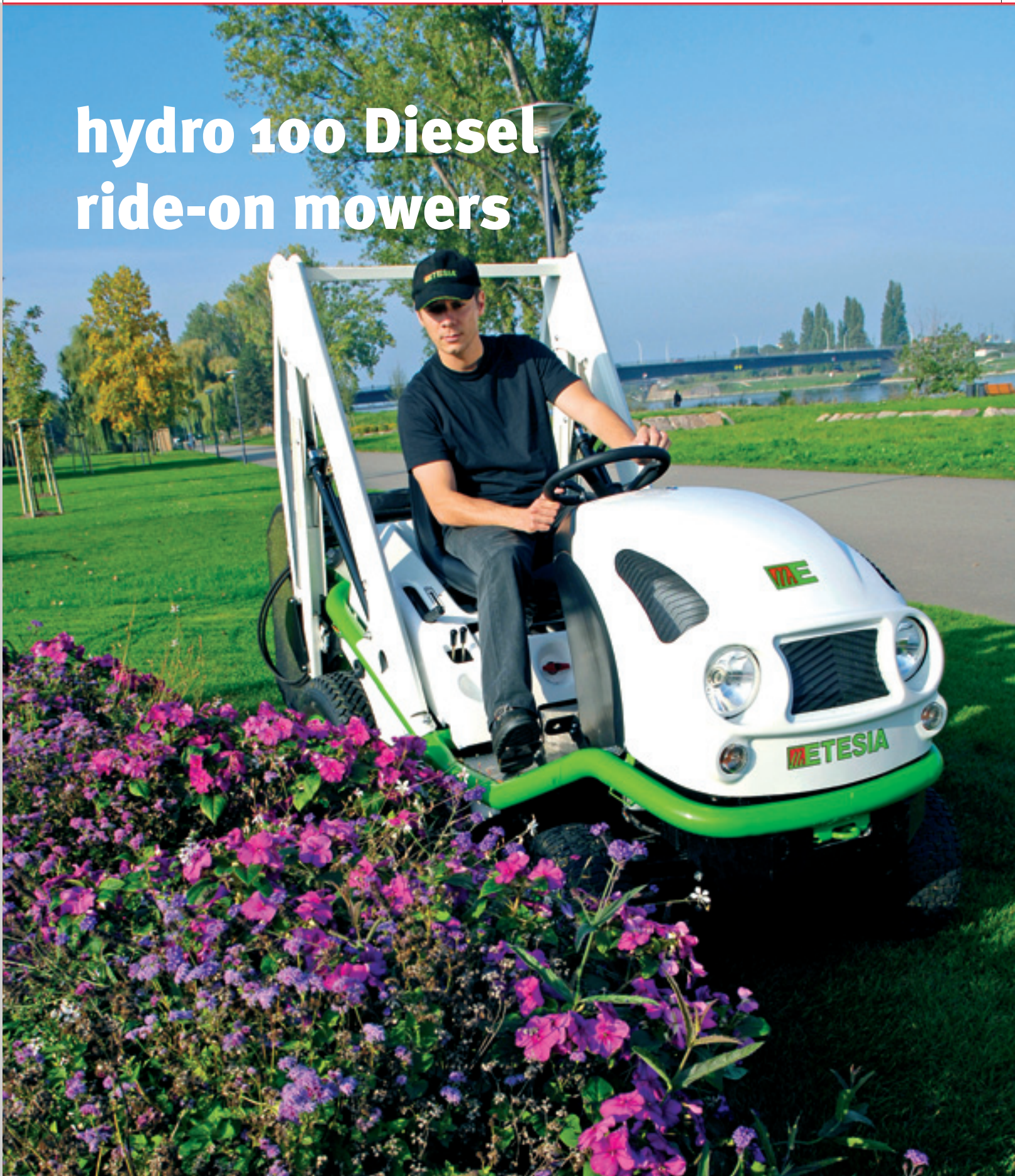


hydro 100 Diesel ride-on mowers





H100D ride-on mowers

small size, big performance

ETESIA's H100 Diesel ride-on mowers are the result of a 50-years old experience in the gardening world.

They have acquired all of the brand's qualities from their bigger brothers, to provide an efficient, user-friendly high performance package.

BLHP/BPHP/BPHPX

PERFORMANCE

The H100D goes everywhere

Compact

The H100D ride-on mowers are only 2 920 mm long and 1 050 mm wide, for a height of 1 270 mm. Without any overhang, they can be steered with fingertip control, and their compact size means they are at home on all surfaces.

Versatile

Their tight turning circle (1.10 m radius) and their reduced rear overhang (1.20 m) make them very versatile machines, equally at home cutting in large or small areas.

Efficient use of engine power

Two hydraulic motors supplied by a variable flow pump, guarantee maximum power is transmitted to the rear wheels.





Differential lock and power regulator

The H100D ride-on mowers are equipped with a hydraulic flow divider, to ensure an effective differential lock, enabling maximum drive in difficult situations (slopes, slippery surfaces, etc.). Furthermore, a power regulator prevents the engine from stalling by adjusting the speed to suit the transmission torque demanded.

Version 4X4

For the 4-wheel drive version (H100DX model), the hydraulic transmission works in parallel on the left- and right-hand wheels. This means that all four wheels are driven at all times, although there is a differential effect (when cornering) suited to use of the machine.

Authorised for on-road use

The H100D ride-on mowers can be adapted to meet standards for road use by simply adding a rear lighting kit ref. MX102 that is quick and easy to fit.

H100D, the high performance cut

No rear axle

The rear axle has been eliminated, leaving the way clear for a central ejection channel and making blockages a thing of the past.

H100D cutting system, 30% extra collecting performance!

The cutting deck's shape is designed for low turbulence, and is formed by two mouldings with a progressive discharge into a rear central ejection channel. There are two contra-rotating blades mounted at 90° to one another and which overlap by 4 cm, this combination produces an extremely powerful vacuum and blowing effect: the result is a perfect cut and all the grass is collected no matter what the circumstances.

12,000 Sqm², 33% extra hourly output!

The efficiency of the cutting system of the H100D allows professionals to work even faster (up to 12 km/h in optimal mowing conditions) and to improve productivity and output (wet grass or rain).

600 L grassbox

The H100D ride-on mowers are equipped with a built in grassbox and a hydraulic emptying system controlled from the driver's seat. They have a capacity of 600 litres, which means you can spend more time cutting.

Mowing tall grass

Equipped with their new hydraulically controlled deflector (optional extra), the H100D ride-on mowers overcome all the problems with mowing tall grass. With its wide flared shape, the rear deflector allows the grass to be spread evenly across the width of the machine, while preventing any unwanted projections thanks to its specially designed shape.

Mulching (MU100D)

Mulching is possible with the MU100D mulching insert, available as an option.

Emptying onto the ground or into a container? You can choose even after purchase

100% emptying

The grassbox is mounted between the rear wheels; a special flap holds the grass inside when the box is raised. The grassbox is then opened to allow the grass to be emptied.

Emptying onto the ground

Controlled from the driver's seat, the grassbox is hydraulically emptied onto the ground instantly and effortlessly.

Emptying with the Hi lift box up to 1.80 m from the ground

The hydraulic lift (fitted as standard on the BLHP, BPHP and BPHPX models) and emptying of the grassbox are carried out via the simple operation of a hydraulic spool valve from the driver's seat. The grassbox may be emptied at any height from ground level up to 1.80 m.

The Hi lift option of the grassbox may be fitted later at any time to the BLSP and BPSP models with ground tip (MHD100 and MCH100 options). The initial fitting takes less than an hour in a workshop, thereafter it can be fitted or removed as required in less than 30 minutes.

Integral transmission- safer, more efficient.

The 4-wheel drive transmission of the hydro 100DX ride-on mowers offers:

Greater safety

- the driving wheels at the front provide better hold on sloping terrain,
- make the mower safer when stationary and while manoeuvring on sloping terrain,
- and easier for work uphill and in reverse.

Greater efficiency

- optimum distribution of the couple according to the load on each wheel ensures that the mower won't skid,
- better driveability in all conditions,
- without damaging the grass, whatever the type of terrain.



new cutting system



no rear axle, hydraulic wheel motors



tall grass cutting with hydraulically controlled deflector



BLSP/BPSP



H100D ride-on mowers

simply fantastic on a daily basis

You will appreciate the ETESIA H100D professional ride-on mowers every day: with fingertip control steering, they will obey your every command and face up to hard work and difficult situations every time.

Their particularly good handling, comfort and economy are combined with easy servicing and maintenance, and the H100D professional ride-on mowers will provide you with optimal safety, comfort and ease of use never before seen on machines of this category.

COMFORT & SAFETY

H100D, the operators machine

Safe

The H100D ride-on mowers are designed to provide you with maximum safety: operator presence switch, box/deflector safety switch, blades stopped in 4 seconds by a mechanical brake built into the electromagnetic clutch.

Standards

Just like all the ETESIA ride-on mowers, the H100D meet the strictest international safety standards.

Traction on slopes

The distribution of the weight is 63 % to the rear and 37 % to the front, which ensures that the H100D have good grip and traction. In addition, their wide, large diameter wheels, differential lock and power regulator provide the H100D ride-on mowers with particularly good handling on slopes and gradients.

H100D, first class comfort

Ergonomic controls

Grouped next to the driver's seat, within easy reach of the operator, the controls provide ease of use: emptying the grassbox, blade engagement, setting the height of the blades, differential lock, etc. All controls are positioned clearly and ergonomically and are easy to operate.

Power steering

The H100D ride-on mowers have power steering that makes manoeuvring and 180° turns easy, giving precise steering and causing less fatigue for the operator.

Automatic gearbox

The hydrostatic transmission makes driving more comfortable, allowing you to make smooth progress. Press the forward or reverse pedal to choose the working speed in complete safety.

High back seat

The high back seat, with sliding horizontal adjustment, ensures that you will find the ideal driving position on the H100D.

Dashboard

The dashboard of the H100D is fully functional. In particular, it is equipped with an instrument to cover the following functions: hour meter, maintenance indicator, operational check of all safety devices, fuel level gauge with low level light, continuous engine temperature indication (water) with overheating indicator, preheating indicator, battery charge indicator, hydraulic circuit overheating indicator, lighting indicator.

Silent and efficient

The H100D guarantee an acoustic pressure of 85 dB(A) at the driver's seat and an acoustic level of less than 100 dB(A), in compliance with the new standards. All of which is achieved without cheating or economising on their remarkable cutting and collection performances.

Vibrations

The ride-on mowers guarantee a level of vibrations:

- Whole body readings of 1.87 m/s² measured on a hard track at 6 km/h and 0.3 m/s² statically on grass.
- At the upper body readings of 2.3 m/s² measured on a hard track at 6 km/h and 2,06 m/s² statically on grass.

Easy going**Fuel consumption**

The fuel tank holds 14 litres and provides enough to complete a full day in normal mowing conditions.

Access to the engine

By releasing the engine cover, you have rapid access to the radiator-cleaning grill and the radiator cap. By tilting the noise reduction air intake pipe, you have direct access to the oil dipstick and the engine oil filler cap. By removing the engine side covers, the other parts and functions (diesel filter, oil filter, oil gauge, radiator, starter motor, alternator, etc.) of the engine are accessible.

Forward transmission maintenance

The engine output angled gear requires an initial oil change at 50 hours, then every 500 hours. The oil circuit of the pump and hydraulic motors is protected by an oil filter.

Cleaning and maintenance

It is in daily use that you will appreciate the H100D the most: the grassbox and mounting chute are easily removed without tools, to enable you to clean the machine or attach a tow bar. The cutting deck can be removed in less than 5 minutes for any maintenance.




direct access to the engine



a complete dashboard



rapid removal of the H100D fixed grassbox





H100D

you're going to have it for a long time!

A deserving descendant of the hydro 100 and the hydro 124, the ETESIA H100D professional ride-on mowers use the technical and technological solutions of their older brothers to guarantee you robustness, reliability and long life.

Pushing their versatility to the limits, a wide range of equipment for gardening and highways increases the occasions you can use the H100D throughout the year.

LONG LIFE

Built to last

Chassis

The load bearing chassis of the H100D is made up of two mechanically welded tubular sub-assemblies, bolted together. Entirely rust-proofed, the design of the chassis is directly inspired by manufacturing processes used in the automobile industry and is hardwearing even in conditions of intensive use.

Diesel engine

The BLSP and BLHP models are equipped with the LOMBARDINI FOCS 702 twin cylinder diesel engine, water cooled and achieving 18 HP at 3 600 rpm. The BPSP, BPHP and BPHPX models are equipped with the PERKINS 403 Do7 three cylinders diesel engine, water cooled and achieving 20.5 HP at 3 600 rpm. These diesel engines are built in Europe and are particularly reliable and robust. Strong and economical, they will allow you to work effortlessly throughout the entire day in normal working conditions.

Hydraulic transmission

The choice of hydraulics instead of mechanical solutions provides the user with transmission systems on the H100D that last longer and have improved reliability.

Cutter heads transmission

The transmission between the two blades is via a double-faced toothed belt. A V belt provides the power transmission between an electromagnetic clutch and the cutting deck.



BLSP/BPSP

Cutting blade control

The blades are engaged with an electromagnetic clutch fitted with a brake and controlled by actuating a switch located on the dashboard.

Cutting blade protection

To avoid any major damage, the blades are protected with two shear bolts that can be replaced in the event of a violent impact.

Cutting deck

The cutting deck is made from a single aluminium casting. It does not rust and is very strong.

Grass box

Made from rot-roof fabric on a reinforced tubular frame, the grassbox has a capacity of 600 litres and guarantees the user long life and reliable operation.

Outstanding reliability

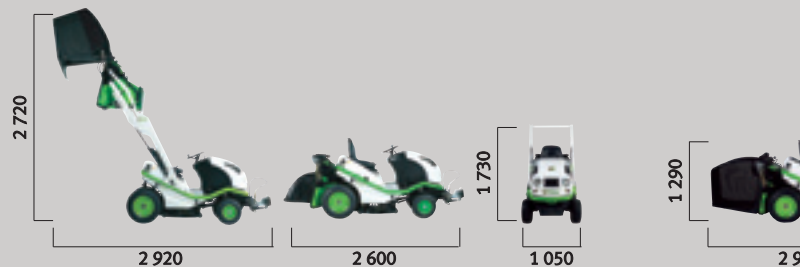
Developed using the most powerful CAD tools, built and tested in Europe to rigorous manufacturing techniques, the H100D ride-on mowers are designed to last.

They only require the strict minimum in terms of maintenance and guarantee you hours of continuous use.



BLHP/BPHP/BPHPX

TECHNICAL SPECIFICATIONS



	BLHP	BLHPB	BLHPX
ENGINE			
Type			LOMBARDINI FOC
Cylinders/cooling			Water cooled 2-cy
Capacity			688 cm ³
Horse power			18 HP at 3 600
Operating speed			
Alternator			
Battery			
Starter			
Fuel			
Fuel tank capacity			
Fuel consumption			
Oil capacity			
WHEEL TRANSMISSION			
Hydraulic transmission			Pump with variable flow p
Speed			
Oil capacity			
Differential lock			
LUBRICATION			
Mineral oils	X		
Bio oils		X	
TRACTOR			
Frame			M
Steering			Hydraulic pc
Tyres			
Turning radius			
Braking system			
Weight	Total : 650 kg ; front: 240 kg ; rear: 410 kg	Total : 650 kg ; front: 240 kg ; rear: 410 kg	Total : 570 kg ; rear: 3
MOWER			
Cutting deck			He
Mounting			
Number of blades			
Rotation direction			
Blade clutch			
Blade protection			
Cutting width			
Cutting height			
Ejection			
Scalp-protection			
GRASS COLLECTION SYSTEM			
Grassbox capacity			
Grassbox construction			
Grassbox emptying	Hydraulic from floor to 1.80 m		Hydraulic -
SAFETY SYSTEMS			
BLADES			
Collection blades			
NOISE LEVEL			
Acoustic pressure			
Acoustic level			
LEVEL OF VIBRATIONS			
Whole body			1.87
Upper body (Arms and Hands)			2.3



2 920



BLS	BLSB	BPH	BPSP	BPHX
LOMBARDINI FOCS 702		PERKINS 403 D07		
Diesel/B30		Water cooled 3-cylinder		
cooled 2-cylinder		760 cm ³		
688 cm ³		15.3 kW / 20.5 HP at 3 600 rpm		
IP at 3 600 rpm				
2,900 rpm				
12 V 33 A with regulator				
12 V 60 A				
Electric 12 V				
Diesel/B30				
14.5 L				
1 day in normal conditions				
1.6 L + 0.2 L with filter				
Variable flow pistons – Geroler hydraulic motor in the rear wheels				4 hydraulic engines
From 0 to 12 km/h forward (0-10 reverse)				
20 L				
Hydraulic flow divider				-
X	X	X	X	X
Multi-tubular mechanical welded frame (rear straddle bridge axle)				
hydraulic power-steering – orbital system and single double action actuator on the axle				
Front: 16 x 6.5 x 8 / 1.2 bar – Rear: 23 x 8.5 x 12 / 0.8 bar				
1.10 m (radius of uncut surface)				
Incorporated in hydraulic system				
Drum handbrake on the rear wheels				
al: 570 kg ; front: 240 kg ; rear: 330 kg ;	Total: 570 kg ; front: 240 kg ; rear: 330 kg ;	Total: 650 kg ; front: 240 kg ; Trear: 410 kg ;	Total: 570 kg ; front: 240 kg ; rear: 330 kg ;	Total: 683 kg ; front: 279 kg ; rear: 405 kg ;
Heavy duty cast aluminium deck – with 2 aerodynamic cutting units				
Suspended tray				
Two 52 cm blades – overlap 4 cm				
Contra-rotating				
Electromagnetic with built-in brake				
Two shear bolts				
100 cm				
Central adjustment – 6 settings: 44-54-66-78-90-102 mm				
Direct rear in grassbox				
2 front and rear rollers				
600 L				
Tubular structure – UV resistant fabric				
Hydraulic – at floor level		Hydraulic from floor to 1.80 m	Hydraulic – at floor level	Hydraulic high lift emptying to 1.80 m
Driving presence micro-switch				
Grassbox / deflector micro-switch				
MZ 102 (right) – MZ 102 (left)				
85 dB(A) in driver's position (EEC 86/188 directive)				
100 dB(A)				
1.87 m/s ² measured on a hard track at 6 kph – 0.3 m/s ² statically on grass				
2.3 m/s ² measured on a hard track at 6 kph – 2.06 m/s ² statically on grass				

ETESIA



LOMBARDINI FOCS 702 diesel engine



PERKINS 403 D07 engine



reduced maintenance and servicing



made in Europe certified iso 9001

VERSATILITY

H100D, turf care equipment

Deflector (MDD100)

The MDD100 deflector, which can be fitted without tools in place of the grassbox, allows you to mow without collecting the grass, even in the most difficult conditions.

Spreader (MET)



For gardening work (spreading fertiliser) or winter work (spreading grit or sand). Needs the tow bar (MRD100).

Swing tip kits

For use in difficult conditions (tall grass, brush...), we recommend using the MF 100D and MF 100G swing tip kits.

Replacement blades

Right blade	MZ102D
Left blade	MZ102G
Right blade for MF100D	MC100D
Left blade for MF100G	MC100G

All weather cab (MYD100)

To allow you to carry on working even in torrential rain or in the middle of winter, the ETESIA H100D ride-on mowers can be equipped with an all weather cab which satisfies the roll over standards (ROPS), with a tilting windscreen, two rear view mirrors and a windscreen wiper, a windscreen wash kit (ref. MYD100L) and heating (ref. MYD100C).

Hi-lift emptying kit (MHD100 + MCH 100)

The MHD100 hi lift emptying kit adapts to all the BLSP and BPSP ride-on mowers. It comprises all of the mechanical parts to equip your ride-on mower with hi lift emptying, reaching up to 1.80 m. The kit, part number MCH100 kit (double distributor and flexible hose) must be used to complete the machine.

Mulching kit (MU100D)

A mulching insert can be fitted into the H100D cutter deck, for effective mulching.

H100D, highway equipment

Sweeper (MT102)

Make a clean sweep in the blink of an eye with the quick-attach sweeper.

The adjustable speed of rotation of the brush, guarantees perfect performance for all conditions: gravel, leaves, waste... There are hydraulic controls for raising and lowering (requires the MSD100, MTA100 option for all H100D ride-on mowers and the MCH100 option for the BLSP and BPSP models without the high emptying kit).

Extremely reliable (hydraulic drive), it guarantees perfect collection with the special collection box available in option (MU102).

For cleaning alongside an obstacle (fence, gutter...) a gutter brush (MTS) can easily be fitted to the sweeper.

H100D, snow equipment

Snow blade (MV102)

Snow plough kit (MND100)

The snow blade will make your ETESIA a compact and very manoeuvrable snow clearing device. Its five work positions and its two adjustable runners make work accurate and efficient. Equipped with a shock absorber spring, it can be raised and tilted with hydraulic controls (requires the MSD100 option for all the H100D ride-on mowers and the MCH100 option for the BLSP and BPSP models without the high emptying kit). Recommended for use with the snow plough kit MND100.

H100D, other equipment

Front accessories attachment (MSD100)

Kit required to fit sweeper or front snow blade.

Hydraulic connectors with double spool valves (MCH100)

Spool valve and hydraulic hoses for high lift emptying and for the raising and angling of the sweeper or the snow blade.

Auxiliary hydraulic tank (MTAD 100)

Hydraulic pump and tank for the transmission of the MT102 sweeper.

Tow bar (MRD100)



The MRD100 tow bar permits towing up to 350 kg. It adapts to all models, and rapidly transforms your ETESIA into a versatile tractor.

Lighting kit (MX102)

The lighting kit ensures your safety when driving. Compliant with road safety standards, it comprises of rear lights, brake light and rear indicators. The use of a ride-on mower on the highway nevertheless remains prohibited unless this kit is fitted and a log book is acquired. The front lighting is fitted as standard.

Deluxe seat (MO102A)

The suspension seat improves the working conditions, ensuring a comfortable ride in rough conditions and for extensive use.

ROPS Protection bar (MAS100) + (MASP10)

A Rops approved frame can be fitted to increase operator safety on slopes.



BLHP/BPHP/BPHPX + MYD100 + MV102

BLHP/BPHP/BPHPX + MT102 + MTS



An innovative manufacturer with a sound reputation

Founded by a group with over 50 years' experience in the garden machinery industry, ETESIA boasts one of Europe's most modern, high-tech plants. Considerable investment has been made in the latest computerised manufacturing systems to ensure the highest standards of quality. ETESIA's policy of development and improvement ensures that all its products comply with the latest stringent EC regulations.



Specialist back-up

ETESIA products are distributed in over 30 countries worldwide and are backed by a network of outdoor power equipment specialist dealers who provide demonstrations, sales, service and replacement parts.



Tried and tested by professionals

ETESIA's hallmark of exceptional performance is the result of extensive research and development. With a well-earned reputation for high output, reliability and minimum downtime, their quality mowers, brushcutters and ride-ons are repeatedly specified by contractors and local authorities.

ETESIA, Seeing is believing!

The best way to find out more is to try an ETESIA machine for yourself. To book your free demonstration, contact your local dealer or telephone 01926 403319.



As we constantly aim to improve our products, ETESIA reserves the right to modify specifications of the models presented here without prior notice. Availability according to stock. Photographs and illustrations are not bound by contract. All due reservations made for printing errors.



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