



### 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

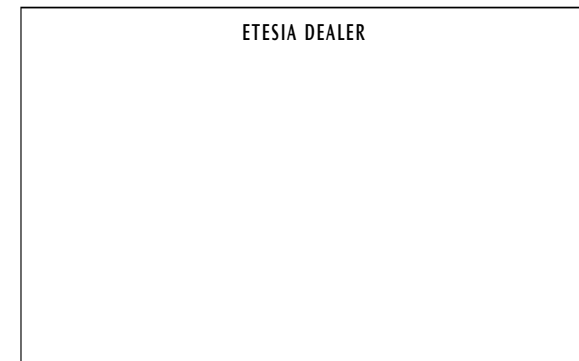
ETESIA products are distributed in over 30 countries worldwide and are backed by a network of outdoor power equipment specialist dealers who provide demonstrations, sales, service and replacement parts.

### 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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w w w . e t e s i a . c o m

# hydro 100 Diesel

*The compact ride on with large capacities*

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## H100D: small size, big performance

*ETESIA's H100 Diesel ride-on mower is new from start to finish: chassis steering, cutting system, collection system, engine and transmission.*

*As a true ETESIA ride-on mower, it has acquired all of the brand's qualities from its bigger brothers, to provide an efficient, user-friendly high performance package.*

*In the ETESIA H100D, there's no doubt a new mowing star has been born.*



### The H100D goes everywhere

#### Compact

The H100D ride-on mower is only 2920 mm long and 1050 mm wide, for a height of 1270 mm. Without any overhang, it can be steered with fingertip control, and its compact size means it is at home on all surfaces.

#### Versatile

Its tight turning circle (1.10 m radius) and its reduced rear overhang (1.20 m) make this a very versatile machine, 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 mower is 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.

#### Authorised for on-road use

The H100D ride-on mower 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 Sqm<sup>2</sup>, 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).

#### New 600 L grassbox

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

#### Mowing tall grass

Equipped with its new hydraulically controlled deflector (optional extra), the H100D ride-on mower overcomes 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.

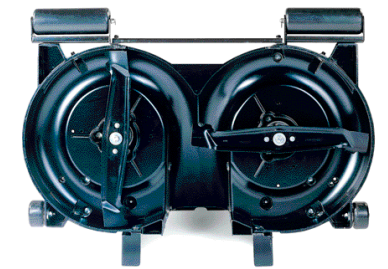
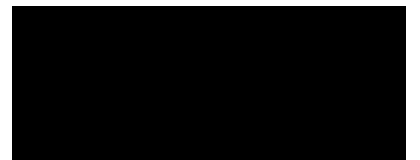
#### Emptying onto the ground

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 model) 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 BLSF model 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.



NEW CUTTING SYSTEM



NO REAR AXLE, HYDRAULIC WHEEL MOTORS



TALL GRASS CUTTING WITH HYDRAULICALLY CONTROLLED DEFLECTOR

**ETESIA**





## H100D: simply fantastic on a daily basis

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

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

### H100D, the operators machine

#### Safe

The H100D ride-on mower is 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 meets 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 has good grip and traction. In addition, its wide, large diameter wheels, differential lock and power regulator provide the H100D ride-on mower with particularly good handling on slopes and gradients.

### H100D, first class comfort Easy going

#### 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 mower has 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 guarantees 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 its remarkable cutting and collection performances.

#### Vibrations

The ride-on mower guarantees a level of vibrations:

- Whole body readings of 1.87 m/s<sup>2</sup> measured on a hard track at 6 km/h and 0.3 m/s<sup>2</sup> statically on grass.
- At the upper body readings of 2.3 m/s<sup>2</sup> measured on a hard track at 6 km/h and 2.06 m/s<sup>2</sup> statically on grass.

#### 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 mower uses the technical and technological solutions of its older brothers to guarantee you robustness, reliability and long life.*

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

### 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 H100D is equipped with the LOMBARDINI FOCS 702 twin cylinder diesel engine, water cooled and achieving 18 CV at 3 600 rpm. This diesel engine is made in Europe and is particularly reliable and robust. It is for these reasons that it is used in the building industry, for mini cars and in military applications. Strong and economical, it 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.

#### 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-proof 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 mower is designed to last. It only requires the strict minimum in terms of maintenance and guarantees you hours of continuous use.



BLHP

BLSF



## 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 (ME100 D)



For gardening work (spreading fertiliser) or winter work (spreading grit or sand).

### 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 mower 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 BLSF 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 BLSF model 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 BLSF model 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.

## Technical specifications



	BLHP	BLSF
<b>ENGINE</b>	LOMBARDINI FOC5 702	
Type	Diesel	
Cylinders/cooling	Water cooled 2-cylinder	
Capacity	688 cm <sup>3</sup>	
Horse power	18 HP at 3600 rpm	
Operating speed	2 900 rpm	
Alternator	12 V - 33 A with regulator	
Battery	12 V 60 A	
Starter	Electric 12V	
Fuel	Diesel	
Fuel tank capacity	14,5 L	
Fuel consumption	1 day in normal conditions	
Oil capacity	1.6 L + 0.2 L with filter	
<b>WHEEL TRANSMISSION</b>		
Hydraulic transmission	Pump with variable flow pistons Geroler hydraulic motor in the rear wheels	
Speed	From 0 to 12 km/h forward (0-10 reverse)	
Oil capacity	20 L	
Differential lock	Hydraulic	
<b>TRACTOR</b>		
Frame	Multi-tubular mechanical welded frame (rear straddle bridge axle)	
Steering	Hydraulic power-steering - orbital system and single double action actuator on the axle	
Tyres	Front: 16 x 6.5 - 8 / 1.2 bar - Rear: 23 x 8.5 x 12 / 0.8 bar	
Turning radius	1.10 m (radius of uncut surface)	
Braking system	Incorporated in hydraulic system Drum handbrake on the rear wheels	
Weight	Total: 686 Kg; front: 255 Kg; rear: 431Kg	Total: 615Kg; front: 255Kg; rear: 360Kg
<b>MOWER</b>		
Cutting deck	Heavy duty cast aluminium deck - with 2 aerodynamic cutting units	
Mounting	Suspended tray	
Number of blades	Two 52 cm blades - overlap 4 cm	
Rotation direction	Contra-rotating	
Blade clutch	Electromagnetic with built-in brake	
Blade protection	Two shear bolts	
Cutting width	100 cm	
Cutting height	Central adjustment - 6 settings: 44-54-66-78-90-102 mm	
Ejection	Direct rear in grassbox	
Scalp-protection	2 front and rear rollers	
<b>GRASS COLLECTION SYSTEM</b>		
Grassbox capacity	600 L	
Grassbox construction	Tubular structure - UV resistant fabric	
Grassbox emptying	Hydraulic - from floor to 1,80m	Hydraulic - at floor level
<b>SAFETY SYSTEMS</b>		
	Driving presence micro-switch	
	Grassbox / deflector micro-switch	
<b>BLADES</b>		
Collection blades	MZ 102 (right) - MZ 102 (left)	
<b>NOISE LEVEL</b>		
Acoustic pressure	85 dB(A) in driver's position (EEC 86/188 directive)	
Acoustic level	100 dB(A)	
<b>LEVEL OF VIBRATIONS</b>		
Whole body	1.87 m/s <sup>2</sup> measured on a hard track at 6 kph - 0.3 m/s <sup>2</sup> statically on grass	
Upper body (Arms and Hands)	2.3 m/s <sup>2</sup> measured on a hard track at 6 kph - 2.06 m/s <sup>2</sup> statically on grass	



BLHP + MT102 + MTS

BLHP + MYD100 + MV102



LOMBARDINI FOC5 702 DIESEL ENGINE



REDUCED MAINTENANCE AND SERVICING



MADE IN EUROPE CERTIFIED ISO 9001

