

Ride-on mowers hydro 124





RANGE, VERSIONS & OPTIONS

One concept – performance

All the ETESIA hydro 124 ride-on mowers offer record-breaking mowing rates per hour, ensuring exemplary productivity.

The strictly controlled design and manufacturing to ISO 9001 standards, and the choice of component parts and materials with tried and tested durability and reliability, mean that the hydro 124 ride-on mowers can be used all year round, whatever the work that needs to be done and whatever the terrain to be worked.

Your hydro 124 can mow and collect, with ground-level or high-lift emptying, or cut and mulch (MCM144 cutting deck), and it can also scarify, spread, sweep, clean, clear snow, and tow trailers weighing up to 500 kg.



hydro 124DS
2-wheel drive
Up to 19 000 m²/hour
Ground-level emptying

Ride-on mower hydro 124 : A World Apart

The hydro 124 is the first professional ride-on mower with direct rear-ejection and high-lift emptying. Our mower has proved its worth since it was launched not only in terms of its exceptional level of performance but also because of its high level of standards in comfort and safety.

Now discover the wide range of possibilities offered by the hydro 124 programme – with three levels of machine and performance, including one 4-wheel drive version, with an incomparable range of fittings for parks and gardens, roads and snow, and its BIO Concept option, which reduces emissions of greenhouse gases.



hydro 124D
2-wheel drive
Up to 19 000 m²/hour
High-lift emptying

One programme – versatility

The range of Etesia hydro 124 ride-on mowers includes:

- 2-wheel drive versions, with mowing, collection and ground-level (hydro 124DS) or high-lift emptying (hydro 124D),
- 4-wheel drive versions (hydro 124DX),
- and a range of fittings for parks and gardens, urban fittings and snow fittings – all are exceptional.

One ambition – to serve user and environment

The Etesia hydro 124 ride-on mowers are particularly safe and comfortable for the user. They are designed to help contribute to protecting the environment. All the models in the hydro 124 range of ride-on mowers are already available in a BIO Concept version that reduces emissions of greenhouse gases – with no loss of performance.



BIO CONCEPT – an ecologically responsible option available for all the models in the hydro 124 range.



4-wheel drive version – safer, better performance



Fittings for hydro 124

- Parks and gardens
- Roads
- Snow



hydro 124DX
4-wheel drive
Up to 19 000 m²/hour
High-lift emptying





COMFORT & SAFETY

Comfort

Steering console adjustable in two directions

To provide the best possible driving position, the steering console is fully adjustable up or down, forward (70 mm) and back (18°).

Seat

The h124D model & h124DX model have a fully-adjustable suspension seat with armrests. It has forwards or backwards adjustment for operator comfort.

The h124DS also has suspension seat, with forwards and backwards adjustment.

Power steering

hydro 124 has power steering to provide excellent manoeuvrability plus reduced operator fatigue.

Control

All controls are within easy reach of the operator. Forward and reverse pedals provide variable speeds in both directions:

- Blades are engaged and disengaged through a switch.
- Cutting height adjustment is centralised.
- Electrically adjusted cutting height (h124D model & h124DX model).
- Hydraulic control to lift and empty the grass-box (h124D model & h124DX model).
- Accessories control. (h124D model & h124DX model).
- Power take-off
- Pedal-controlled parking brake

Noise

The hydro 124's rear-ejection cutting system reduces noise levels significantly, both for the operator and the environment.

hydro 124

Comfortable, safe and user friendly

Hydro 124 ride-on mowers have power steering, an adjustable steering console, and simple, functional controls. No more turbine noise to put up with all day long. Maintenance has been reduced to a minimum and made as easy as possible.

These aren't just details – they are points you will appreciate every day.

Safety

Adherence and driveability

The carefully calculated distribution of weight ensures good adherence and perfect driveability (h124D: 33% on the front axle and 67% on the rear axle; h124DS: 30% on the front axle and 70% on the rear axle).

By opting for the 4-wheel drive differential effect version (hydro 124DX), you further improve adherence and driveability on sloping ground – and hence your own safety.

Maintenance of position during high-lift emptying

With the hydro 124D and 124DX models, jacks with valves to retain the load and maintain position make high-lift emptying completely safe.

Safety Features

The hydro 124 cutting deck is fitted with an electromagnetic clutch and blade brake.

Headlights

Headlights, taillights, and blinkers, headlights and taillights are standard on models hydro 124D and DX (only front work lights on h124 DS).

Flashing lamp

The h124D model and the h124DX are fitted with a rotating lamp that flashes when the grassbox is operated. It is also used when driving on roads.

Standards

The ETESIA hydro 124 meets all safety requirements including EEC standard PREN836.

Easy-to-use and maintain

All-round visibility

The forward driving position over the cutting deck provides the operator with good all-round visibility.

Cutting deck is easily removed without the use of tools on h124

Patent applied for ETESIA.

Economy

The 19 litre fuel tank gives 7 hours of work.

Ease of maintenance

Direct access without tools to fluid levels, filters, and fuses in the engine.

RTA authorised

The hydro 124D and DX models are approved for road travel in UK, France, Germany, Austria, Italy, Switzerland, Belgium and Holland.



Comfortable seat
(h124D model & h124 DX model)



Adjustable steering console



Cutting deck is removable without the use of tools (h124D model & h124 DX model)



Direct access to the engine





hydro 124

Efficiency at its best

ETESIA's hydro 124 is the first ride-on mower to combine direct rear-ejection with integrated collection and high-lift emptying (h124D Model & h124DX Model), making it one of the most highly efficient machines on today's market. This high-output ride-on mows up to 19,000 sq. metres per hour.

PERFORMANCE

Cutting, collecting and emptying

1.24 m cutting width

Beneath the cutting deck, two synchronised contra-rotating blades are angled at 90° to create a powerful vacuum that lifts the grass before it is cut. The blades overlap 6 cm to provide a 124 cm wide quality finish.



Cutting height

Centrally mounted cutting height adjustment is electrically operated, providing working positions from 44 to 140 mm, with an adjustable mechanical stop for the low setting.

Rear-discharge cutting deck

The rear discharge cutting system results in greater productivity and efficiency even in wet or long grass. The twin contra-rotating blades to give a quality finish with excellent collection.

Large capacity grassbox

The 600 litre grassbox holds more than 100 kg of grass and is packed to capacity every time.

100% emptying

The cutting and collecting system is completely cleared of all grass every time the grassbox is emptied. A special flap clears any remaining clippings from the chute into the rear of the grassbox.

Emptying setting from ground level up

Hydraulic lifting and emptying of the grass collector (h124D model and h124DX model) is controlled from the driver's seat. Emptying can be carried out at any height from floor level up to a maximum of 1.8 metres (h124D model and h124DX model) or at floor level only (h124DS model).

Top emptying available as an option on the h124DS model.

Mulching with your hydro 124

MCM144 Mulching deck

The hydro 124 ride-on mower can be fitted with an optional new mulching deck, the MCM 144. It then becomes a formidable mulcher offering the unrivalled performance of a 1.44 m cutting width. This option is particularly valuable during the season when grass growth is slower or during prolonged drought. It takes less than 30 minutes to swap the decks.

Cutting with your hydro 124

MD124 deflector

The MD124 deflector, which is fitted - without needing tools - in place of the grassbox, enables you to mow without collecting the cuttings, even in extremely difficult conditions.



Higher output

Compact and multi-functional

The high output hydro 124 produces a performance and efficiency comparable with wider mowers. Measuring 1.28 metres wide and 2.80 metres long it is designed for use on a wide variety of sites.

Up to 16 km/h working speed

The rear-discharge cutting system enables professionals to work faster at speeds up to 16 km/h, depending on conditions. The result is greater productivity and efficiency, even in wet or long grass.

Transmission

Transmission is hydraulic, ensuring transmission efficiency close to 100%.

For the 2-wheel drive versions (h124D and DS models), the transmission works on the rear wheels, using two hydraulic motors supplied by a variable flow pump.

For the 4-wheel drive version (h124DX 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.

Differential lock*

For keeping out of trouble on slopes or difficult terrain, the hydraulic differential lock provides increased traction and manoeuvrability plus reduced operator fatigue.

Tight turning circle

The hydro 124 has a tight turning radius of 125 cm. Power-assisted steering and hydrostatic transmission plus good all-round visibility ensure the operator is in full control.

Double hydraulic power sockets*

The h124D model & DX have two front-mounted hydraulic sockets for driving attachments.

3-point linkage*

The h124D model & DX are equipped with front-mounted 3-point linkage for attachments.

* available as an option on the h124DS



Differential lock



Tight turning circle



Emptying from the operator's seat



Grassbox emptying up to 1.80 m height (h124D and DX models)



Integral transmission – safer, more efficient

The 4-wheel drive transmission of the hydro 124DX 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.



hydro 124

Attachments

A wide range of attachments for parks and gardens, roads and snow turns the hydro 124 ride-on mower into a versatile multi-purpose tool that you can use all year round whatever the weather or terrain.

PERFORMANCE

Equipment for road use

Cab / heater

A glass-panelled cab is available as an option. It can be equipped with a heating system. Both the cab and heating system can be factory-installed (Ref OY124P, OY124C) or ordered separately. (Ref MY124P, MY124C) The cabin can also be fitted with a windscreen washer (Ref MY124L).

MT 124 Street cleaner (fits for h124D & DX models, with adapter kit for the h124DS)

Working width 1.35 m, left/right hydraulic positioning.

Gutter street cleaner (fits for h124D & DX models, with adapter kit for the h124DS)

MTS 124 Gutter street cleaner for MT 124. For cleaning pavements and gutters.

Street cleaner box (fits for h124D & DX models, with adapter kit for the h124DS)

MU 124 street cleaner box for MT 124. Hydraulic emptying.

Dust protector (fits for h124D & DX models, with adapter kit for the h124DS)

MTB 124 dust protector for using the MT 124 street cleaner with no box attached.

MR 124 Tow bar

The easy to attach MR 124 tow bar, will pull trailers up to 500 kg in weight (maximum towing weight). The tow bar has an electric socket for powering trailer lights.

Snow equipment

MV 124 Snow blade (fits for h124D & DX models, with adapter kit for the h124DS)

MN 124 Snow plough kit

For speedy, safe snow clearance, the hydraulically operated 135 cm snow blade can be angled to the right, left or lifted.

Turf care equipment

Front mounted scarifier MSC 124 (fits for h124D & DX models, with adapter kit for the h124DS)

Comprising two floating heads, the MSC124 has 1.25 m working width 1.25 m and debris can be collected in one pass. Working depth is variable. The two units can be lifted for transporting between sites and are retractable for passing through narrow entrances. Quick, tool-free installation.

MCM 144 mulching deck



The MCM 144 mulching deck has a 1.44 m cutting width. It consists of three biocut® units overlapping by 3 cm and positioned in an arc formation. This cutting unit is characterised by the bell-shaped profile of the crankshaft and its special ETESIA mulching blade. This unique system is made in Mastershock. It is mounted or removed without any special tools in under 30 minutes on your hydro 124 mower.

MCF 124 front-mounted cutting deck (fits for h124D & DX models, with adapter kit for the h124DS)

A finishing tool for precise mowing around obstacles, the MCF 124 front-mounted cutting deck mows under hedges, mobile homes, barriers, etc. It retracts automatically when it touches an obstacle and is operated from the driving seat.

MSF 124 Blower (fits for h124D & DX models, with adapter kit for the h124DS)

Come autumn, this tidy accessory blows leaves into windrows ready for collection. Starting and drive controls are on the dashboard. The blower swivels through 360° and is virtually silent in operation.

ME 124 Spreader (standard on h124D & DX models, with adapter kit for the h124DS)

Ideal for fertiliser, top dressing, sand, and salt Hopper mounted on three wheels for manoeuvrability

MP 124 Sprayer

100 litre tank. Sprayer with booms and lance. For wide open spaces, the booms can be adjusted to provide spraying widths of 2 to 5 metres. The hand held lance is for use on smaller areas.

MA 124 Agrarian wheels

For extra traction on difficult terrain.

MD 124 Deflector

The MD124 deflector, which is fitted - without needing tools - in place of the grassbox, enables you to mow without collecting the cuttings, even in extremely difficult conditions.

MH 124 R Rigid grassbox

Rigid 600 litre grassbox for the hydro 124. Recommended for use in dry weather.



ME 124 spreader



MSF 124 blower



Sweeper with box and gutter brush



MR 124 tow bar



h124D + MV 124
+ MN 124 + MY 124P
+ MY 124C + MY 124L + MY 124E



hydro 124

**Robust, reliable,
high performance**

A rugged machine combining superb performance, high output and reliability. Developed from the hydro 100 concept, the ETESIA hydro 124 has an advanced hydraulic system and is powered by a well-proven diesel engine.



RELIABILITY

Robust

Chassis

The hydro 124 has two tubular chassis bolted together for strength and durability.

Diesel engine

The hydro 124 is powered by a 25 hp, 3 cylinder direct injection, water-cooled Lombardini diesel engine.

Cutting deck

Manufactured from quality materials, the mower's die cast aluminium rear-ejection cutting deck is aerodynamically designed to give superb cutting and collecting performance. Shear bolts protect the crankshaft from damage in case of impact.

Reliable

Transmission

The transmission to the cutter heads is through two angled gearboxes and a flexible coupling.

Cutting blade control

The blades are engaged through an electromagnetic clutch, which also incorporates a blade brake.

Long life

Hydraulics have been used in preference to mechanical drive for easy operation, long life and reliability.

Electrics

Dust and water resistant protection on the electrical fittings, lights and circuit board (h124D model & h124DX model) ensures a reliable electrical connection.

High performance

Hydraulics

Closed circuit hydraulic transmission eliminates loss of power from the engine to the wheel motors and the force-fed pump is mounted directly on the engine.

The transmission pump is connected directly to the diesel motor.

Power steering

The power steering on the hydro 124 has a double-action ram.

Grassbox lifting and hydraulic emptying

Using the parallelogram principle, the grassbox can be hydraulically lifted and stopped at any height from ground to 1.8 metres (standard on h124D & DX models, as an option on the h124DS model). The grass is packed into the box and its built-in system ensures that it is emptied 100% every time.

12-volt electrical socket

An electrical socket located in the front of the hydro 124 allows you to plug in accessories or equipment such as a compressor, wire-cutter, lamp...



LOMBARDINI FOCs 1003 Diesel Engine



Lock-on electromagnetic blade



Cutting deck



12 Volts electrical socket



An ecologically responsible option is available for all the models in the hydro 124 range.

The new Etesia ride-on mowers with the BIO option use hydraulic engine and transmission oils and biodegradable lubricants.

They run on biodiesel (30% plant oil methyl esters and 70% diesel), also called "Diester", with no loss of performance, fully covered by the manufacturer's guarantee.

RELIABILITY

Design



Computer-Assisted Design

A multi-specialist team of experts from the fields of fabrication, engines and hydraulics designed the hydro 124.

GIUGIARO
DESIGN

From the drawing board stage, the GIUGIARO DESIGN team has been involved in the project right through to the very end.

Manufacture



Quality

Quality control covers all aspects of the manufacturing process, including hydro 124 component suppliers. Computerised control panels at the end of the assembly lines conduct 16 different quality checks on each hydro 124 produced.

Standards



International standardisation

The ETESIA hydro 124 conforms to all current standards, in particular CE PREN 836. It complies with EEC Directive 84/5331 on noise and has a decibel rating below 105 dB(A).

Approval for road use

The hydro 124D and DX models are approved for road travel in UK, France, Germany, Austria, Italy, Switzerland, Belgium and Holland.



h124DS

h124D

TECHNICAL SPECIFICATIONS



	h124DX	h124D	h124DS
ENGINE	LOMBARDINI FOCS 1003		
Type	Diesel direct injection with horizontal axis		
Cylinders/cooling	water cooled 3-cylinder		
Capacity	1028 cm ³		
Horse power	25 HP at 3000 rpm		
Alternator	12 V – 30 A with regulator		
Battery	12 V - 60 A		
Starter	Electric 12 V		
Fuel	Diesel		
Fuel tank capacity	19 L		
Fuel consumption	7 hours in normal conditions		
Oil capacity	2.4 L – with filter		
WHEEL TRANSMISSION			
Hydraulic	4 hydraulic wheel motors + flanged pump with diesel engine	Flanged pump with diesel engine + 2 hydraulic motors on rear wheels	
Speed	From 0-16 km/h forward or reverse		
Oil capacity	33 L		
Differential lock	–	Hydraulic	Option MBD124
TRACTOR			
Frame	Multi-tubular mechanical welded frame		
Steering	Hydraulic power-steering		
Tyres	Front : 16" x 7.5" - 8" / 1.2 bar - Rear : 23" x 10.5" - 12" / 1.2 bar		
Un-cut surface area (radius)	1.125 m		
Braking system	Incorporated in hydraulic system – disk parking brake		
Weight	875 Kg	808 Kg	716 Kg
Steering console	Adjustment 70 mm in height – Adjustment of angle at 18°		
MOWER			
Cutting deck	Aerodynamic deck with removable sides	Aerodynamic deck – cast in one piece	
Mounting	Suspended tray		
Number of blades	Two 65 cm blades - overlap 6 cm		
Rotation direction	Contra-rotating		
Blade clutch	Electromagnetic with built-in brake		
Blade protection	Two shear bolts		
Cutting width	124 cm		
Cutting height	Electric setting from 44 up to 140 mm		
Ejection	Rear grassbox mounted directly at housing outlet		
Scalp-protection	1 bumper + 2 anti-scalp front and rear wheels		
GRASS COLLECTION SYSTEM			
Grassbox capacity	600 L		
Grassbox construction	Tubular + 2-ABS shells		
Grassbox emptying	Any setting from ground level to 1.80 m	At ground level (standard on h124DS) / height up to 1.80 m (optional on h124DS with MHD 124)	
SAFETY SYSTEM			
	Driving presence micro-switch		
	Grassbox micro-switch		
	Mower deck micro-switch	–	
BLADES			
Collection blades	MZ 124 R (right) – MZ 124 L (left)		
Mulching blades	MZ 144 for MCM 144		
NOISE LEVEL			
Acoustic pressure	90 dB(A) in the driver's position (EEC 86/188 directive)		
Acoustic power	105 dB(A)		
LEVEL OF VIBRATIONS			
Whole body	0.104 m/s ² (Aeq)		
Upper body (arms and hands)	0.82 m/s ² (Aeq)		



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.



Seeing is believing

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