

TURBO 1-1^w-2-4



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CRUISER

EN

SAFETY FIRST!!!

These machines have been designed and built with regard to safety and reliability in every working condition.

The machine and relevant equipment have been subjected to various tests and checks provided by the EEC regulations for safety, noise, vibrations and electromagnetic emissions. Several devices have been installed on the machine to ensure maximum safety.



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➤ TURBO 1 - TURBO 1W

Compact and powerful.

The latest Turbo 1 is extremely efficient on flat ground or on areas with slight slopes. A powerful 3 cylinder diesel engine and a large blower allow very high cutting speed and a very good cutting quality even with high, wet grass. A 1100 litre grass collector, together with a high dump elevator (dumping at 2.1 mt) will make your job extremely productive with a top speed of 18 km/h. Very compact, can easily work with obstacles and narrow paths. The Turbo 1W is provided with patented HTC™ (Hydrostatic Traction Control) 4 wheel drive for a perfect traction on hard slopes.

➤ TURBO 2

For a maximum of efficiency.

Turbo 2 has the same features as Turbo 1 but with a more powerful 4 cylinder diesel engine, a better performing transmission and a 1300 litre grass collector.

Performances in open areas consequently improve: a football field with thick and wet grass can be cut and collected within an hour, with a cutting quality very close to that obtained by a cylinder mower.

➤ TURBO 4

For maximum traction and power.

Unbeatable on areas with strong slopes. The low center of gravity of the Turbo 4 allows safe cutting even on the side of slopes, where competitors' mowers could not work.

The exclusive HTC™ automatic traction control allows a very sharp turning radius, providing the machine with high maneuverability. Power, collector capacity, speed as Turbo 2.



> **Inlet and collecting system**

The intake duct connecting the front attachment to the fan is made of strong steel instead of plastic for long life.

The powerful vacuum fan has a large diameter producing a high input of air at low rpm resulting in low noise level.

The vacuum fan is equipped with 6 curved rotor blades that are easily changed in case of damage or wear.



> **Collector**

The collector is made of high strength polyethylene equipped with a filter, a self locking back door, a chute and buzzer warning when the container is full.

The grass filter is composed of easily removable metal mesh with plastic protection reducing cleaning time. The rear door automatically opens when the collector is tipped. An efficient and strong hydraulic high-lift dump up to 220 cm (option) allows the operator to easily and rapidly discharge the cut grass directly into a truck or a trailer. All these features drastically reduce your cutting and tipping time.

> **Brakes**

Two large disk brakes positioned on axle reduction gear case gives positive and safe braking even on steep slopes.



> **Engine**

Gianni Ferrari offers the advanced engines on the market:

Kubota 3 or 4 cylinder for maximum reliability, power and low noise level in full compliance with the last regulations.

> **Transmission Turbo 1 and Turbo 2**

Turbo 1 and 2 are provided with step up drive hydrostatic transmission with variable pump and hydro motor. Front axle with differential lock.

> **Transmission Turbo 1W**

The double transmission is provided by 2 orbital hydro motors connected to the rear wheels. The system is provided with an automatic partial disengagement valve on the front axle to avoid scuffing and to increase the steering angle of the machine.



> **Transmission Turbo 4**

The double hydrostatic transmission is provided by a system composed of a variable displacement hydraulic pump with powerful drive that controls two hydraulic motors, one per axle.

Each hydraulic motor is installed on a differential gear connecting two gear drives in an oil bath that transmits motion to each wheel via gear reduction system for greater torque.

The system is fixed on a strong chassis manufactured of solid 20 mm thick steel. The system is extremely safe and powerful, and enables the machine to easily climb the most difficult slopes.

The differential gear on the front axle is equipped with a differential lock to further improve the traction of the machine.

The rear drive axle differentiates itself from traditional steering wheels axles by the absence of a steering universal joint, allowing a tighter steering angle.

A further patented device that increases the steering angle comprises an automatic proportional control of the front axle. Therefore the machine can steer with a turning radius of only 70 cm.

The machine has an extremely low centre of gravity enabling it to go across a slope without the fear of tipping over.



Turbo 1-1^w-2-4

▶ Driving position

Since this is a highly professional machine, intended for extended use during day time, particular attention has been paid to the operator's seat and control ergonomics to give the driver maximum comfort and safety. The controls for the engine, the blade engagement and the hydraulic devices (deck lift, collector emptying and lifting) are all located near the operator's right hand and are all easily accessible.

Warning lights and level gauges are located on the steering console arm.

The tilt adjustable steering arm always allows the correct drive position to be achieved by the operator and it is extremely comfortable.

Access to the seat is unhindered as there are no obstacles between the steering wheel, seat and foot-platform.

The power steering has its own hydraulic pump that controls a double action steering ram and also acts as a connection bar to the steering hubs.

The foot-platform is mounted on isomounts and is fully adjustable to the vertical position allowing the mower deck to be safely tilted via hydraulic power to vertical.

The seat is adjustable in various positions for better comfort. 3 heights, full slide, adjustable back and armrests plus weight adjustment from 50 to 130 kg.

If requested is available a heated seat model.



➤ **Foldable protection structure (ROPS)**

It offers a complete driver protection in case of a machine roll over.

The structure comes complete with safety seat belts. It is foldable downwards to make the machine loading easier in particularly low areas.



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➤ **Canopy for foldable ROPS (optional)**

It provides sun and rain protection. It also protects driver from branches when working under trees.



➤ **Elevating protection frame (ROPS)**

It offers a complete driver protection in case of a machine roll over.

The liftable structure for easy maintenance comes complete with lighting kit, safety seat belts and a sun roof. It can be completed with optional glass front windscreen and doors.

ROPS are certified to have passed all tests required by the last regulations.



➤ **Dump body**

An aluminum dump body can equip the mower without the collection system, and be very useful for transport of sand, debris, tools or other material.

TURBO 2-4 CRUISER



► Comfort is not an option!!

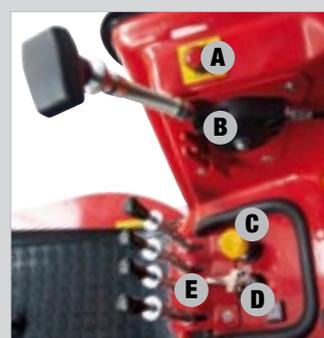
Cab is suspended on anti-vibration mountings and, due to the usage of electric and electro-hydraulic controls, there is no rigid mechanical linkage between the cab and the machine. Therefore the driver's seat is completely insulated from the traction unit. The use of special mats provides further insulation. Thanks to all the above, **the Turbo Cruiser cab ensures excellent ergonomics and comfort in any climatic situation.**





- 1 Cab suspended on 4 isomounts, these isolate the driver's seat from the machine chassis and engine
- 2 ONLY 2 meter high. Receding and rounded ROPS cab shape allows easy operation under trees
- 3 Headlights (high/low beam), turn signals, mirrors and beacon for on-road use
- 4 Wide safety glass surface for maximum visibility and safety
- 5 Easy safe access from both sides. Easily removable doors as well
- 6 Complete and rational easy-to-read controls and gauges on the dashboard
- 7 Steering column with height and tilt adjustment to fit any operator
- 8 Electrically servo-controlled foot pedals allow hours of effortless use

- 9 Plentiful vents for optimal airflow distribution
- 10 Amplified stereo speakers with connection for an MP3 player
- 11 Air conditioning (optional), heating system and 12V electric socket (cigarette lighter receptacle)
- 12 Engine mounted air conditioning powerful compressor (optional)
- 13 Easy to reach coolers for hydraulic oil and air conditioning
- 14 Hydraulically lifting cab, even when engine is not running, for easy access to all parts below



- A Electronic cruise control (speed limiter) to set the top speed
- B Throttle lever with Eco-Drive™ for a more efficient and quiet use
- C PTO button
- D Ignition key switch
- E Hydraulic controls



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▶▶□ Attachments



▶ Cut

The revolutionary patented RCA™ collection deck, available in 130 and 150 cm cutting width, has a large collection capacity that does not clog even when cutting long wet grass, giving a quality cut similar to that obtained with cylinder blades.

▶ Two important patented innovations!

1) Rotation direction: the blades turn in the opposite direction compared to traditional mower decks. This rotation reversal has surprisingly positive results on cutting quality and collection efficiency.

2) Mower deck front edge: the mower deck combines all the latest safety features. At the front of the mower deck there is an opening edge higher than the blade cutting level. This difference in height prevents grass from being flattened, allowing the blades to cut precisely even with long grass. The deck conforms to all current safety standards by means of a moving flap that opens in areas of long grass and prevents any objects from being thrown out of the deck. This simple feature easily passes all the latest safety regulations.

The mowing deck is equipped with twin discs with double swing back blades. The system has two main advantages:

- it is extremely strong since it can withstand violent impacts
- the double blades prevent the accumulation of grass and dirt in the upper part of the deck, always giving a perfect cut and collection.

The floating action of the mower deck copes with the most difficult cutting conditions even on uneven surfaces (25 degree rakeback and 30 degree breakover).

The hydraulic lift of the deck to the vertical position enables easy access to the underside of the mower deck, so that maintenance such as blade changing and cleaning are made easy. No manual lifting required.

The machine can cut and collect grass, together with leaves, waste papers, tins, plastic bottles etc..., at a rate of 10.000 to 20.000 sq m/hour with perfect cutting and collecting quality.

The exclusive cutting height adjustment is set by a single lever, very fast way and without any effort. The total time to vary the cutting height is less than 10 seconds.

▶ Snow / soil blade

The blade can be hydraulically lifted and put in any position, allowing your machine to be useful and productive throughout the winter.

▶ Snow thrower

Two-stage snow Thrower, 130 cm, hydraulic rotation and plexiglass screen to protect the operator if used without cab.

▶ Rear discharge/mulching 130-150-165 deck

With the cutting width of 130, 150 or 165 cm it is a very innovative deck with exceptional performances.

An exclusive adjustment system of the cutting height allows a fast adjustment without effort.

These decks are very safe and strong even in very difficult working conditions and have a very good cutting quality on nice lawn and for rough on golf courses. The mulching kit allows better mulching of the grass.

The mulching system is able to be quickly engaged and disengaged.



▶ Aerator/dethatcher

The aerator has a working width of 100 cm and covers large areas in a short time. It is suitable for the removal of thatch, moss due to grass residues and for preparing the area for sowing. A collection kit is available.



▶ Flail mower

With a working width of 120 (for Turbo 1) or 150 cm (for Turbo 2-4) this heavy duty flail mower is ideal for use on fine grass, weeds and dry twigs.

▶ Sweeper TS150

Adds more versatility in all seasons to your Turbo 1-2 and 4.

The sweeper TS150 is the ideal tool for collecting leaves, waste paper, tin cans and plastic bottles on any kind of surface.

- Working width 150 cm
- 2 hydraulic motors
- Composite brushes plastic / steel
- Two water tanks holding 100 litres with 3 spraying nozzles.
- Brushes move left to right from driving seat.



- The main features of the unit are:
- Fast and efficient collection even with large amounts of leaves or other debris such as paper, cans or plastic bottles on the ground.
- The sweeping unit side shifts right to left from the driving seat allowing working in all driving directions.
- Water tank (100 lt) with usage duration of 2 to 3 hours for work with dust.
- The vacuum hose can be directly fitted to the sweeper without any tools.
- Floating brushes equipped with free rotating bumpers to allow working close to walls and pavements.
- Optimal result even on grass.
- Two front wheels are available for use on pebbles or soft terrain.
- The 5 mt vacuum hose can be used also without sweeper and it is ideal to collect large amount of leaves, paper debris, plastic bottles, cans, operating far from the unit and inaccessible places.
- This filter, exclusive and patented, minimizes the exit of debris, weed & grass seed and dust from the collector. It is self cleaning via a hydraulic motor, it operates at each collector dumping. Easy to wash at the end of the job. Strong and reliable, it allows full capacity to the collector. Operator and bystanders breath clean air and airborne allergens are dramatically reduced.



TECHNICAL FEATURES

Model	Turbo 1 (1T)	Turbo 1W (1WT)	Turbo 2 (2T)	Turbo 4 (4T)
Engine				
Fuel	Diesel	Diesel	Diesel	Diesel
Model	Kubota D1105 (D1105-T)	Kubota D1105 (D1105-T)	Kubota V1505 (V1505-T)	Kubota V1505 (V1505-T)
Power / Displacement	28 hp (33 hp) / 1123 cc.	28 hp (33 hp) / 1123 cc.	36 hp (44 hp) / 1498 cc.	36 hp (44 hp) / 1498 cc.
No. Cylinders / Cooling	3 / Liquid	3 / Liquid	4 / Liquid	4 / Liquid
Fittings	Pressure lubrication system with gear pump – fuel filter with prefilter – cyclone-type air filter with self cleaning prefilter			
Fuel tank capacity	40 L	40 L	40 L	40 L
Eco-Drive™ mode	•	•	•	•
Hydrostatic transmission				
Driving wheels	2WD	Permanent 4WD	2WD	Permanent 4WD
Transmission type	Variable displacement axial piston pump. Axial piston motor on front gear drive axle. Deep reduction gears front axle	Variable displacement axial piston pump. Axial piston motor on front gear drive axle and orbital motors on rear wheels. Deep reduction gears front axle	Variable displacement axial piston pump. Dual displacement axial piston motor on front gear drive axle with deep reduction gears	Variable displacement axial piston pump. Axial piston motors on both front and rear gear drive axles with deep reduction gears
Speed	0 ÷ 18 Km/h	0 ÷ 18 Km/h	Slow 0 ÷ 9 km/h Fast 0 ÷ 20 km/h	0 ÷ 18 Km/h
Cruise control (speed limiter)	—	—	—	—
Traction control	Mechanical differential lock	HTC™ system – mechanical differential lock	Mechanical differential lock	HTC™ system – mechanical differential lock on front gear drive axle
Forward - reverse motion	2 pedals (forward foot pedal + reverse foot pedal)			
Brakes	Hydrostatic service brake (neutral position). Disc parking brake on front axle			
Steering system	Power steering wheel, reduced-radius steering on rear wheels			
Wheels				
Front wheels size	23 x 10.50 - 12	23 x 10.50 - 12	24 x 12 - 12	24 x 12 - 12
Rear wheels size	16.5 x 7.5 - 8	16.5 x 7.5 - 8	20 x 10 - 8	20 x 10 - 8
Power Take-Off				
Type / Engagement	Mechanical, with PTO shaft / Electro-hydraulic engagement by PTO button			
Auxiliary hydraulics	2 double-acting quick-release couplings			
Front linkage				
Type	Hydraulic with 2 arms			
Collecting system				
Type	Built-in turbine-assisted collection. Turbine fan with 6 easily replaceable bolt-on curved rotor blades			
Collector (optional)	High impact resistant polyethylene, with anti-clogging audible buzzer warning of full load. Motorised spreader for full packed load. Removable filtering screen for maintenance			
Collector capacity	1100 L	1100 L	1300 L	1300 L
Emptying height / Dumping system	80 cm / Hydraulic	80 cm / Hydraulic	85 cm / Hydraulic	85 cm / Hydraulic
High-lift dump (optional)				
Minimum emptying height	210 cm	210 cm	220 cm	220 cm
Overhang at maximum height	30 cm	30 cm	35 cm	35 cm
Driver's seat				
Steering wheel	Steering wheel with knob and tilt adjustable steering console arm			
Seat	Delux Grammer seat with lumbar support and headrest. Adjustable armrest and backrest. Seat heating (optional)			
Seat suspension	Parallelogram suspension with 3 adjustable height position and driver's weight adjustment (50 kg to 130 kg)			
Electrical system				
Battery	12 V / 70 Ah – battery isolator master switch as standard			
Safety sensors	EEC European Standard / ISO			
Warning system	Engine oil pressure – fuel reserve – battery (alternator fault) – hydraulic oil filter restriction – hydraulic oil temperature – parking brake – coolant temperature			
Standard equipment	Hour meter – tachometer – fuel level – coolant temperature gauge			
Weight and measures (tractor unit only, basic version)				
Unloaded weight ¹	750 kg	800 kg	800 kg	860 kg
Length / Width / Height ¹	250 x 124 x 158 cm	250 x 124 x 158 cm	280 x 125 x 162 cm	280 x 125 x 162 cm

¹without ROPS

Turbo 2-4 CRUISER



TECHNICAL FEATURES

Model	Turbo 2 (2T) Cruiser	Turbo 4 (4T) Cruiser
Engine		
Fuel	Diesel	Diesel
Model	Kubota V1505 (V1505-T)	Kubota V1505 (V1505-T)
Power / Displacement	36 hp (44 hp) / 1498 cc.	36 hp (44 hp) / 1498 cc.
No. Cylinders / Cooling	4 / Liquid	4 / Liquid
Fittings	Pressure lubrication system with gear pump – fuel filter with prefilter – cyclone-type air filter with self cleaning prefilter	
Fuel tank capacity	40 L	40 L
Eco-Drive™ mode	•	•
Hydrostatic transmission		
Driving wheels	2WD	Permanent 4WD
Transmission type	Variable displacement axial piston pump. Axial piston motor on front gear drive axle. Deep reduction gears front axle	Variable displacement axial piston pump. Axial piston motors on both front and rear gear drive axles with deep reduction gears
Speed	0 ÷ 20 Km/h	0 ÷ 20 Km/h
Cruise control (speed limiter)	•	•
Traction control	Mechanical differential lock	HTC™ system–mechanical differential lock on front gear drive axle
Forward - reverse motion	2 pedals (forward foot pedal + reverse foot pedal)	
Brakes	Hydrostatic service brake (neutral position). Disc parking brake on front axle	
Steering system	Power steering wheel, reduced-radius steering on rear wheels	
Wheels		
Front wheels size	24 x 12 - 12	24 x 12 - 12
Rear wheels size	20 x 10 - 8	20 x 10 - 8
Power Take-Off		
Type / Engagement	Mechanical, with PTO shaft / Electro-hydraulic engagement by PTO button	
Auxiliary hydraulics	2+2 double-acting quick-release couplings	
Front linkage		
Type	Hydraulic with 2 arms	
Collecting system		
Type	Built-in turbine-assisted collection. Turbine fan with 6 easily replaceable bolt-on curved rotor blades	
Collector (optional)	High impact resistant polyethylene, with anti-clogging audible buzzer warning of full load. Motorised spreader for full packed load. Removable filtering screen for maintenance	
Collector capacity	1300 L	1300 L
Emptying height / Dumping system	85 cm / Hydraulic	85 cm / Hydraulic
High-lift dump (optional)		
Minimum emptying height	220 cm	220 cm
Overhang at maximum height	35 cm	35 cm
Driver's seat		
Steering wheel	Steering wheel with knob on height and tilt adjustable steering column	
Seat	Delux Grammer seat with lumbar support and headrest. Adjustable armrest and backrest. Seat heating (optional)	
Seat suspension	Parallelogram suspension with 3 adjustable height position and driver's weight adjustment (50 kg to 130 kg)	
Cab		
Cab features	Ventilation and heating system – on-road use equipment – front wiper – courtesy light – 12 V socket (cigarette lighter receptacle) – amplified stereo speakers with connection for an MP3 player. Air conditioning (optional)	
Electrical system		
Battery	12 V / 70 Ah – battery isolator master switch as standard	
Safety sensors	EEC European Standard / ISO	
Warning system	Engine oil pressure – fuel reserve – battery (alternator fault) – low battery – hydraulic oil filter restriction – hydraulic oil temperature – parking brake – coolant temperature	
Standard equipment	ECU for diagnostic on safety systems and fault sensing – hour meter – tachometer – fuel level – coolant temperature gauge	
Weight and measures (tractor unit only, basic version)		
Unloaded weight	1300 kg	1300 kg
Length / Width / Height	300 x 125 x 202 cm	300 x 125 x 202 cm



GTM - GSM
15,5-16 hp



GTR
16-20 hp



GTS
20-22 hp



GT
28 hp



TURBO Z
23 hp



TURBOGRASS
22-23 hp



PG - SR
22-28 hp



TURBO 1-1W-2-4
28-44 hp



TURBOLOADER
22-36 hp

TURBO 1-1^w-2-4

TURBO 2-4 CRUISER



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ATTACHMENTS

▶ Collection deck	
Cutting width	130 – 150 cm (52" – 60")
System	2 counter-rotating discs with shock absorbing swing back blades. Power tilt to vertical position
Cutting height	Adjustable with single lever from 2 to 8 cm
▶ Rear discharge / mulching deck	
Cutting width	130 – 165 cm (52" – 65")
System	3 – 4 discs with shock absorbing swing back blades. Power tilt to vertical position
Cutting height	Adjustable with single lever from 2 to 8 cm
▶ Rear discharge deck	
Cutting width	150 cm (60")
System	3 blades. Power tilt to vertical position
Cutting height	Adjustable with single lever from 3 to 9 cm
▶ Mulching and side discharge deck	
Cutting width	150 cm (60")
System	3 blades. Power tilt to vertical position
Cutting height	Adjustable with single lever from 3 to 9 cm
▶ Flail mower	
Cutting width	120 – 150 cm (47" – 60")
▶ Aerator/dethatcher	
Working width	100 cm (40")
▶ Leaf vacuum	
Description	5 metre long polymer hose with stainless steel end nozzle
▶ Single-stage collection sweeper TS 150	
Description	Operating width 150 cm (60"). 2 hydraulic motors. 2 water tanks holding 100 litres with 3 spraying nozzles. Electrical side-shifting
▶ Two-stage collection sweeper	
Description	Operating width 150 cm (60"). 2 hydraulic motors. 2 water tanks holding 100 litres with 3 spraying nozzles
▶ Snow blade	
Working width	150 cm (60") with ± 30° hydraulic angling
▶ Snow thrower	
Working width	130 cm (52") with hydraulic ejection pipe rotation
▶ Spreader	
Capacity	110 – 170 L
Spreading width	from 0,8 to 6 m



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