



TTR

NEW GENERATION

THE 30 SERIES

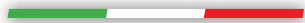
GROUND CARE: ONE MACHINE FOR MANY TASKS

NEW GENERATION

Antonio Carraro's Groundcare business unit is a department dedicated to the research, development and marketing of machines for a wide variety of municipal maintenance activities, such as upkeep of public and private green areas, road maintenance, cleaning of urban areas, building and construction sites, management of parks and gardens, nurseries, maintenance of equipped recreation areas and sport facilities. Our ground care units are professional multi-functional machines designed to offer the ultimate in productivity, ease of operation and comfort. Each of our models can be customised by choosing from a wide range of accessories, devices and implements to suit each customer's specific needs.

Each AC tractor is many machines in one.

THE 30 SERIES





TTR 4400 HST Multifunctional, hydrostatic, reversible



The TTR 4400 HST range shares the same design concepts as AC bigger, high-end tractors. The strategic choice to power these tractors with direct-injection engines has resulted in improved performance and better fuel efficiency. Featuring a low centre of gravity, the TTR 4400 HST is equipped with an ACTIO™ chassis (Antonio Carraro Integral Oscillating Chassis), hydrostatic transmission, reversible driving position and equal-sized wheels, making it ideal to work on virtually any type of ground, whether flat, hilly or rugged. These features allow the tractor-implement system to efficiently perform a variety of highly-specialized agricultural and municipal tasks, such as upkeep of public parks, cleaning of pedestrian areas, mowing of highway verges, turf care, winter road maintenance, material handling and excavation in nurseries and on building sites.

CHASSIS AND PLATFORM: Versatility and comfort

A projecting engine, front steering axle and **ACTIO™** central joint with longitudinal oscillation are the distinctive features of TTR. The two oscillating parts independently follow the terrain and, partly thanks to the low centre of gravity, assure constant stability and traction. The combination of vehicle + equipment perfectly balances the tractor, distributing **50% of the weight on each axle**. The driving platform is suspended on a **silent-block** and assures constant driving comfort, reducing operator stress and fatigue even after many hours of work. There is a large amount of **living space** in the driving position, especially as regards the seat and limbs. The position of the controls, arranged in a logical sequence, is the outcome of analytical studies into ergonomics.



Another peculiar feature of the TTR 4400 HST is the **RGS™ Rev-Guide System**, positioned on a rotating turret, which allows the direction of driving to be reversed in just a few seconds in order to work naturally both with equipment towed from behind, pushed in front or applied facing the direction of travel. It is sufficient to turn the seat/steering wheel/dashboard/pedal assembly by 180° to obtain the same driving position in the opposite direction without compromising accessibility or operating comfort: all the commands are located in an ergonomic position and in a logical sequence in all driving directions.



ACTIO™





The streamlined and racy design of the bodywork copies the harmonious and resolute lines of the AC top-of-the-range series. Apart from its pleasing appearance, it also gives operators **total all-round visibility**. The singular compactness of the hood allows the tractor to manoeuvre in the tightest spaces.

The vertical front opening of the **hood**, assisted by a central supporting strut, assures ease of maintenance. The perfect engineering of the elements in the engine compartment simplifies inspections for cleaning the radiator or checking water and oil levels.

The powerful radiator, located next to the honeycombed grille at the front of the hood, assures exceptional **heat exchange** in all conditions.

The solid **cast-iron bumpers** protect the engine and radiator and increase the stability of the vehicle thanks to the greater weight on the front axle.

The LCD panel signals the hour counter, speed and revs to the PTO. The **digital multifunctional instrument** manages all useful signals: LED's, rev counter, fuel indicator and temperature.

The innovative **lighting equipment integrated** into the mudguards, featuring top quality designer optical assemblies, allows the tractor to be used round the clock.

The tilt-adjustable steering wheel, ensures a comfortable driving position for drivers of all sizes (available only with cab version).

The rear guards are equipped with comfortable grab handles for driver's safety.

DESIGN: ergonomics & comfort

VERSATILITY
CREATIVITY
SAVING

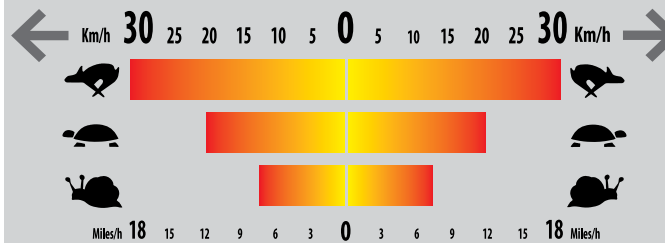


ENGINE AND TRANSMISSION: the perfect match for every application

The special feature of the TTR 4400 HST is the **hydrostatic transmission** which allows the speed to be continuously changed from 0 to **30 km/h** and quickly inverts the direction of travel at any time using the balanced pedal. The hydrostatic transmission highlights the versatility and efficiency of the vehicle, also on sloping ground, assuring **maximum safety** both when braking and when starting without having to use the clutch pedal.

The operator can establish the speed of the working vehicle at any time using the **speed-fix** system which can be easily activated using a dashboard button.

For delicate work on grass (soccer pitches or golf courses), the possibility of **disengaging the rear traction** and selecting the 1000 rpm of the PTO, as well as the standard 540, is particularly handy.



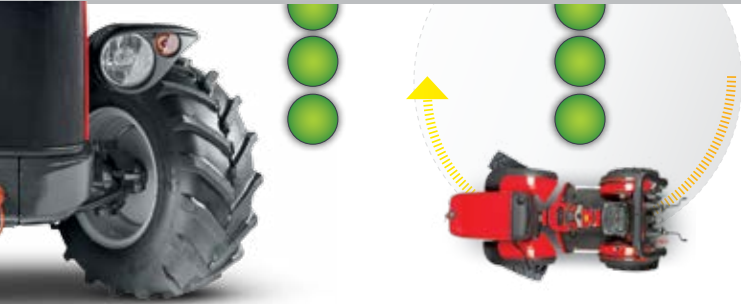
The Yanmar direct-injection diesel engine giving **38 HP** at 3000 rpm provides a generous **maximum torque at just 1200 rpm**. This assures adequate power for all uses thanks to the torque promoting elasticity and **low fuel consumption**.



- + *Quality of components*
- + *Torque at 1200 rpm*
- + *Silent running*
- + *Fuel saving*



STEERING: precise and ultra-tight



Featuring a short wheelbase and an ultra-tight turning radius, the TTR 4400 HST manoeuvres easily through tight turns and moves nimbly even in the most confined spaces. The hydraulically-assisted steering wheel feels sensitive and smooth and allows for precise manoeuvring even when working on steep hills, when driving crosswise on sloping terrain or when negotiating tight spots. The hydraulic system of the hydrostatic power steering is fed by an independent hydraulic pump equipped with an efficient oil filtering system.



**AGILITY
PRECISION
SPEED**

SAFETY: active and passive



**30
Km/h**

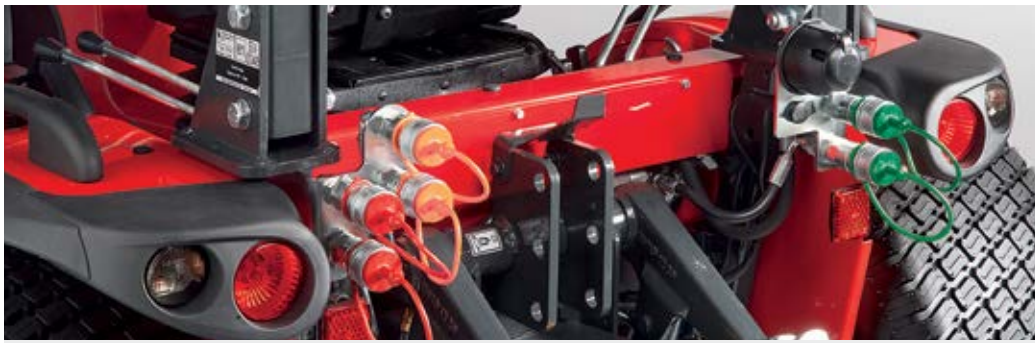


Low centre of gravity, constant grip, stability and driver protection systems are just some of the active safety features available on the TTR 4400 HST. The tractor also offers a variety of passive safety features such as the high quality of components, the precision design, the attention to ergonomic principles, the use of environmentally-friendly engines. Another active safety feature is the **OPS seat sensor**, a dead-man device that allows the tractor to start and move only when the driver is seated. The powerful **braking system** acts on the rear wheels. A **hydraulically-controlled integral four-wheel braking system** is optionally available for haymaking operations on steep slopes. The rear power lift makes for better grip, allowing all four wheels to maintain ground contact at all times. The front and rear differential locks prevent wheel slip while maintaining constant traction. The tractor provides a safe and comfortable driving position and can be fitted with either ROPS or cab.

HYDRAULIC SYSTEM : a unique blend of technologies

The standard hydraulic system features three rear double-acting remote valves with float position, one double-acting remote valve with float position at the front and a rear hydraulic lift with Cat. I three-point hitch. The powerful filtering system is located outside the tank for ease of maintenance. The power lift is equipped with a flow control valve which adjusts the lowering speed to suit the weight of the implement. The integrated lift/hydraulics/PTO system enables pull-type and front-mounted implements to be quickly attached and detached, also making it possible to use rear and front implements simultaneously. The PTO features a 1³/₈-inch ASAE shaft and offers two speeds: 540 rpm and 1000 rpm. The rear differential lock prevents wheel slippage, thereby improving traction. The rear-wheel drive can be disengaged to minimise soil damage and when travelling on road. Specially designed for ground care, municipal maintenance activities and specialized farming, the TTR 4400 HST can be fitted with a variety of implements such as mowers, shredders, loaders, rotary hoes, hedge cutters, snow blades/blowers, trailers and sprayers.

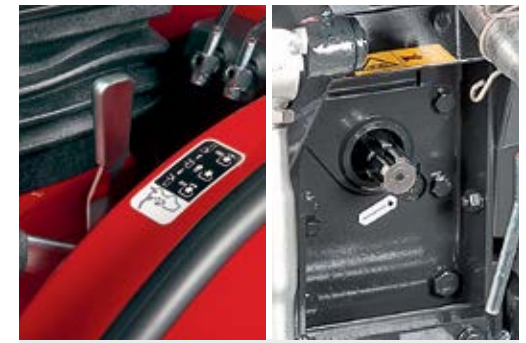




HYDRAULIC SYSTEM



CONTROL VALVE



REAR PTO



FRONT PTO*



**DIFFERENTIAL LOCK AND DRIVE
DISENGAGEMENT**



HYDRAULIC FRONT LIFT*



**COUPLERS FOR TOP FITTING
EQUIPMENT***

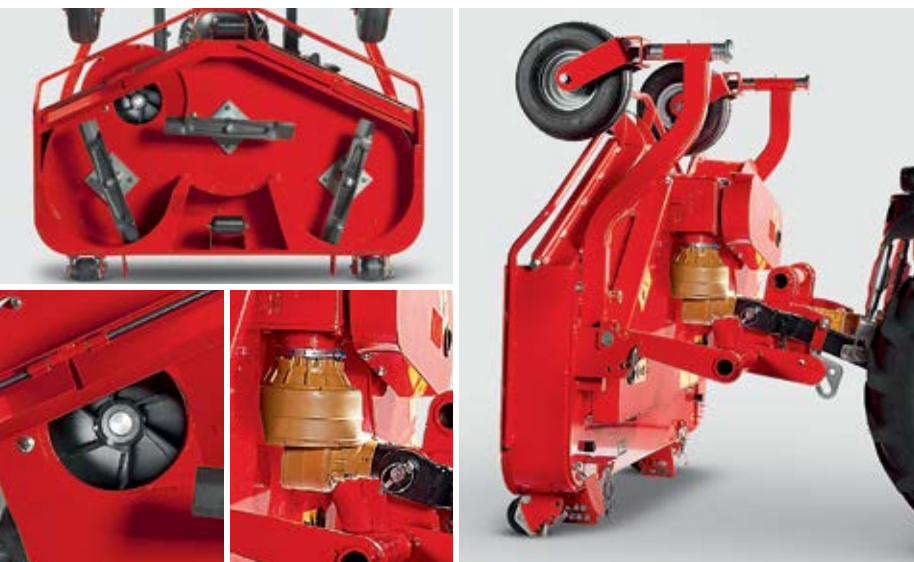
*optional



MAINTENANCE OF GREEN AREAS: grass cutting and collection

OPTIONAL

The **RT 1500 HDS** is a professional turbine rotary mower equipped with an innovative system that allows the cutting height to be adjusted in a simple, intuitive manner. The powerful suction turbine fitted onto the deck in mid-centre position ensures efficient collection of the grass clippings without clogging. The turbine features six curved vanes arranged in such a way as to ensure a fluid, clog-free flow of the cut material, including wet grass. The three rotary cutter blades are arranged in a triangular fashion under the deck providing a uniform and precise cut. Featuring a compact design and a smooth and clean shape, the mower has a cutting width of 150 cm and enables working close to kerbs and pavements. A pressure gauge allows the operator to monitor the turbine operation by constantly checking the suction efficiency and the grass level within the collector. The RT 1500 HDS can be placed in vertical position without the need to remove the cardan joint. This operation can be easily performed by only one operator.



The patented **CT 1000** collector has a capacity of up to 1000 litres ensuring a long operating time. This exceptional holding capacity is due to the optimal weight distribution on the ACTIOTM chassis, resulting in outstanding balance and stability. Made from shock-proof and corrosion-resistant fiberglass, the collector has a compact, rounded design that allows the machine to manoeuvre easily even in the most cramped spaces. The cut grass is easily discharged by simply activating the remote valve lever (or the joystick controller), after pointing the discharge opening in the desired direction at a maximum height of 2.15 m. This operation may only be carried out with the machine at a standstill. The CT 1000 collector can be fitted and removed with ease by simply screwing/unscrewing the four fixing screws.

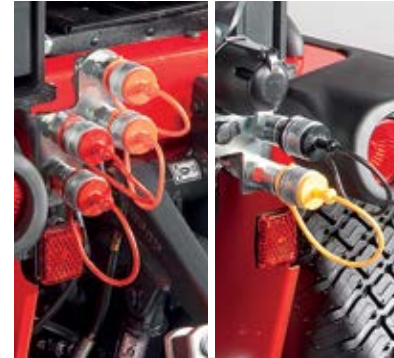


For TTR tractors used in municipal applications, a wide range of optional accessories is available for implements such as snow blades/blowers, salt spreaders and sweepers.

- > ON/OFF joystick controller to electrically operate the power lift and control the oil flow to the front and rear hydraulic outlets; available with the choice of two speed settings for both ROPS and cab versions
- > Power lift and hydraulic outlets with joystick control
- > Hydraulic front lift with top-link attachment
- > Side panels for standard driver's seat
- > Fully independent front PTO with 1000 rpm and electrohydraulic engagement
- > Super comfort seat in Matrix fabric with Grammer air suspension, lumbar support, reclining backrest and automatic weight & height adjustment, width 400 mm
- > Rear lift with double-acting lift rams
- > Curved short lower links
- > Wide front guard extensions
- > Hydraulic integral four-wheel braking
- > Pairs of front and rear ballast weights
- > Coupling systems with front top link for mid-mount implements
- > Wide choice of tyres with different profiles and tread patterns to suit all terrains and applications



> JOYSTICK ON/OFF



> HYDRAULIC SYSTEM WITH JOYSTICK



> HYDRAULIC FRONT LIFT



> SIDE PANELS FOR SEAT
> FRONT PTO



> GRAMMER SUPER COMFORT SEAT



> REAR LIFT WITH DOUBLE-ACTING LIFT RAMS



> WIDE CHOICE OF TYRES WITH DIFFERENT PROFILES



> SHORT LOWER LINKS
> GUARD EXTENSIONS



> HYDRAULIC BRAKING
> BALLAST WEIGHTS



> COUPLERS FOR TOP FITTING EQUIPMENT

CAB: ultimate comfort

Sturdy build and innovative design blend perfectly together in AC's unique cab concept.

Equipped with heating, air conditioning and sound insulation, the cab of the TTR 4400 HST offers the operator a spacious and comfortable working environment combined with excellent all-round visibility.

Its compact design and smooth rounded profile allow the tractor to move easily under trees, around obstacles and through tight spots without damage to foliage or bodywork. Six air-conditioning vents and a powerful **filtration system** provide a constant flow of clean, cool air within the cab.



The version with the cab comprises:

- > Digital control unit for the air conditioning system
- > A steering column inclination adjuster
- > Fabric seat
- > Drinks compartment, clothes hook, documents holder
- > Side doors with cushioning gas springs
- > Partial opening of side windows and front deflectors
- > External door-handles with easy-open system
- > Front window for maximum visibility
- > Fitting for radio
- > 2 external rear view mirrors with controlled position
- > Rear work lights
- > Front and rear windscreen wipers with independent washers

Upon customer's request, the EXG four-year extended warranty is also available on the cab of the TTR 4400 HST



*optional

SAT: Customer Service Team



RICAMBI ORIGINALI
GENUINE SPARE PARTS

Antonio Carraro® Original Spare Parts and Assistance

The AC dealer network utilizes modern equipment and instruments that have been especially designed and built for maintenance work on AC tractors. The technicians at every authorized dealership periodically attend technical training courses at the Parent Company's facilities. Each authorized workshop employs highly qualified staff and provides an extensive range of services in order to offer its Customers maximum peace of mind and total protection. AC dealers can give their Customers information on all the services related to the care of AC tractors.



EXG MAXIMUM PROTECTION:

4 years without worries!

As a proof of its reliability, Antonio Carraro offers, in addition to its two-year standard warranty, an extension of warranty coverage up to three or four years, called **EXG Maximum Protection**. At the time of purchase or within the first 24 months of the tractor's life (during which all scheduled maintenance services must be performed as recommended in the AC Use and Maintenance Manual), Customers may apply for either a three- or four-year extended warranty, according to their needs. Whatever coverage they choose, Customers are recommended to have all service performed at any of the **authorised locations of our global dealer network**, where repairs will be carried out by highly qualified personnel using only **AC Original Spare Parts**. In case of sale of the tractor, the warranty coverage may be transferred to the new owner.

After-sales service

Thanks to the capillary network of dealers and the competence of the Service Managers, the Parent Company can assure all-around skills. With the right maintenance work, every AC tractor will continue to provide excellent performance throughout its operating lifetime.



Original Antonio Carraro Spare Parts

Original Antonio Carraro Spare Parts is a registered trademark. The elevated standards of design and the stringent tests carried out during the entire production process assure maximum quality levels. With Original AC Spare Parts, Customers can be certain of maintaining tractor performance unaltered over time, thus preserving the safety and the value of the tractor.



TECHNICAL DATA: TTR 4400 HST



THE 30 SERIES

Chassis	ACTIO™ Full chassis with oscillation • RGS™ Reversibility • Steering wheels • Equal wheel drive			
Engine Type	Direct-injection diesel			
	Emissions regulations: Stage IIIA	N° cylinders: 3 – Natural/internal induction		
	Displacement: cc. 1642	Power kW/HP (97/68/CE): 28/38		
	Maximum engine revs: 3000	Torque max (Nm/revs) 113/1200		
	Cooling: water	Tank capacity (litres) 30		
Transmission	Hydrostatic with 3 speed range – Stepless speed variator from 0 to 30 Km/h			
PTO	Rear, 540/1000 rpm			
Shaft	Profile 1" 3/8 with 6 splines with facilitated engagement			
Transmission clutch	Hydraulic control			
Drive disengagement	Mechanical rear control			
Rear hydraulic lift	3-point hitch - Capacity (Kg): 910 Valve to control power lift descent speed			
Operating Pressure (bar)	160			
Steering	With 1 double-acting piston and connecting bar with "Load sensing" system			
Brakes	Standard: rear hydraulic drum brakes Emergency and parking brakes: acting on rear brakes			
Platform	Mounted on Silent Block			
Tyres	7.50 16	6.50x16	240/70 R15 Garden	29x12.50-15 Terra • Green • Xtra-Traction
Weight in order of speed (Kg)	With rollbar: 1275		With cab: 1440	

Standard Features

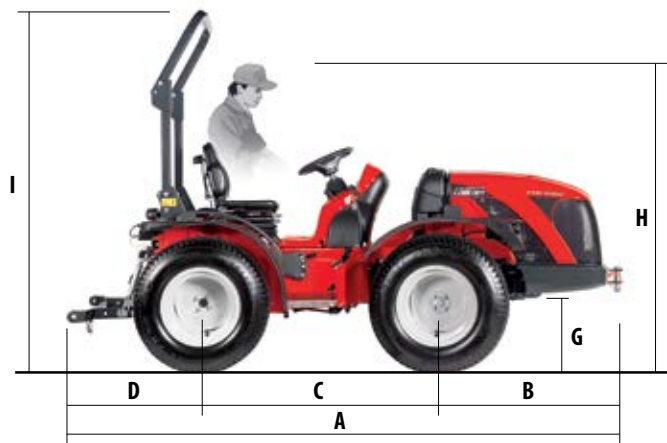
- RGS™ reversible control tower • Handles on mudguards • Flexible widenings for rear and front mudguards • Rear and front mechanical-control differential lock • 1-pump hydraulic system for hydrostatic transmission • Rear hydraulic system with 4 levers: 3 double-acting distributors with floating position + 1 double-acting distributor with floating position replicated at the front (tot. 8 quick couplings) • Fix type lifting arms and coupling balls, cat. 1-1N • Adjustable padded seat with safety belts • Rear partially foldable roll bar • Adjustable rims • Rear tow hitch • Front tow hitch • Multifunctional digital instrument tachometer/revolution counter, Km/h and PTO • Battery • 12V 7-pole / single-pole outlet • Safety starting device on the seat, the clutch and the PTO • "Speed-fix" system: to establish the speed of the working vehicle

Optional Features

- Cab with air conditioning system suspended on Silent-Block • Power lift and hydraulic outlets controlled by ON/OFF Joystick • Front hydraulic power lift • Front PTO 1000 rpm • Rear double-acting power lift • Couplers for top fitting equipment with front third hitch • Rear short lifting arms • Integral braking fitted to all four wheels • Working light • Containment sides for standard seat • Grammer fabric cover seat with pneumatic suspension (available with cabin) • Pair of front/rear wheel ballasts • RT 1500 HDS: front-mounted rotary mower with suction turbine, cutting width 150 cm • CT 1000: rotary mower collector, holding capacity 1000 litres



DIMENSIONS



	7.50-16	6.50-16	29x12.50-15 Terra STG	29x12.50-15 Green	240/70-15 Garden
E	210	180	310	310	235

Wheels

Dimensions (mm)

Front	Rear	A	B	C	D	F	G	H**	I	L*	M	N*	O
7.50-16	7.50-16	3010	925	1360	725	2096	261	1745	2036	1198	990	1191	983
6.50-16	6.50-16	3010	925	1360	725	2081	246	1730	2021	1123	940	1131	948
29x12.50-15	29x12.50-15 Terra STG	3010	925	1360	725	2068	233	1715	2008	1375	1070	1357	1052
29x12.50-15	29x12.50-15 Green	3010	925	1360	725	2068	233	1715	2008	1375	1070	1357	1052
240/70-15	240/70-15 Garden	3010	925	1360	725	2052	217	1700	1992	1217	987	1176	946

*Min. external width

**Height calculated with the operator of average height sitting (cm 175)

The description and illustrations in this brochure are provided simply for information purposes; they are not binding and may be varied at any time without notice.





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DEALER: