ANTONIO CARRARO

TRACTOR PEOPLE

Eccellenza Italiana

TONY 8700 | 11700 V

When I was a child, I would get excited every time I saw a tractor. My grandfather owned an Antonio Carraro and I dreamed of owning one myself, some day.

When I was a child, I would fantasise about my future. I imagined having a job that I loved, a family of my own. A beautiful home, a car. Perhaps a motorbike. And a tractor.

One day, I set my heart free: I bought an Antonio Carraro tractor.

Our aim is still the same: to build the most beautiful tractor in the world!

THE EVOLUTION OF THE HYDROSTATIC RANGE

The history of variable-speed transmissions goes back a long way at Antonio Carraro. It was the '70s when the first single-axle tractor was produced, called the Planematic, capable of regulating its speed independently of the engine. Over the years, the idea to equip AC tractors with a hydrostatic transmission, initially prompted by agricultural needs, became a key objective. The first prototype was followed by numerous other models featuring a hydrostatic transmission, a technical solution that made Antonio Carraro's dream of making transmissions simple and safe, a reality. The history of hydrostatic transmissions, ranging from 16 to more than 100 HP, is rich with success stories and milestones reached, all with the aim of satisfying professional needs. The models developed include those for green spaces, road maintenance, orchards and vineyards. A continuously evolving development process that has consistently paved the path to the future. Tony V represents the determination to continue along this path and take the AC brand to increasing heights around the world.

V FOR VIGNERON

The term vigneron does more than simply indicate a vineyard worker. In the region of Champagne, in France, vignerons are those who for centuries, have shaped their land, carefully observing the characteristics and needs of the vines that grow there, leading them to produce some of the most prestigious grapes in the world. Generation after generation, every vigneron carries on a tradition that calls for continuous innovation. Antonio Carraro, driven by this same passion, has thus developed a compact and traditional tractor but with extremely innovative features. Tony V is the direct result of the desire to offer real solutions to the mechanisation needs of winegrowers: special, very narrow and high-performance tractors capable of working with several implements at the same time. Tony V, for all intents and purposes, is tradition reborn.

SIZE AND AGILITY

Tony V is a specialist par excellence when it comes to narrow rows. The tractor's external width, starting from 998 mm, makes it the most compact tractor with a conventional chassis and hydrostatic transmission currently available on the market. What's more, the small size has been achieved without compromising good handling, comfort and performance.
Tony V models are available in 2 versions with **75** and **110 hp**, both Stage 5, which, however, use different exhaust gas treatment systems, giving the 8700 (75 hp) version a more compact bonnet and short wheelbase:

Tony 8700 V: 75 hp, wheelbase 2090 mm

Tony 11700 V: 110 hp, wheelbase 2170 mm

The turning angle, together with the short wheelbase, make Tony V one of the most agile tractors in its category. The need for a solution as compact as possible while still increasing the engine power highlights the distinguishing features of these two models:

- **Tony 8700 V**, compact and easy to handle, ideal for very narrow rows;
- **Tony 11700 V** agile and powerful in works requiring high towing and power take-off performance.

The special shape of the front half-chassis means the wheels can slip under the engine block, allowing a **turning angle of up to 55°** even at minimum width, and an impressive **10° of front axle oscillation**. The maximum footprint of the front wheels corresponds to the foremost point of the bonnet. This means the operator always has an accurate perception of the vehicle dimensions, even while steering.

PLUS

- \+ Easy movement in narrow rows without damaging the vegetation.
- \+ Simple manoeuvring in narrow headlands. Where the wheels pass, so too does the bonnet.
- \+ High oscillation angle for better performance even on slight slopes.
- \+ Very wide tyres with reduced maximum outer width.
- \+ Excellent manoeuvrability even in short headlands

CENTRE OF GRAVITY

Tony V has one of the lowest centres of gravity in its category, allowing the operator to work in total safety even on uneven or side-sloping terrain. The Tony V cab and transmission are designed specifically for this purpose. The central, minimal tunnel play an important role in lowering the cab's centre of gravity. The hydraulic components of the transmission and main oil tank are similarly in a lowered position. All this ensures the utmost efficiency and stability of Tony V at work.

ENGINE

Both models, **Tony 8700 V (75 hp)** and **Tony 11700 V (110 hp)**, are fitted with liquid-cooled, 4-cylinder 2.9 l Deutz Common Rail turbocharged engines with balance shaft that meet Stage 5 emission regulations.
These are latest-generation diesel engines designed specifically for specialised agricultural use. The built-in technology of these engines offers **considerable torque even at the lowest speeds**, maintaining extraordinarily linear delivery.
The availability of torque at low engine speeds, electronic engine control, high-pressure Common Rail and a Tony transmission combine to **reduce fuel consumption**, especially during works at part load.

PLUS

- + ***Reliability:*** *quality of components*
- + ***Performance:*** *no machine downtime for regeneration*
- + ***Comfort:*** *Reduced vibrations thanks to the balance shaft*
- + ***Savings:*** *Reduced fuel consumption*

TONY TRANSMISSION

The Tony V chassis features a unique central body combining the hydrostatic transmission, engine and front axle, ensuring the dimensions and characteristics necessary to guarantee Tony V's exceptional performance in vineyards. In addition to having a load-bearing function, this element – called the machine's central body – also contains:

1 - A dedicated power transmission for the hydraulic pumps, also with variable displacement, to reach high flow rates with the engine at low speed;

2 - A hydraulic oil tank with a 35-litre capacity, separate to the gearbox, used exclusively for the hydraulic couplers;

3 - Front-wheel drive disengagement by means of a wet multi-disc clutch, which can be engaged under load.

The Tony hybrid transmission has been implemented with important functional upgrades managed by the advanced **TMC** software, featuring:

1 - 5 differing working modes;
2 - Minimum drive speed of 20 m/h;
3 - Automatic range shift with PAM (Performance Acceleration Mode);
4 - Torque control set according to the type of road transfer;
5 - PTO speed on-screen electronic selector (540-540E)

The Tony transmission simplifies day-to-day operations: acceleration and deceleration, for example, are both controlled using the drive pedal. The clutch and brakes no longer need to be used. Even on hill starts, the transmission is able to keep the tractor perfectly in position until the operator decides to move.

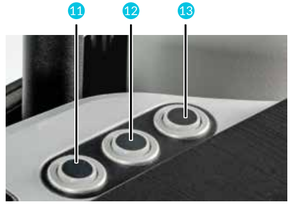
HUMAN-MACHINE INTERFACE

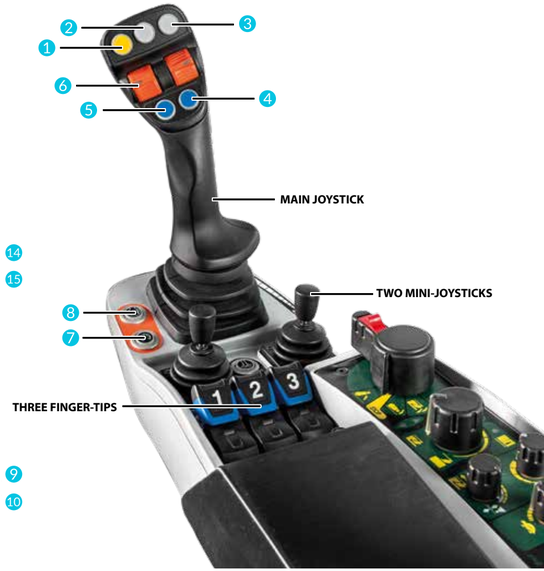
Tony V's electronic interface represents a quantum leap for the company in the specialised tractor market. Tony V tractors feature a multifunctional console and digital colour display. All tractor functions are at arm's reach and can be activated without ever taking your eyes off the road or the implements. The graphics, software and electronic components allow the operator to configure controls and functions, adapting them to their personal needs.
The extremely versatile interface allows the implements to be managed without introducing other specific control equipment in the cab, thus ensuring more space, comfort and unobstructed operation.

MULTIFUNCTIONAL ARMREST

The entire console is one with the seat and follows its movements. It can be adjusted in different directions to suit the build of any operator. Easy and intuitive to use, it houses the controls for all the hydraulics, lift unit, transmission functions and working modes. The three cross joysticks and finger-tip controls allow the independent management of different implements at the same time. These controls are entirely customisable and allow simple and accurate control of the implements. This equipment, therefore, ensures all functions are within easy reach without ever needing to take your eyes off the road or the implements.

1. PTO
2. Electric control
3. Duplicates the joystick functions
4. Rapid/float lowering of lift unit
5. Rapid lifting control
6. Direction reverser
7. *Cruise control*
8. Differential lock
9. Range shift
10. *Working mode* selector
11. Mid-mount hydraulic coupler float control
12. Front lift unit damping
13. Rear hydraulic coupler float control
14. *Drive mode* selector
15. *Speedrecall* (calls up the speed memory)





MAIN JOYSTICK
• Up to 4 hydraulic functions • 2 electric functions • Transmission control • Position and lift unit control

TWO MINI-JOYSTICKS
• Up to 4 hydraulic functions • Rear power lift unit oscillation control

THREE FINGER-TIPS | ELECTRONIC POWER LIFT UNIT
• Position and rear power lift unit draft control •Tempomat • Differential locking • Hydraulic coupler floating

PLUS

- + *Cab comfort and safety*
- + *Integral implement control*
- + *Customisation of controls*
- + *Simple and precise movements*
- + *Simultaneous implement control*

COLOUR DISPLAY

The colour display with adjustable height and tilt is located at the centre of the dashboard. It allows viewing of important information, for example, the hydraulic flow rate in use, hydraulic system pressure, input power and fuel consumption. Using the **TPR** (Touch-Push-Rotate) device, it also allows navigation between the following programming menus:

- ***HM "Hydraulic – Mode"***, to program all hydraulic functions with the possibility to save 5 different configurations;
- ***TMC (Tractor Management Control)***, to save up to 5 different working speeds, engine revs and Intellifix settings;
- ***SETTING MENU***, to configure the machine peripherals;
- ***PTO*** management.

5 HYDRAULIC MODES

Through the display and TPR, it is possible to program **five hydraulic configurations**, each with the customisable assignment of spool valve commands and characteristics, acting separately on:

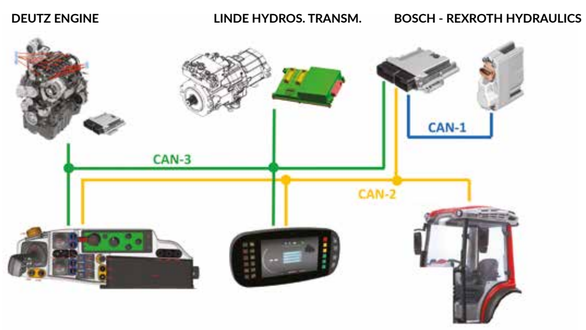
- Flow rate (from 0 to 60 L /min);
- Activation time (from 1 second to infinite);
- Control proportionality adjustment;
- Spool valve absolute priority or blocking;
- Command assignment.

PLUS

- + *Adjustable display position*
- + *Simple and intuitive graphics*
- + *Complete and instant viewing*
- + *User-friendly and fast interface*

ITAC OPERATING SYSTEM (Intelligent - Tractor-Antonio Carraro)

Every buyer can personalise their tractor's functions. The electronic control unit featuring the **ITAC** operating system manages, monitors and corrects any invalid vehicle settings and work parameters. Through the TMC system, the tractor's operating mode can be customised at will to suit **the type of terrain, work conditions, implement used and driving style**. The operator can select the work speed and PTO revs. At the same time, for each of the four available speed ranges, it is also possible to select three driving modes with the aim of ensuring maximum performance and operating comfort, saving on stress but also fuel and power. The on-board operating system also features Safety Control (a safety system that constantly checks the good working order of the software itself for total peace of mind). The software also runs tractor diagnostics, notifying the operator of any necessary servicing, the proper functioning of all tractor sensors and the consistency of all the signals.
All Tony V electronic components are interconnected through a CAN Bus network that serves as a real and proper "nervous system" within the tractor itself.



TMC - AUTOMOTIVE & CRUISE CONTROL
In Cruise Control mode, the TMC system is designed to keep the speed parameters and engine revs **constant** during work.

TMC - INTELLIFIX - CONSTANT TORQUE
The aim is to obtain maximum torque for the set speed when power is also drawn through the PTO. The speed is gradually reduced to maintain constant power delivery.

SIM SHIFT IN MOTION
This technology allows shifting while the tractor is in motion without any jerking or jolting for the driver (it has 4 mechanical gears).

DRIVE MODE
Allows three different driving styles for each mechanical range in either manual or automatic for a total of 24 drive modes.

STAND STILL SYSTEM
Monitors and guarantees the static positioning of the vehicle even on a slope.

AUTOMOTIVE
Simulates traditional use of the accelerator, making the speed control pedal proportional to the engine revs.

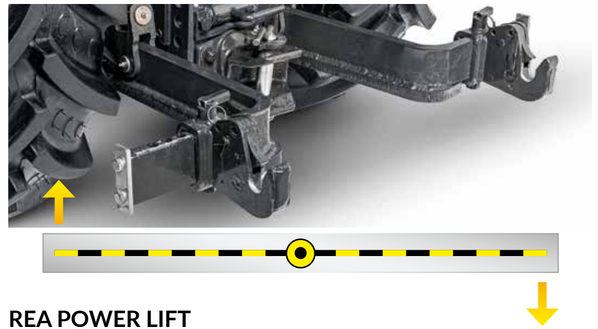
ECO MODE SPEED
It controls the maximum engine speed when the highest speed of 40 km/h is reached, thus minimising consumption (and noise) by automatically reducing the engine revs.

PAM
A function used to automatically manage the range shift, also depending on the route to be travelled. This function is extremely efficient and useful during on-road travel, especially when towing implements.

PTO OPTIMIZE
PTO start-up is automatically adjusted based on the effort required by the implement.

MACHINE AND IMPLEMENTS

Tony V has 3 implement hitching areas: **front, rear** and **middle**. Each technical and carefully engineered solution has been designed to ensure maximum flexibility of use for the operator. Special attention has been afforded to defining new spaces along the sides to allow easy installation of mid-mounted implements.



REA POWER LIFT

The newly designed rear power lift has been specifically developed for operations inside narrow crop rows. It features electro-hydraulic side oscillation and tilt adjustment. The operator can correct the alignment of the implement with respect to the row and compensate the side tilt in case of works on a slope. The position and tilt of the power lift unit are visible on the display.

PLUS

- *Compactness*
- *Lifting capacity 2700kg*
- *Integrated hydraulic tie-rods as standard*
- *Electronic draft control*
- *Damping*
- *Dual external electric controls*
- *Lift bars approved for towing*

FRONT HITCH

The implements can be front-hitched as follows:

1 - **Flanged hitch**: allows the most rigid possible connection of the implement for more accurate operations, reducing the overall length of the tractor;

2 - **Hydraulic power lift unit** Category 1 double- or single-acting with folding arm equipped with Damping.

MID-MOUNT HITCHES

Hitching mid-mounted implements is facilitated by the presence of special anchor points on both sides of the tractor, as well as the absence of encumbrances on the sides of the bonnet. The bonnet width **(just 650mm)** allows bilateral applications without the overall encumbrance exceeding the external width of the wheels. Use of mid-mounted implements facilitates more accurate operations in rows, for example under-row work. The force of the implements is applied to the centre of the tractor and balanced on both axles.

PLUS

- *Bonnet width only 650mm*
- *Approved side anchor points*
- *Rapid installation of implements*
- *Combined implements*
- *Stability and manoeuvrability*

CAB

Tony V tractors are fitted standard with the AIR V cab, an exclusive AC design featuring the most advanced driver's seat in the entire range.

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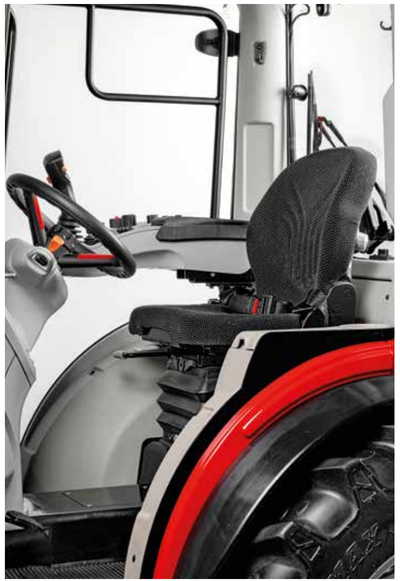
The *AIR V* cab is distinguished by its tapered shape, facilitating its manoeuvrability between rows. It has no side protrusions, not even the handles, which are seamlessly built into the shape of the door. It features LED headlights, all perfectly housed in the bodywork. The work lights (2 front, 2 rear, 2 side) similarly use LED technology and are incorporated into the roof. Their raised position aids visibility of the surrounding space both at night and during normal working hours. In addition to their normal operation, they also have a "courtesy function", automatically turning on in reverse mode, on bends and when the vehicle is switched off. The front and rear indicators are installed in the top part of the up-rights to ensure good visibility even with hitched implements. The rear-view mirrors are electrically adjustable (optional).



ERGONOMICS AND COMFORT

The driver's seat is housed on a spacious **suspended platform on silent blocks**. The forward-tilting steering wheel and the large, all-glass, full-opening doors ensure easy access to the vehicle.
The **central tunnel**, just **11 cm** high, makes it easy to climb on board and ensures the operator can sit comfortably.
The monocoque cab with 4 uprights offers **360° visibility**. The front window extends all the way to the top of the roof, ensuring maximum visibility of the front implements. The central and lower glazed part of the cab offers full visibility of mid-mounted implements. The operator enjoys an instant view of the rear implement thanks to the retracted position of the driver's seat above the rear axle. While working, the operator feels as though they're sitting "on top" of the implement.

The front wheels are visible from the driver's seat in all manoeuvring conditions. Control of the implement is guaranteed not only by the cab's large windows but also the ergonomically positioned controls.
The *AIR V* cab features additional automotive accessories such as cab lights, clothes hooks, a wireless charging port, glove compartment, drinks holder, etc.
The multifunctional **control console** is **standard**. Located on the right of the operator, it can be adjusted in different positions and is characterised by a user-friendly and ergonomic design.
The profile of the **central panel** allows comfortable seating and a pleasant driving experience.

ELECTRONIC DRAFT CONTROL AND DAMPING

The rear power lift position and electronic draft control system is standard. It enables control of the working depth, draft and traction of the tractor with millimetre precision thanks to the load sensors positioned directly on the lift arms. It also allows maximum implement lift and movement speed control. The electronic damping ensures high-speed road transfers **without oscillations** due to the mounted implements.

ELECTRONIC DRAFT CONTROL

THE HYDRAULIC SYSTEM

The Tony V range features a cutting-edge hydraulic system designed to fully satisfy the needs of the most demanding operators.
The hydraulic system consists of **3 independent circuits**, allowing **simultaneous operation of different implements** without any perceived loss of power or performance.

TRANSMISSION CIRCUIT
This is a completely independent circuit with its own 25-litre hydraulic tank, high-efficiency heat exchanger and rapid heating system for harsh climates.

LIFT AND STEERING CIRCUIT
This circuit is powered by a **45 l/min gear pump** allowing total independence of the lift and steering system.

HYDRAULIC COUPLERS CIRCUIT
This circuit is equipped with a ***load-sensing*** **piston pump** with variable flow rate **between 0 and 90 l/min at a maximum pressure of 200 bar**. If necessary, the flow rate of the lift and steering circuit can be added to this one for an overall total of 137 l/min. The oil tank has a 42-litre capacity and is ready for use with biodegradable hydraulic oil.

PLUS

- + *Reduced fuel consumption*
- + *High hydraulic flow rate at low speeds*
- + *Operating flexibility*
- + *Accurate oil flow delivery*

MID-MOUNT HYDRAULIC COUPLERS

HYDRAULIC TOP LINK

FRONT POWER LIFT*

SLIDER HOOK

REAR HYDRAULIC SYSTEM

HYDRAULIC EQUIPMENT

Tony V can be fitted with **9 load-sensing hydraulic spool valves** in the PLUS version. Five of these are located in the central part of the tractor and four at the rear. Use of these advanced spool valves ensures optimal control of the hydraulic flow rate.

Each spool valve allows for the following adjustments:
Flow rate - Activation time - Sensitivity - Priority and safety block

Moreover, there are **2 zero pressure discharges** to manage implements with this requirement. Two interconnected hydraulic couplers are installed on the two sides of the bonnet, which serve solely as a bypass.

*optional

TECHNICAL DATA: TONY 8700 | 11700 V

Frame	Chassis with oscillating front axle • 55° front-wheel turning angle • Four-wheel drive (selectable front disengagement)	
Engine type	**8700** | DEUTZ - 4-Cylinder - 16-Valve - Turbo Intercooler - Stage 5 - Common rail - 2924 cc Power 55.4 kW / 75.3 hp at 1400 rpm - Max Torque 375 Nm at 1400 rpm	**11700** | DEUTZ - 4-Cylinder - 16-Valve - Turbo Intercooler - Stage 5 - Common rail - 2924 cc Power 82 kW / 112 hp at 2000 rpm - Max Torque 420 Nm at 1600 rpm
Transmission	hybrid mechanical-hydrostatic transmission • 4 robotic ranges with "SIM" (Shift In Motion) technology • Constant speed variation in both directions between 0 and 40 km/h • "Automotive" device • Electronic speed and engine rev control (RPM recall function, Cruise Control, Combined, IntelliFix, Diagnostics)	
Power take-off	Rear, independent 2-speed 540 and 540E rpm	
Hydraulic system	Hydraulic system with up to 9 double-acting independent couplers with settable and programmable operating functions and parameters. Variable pump and auxiliary pumps for high flow rates at low speeds.	
Rear power lift	Adaptive rear power lift - Side movement and oscillation of hydraulically controlled power lift unit - Lifting capacity 2700 kg - Fixed EU-type SLIDER rear tow hook (ex cat. C)	
Brakes	Hydraulic service brakes with double disc oil bath system and foot pedal control acting on the rear wheels, integral braking system with automatic 4WD engagement. Multidisc oil bath parking brake with automatic engagement system.	
Weight	With cab (Kg): 2860÷2935	**11700** - With cab (Kg): 3010 to 3085

STANDARD EQUIPMENT

• PTO: independent and synchronised at 540/540E with progressive electro-hydraulic engagement; • **Standard hydraulic equipment:** pump with variable displacement up to 90 l/min - 4 independent rear DA (double-acting) spool valves • Hydraulic top link tie-rod with fixed coupling cat. 1-2 • Bars with sliding quick couplings cat. 1 without caps • Cuna rear slider tow hook • Original cab with 4 uprights and automatic air conditioning, pressurised, Cat. 2. Equipped with LED lights, 2 rear and 2 front work lights • Pneumatic suspension seat with seat belt and antishock • Front bumper (weight 75 Kg) ready for front ballasts.

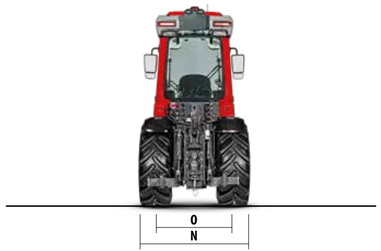
OPTIONALS

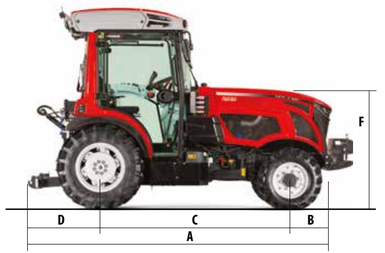
• Side LED work lights • Front mudguards • High exhaust • Front ballasts • Rear ballasts • Double line hydraulic brake • Quick coupling Cat. 2 with cap • Quick coupling Cat. 2 without cap • Front power lift with Damping • Mud scraper • Backrest and armrest • Smartphone support with wireless charging • Grammer seat

AVAILABLE HYDRAULIC CONFIGURATIONS:

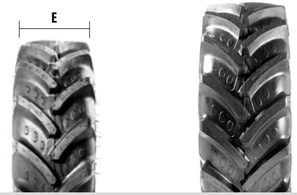
• **Medium version** pump with variable displacement up to 90 l/min - power flow function - 5 independent front DA spool valves and 4 rear replicated DA spool valves

• **Plus version** pump with variable displacement up to 90 l/min - power flow function - 9 independent DA spool valves. 5 independent front DA spool valves and 4 rear DA spool valves.





DIMENSIONS: TONY 8700 V



Standard tyres	**Front - 260/70 R16**	**Rear - 360/70 R20**
E	260	360

Tyres		**Dimensions** (mm)									
Front	Rear	A	B	C	D	F	I	L	M	N	O
200/70 R16*	**250/85 R20**	3595÷3655	600	2095	900÷960	1010	2305	1000	805	1000	750
200/70 R16	**250/85 R20**	3595÷3655	600	2095	900÷960	1010	2305	1070	875	1155	905
7.5-15*	**280/85 R20**	3595÷3655	600	2095	900÷960	1010	2330	1095	890	1090	795
7.5-15	**280/85 R20**	3595÷3655	600	2095	900÷960	1010	2330	1180	975	1170	875
260/70 R16	**360/70 R20**	3595÷3655	600	2095	900÷960	1010	2355	1140	880	1285	925
260/70 R16	**420/65 R20**	3595÷3655	600	2095	900÷960	1010	2355	1140	880	1330	935

DIMENSIONS: TONY 11700 V

Tyres		**Dimensions** (mm)									
Front	Rear	A	B	C	D	F	I	L	M	N	O
200/70 R16*	**250/85 R20**	3675÷3735	600	2175	900÷960	1055	2305	1000	805	1000	750
200/70 R16	**250/85 R20**	3675÷3735	600	2175	900÷960	1055	2305	1070	875	1155	905
7.5-15*	**280/85 R20**	3675÷3735	600	2175	900÷960	1055	2330	1095	890	1090	795
7.5-15	**280/85 R20**	3675÷3735	600	2175	900÷960	1055	2330	1180	975	1170	875
260/70 R16	**360/70 R20**	3675÷3735	600	2175	900÷960	1055	2355	1140	880	1285	925
260/70 R16	**420/65 R20**	3675÷3735	600	2175	900÷960	1055	2355	1140	880	1330	935

**Setup for 30 km/h version*

SAT
Customer Service Team

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 authorised dealership periodically attend technical training courses at the Parent Company's facilities. Each authorised 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.

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.

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.

AC SERVICE

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