



# AC PRESS

ANTONIO CARRARO NEWS



PRESS RELEASE

03/10/2022

## TOP MODELS AT EIMA 2022

### eSP – Full Electric - GLOBAL FIRST

Exactly one year after the presentation at EIMA 2021 of the articulated chassis model of the SRX Hybrid, an isodiametric, reversible with cab and a diesel-electric hybrid engine fitted with a 55kW thermal engine combined with a 20 kW electric engine for a total of 75 kW (equal to 102hp), the technicians from the Antonio Carraro R&D Department, in collaboration with Ecothea, a start-up from Turin Polytechnic specialised in the design of electric vehicles for agricultural machinery applications, have designed a new tractor with a *full-electric* engine.

The new “*concept tractor*”, a world first because it is the only one of its kind, guarantees a performance level of those tractors currently in production with the objective of reducing pollution, noise levels as well as fuel and maintenance costs. It is yet another example of how Antonio Carraro intends to continue playing a strong role in the green economy. Eima 2022 will see the presentation of the eSP model, a 100% electric tractor aimed at civil maintenance, derived from the SuperPark model in current AC production.

The choice of the AC SuperPark model (named eSP) as a tractor destined for a full-electric engine comes from the idea that such a special vehicle, designed for urban maintenance can immediately prove itself to have great performance thanks to the unique technical features provided, in primis, by the articulated ACTIO™ chassis, a common characteristic of all AC tractors.

The tractor is fitted with a 25 kW (33 hp) electric engine and a 32 kWh battery capacity (work tension at 640V). It can be recharged by the civil electricity network or a category 2 column. The eSP uses both conventional equipment and new concept electric implements.

### TIGRE 3800 – DEDICATED TO THE NURSERIES

The Tigre 3800 is an isodiametric tractor fitted with a **25.7 hp Stage 5 Yanmar engine**. It is an “Allrounder” for the management of small agricultural plots, kitchen gardens, greenhouses, nurseries as well as parks, sports grounds and municipal areas. The model on display at EIMA 2022 is the configuration dedicated to nurserymen that require a very narrow tractor, with a minimum external wheel width of 990mm, that is stable on uneven ground, with great traction and elevated lifting strength. Its four equal wheel drive and the ACTIO™ chassis contribute to the operator’s safety and comfort and allow him to work on extremely uneven ground. The production capacity of this new version when working amongst rows of trees in nurseries is greatly appreciated. Thanks to its isodiametric wheels along with its great stability even when using raised equipment, the tractor can work efficiently whilst providing elevated productivity. This special version with a 990mm width does not compromise comfort and the controls remain in an extremely ergonomic position. Another element that should be noted is the tractor’s robustness, even though it is a “light” tractor.



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## CENTO SERIES

***The tractors from the new CENTO Series come with a 73.6hp Kubota Stage 5 engine. It is a 3769cc, direct injection, 4-cylinder, turbo-compressed, 16 valve engine that guarantees maximum power and torque with fantastic acceleration elasticity. It is a "streamlined" engine that guarantees traction and grip on uneven ground, on slopes and when moving between one row of crops and another. The gearbox is the extremely reliable Antonio Carraro 16+16.***

## TGF 8900 CENTO> "low" mondirectional

It is a mondirectional tractor with a low set-up with larger rear wheels (various combinations of wheels up to 24"). Stable on slopes, it offers excellent handling thanks to the reduced diameter of the front wheels compared to the rear ones, which provides a narrower turning circle. The TGF moves through crops with dense foliage as agilely as a panther, where it guarantees smooth, stable movement even on sloping ground. Strong and compact, it is ideal for work on "Y" shaped orchards, vineyards under awnings, in greenhouses on sloping land and on retouching and transversal rows. It has an electrohydraulic PTO with proportional engagement and oil bath disk brakes on all four wheels. It can be fitted with a classic *StarLight* cab or a *super low profile Protector 100* Cat.4 pressurised cab, that unites comfort and compactness with the total isolation of the operator from the inhalation of harmful substances.

## TR 5800 INFINITY – NEW 50 HP HYDROSTATIC REVERSIBLE

The *Infinity* transmission is the common denominator of a range of tractors with a hydrostatic transmission offered with different configurations: an articulated, steering or wide track chassis. They are tractors designed for carrying out precision tasks and are fitted with exclusive technical solutions

The TR 5800 *Infinity* on display at Eima 2022 is a new entry at the new 52hp Stage 5 engine capacity: it is a model destined for the green sector and the management of parks and gardens. It is an isodiametric tractor with steering wheels and reversible drive on a rotating control tower RGS™, characterised by a central tunnel free from levers that facilitate access aboard and enhance operative comfort. The compactness of the tractor and the onboard electronics run by software guarantee excellent handling and ease of use. The control functions of the torque taken from the PTO and from the torque absorbed by the wheels protect the PTO and the engine even in critical situations. The new concept hydraulic system offers 13 rear couplings. In the "top" hydraulic configuration, the TR 5800 *Infinity* is fitted with 6 double-effect distributors, one of which is with a block position and hydraulic flow adjustment and a floater. The return oil is at zero pressure.

The *Infinity* hydrostatic transmission allows activities to be carried out in both drive directions with two speeds (transfer and working) and each one has 3 hydraulic ranges with an automatic gearbox (optional), which can be engaged manually or with an automatic gearbox without losing traction. The forward movement pedal assists the brakes on sloping ground by stopping the tractor on its release without having to use the brakes. The *Cruise Control (or Tempomat)*, *Limit RPM*, *Intellifix*, *Drive Mode*, *Fast Reverse* and the *Uniflex* suspension allow the operator to find the right set-up for the task at hand. The inverter on the electrohydraulic steering wheel is especially practical when moving forwards and backwards even repetitively without having to use the clutch; the transmission can be managed entirely with the accelerator pedal.



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## TONY SERIES

### THE TOP-OF-THE-RANGE OF THE AC HYDROSTATICS

***The TONY series is the star of the tractor fleet on show at EIMA 2022. It consists of models with a hybrid mechanical-hydrostatic transmission managed by the latest software: the TONY 8900 TRG, has different sized steering wheels; the TONY 8900 V and the 11700 V are tractors with a conventional chassis and the Mach4 TONY, the first reversible quad track with a cab, has an articulated chassis, hydrostatic transmission and is a finalist in the Tractor of the Year 2023 competition in the Best of Specialised category.***

### THE TONY TRANSMISSION

The transmission comes with a hydrostatic group and a robotic mechanical gearbox that uses *SIM - Shift In Motion* technology: it offers 4 electronically controlled speed ranges, which can be selected when stationary or in motion. It is a compact transmission with automatic features controlled by the ITAC (*Intelligent Tractor AC*) operating system, like the *Tractor Management Control (TMC)* which simplifies all driver operations. A centralised control designed to ensure the tractor constantly works in optimal conditions in terms of savings and productivity. The system guarantees several different functions including maintaining constant parameters during work, even during changes in slope, uphill and downhill. All the safety and monitoring systems of the tractor's diagnostics for the vehicle's scheduled maintenance "run" inside the ITAC. The operator can set, customise, and save the parameters of each job, calling up the preselected combinations when necessary and making any changes during the different work stages, based on variations in the soil and type of crop. The speed is independent of the engine revolutions: both can be separately programmed. The speed ranges go from 100 m/h to up to 40 km/h (Mach4 TONY: up to 30 km/h)

### New TONY 8900 TRG

Steering with reversible drive and a 72.4 hp, Stage 5 engine, it is the new hydrostatic in the series and it is characterised by its different sized wheels (the rear wheels go up to 24"). It is a tractor with great traction and good ground clearance that enables it to work agilely in rowed crops on uneven ground, even in the presence of high residual crops (pruning) and it can get over furrows and brows with great ease. It is also suitable for ploughing. Like no other AC tractor, it brings together strength, stability, compactness and work precision. Onboard comfort is enhanced by the cab with its wide driver's seat and extremely comfortable operative living space. As an optional extra, it can be fitted with a pressurised *Air* cab with ROPS and FOPS homologation, available with a Cat.4 certificate that guarantees the operator's full protection from the inhalation of harmful dust, aerosols and vapours.

### TONY 8900 SR – THE ARTICULATED HYDROSTATIC

It comes with a 4-cylinder, turbo, Common Rail, 72.4 hp Stage 5, Kubota engine. It is the *Tony* with the articulated chassis. It is a "slim", compact tractor with good handling and reversible drive. The *Tony* transmission, managed by software, allows each precision agricultural task to be personalised in all its phases thus optimising the result and simplifying procedures. The TONY 8900 SR is designed for carrying out precise tasks as well as sowing, muckspreading, weeding and carrying out treatments on turfed areas. The functions for the management of constant work speed guarantee a homogeneous execution of the activity thus avoiding wasting chemical products and reducing procedural times for maximum performance as well as a reduction in fuel costs.



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As an optional extra, it can be fitted with an *Air* cab, pressurised and ROPS and FOPS homologated that is available with a Cat.4 certificate that guarantees the operator's full protection from the inhalation of harmful dust, aerosols and vapours. At Eima 2022 it is proposed in the new variant with horizontal reducers that offer better ground clearance and a wider wheelbase that increases stability on slopes.

## **TONY 8700/111700 V – NEW HYDROSTATIC CONVENTIONAL TRACTORS**

*A finalist for the prestigious Tractor of the Year 2021 award the Tony V is the first AC tractor with a conventional chassis which is mono-directional with a cab, building on the already vast range of "custom" models for each AC client.*

The *TONY V* Series with conventional chassis tractors has completed the range with the addition of two new engines. The models have the same dimensions with a minimum width of just 990mm. They have direct injection, diesel Deutz engines fitted with Common Rail, turbo, 4-cylinder intercooler, 16 valves and with 2924 cc.

Tony 8700 V > Maximum power 75 hp at 2000 rpm/Maximum torque 375 Nm at 1400 rpm  
Tony 11700 V > Maximum power 110 hp at 2000 rpm/Maximum torque 420 Nm at 1600 rpm

The *TONY V* are equipped with digital features designed to simplify the task. They are versatile tractors designed for rowed crops and are specialists in precision activities. They are intended for operators who need to work with a combination of different implements at the same time. Working comfort is guaranteed by the spacious driver's seat featuring ergonomically positioned controls. Furthermore, the tractor's versatility is ensured by the possibility of applying rear, front and mid-mount implements. Its design and build make it particularly suited for workspaces where manoeuvrability and trajectory precision are crucial.

The hydraulic system consists of mechanical gear pumps and gears along with one variable hydraulic piston pump. The *load-sensing* management and enhanced-diameter tubing circuit reduce drops in pressure when operating at low engine revolutions and with high hydraulic flow rates. It is a solution that drastically reduces its environmental impact (CO<sub>2</sub>) because it also **reduces fuel consumption**. The hydraulic tank has a 35-litre capacity and 2 *Zero-Pressure* drains: one at the rear and one mid-mounted. The hydraulic flow rate can get up to 137 l/min (with *extra flow*) with a variable displacement pump activated only in case of use. The hydraulic system offers up to 9 independent electronic double effect distributors (4 at the rear, 5 mid-mounted).

The *TONY V* comes as standard with the **AIR V** cab and features the most technologically advanced driver's seat in the entire AC range. The driver's seat is housed on a spacious suspended platform mounted on *silent-block*. The lowered centre of gravity and slim central tunnel ensure easy operator access to the vehicle and a comfortable, anti-fatigue environment. During working activities, the view of the rear implement is instant, thus making the operator feel as if they are **positioned directly "above" it**. The smaller diameter of the front wheels offers a 55° steering angle, resulting in very tight turns. The cab with 4 uprights, spacious and fitted with all comforts, offers automatic climate control which can be managed from the digital display on the driver's console. It is pressurised in Cat. 2 or 4 and FOPS and ROPS approved.



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The rear headlights for on-road use are LED and integrated into the roof: their raised position helps increase visibility in the space surrounding the tractor, even with mounted implements. The rear-view mirrors are electrically adjustable.

## **Mach4 TONY > THE QUADTRACK WITH HYDROSTATIC TRANSMISSION FINALIST Tractor of the Year 2023 - Best of specialized**

***First and only model on the market: articulated, reversible quadtrack with cab and hydrostatic transmission. Available in two engine capacities of 73.2hp Stage 5 and 96.7hp 3B for the Italian market.***

The Mach4 TONY is a one-of-a-kind model. It is a quadtrack fitted with four rubber tracks with a minimum width of 1300mm along with a hydrostatic transmission on an articulated chassis. It comes with the pressurised AIR cab as standard with its air conditioning system and Cat.4 ROPS and FOPS certification. It is fitted with an interconnectable electronic system and is perfect for Agriculture 4.0 thus guaranteeing maximum efficiency during crop spraying whilst respecting the soil surface during sophisticated cultivation processes required by organic agriculture. It is a tractor that adapts itself perfectly to tasks that other tractors are unable to carry out whilst offering stability and top-level operative safety.

The 4 tracks are an AC solution, tried and tested since 2007, a year that saw the introduction of new rubber "Tracks" capable of high performance in the field, with minimum ground compaction capable of working perfectly on vertical and lateral slopes, on slippery terrain, in muddy conditions and on sand. Its maximum speed with road homologation, not granted to classic tracked vehicles, is 30 km/h.

## **SP 4800 HST - ARTICULATED, MONO-DIRECTIONAL FOR CIVIL MAINTENANCE**

It is a new isodiametric, mono-directional model with hydrostatic transmission and articulated chassis, equipped with a Yanmar 4-cylinder 38hp engine. It is a compact vehicle supplied with a "full optional" cab with new LED headlights and new accessories that improve onboard comfort. The articulated ACTIO™ chassis ensures agility and manoeuvrability in confined spaces for maintenance works on footpaths and narrow streets, or amongst slaloms around plants, in parks and gardens. It can be equipped with front and top-fitting implements thanks to the loading bed on the bonnet. The **joystick** and ergonomic controls ensure practical management of the implements with all functions within arm's reach. The **Speed Fix** function allows you to set constant work and travel speeds. The cab has air conditioning, a sprung seat with armrests, hangers, and all comforts needed by operators. At Eima it is presented with a 1500 HDS mowing plate with 3 blades with a width of 1500mm (also available with a lateral unloading version) and a hydraulic, collapsible collection box with a 900-litre capacity and a 2-metre tipping height.