



**MACH 4 TONY**





Our aim is the same as always:  
to make the most beautiful tractor in world!

A handwritten signature in black ink, which appears to read "Antonio Carraro". The signature is fluid and stylized, with a long horizontal stroke extending to the right.

# When I was a child...

i was so excited every time I saw a tractor. My grandfather owned an Antonio Carraro and watching it, I dreamed of having one, too. When I was only a child I daydreamed about the future of my life: the only certainty was that i would not have had a boring existence. I imagined an interesting job, my own family. A nice home, a car.

Maybe a motorcycle and a tractor. One day I opened my heart and bought an Antonio Carraro. I owed it to myself...and to my grandfather.



ERGIT



## The future is now

The Tony concept is the fruit of the extremely advanced design projects that result in the most exclusive technical advancements currently available in the sector for mechanised agriculture. Antonio Carraro applies this philosophy to all of its compact specialized tractors, from 20 to 100 HP.

There is a great feat of engineering behind the miniaturising of all the tractor's parts so as to maintain compactness and agility, all of which is enhanced by its constant variable transmission run by software thanks to which many operative tasks can be personalised. Operative comfort is characterised by a drive position with easy access, a central tunnel free of levers and a cab designed without sharp corners and fitted with every comfort.



In over 110 years of activity, Antonio Carraro has developed vehicles for specialised agriculture that have radically changed the working methods used in orchards and on hillsides.

## IDENTIKIT

# COMPACT REVERSIBLES WITH CONSTANT VARIABLE TRANSMISSION

MACH 4 TONY (98 HP – Kubota engine – Stage 3B – 4cyl. turbo) is a quadtrack with an articulated ACTIO™ chassis, reversible drive and an electronically controlled constant variable transmission with 4 speed ranges along with 3 acceleration modes for each range and 3 for each range in Automotive mode. The unique transmission, combined with the Rev-Guide System™, increase the vehicle's versatility, offering it maximum operative efficiency with the possibility of being fitted with numerous pieces of specific equipment and therefore simplifying work procedures in tight spaces, on uneven ground and on steep slopes. The articulated chassis and the narrow track render the MACH 4 TONY model especially agile whilst moving between rowed crops and when carrying out manoeuvres thanks to its wide steering angle.



# EVERY CUSTOMER HAS HIS VERY OWN TONY

Each customer can configure his Tony as he pleases by choosing from numerous diverse settings: cab, roll bar, joystick, front powerlift etc. The TMC running system allows the operator to set the most appropriate work mode for any given requirement, leaving the software the task of keeping engine revolutions constant, in order to optimise performance and minimise fuel consumption. Various hydraulic systems are available for managing any type of implement. Furthermore, MACH 4 TONY in its two configurations with large or narrow track, offers a wide turning circle, which provides unbeatable agility and work speed.

## CLEARANCE

The purchaser of a Tony can configure their tractor according to their individual needs, thus obtaining a tractor that is ideal for all types of rowed crops (grapes, fruit and citrus fruit). Each Tony can be perfectly adapted to individual clearance requirements. The model with the narrowest track is articulated. As far as height is concerned the Tony is at the top of the class, reaching a maximum height of 2.27 m with the Air cab.

## TONY: DNA ANTONIO CARRARO

Essentially, the Tony is a typical, if more sophisticated, AC tractor: articulated, reversible, compact, narrow, multipurpose, designed to offer maximum performance in specialised agriculture:

- » Maximum precision when carrying out tasks
- » Maximum comfort and protection for the operator
- » Maximum power during operation without wasting energy
- » Lower harmful emissions and less noise
- » Maximum savings in terms of time-work, fuel, consumption of chemical products



# MULTIFUNCTIONALITY: the articulated tracked vehicle

Mach 4 Tony is an universal vehicle suitable for working according to prearranged deadlines in specialised crops, vineyards, orchards or nurseries, on flat or sloping terrain, even in extreme ground conditions (slippery, muddy, flooded, sticky or snowy).

Its extraordinary agility and manoeuvrability in small spaces results from its configuration, featuring identical rubber tracks, and its articulated chassis. The reversible driving system makes it possible to change position and use, allowing a wide variety of towed and pushed equipment to be used.





# ACTIO™:

## the exclusive chassis by Antono Carraro

**ACTIO™**, the AC Full Chassis with Oscillation, consisting of a solid cast-iron frame fixed to the axles and housing the tractor transmission, has a central pivot allowing longitudinal oscillation of up to 15 degrees. The two halves of the tractor follow the contour of the terrain independently, assuring stability and traction at all times.

The constant adherence of the rubber tracks to the ground allows engine power to be entirely transferred to the ground, thus increasing performance and safety. With the ACTIO™ chassis, the engine overhangs the frame to achieve a low centre of gravity and a weight distribution of 60% on the front axle and 40% on the rear. However, when an implement is attached to the rear linkage, the weight is distributed equally, with 50% on each axle.



## ACTIO



Thanks to the 45° offset of the front and rear axle final drives, the Mach 4 Tony combines a long wheelbase with a reduced engine overhang: features which grant perfect stability in all operations, ensuring maximum safety and comfort at all times.

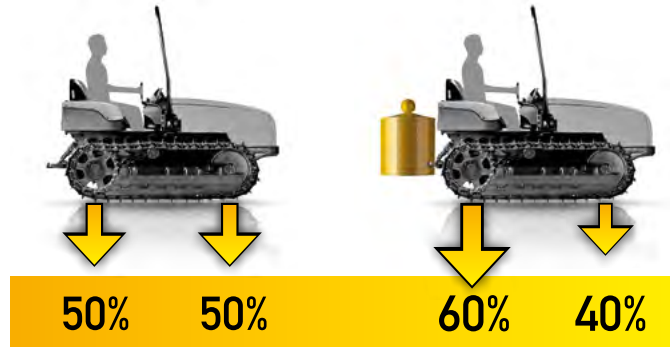
The longitudinal oscillation of each track (+8°-11°), together with the oscillation of the ACTIO™ chassis provide constant grip, even over the roughest terrain.



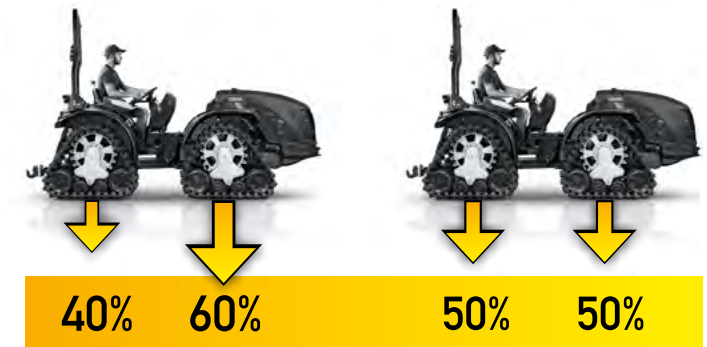
## PLUS

- + **Stability:** low centre of gravity
- + **Comfort:** driving position centred over chassis pivot point
- + **Manoeuvrability:** reduced turning radius
- + **Grip:** equal weight distribution

## TRADITIONAL TRACKED VEHICLE



## MACH 4 TONY





# RGS™ :

## the two-ended tractor

RGS™ (Rev-Guide System) is the AC reversible driving system on a rotating turret; it allows you to invert the driving direction in just a few seconds for efficient operation with rear or front mounted implements. The operator simply turns the seat/steering wheel/dash/pedal assembly through 180° to obtain a new driving position.

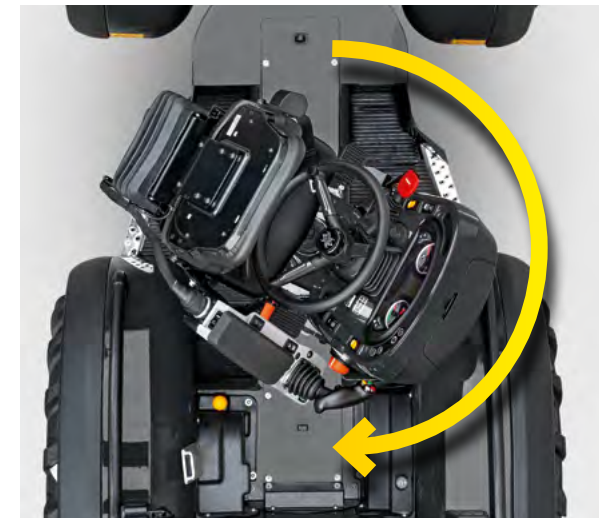
If the tractor is equipped with a joystick, all the auxiliary controls remain in an ergonomic position. The RGS™ system is an integral part of the tractor's multifunctional character, simplifying use and improving operating precision and quality.





## PLUS

- + **Comfort:** simple and intuitive RGS™ system, with dual controls
- + **Implement visibility:** driving position located in the centre of the tractor in all situations
- + **Versatility:** greater productivity



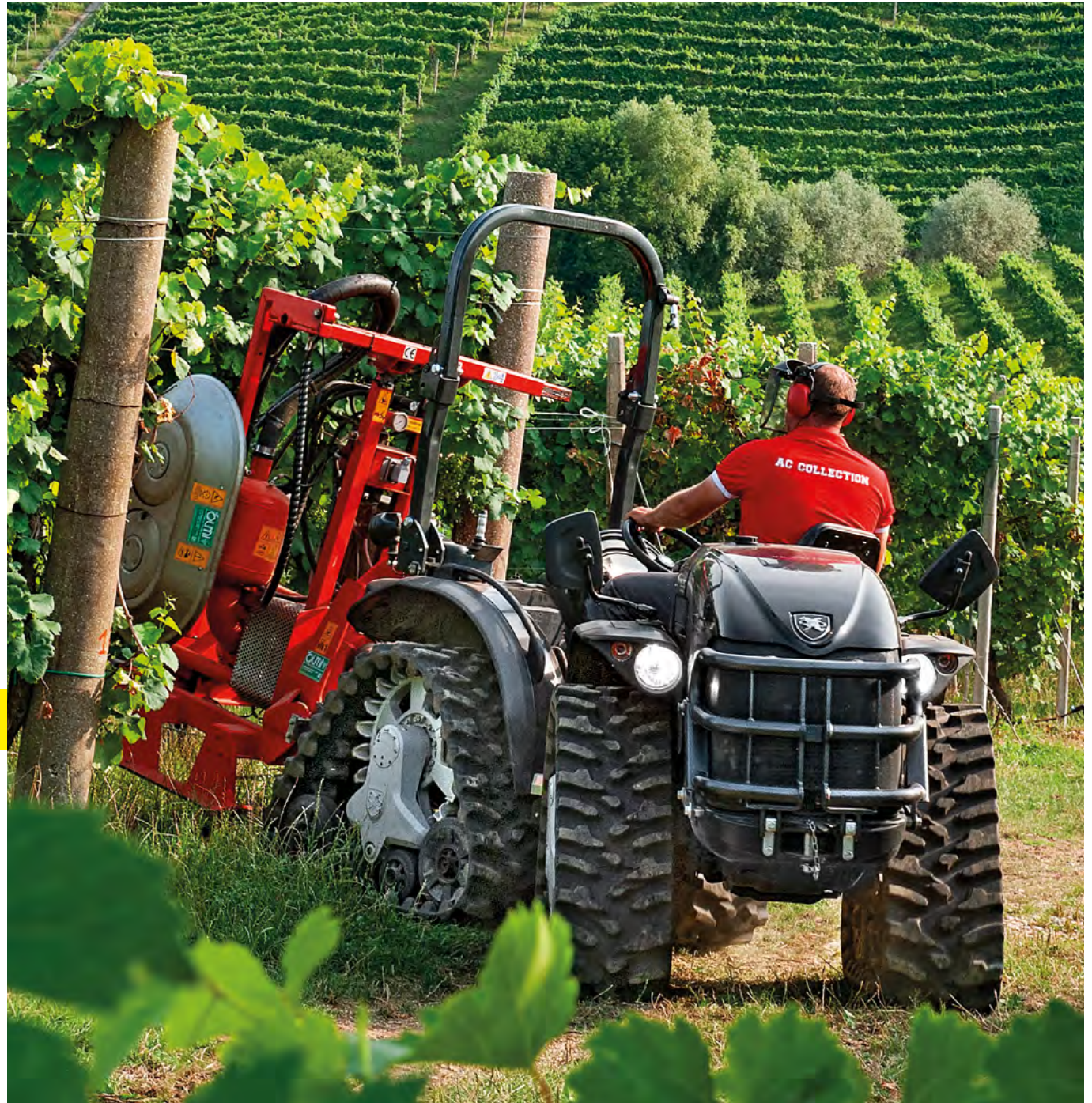
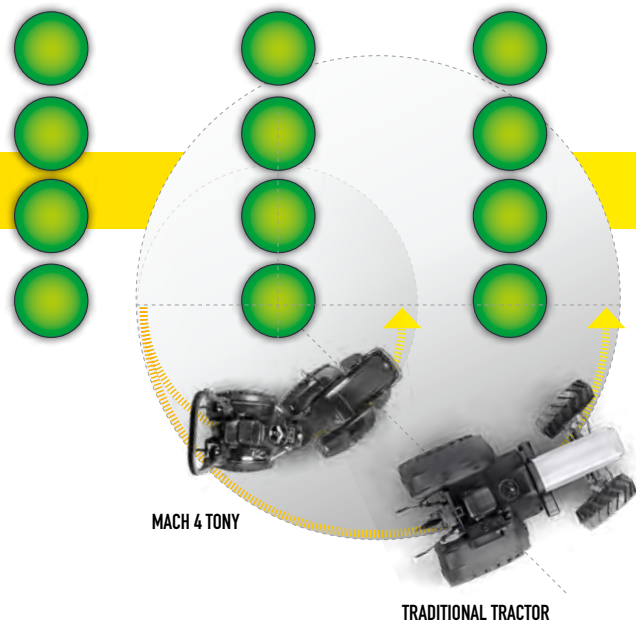


**STEERING:**  
precise and tight

**AGILITY PRECISION SPEED**

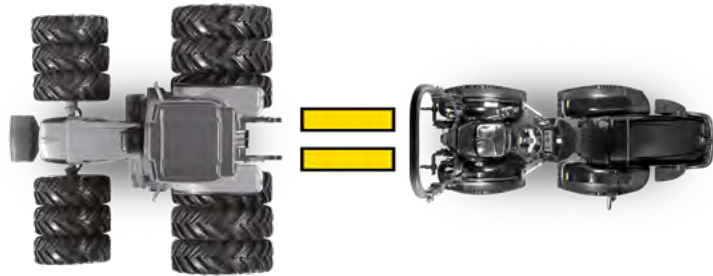
The extraordinary agility of Mach 4 Tony results from the ACTIO™ articulated chassis which allows tight turns and precision manoeuvres in confined spaces.

Unlike conventional crawlers which pivot turn, causing significant damage to headlands, the Mach 4 Tony barely marks the ground when executing tight turns, as the rear tracks follow the lines of the front tracks. The Mach 4 Tony steering system stays efficient for longer, as manoeuvres, including headland turns, are performed by the frame without use of the brakes. The steering brakes (which for this very reason are optional) are only used as an extra aid when manoeuvring in the most difficult conditions.



# DRIVE:

like a multi-wheeled tractor



This special traction is enhanced by the finely-tuned engine and the “projecting” engine configuration of the vehicle. These cutting edge technical solutions ensure the traction is equal to that of a multi-wheeled vehicle of the same size.



## TRACTION ON ROUGH TERRAIN

The traction remains constant even while changing trim during work on extremely uneven ground, thanks to the superior weight distribution area on the two axles compared to a traditional tracked vehicle. This prevents the tracks from skidding on slippery terrain and damaging the topsoil and headlands



MACH 4 TONY

TRADITIONAL TRACKED VEHICLE

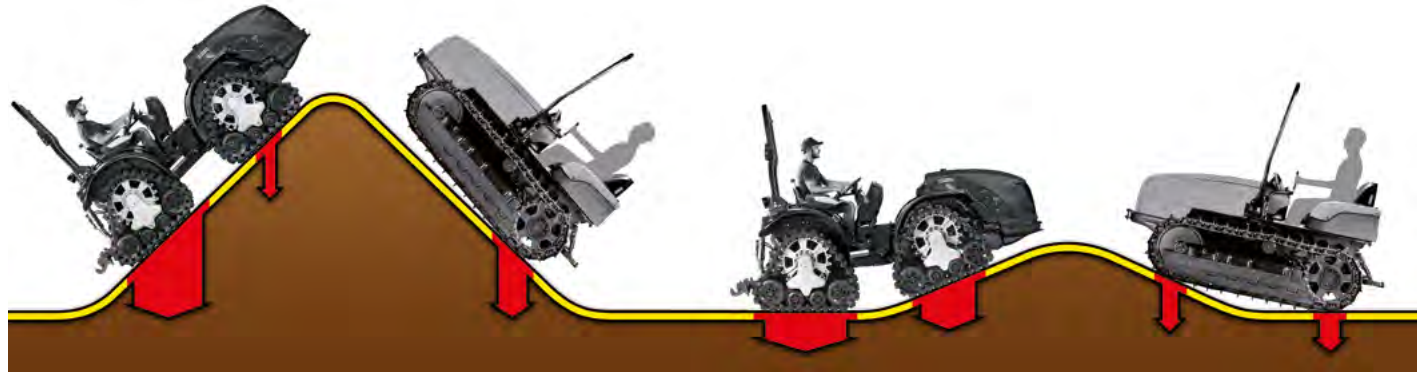


## PLUS

- + Greater stability and safety
- + Increased capacity of carrying loads uphill
- + Ground recovery work no longer necessary
- + Reduction in working times

## FOUR INDEPENDENT TRACKS FOR UPHILL SLOPES

Unlike a traditional 2-track tracked vehicle, Mach 4 Tony features 4 independent rubber tracks each of which independently follows the bumps of the ground. The traction remains constant even uphill as the mass is also distributed on the front axle.



## ADHERENCE TRACTION SAVING



**NO SKIDDING**



**LOWER FUEL COSTS**



**TIME SAVINGS**



**SAVING IN GROUND DAMAGE  
REPAIRS**



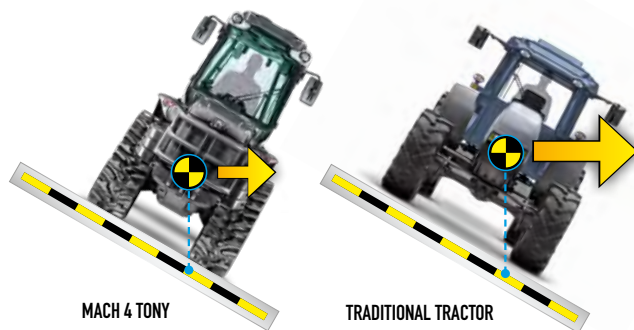
**MONEY SAVINGS**

# SAFETY:

## full compliance with the Mother Regulation

From January 2018, a new standard, known as the "Mother Regulation", has unified all the structural and construction criteria for every tractor produced in Europe. Antonio Carraro has taken this opportunity to enhance the new Series with numerous additional features designed to guarantee the safety of the operator and also to improve comfort and the user experience.

The controls are now colour coded according to function: red to shut off the engine, orange for driving and parking, yellow for the power take-off and dark colours for the hydraulic system and linkage.





## SAFETY

Safety, however, is always top priority for AC: low centre of gravity, constant traction, stability, efficient braking, protection of the driving position — these are some of the so-called “active” safety features. These are combined with “passive” safety elements, such as the quality of the components, the design, the choice of environment-friendly engines.

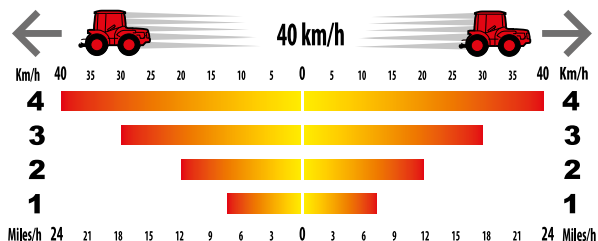
The braking system, comprised of four oil-immersed disc brakes with hydraulic control, requires no adjustment and guarantees a modulated braking action even stopping suddenly.

The electrohydraulic differential locks, rear or simultaneous on both axles, prevent wheel slip to maintain traction at all times. Cab and roll-bar are designed and tested to protect the operator in the event of the tractor overturning.



# THE TONY CONSTANT TRANSMISSION





The transmission provides exceptional sensitivity both during operational activities and road transport, thus allowing optimal speeds to be maintained for all uses. From 10 m/h to 30 Km/h, in all situations, there is an ideal working speed for the plain, on hillsides or on steep slopes. All the engine's resources are fully exploited without interruption (not even in critical points: changes of slope or speed) because the transmission is constantly engaged.

The Tony transmission is an ultra-compact hybrid-hydrostatic-mechanical transmission, which optimises the tractor's performance by lifting it to maximum operational efficiency. It offers the operator maximum yield and precision during operational tasks as well as extraordinary facility of use; the electronic inverter, for example, (positioned on the lever on the steering wheel or on the joystick) can be activated at any moment and at any speed, in both drive directions.

The Tony transmission is run by an operating system. The response of the transmission to the work programme set is immediate, the tractor's forward movement is always fluid, without discontinuity or jerking, even on a restart. There is no clutch pedal to press during working activities. The operator only has to choose the speed parameters or the engine revolutions, combining them according to the job to be carried out.

## ON BOARD DIAGNOSTICS

### SERVICE

- » The product engineering of all of the Tony devices has been designed to allow easy access for quick and practical maintenance interventions on the tractor. The SERVICE function is managed by the software and is programmed to indicate the timing of services and all that concerns maintenance and the tractor's care on the dashboard's display panel.

### ERROR

- » Every time an "error" of any kind comes up a code appears on the display corresponding to a malfunction. The operator can therefore ascertain the malfunction in real time and carry out the necessary correction, whether it be of a functional or diagnostic nature.





## ELECTROHYDRAULIC REVERSER

It is an exclusive system with electronic control, which is highly requested by the most demanding agriculturalists. It consists of a lever on the steering wheel that allows the drive direction to be inverted without taking the hands off the steering wheel. As well as comfort guaranteed by the intuitive use, the elimination of levers on the central tunnel and the reduction in handling time, it provides safety and operative control at all times. This technical solution is possible thanks to the electronic control unit that manages all changes in drive direction.

»





# THE OPERATING SYSTEM:

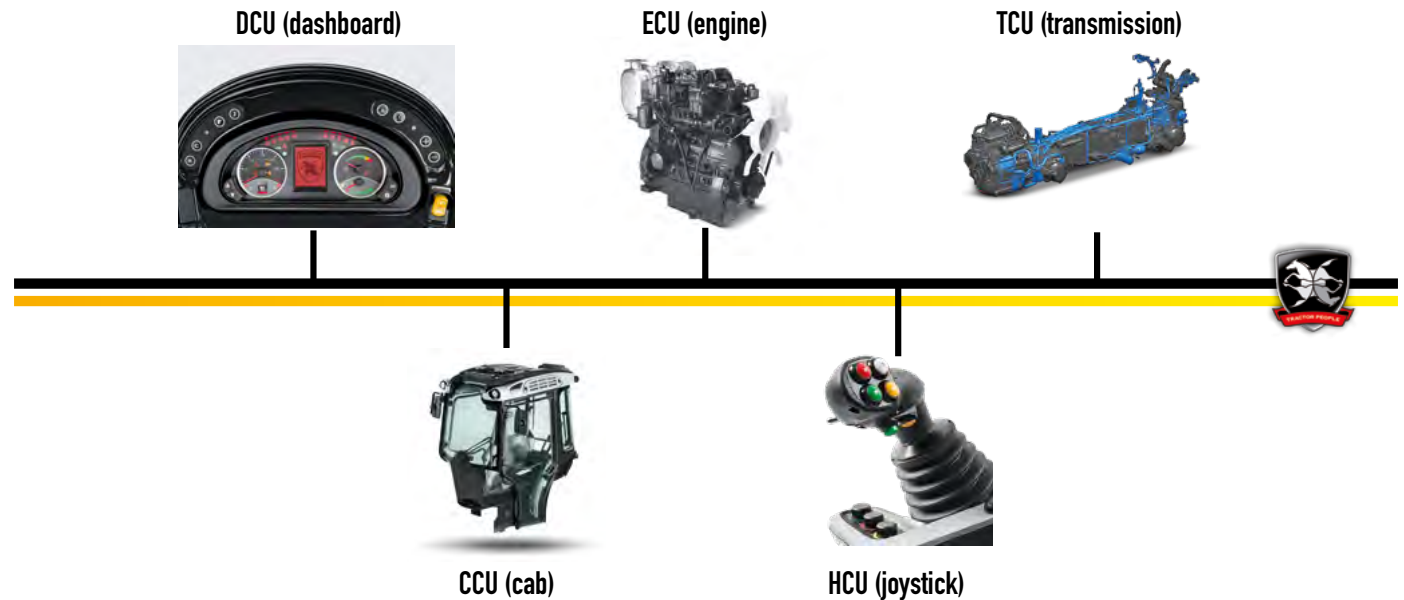
## ITAC SOFTWARE (Intelligent-Tractor-Antonio-Carraro)

Each customer can personalise the functions of his tractor. The electronic control unit, equipped with the ITAC operating system, manages, monitors and intervenes on the vehicle's setting anomalies and work parameters, allowing, thanks to the TMC system, for the personalisation of the tractor's operative **mode according to the type of terrain, working conditions, equipment being used and personal drive style.**

The operator can select the working speed and the rpm of the PTO and can simultaneously select, for each of the 4 speed ranges available, one of the 3 drive modes, in order to maximise efficiency and operative comfort whilst reducing both stress, fuel consumption and energy.

The operating system on board is also fitted with Safety Control (a safety system that constantly checks the correct functioning of the software itself, allowing the operator to work in total tranquillity). The software also provides the **tractor's diagnostics**, signalling maintenance interventions, the correct functioning of all the tractor's sensors and the consistency of all signals to the operator.

The illustration shows the CAN Bus communication network: a "streamlined" system that simplifies and speeds up data transferral. By using a few electrical cables and by putting the different units of electronic control in communication with each other it is possible to obtain the immediate visualisation on the display of all the network's messages.





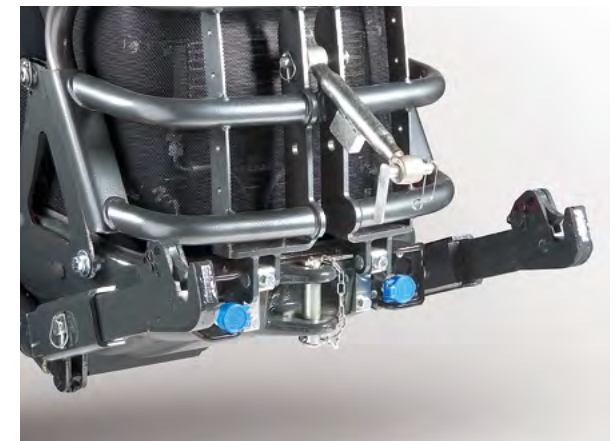
# TRACTOR AND IMPLEMENT:

technology in harmony

The three-point linkage, hydraulic system and power take-off are all devised to meet the requirements of a wide range of implements and have been re-designed to increase operator comfort and reduce working stress.

The rear lift is a single unit with vertical cylinders, equipped with a dedicated pump and hydraulic system; it allows the implement to follow the contours of the terrain without bumps and jolts. It is equipped with extendable bars and adjustable quick couplings (Cat. 2). At the rear of the tractor we find a 7-pole trailer socket and a 3-pole socket.

The front lift (optional) provides the possibility for combined operations using front and rear implements, but does not alter the profile of the bonnet when not in use.





#### **POWER LIFT**

Auxiliary rear hydraulic remotes with 3 distributors (2 double acting and 1 single acting), 1 oil reflow.



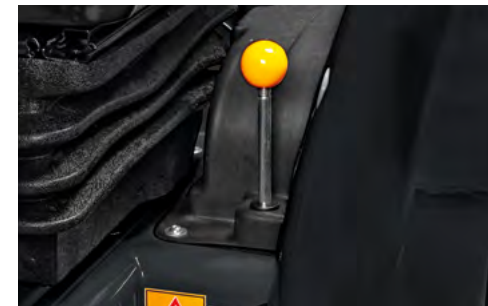
#### **3-POINT LINKAGE**

Adjustable lifting arms with Cat. 2 and Cat. 1\* quick coupling with adjustable width.



#### **RAISED 3-POINT HITCH\***

For a lifting geometry favourable to the adjustment of the implements.



#### **PTO LEVER**

This command selects the PTO shaft in independent or synchronised mode.



#### **CONTROL TO KEEP PTO RUNNING**

This control keeps the PTO engaged and running even when the operator leaves the seat.



#### **POWER TAKE-OFF**

PTO shaft with operating ranges 540/540E and standard.





## WORKING EQUIPMENT

The rear part is designed to improve working comfort, thanks to a number of key features:

- » New attachment and increased extension for the hydraulic top link
- » Lift arms with adjustable length and adjustable hooks as standard
- » Work light
- » Hydr. service couplers integrated in the mudguards
- » Engagement facilitated by the cardan shaft
- » The PTO can be engaged while the tractor is moving
- » Hydraulic system with two load sensing pumps with independent circuits and heat exchanger



## VERSATILITY





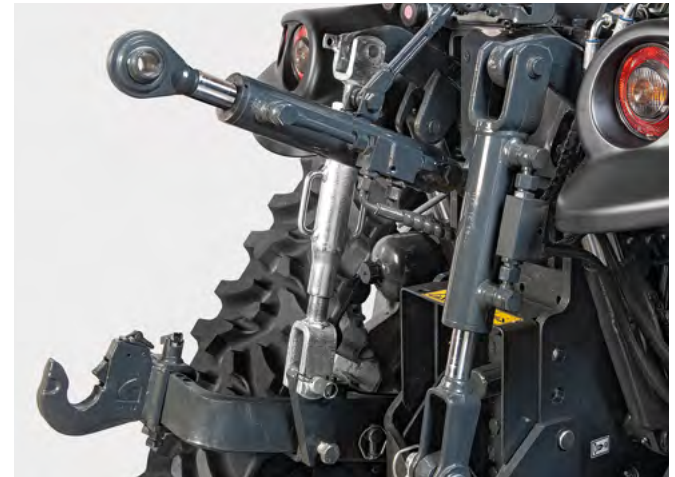
#### **DIFFERENTIAL LOCKS CONTROL**

The front and rear differential lock prevents slipping and optimizes traction. The front traction disengagement is useful when working on delicate grounds.



#### **ELECTRONIC LIFT CONTROL\***

Electronic position and draft control of the linkage with integrated maximum lifting height, rate of drop and damping control. Located in a control console including a lid that can be opened.



#### **HYDRAULIC VERTICAL LIFT ROD AND TOP-LINK\***

Hydraulic lift rod and top link to allow adjustment from the driving seat.



#### **HYDRAULIC SYSTEM**

Auxiliary rear hydraulic remotes with 2 double-acting (1 floating) and 1 single-acting distributors, plus 1 oil reflow with 6 rear hydraulic outlets + 2 double-acting with 4 electriccontrolled mini-outlets.

**Electro-proportional\*** hydraulic system controlled by joystick with double driver safety system and integrated control unit with user-adjustable settings -12 rear quick couplings.



#### **EXTERNAL CONTROLS OF THE POWER LIFT UNIT\***

Raise and lower the rear power lift unit (with driver on the ground at the side of the machine) during hitching of the carried interchangeable tool.

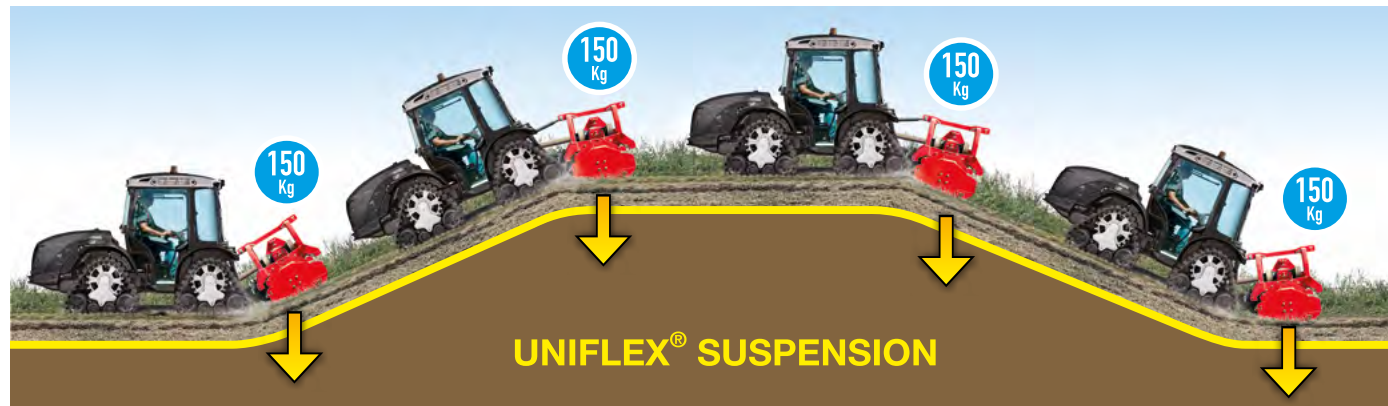
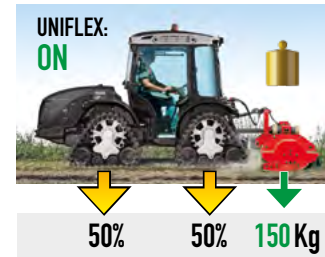
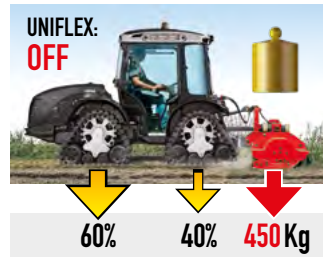
# UNIFLEX® SUSPENSION

The UNIFLEX\* suspension with electronic control allows for part of the weight of the equipment to be transferred to the tractor's wheels. The reduction of specific ground pressure leads to numerous positive effects:

- » Lower compaction
- » Less resistance to pushing and pulling
- » Greater productivity
- » Lower fuel consumption
- » Greater grip
- » Greater stability
- » Damping

The UNIFLEX suspension with coaxial cylinders maximises its efficiency thanks to a reduced number of friction points. Its innovative concept allows the equipment to follow and adapt itself to the contours of the ground, keeping the ground pressure constant thus benefitting speed and work precision.

The Damping system, when activated, compensates for stresses transmitted from the mounted implements and increases comfort while protecting both driver and machine from stress and possible harm.

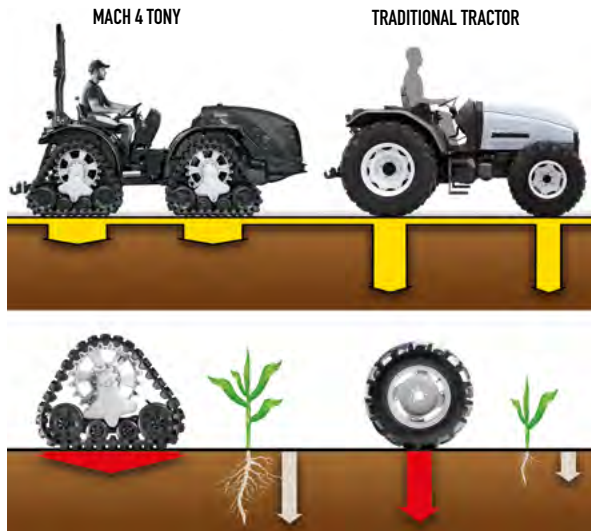


# FLOATATION:

## minimum compaction

The “floatation” of the vehicle on the ground surface allows for excellent use of Mach 4 Tony all year long, making it possible to work on wet, muddy, marshy, crumbly, snowy and sandy terrains.

The perfect weight distribution on the rubber track treads makes for minimum compaction, inferior to that of footprint.



# ITAC INTELLIGENT TRACTOR AC

Many functions on the display with one objective in mind: a top level tractor for perfect performance.

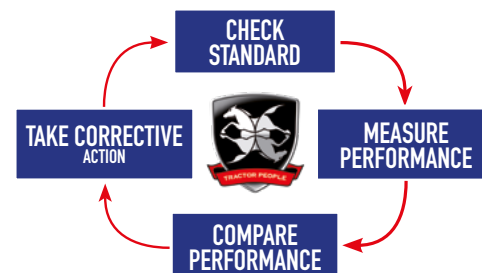


The ITAC operating system is made up of four main functions:

**FUNCTION SETTING**



**FUNCTION CONTROL**



**SAFETY CONTROL**



**TMC SYSTEM**



## FUNCTION CONTROL

- » Monitors temperature, pressure, sensors, engine revolution uniformity according to the task being carried out (Torque Control).

## FUNCTION SETTING

- » Allows certain parameters to be set such as the tyres and direction via the WHEELS SETTING, DRIVE DIRECTION, FAST REVERSE functions.

## SAFETY CONTROL

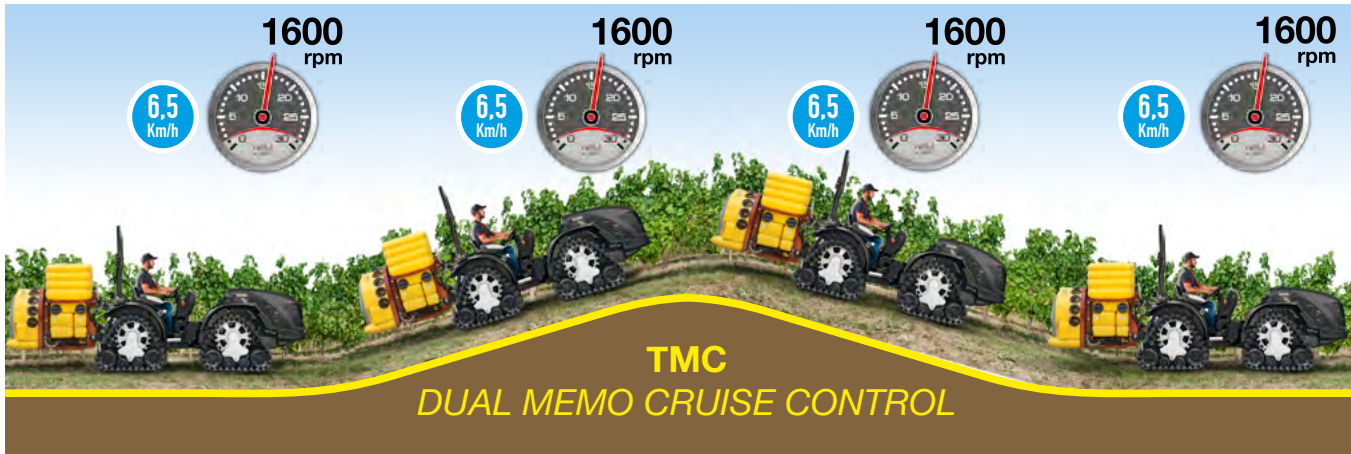
- » Which constantly verifies the working order of the software itself.

## TMC – SYSTEM TRACTOR MANAGEMENT CONTROL

- » Represents the man-machine interface system. The TMC provided the operator with all the possible automatic tasks available.



# TMC – DUAL MEMO CRUISE CONTROL



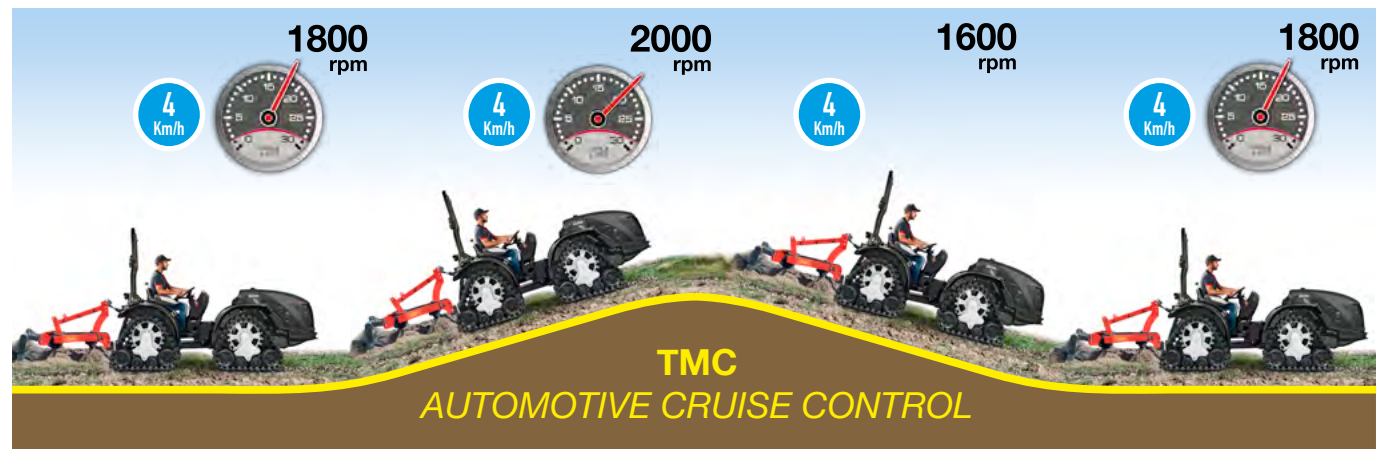
The TMC system, in Cruise Control modality, was designed to maintain speeds and engine revolutions **constant** during work phases. During activities in environments with varying steepness of slopes or on uneven ground, the system monitors and adjusts the vehicle's movement, both uphill and downhill, in order to guarantee maximum precision in terms of PTO revolutions and wheel speed. Pesticides are an example of treatments that require elevated accuracy for their correct, homogeneous distribution without waste.



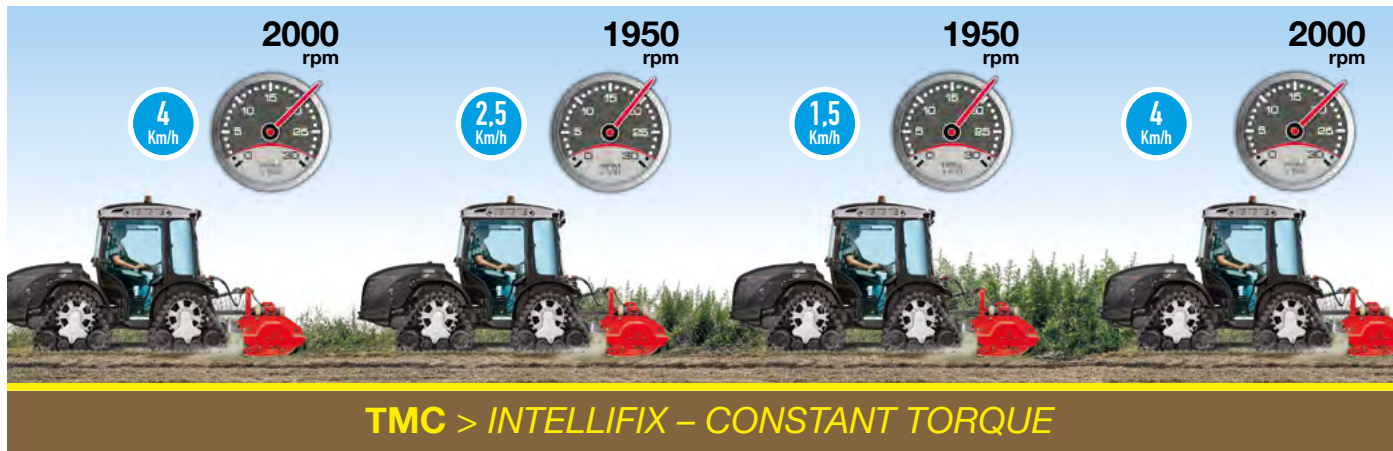
# TMC – AUTOMOTIVE CRUISE CONTROL

The TMC system, in Automotive Cruise Control, was designed to maintain the tractor's speed constant at optimal engine revolutions. On plains or with low loads, the tractor can work with reduced **engine revolutions**.

When facing a climb or an increase in load, the system automatically increases engine revolutions. As soon as the load to the transmission diminishes, the system reduces the engine revolutions again thus adapting the group's displacement so as to maintain the desired speed.



# TMC – INTELLIFIX – CONSTANT TORQUE



**INTELLIFIX** > has the objective of obtaining maximum torque for the engine revolutions set when there is an absorption of power via the PTO. It gradually reduces speed in order to keep the power supply constant.

The innovative Intellifix system was designed for the control and automatic management of forward speeds and engine revolutions. It automatically effectuates a **reduction in speed** in relation to the torque from the wheels and the charge absorbed by the PTO, should the absorption go above a specific percentage level imposed by the operator. Essentially, it maximises working activities with lower fuel consumption.

## SIM SHIFT IN MOTION

- » Is the technology that guarantees the tractor changes in movement without causing jerking or jolting to the operator (it has 4 mechanical ratios).

## DRIVE MODE

- » Allows three different drive styles for each mechanical range both manually and automatically for a total of 24 drive modes.

## STAND STILL SYSTEM

- » Monitors and guarantees the vehicle's stability on slopes.

## AUTOMOTIVE

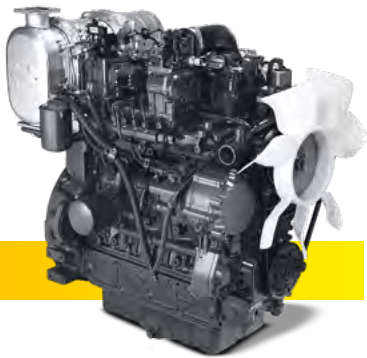
- » Simulates the traditional use of the accelerator rendering the speed control pedal proportional to the engine revolutions.



# ENGINE:

## powerful and quiet

The engines are at the top of their category and offer unbeatable torque and power performance as well as lower fuel consumption, lower noise, and lower carbon emissions. All the engines comply with "STAGE 3B" standards which limit the harmful emissions of diesel engines. Thanks to this new generation of engines, the company has achieved new goals in terms of efficiency and cost-effectiveness.



### PLUS

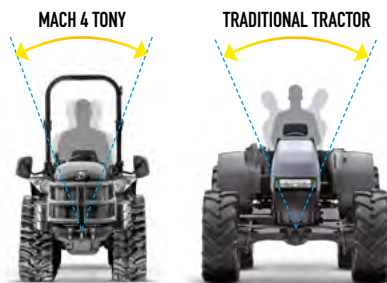
- Reliability:**  
Quality of components
- Performance:**  
Maximum efficiency
- Comfort:**  
Minimum vibrations, noise, and emissions
- Saving:**  
Less maintenance costs  
Rapid amortisation  
Lower fuel consumption



# COMFORT:

## the equal of an open field tractor

From the streamlined, nimble styling to the easily accessible driving position, where we find re-imagined controls, storage compartments and a comfortable seat with mechanical or air suspension: everything on the MACH 4 Tony is designed to ensure maximum comfort for the operator, who can now enjoy a driving position equivalent to that of a large open field tractor.



### PLUS

- + *Less jerking and jolting for the operator*
- + *More stable movement*
- + *More efficient work with equipment*
- + *Lower operator stress*





The lighting system, incorporated in the mudguards, features parabolic reflector units for a longer view of the track ahead, the implement and the surrounding area. Servicing is quick and easy thanks to the fully-opening bonnet and easily removable engine compartment side panels and battery cover.



### Longer platform

Thanks to a major innovation and design process, the driving position of MACH 4 Tony is simply fantastic.

The platform is the product of in-depth research into the working conditions of the specialised agricultural operator. The dimensions of the platform have been increased so as to make it easier to work with the reversed driving position, and the transmission tunnel has been lowered to give more legroom. The longer wheelbase, a natural consequence of the longer platform, improves driving comfort while reducing pitching movements during road transfer and increasing stability on slopes.

Special care has gone into the choice of materials to reduce vibration to minimum and increase acoustic and thermal insulation of the driving position, while also isolating it from the transmission. The silent block platform mountings have been enlarged to ensure they continue to perform well over time.



## Bonnet dimensions unchanged

A meticulous engineering study has enabled us to install the larger Stage 3B engines in the same space as the previous propulsion units. The dimensions of the bonnet are unchanged, making the vehicle easy to operate in confined areas while maintaining good forward visibility.

The engine compartment is easy to inspect thanks to the wide opening bonnet. The cooling pack hinges outwards to facilitate engine maintenance. For applications where the front grille frequently gets blocked with debris (such as haymaking, flail mowing or defoliation), the ACS (Automatic Cleaning System) reversible flow fan is available.

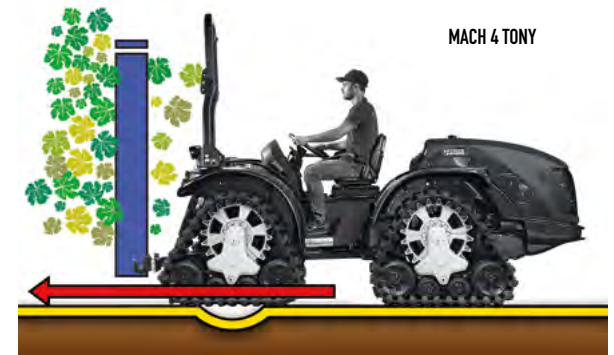
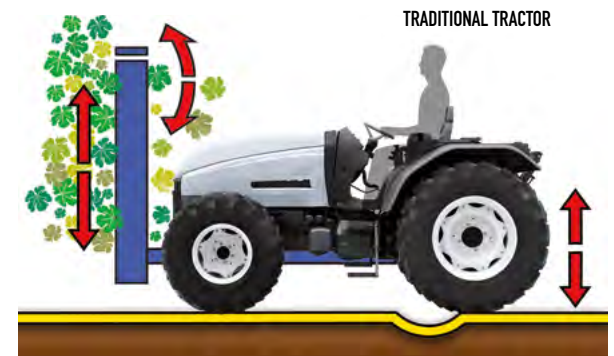


\*Optional





## STABILITY



## New controls layout

The controls and, in particular, the levers have undergone an extensive ergonomic design process to improve operating efficiency.

The pedals have been made larger and shaped to make them easier to use with safety footwear.

## Steering turret and dashboard

The result of in-depth research into operator posture, the dashboard is tapered and shaped to leave plenty of room for the drivers knees and to avoid restricting the legs when working on rough terrain or slopes. The fuse compartment, diagnostics socket and brake fluid reservoir are all located on the top of the dashboard. The battery disconnect switch, integrated and well-protected, is always within easy reach.

We have also positioned the Cruise control switches around the multifunction panel; with these you can set and call up two engine speeds, which, depending on the gear engaged, correspond to two specific travel speeds. We also find the buttons for disengaging four-wheel drive and for activating the power take-off.

The multifunction panel is comprised of a central display that communicates with the engine via the CAN Bus, providing information on speed, fuel consumption, diagnostics and other parameters.

## Seat

The tilt-adjustable steering wheel is complemented by the comfortable, reversible seat. Equipped with retractable seat belts, it is also available in a pneumatic version, with continuous adjustment of height and driver weight between 50 and 130 kg.

Both the roll bar and cabbed versions are equipped with a number of useful storage compartments for your phone, keys and other items.





# AIR CAB

## ROPS and FOPS homologated, pressurised and Category 4 certified

The AIR\* cab offers maximum level operative comfort and safety. The tractor and cab's volumetric profile is harmonious and streamlined in order to grant agility and ease of movement in tight spaces and dense vegetation. To guarantee a perfect working climate there is the efficient heating and ventilation system with an integrated air-conditioning system. It has excellent all round visibility thanks to the cab's many windows on all sides along with a porthole at the same height as the pedal board providing visibility over the ground. The internal illumination allows for the tractor to be used comfortably even at night with constant control over all the functions.

The finely tuned soundproofing and the uncoupling of the cab from the tractor's main body guarantees minimum noise levels when being driven. The operator's living space provides freedom of movement for the legs.



The powerful external lights positioned on the roof, together with the headlights on the tractor's mudguards provide a great strip of light that illuminates the ground in the day and which also allows the operator to work in conditions of pitch black. The Air cab was designed to always be "pressurised" and on request it is possible to have it Cat. 4 certified which guarantees the perfect isolation of the operator from dust, gas and aerosols in full accordance with the European legislation **"UNI-EN 15695- CAT 4"**.



\*optional

# ///AIR



## DESIGN

- » The cabin, integrated with the driving position, is designed to offer improved soundproofing and thermal insulation.

## VISIBILITY

- » On all fronts thanks to the essential structure of the uprights, with curved windows.

## ERGONOMICS

- » The driving seat is ergonomic and comfortable with easy access; all the controls, positioned on the control tower of the reversible drive system, keep their drive setting even in reverse; the controls of the transmission are replicated on the armrest of the multipurpose proportional joystick JPM+(inverter; Cruise Control; speed ranges; Eco Mode Speed; suspension control, etc.).

## PRESSURISATION

- » The heating and pressurisation system (Certification Cat.4: operator protection from dust, gas and aerosol) is controlled electronically with a display positioned on the cab's roof; FOPS and ROPS homologation.

## COMFORT CERTIFICATE

- » Each purchaser can choose their optimal level of protection up to Category 4 (maximum level of operator isolation from harmful dust, gas and aerosols).

## RUNNING COSTS

- » The internal and external illumination system with led guarantees minimum energy consumption; up to 8 external work headlights\*.



# JMC

JOYSTICK MULTI CONTROLLER



The JMC Joystick has been developed according to the most innovative design criteria in order to increase ergonomics and flexibility of the electro-hydraulic accessories.

## ERGONOMICS

The most evident feature of the Joystick Multi Controller is its new ergonomics derived from observing the operators' ways of working and their gestures whilst driving the tractor. The chosen form is aimed at reducing stress to the hand and arm during many hours of work.

»

The console under the forearm has an essential, streamlined design that increases the space available to the operator who can adjust its position according to his needs. All of the buttons are positioned in a logical sequence: the access to the controls is quick and intuitive for a perfect symbiosis between man and machine.

## FLEXIBILITY

The flexibility of the Multi Controller is enhanced by the adoption of a programmable running system: the operator can set different work programmes by attributing the usage sequence to the coloured buttons on the joystick, pre-chosen for every piece of equipment.

»

The JMC joystick activates the oil flow proportionately from the tractor's hydraulic outlets, in order to manage the right degree of sensitivity for each piece of equipment. Each piece of equipment has numerous possibilities for adjustment.

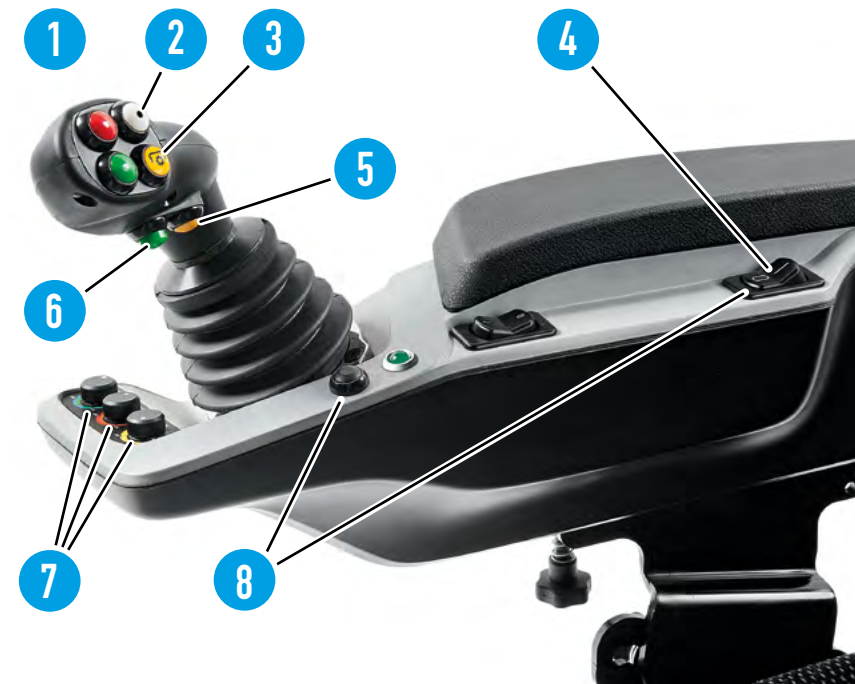
Thanks to the 3 practical potentiometers, positioned on the console, it is possible to regulate the maximum quantity of oil being sent to the double effect outlets and with precision the continual oil flow to the hydraulic engines.



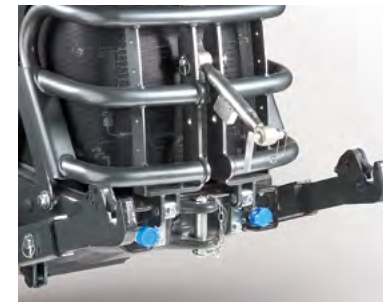
Furthermore the JMC controls:

- 1** Front and rear powerlift (opt.);
- 2** Activation and disactivation of the PTO;
- 3** Inversion of the tractor's drive direction;
- 4** Memory recall of the speed and engine revolutions set for the tractor;
- 5** Activation and disactivation of the UNIFLEX™ suspension and recall;
- 6** Vehicle movement while at work with speed memories activated;
- 7** Speed range of the robotic transmission;
- 8** Control of the engine revolutions via a practical hand operated accelerator;
- 9** All of this, with just one hand, while the other is firmly on the steering wheel.

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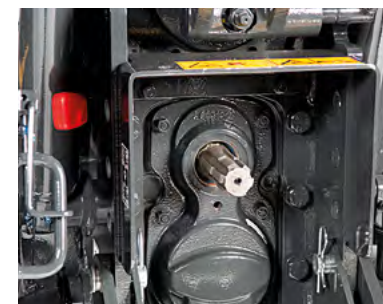


# OPTIONAL



## **FRONT LIFT**

Used together with the bullbar and 1 double-acting distributor, it allows all the frontal equipment to be used.



## **PTO**

- Gearbox with PTO 540-1000 rpm
- Gearbox with PTO 540-540S rpm



## **ELECTRONIC LIFTING**

Electronic lifting at controlled position and effort with damping for road transfer.



#### **FABRIC GRAMMER SEAT**

Air suspension with load display  
- reclining backrest - lumbar support.



#### **PNEUMATIC SEAT**

Latest generation with air springs.



#### **HEADLIGHT GRILLES**

Protecting the light assemblies, they also make  
the bodywork look more appealing.



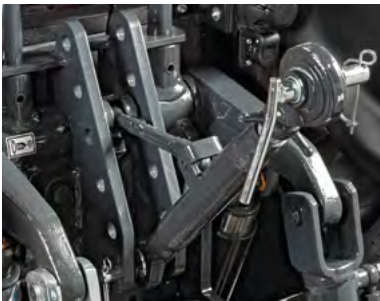
#### **BULLBAR**

Tubular steel guard protecting the  
bodywork; integrates the third-point for the  
front lift.



#### **FRONT BALLAST**

Perfectly integrated into the bodywork of  
the tractor; it does not alter the wheelbase or  
dimensions of the tractor.



#### **RAISED 3-POINT HITCH**

For a lifting geometry favourable to the  
adjustment of the implements.



#### **STEERING BRAKES**

Steering brakes have been introduced to  
further reduce the turning radius.



#### **VERTICAL TIE-ROD AND HYDRAULIC THIRD-POINT**

Optimizes the positioning and inclination  
of the equipment.



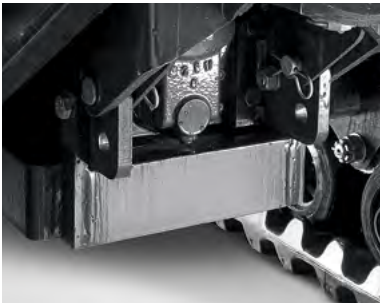
#### **HYDRAULIC SUSPENSION**

Hydraulic suspension on the UNIFLEX rear  
powerlift.



#### **ACS (Air Clean System)**

Engine cooling fan with air flow reversal.  
Reduces the need for cleaning the front grille,  
ensuring more constant engine cooling.



#### **BALANCING BALLAST**

Supplementary ballast for optimising vehicle  
balance.



#### **QUICK RELEASE FLAT FACED COUPLINGS**

Easy engagement; no oil spillage and better  
cleaning.



#### **FRONT QUICK RELEASE COUPLINGS**

Front powerlift > 6 couplings replicated on  
the rear, of which 2 with double effect + 1  
electronically adjustable continual delivery  
and 1 simple effect.



#### **HYDRAULIC SYSTEM**

Electro-proportional hydraulic system controlled by joystick with double driver safety  
system and integrated control unit with user-adjustable settings - 12 rear quick couplings.  
External lifting control.



# TECHNICAL DATA: MACH 4 TONY

|                                      |  |                         |
|--------------------------------------|--|-------------------------|
| <b>Chassis</b>                       | "ACTIO™" – Full chassis with oscillation • Articulated • Reversibility RGS™<br>• 4WD quadtrack   |                         |
| <b>Engine Type</b>                   | Diesel direct injection Common Rail with counter rotating weight system<br>Emissions Regulations: Stage 3B      N° Cylinders: 4 - 16 Valves • Turbo<br>Displacement (CC): 3769      Power kW/HP (97/68/CE): 72,1/98<br>Maximum engine revs: 2400      Torque max (Nm/revs): 330/1500<br>Cooling: Water      Tank Capacity (litres): 50                         |                         |
| <b>Transmission</b>                  | Hydrostatic continuous-variable transmission with electrohydraulic reverser • Electro-hydraulically activated 4-range selector with "SIM" (Shift In Motion) technology • Continuous speed variation from 0 to 40 kmh in both directions • "Automotive" device • Electronic Speed and RPM Control (RPM recall, Cruise Control, combined, IntelliFix, Diagnosis) |                         |
| <b>PTO</b>                           | Rear, independent and synchronized at 540/540E rpm with progressive electrohydraulic engagement  |                         |
| <b>Shaft</b>                         | Profile 1" 3/8 with 6 splines with facilitated engagement  |                         |
| <b>Drive disengagement</b>           | Electrohydraulic control on the front  |                         |
| <b>Hydraulic system</b>              | Hydraulic system with 2 independent pumps • Hydraulic flow at the spool valve of up to 45 l/min • Auxiliary rear hydraulic remotes with 2 double-acting (1 floating) and 1 single-acting distributors, plus 1 oil reflow with 6 rear hydraulic outlets + 2 double-acting with 4 electric controlled mini-outlets   |                         |
| <b>Rear hydraulic lift</b>           | Hydraulic power lift with damping<br>Lift arms with cat. 2 quick couplings width adjustable<br>Lifting capacity (Kg): 2400<br>Operating Pressure (bar): 160  |                         |
| <b>Steering</b>                      | Hydraulic with 2 pistons   |                         |
| <b>Brakes</b>                        | Hydraulic front/rear oil bath disc brakes<br>Automatic emergency and parking oil bath brakes on transmission   |                         |
| <b>Platform</b>                      | Suspended on Silent Block  |                         |
| <b>Weight</b> in order of speed (Kg) | With roll bar (Kg): 3150   | With AIR cab (Kg): 3300 |

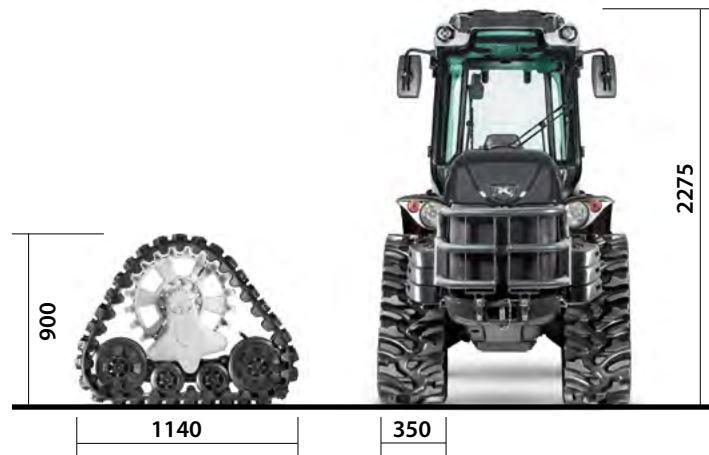
## STANDARD FEATURES

- Reversible driving position with servo-assisted reversibility
- Rear or front/rear differential lock with electrohydraulic control
- Suspended controls
- Adjustable steering wheel with reverser embedded
- Adjustable, suspension seat with safety belt with automatic retractors
- Rear safety roll bar
- Digital multifunctional dashboard with display and diagnostic function
- Engine rpm control with double memory (Cruise control)
- Battery
- Battery isolation switch
- Electrical power point
- Start inhibit switch on shuttle reverser, PTO selector and seat
- Adjustable rear work spotlight

## OPTIONAL

"AIR" cab FOPS and ROPS- certified cab • Soundproof platform with thermal insulation • Roof with rear skylight • 2 rear and 2 front work LED spotlights • Air conditioning system with cooler and heat exchanger and inner air re-circulation • Additional front/rear working LED lights • Suitable for category 4

- E-DRIVE transmission with shuttle control on steering wheel and electro-hydraulic range shift
- Hydraulic power lift with electronic draft and position control power lift with damping
- Higher 3 point linkage
- Support with six front ballast weights
- Hydraulic third hitch and vertical tie-rod
- Front power lift
- Gearbox with PTO 540-1000 rpm
- Gearbox with PTO 540-540S rpm
- Hydraulic system with hydraulic pump up to 51 liters/min
- Electro-proportional hydraulic system controlled by joystick with double driver safety system and integrated control unit with user-adjustable settings - 11 rear quick couplings - UNIFLEX hydraulic suspension on the rear power lift with control and settings on display
- Quick release couplings Cat. 1
- Pneumatic seat
- Fabric Grammer seat with air suspension and load display, reclining backrest, lumbar support
- Front bullbar
- Front lamp guards
- ACS fan with reversible air flow to clean the radiator
- "Superbrake" braking system
- Steering brakes
- Couple of pads for front tracks
- Road approval up to 40 Km/h (25 mp/h)



# 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.



### XG 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.







N° 1 SPECIAL TRACTORS

**ANTONIO CARRARO SPA**  
Via Caltana, 24  
35011 Campodarsego Padova ITALY  
[info@antoniocarraro.it](mailto:info@antoniocarraro.it)  
[antoniocarraro.it](http://antoniocarraro.it)

**DEALER:**

