

# Groundcare

## **TIGRE**



Tractor people



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## THE 15 SERIES



Groundcare

*Continuing with its research and innovation strategy, with a range of products in continual evolution, Antonio Carraro is ready to face the challenges of the future with a positive and mature ethos following as ever a path leading in a different direction.*

*This has led to the development of Groundcare, a department dedicated to the research, development and commercialisation of machines for civil maintenance in the widest sense of the word: looking after private and public green areas, roadways, cleaning urban areas, building sites, garden maintenance, nurseries, maintenance of sports grounds.*

## TIGRE: Little big friend

The Tigre is the most compact equal wheel tractor of the Antonio Carraro range. This fantastic "All rounder" was designed to satisfy a multitude of activities associated with the management of parks, gardens, sports fields, communal areas and small agricultural plots. The features that set the two models from the Series 15 (Tigre 3100 and Tigre 3200) apart are basically **reliability, comfort and safety**.

In particular the Antonio Carraro full chassis with oscillation **ACTIO™** is synonymous with an equal weight distribution, maximum grip, minimum ground compaction, first class operative comfort, a low centre of gravity and finally fantastic versatility that guarantees a rapid return on investment thanks to its low running costs.

The four wheel drive, along with ACTIO™, guarantee maximum comfort and operative safety in that they grant **constant traction and grip**.

The environmentally reliable 4 stroke diesel engine with 12 speed mechanical gearbox with 12 forward and 8 reverse speeds, offer a complete speed range in both directions, along with a substantial **saving in running costs**.

Its great versatility allows the operator to work in a variety of environments every day of the year; for this reason each owner of the Tigre will discover he has a **friend for all seasons**.



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## DESIGN: Elegance and comfort

The Tigre have a **sober yet elegant design** in the company's classic colours, red and silver. The bodywork is solid and has been reinforced by cast iron front bumpers and sheet metal mudguards. Operative comfort is guaranteed by the ample functional drive position fitted with a comfortable adjustable sprung seat.

Thanks to the collapsible roll bar, the tractor is even more compact and when coming up against obstructions and offers **exceptional usage** above all in narrow spaces. The introduction of a bigger hydraulic system grants the vehicle with fantastic agility and manoeuvrability.

## EXG: Warranty extension up to 4 years

Fruit of the high standards acquired in manufacturing quality, the Tigre tractors enjoy many advantages of the **extended warranty** that Antonio Carraro spa offers several models from its vast range. The "EXG" warranty confirms the importance of the investments undertaken by the company in recent years which has focused on developing the exceptional reliability of its products. The Tigre 3100 and the Tigre 3200 are included in the "EXG" programme.

By adhering to the "EXG" programme the purchaser has the opportunity to extend the warranty of his tractor from the standard 2 years up to a total of 4 years. At the moment of the tractor's purchase or during the first 12 months after the delivery date, the customer has the opportunity to ask for an extension of the warranty and can choose between the following two options: **EXG1** (24+12 months) or **EXG2** (24+24 months), i.e. 4 years. The "EXG" package is reliant on compulsory servicing that must be strictly followed.



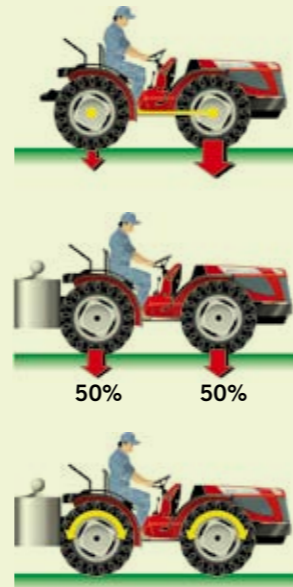
# Full Chassis with Oscillation ACTIO™: perfect balance between agility and grip

The ACTIO™ system consists of a powerful, steel section which forms an integral part of the axle, which houses both a front and rear transmission and has an oscillating joint which allows for longitudinal oscillation of a good 15 degrees.

Thanks to the ACTIO™ system, the tractor acts as a single unit, made up of two parts with the same mass and dimension which oscillate independently of each other following the contours and different gradients of the terrain, thereby maintaining constant stability and perfect grip.

Its overhanging engine is positioned on the fore-carriage: this allows the total weight of the tractor to be redistributed - 60% of its weight on the front axle and 40% on the rear one. **Ideal balance** that becomes almost perfect when rear equipment is fitted: **50% on the front and 50% on the rear.**

Furthermore, the ACTIO™ system provides for the use of **four large equal wheel drive**. In this way there is even better grip and the engine is able to ground all of its power with consequent advantages in terms of productivity and safety. **The wheels are available in a vast range of diameters and with different tyre profiles** in order to satisfy all requirements and to create optimum configuration according to the type of ground and usage.



## ADVANTAGES OF THE ACTIO SYSTEM™:

- **Perfect distribution of weight** = maximum grip, less wear and tear on tyres.
- **Central, lower drive position** = the prolonged use of the tractor is less stressful with respect to more traditional tractors; greater protection for the operator.
- **Transmission inside the chassis** = good ground clearance, lower centre of gravity; maximum stability even with transversal movement on steep slopes and in cases of loss of grip the tractor's lateral transfer avoids rollovers.
- **Doubling of the total mass of the tractor and ample lateral oscillation** = the two parts of the tractor counterbalance each other thereby maintaining maximum adherence of the tyres to the ground.
- **Possibility of being fitted with 4 large equal wheels** = better traction and more balanced weight distribution.



## Active and passive safety: A double guarantee

With the Tigre models the Antonio Carraro research has looked to take care of all the details associated with guaranteeing maximum **active and passive safety** levels by surrounding the operator with careful attention and special solutions.

First and foremost, the ACTIO™ chassis keeps the **centre of gravity particularly low** guaranteeing maximum stability even in very difficult circumstances. On very steep slopes, for example, the tractor moves laterally thus keeping the four wheels in constant contact with the ground. In addition to this there is the mechanically controlled **front and rear differential lock** which rules out the risk of dangerous sliding.

**The mechanically controlled rear brakes** guarantee gradual and accurate braking even in confined spaces. The homologated road speed is **30 Km/h (18,64 Miles/h)**.

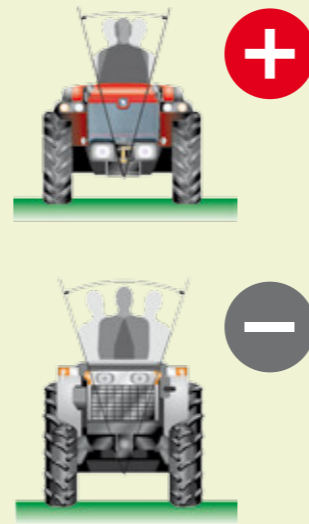


## Ergonomics and comfort: – effort + productivity

Antonio Carraro research into comfort and ergonomics has led to extremely **high standards even for the most compact models** allowing its driver to cope with hours of work every day without experiencing stress and still obtaining great results.

**Protective, comfortable and accessible**, the drive position offers a comfortable space with all of its controls in a logical sequence (control lights, tachometer, safety starter switch), as well as having its pedals and levers within easy reach. Furthermore visibility of the front of the tractor and its control board is optimal. The sprung moulded seat can be adjusted to give each operator the opportunity to personalise its setting, therefore rendering it as comfortable as possible.

The drive platform is positioned between axel, in the best position to obtain **maximum stability** even when coping with obstacles or when working on difficult or sloping ground.



## Steering wheels: comfort and manageability

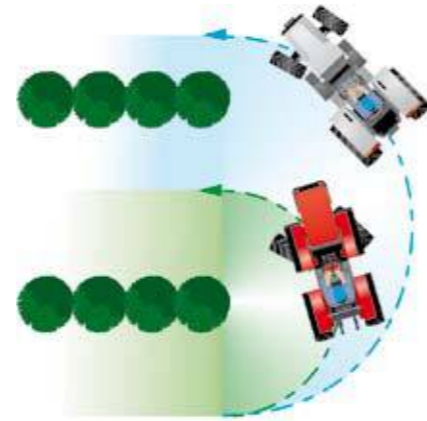
Being able to move accurately and rapidly in confined spaces is another important advantage of these compact Tigre tractors: they are fitted with **front steering wheels** that grant a reduced steering angle in all situations whilst maintaining maximum safety.

The reduced steering angle is a much and constantly appreciated feature that translates into **optimal performance in terms of working hours** and a reduction in effort for the operator. The manageability and ease of handling are guaranteed by the **gentle, sensitive and accurate hydraulic steering**. With the "Tigre" the operator can drive the tractor without difficulty thus improving the vehicle's control and active safety.

Also during road transfer and rapid changes of direction the "Tigre" operator is able to appreciate **the stability and pleasure of driving** this tractor.

### ADVANTAGES

- **Reduced turning circle** = the tractor can practically turn around on itself.
- **Short wheelbase** = manoeuvrability is further improved upon even in confined spaces.
- **Integral traction** = maximum grip even during manoeuvres in difficult situations.
- **ACTO™ Full chassis with oscillation** = perfect grip on bends even on uneven ground.



## Equipment for the Tigre: Working perfectly together

The **standard PTO is set at 540 rpm and synchronised with all the speeds of the gearbox**. The gradual engagement and optimal power yield render the task easier and more accurate as well as more productive.

The **rear hydraulic power lift has a 3 point hitch Cat.1** that guarantees its compatibility with a large number of equipment for a wide variety of uses. The lifting capacity is 850 kg and serves well for the employment of the most demanding equipment such as the cutter, forklift and blade for material movement.

The **vast range of tyres** compatible with the Tigre amplifies this tractor's versatility of use; it is a tractor that can be "made to measure" in order to satisfy all requirements.



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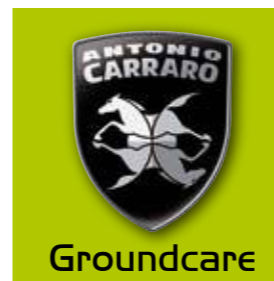
# Engines: Reliability and respect for the environment

The Tigre 3100 and the Tigre 3200 have **4 stroke diesel engines** with 2 and 3 cylinders respectively and powers of **23 and 25 hp**. The fuel tank guarantees almost a days work without need to refuel.

Each engine has been designed to reach perfect harmony with the dimensions, mechanics and specific characteristics of each model in terms of reliability and with maximum respect for the environment. Emissions are in line with the European legislation 97/68/2004/26/CE.

Special attention to their **quietness** has been paid and the company has opted for bodywork fitted with sound absorbent material for the inside of the engine compartment and antivibration rubber supports in order to reduce vibrations to the bare minimum.

Engine performance is further enhanced by the special design solutions of the bodywork. The shaped front grille and the side screens, for example, guarantee ideal **thermal exchange** even in extreme weather conditions with high temperatures. The complete vertical opening of the bonnet guarantees **complete and easy access to the engine compartment** to allow general maintenance to be carried out.



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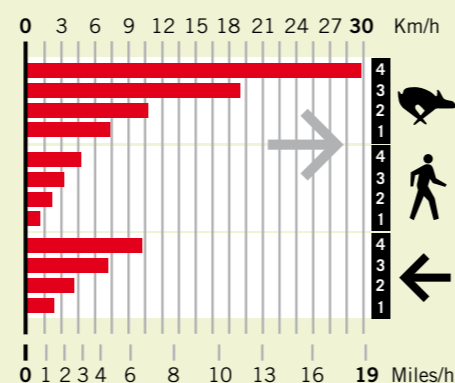
# TIGRE

	3100	3200			
<b>Chassis</b>	ACTIO™ – Full chassis with oscillation • Steerable wheels • Four equal wheel drive				
<b>Engine Type</b>	Diesel direct injection		Diesel indirect injection		
<b>Cylinders</b>	2		3		
<b>Displacement (cc)</b>	1248		1116		
<b>Output kW/HP (97/68/CE)</b>	17/23		19,2/26		
<b>Max engine rpm</b>	2400		3000		
<b>Max. torque (Nm/rpm)</b>	75/1600		67,8/2000		
<b>Cooling system</b>	Air		Water		
<b>Fuel tank capacity (l./gal)</b>	215/5,54		215/5,54		
<b>Transmission</b>	12-speed mechanical gearbox: 8 forward and 4 reverse speeds				
<b>Power take-off</b>	Standard at 540 rpm and synchronised with all gearbox speeds				
<b>Shaft:</b>	ASAE profil 1" 3/8 with 6 splines				
<b>Hydraulic power lift</b>	Rear with 3-point hitch (cat. 1)				
<b>Working pressure (bar)</b>	140				
<b>Capacity (N/kp - N/lbs)</b>	9320/950				
<b>Steering</b>	Hydraulic				
<b>Brakes</b>	Rear-axle and parking brakes				
<b>Tyres Type</b>	7.50-16	6.50-16	7.5L-15	29x12.50-15 STG	29x12.50-15 GARDEN
<b>Min. ext. width (mm/in)</b>	1155/45.4	1070/42.1	1110/43.7	1375/54.1	1375/54.1
<b>Ground clearance (mm/in)</b>	330/13.0	316/12.4	310/12.2	305/12.0	305/12.0
<b>Steerig radius ext. (mm/in)</b>	2900/114.1	2900/114.1	2900/114.1	2900/114.1	2900/114.1
<b>Weight in working trim (kg/lbs)</b>	950/2094		1000/2205		

# Gearbox: more speeds, an all directions

The Tigre are fitted with a trasmission with a **gearbox with assisted engagement** with 12 speeds, 8 forward and 4 reverse. This allows for the choice of a logical sequence of **speeds appropriate** to all types of activity, situation and terrain with maximum ease. The clutch has gentle gradual engagement in order to further reduce operator stress.

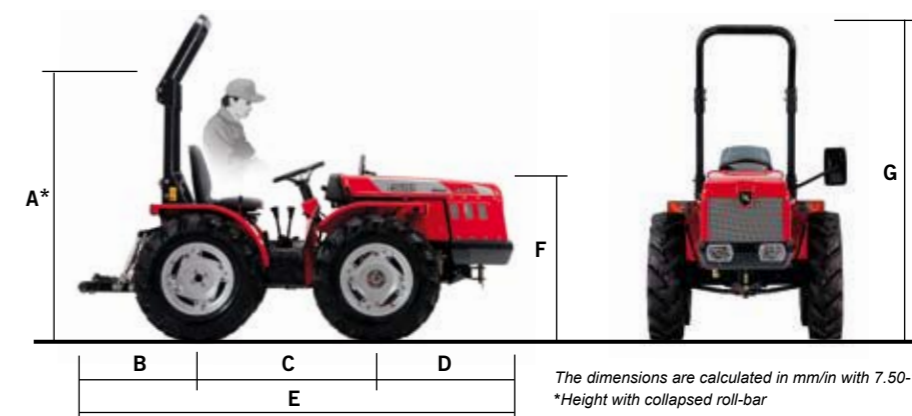
- ADVANTAGES**
- **Gearbox with assisted engagement** = life for the transmission, no locking during gear changes, less noise
  - Many speeds available = power fully exploited, greater operative continuity, lower fuel consumption and running costs.



<b>Standard equipment</b>	Front and rear independent differential lock • Adjustable, sprung seat • Safety belts • Foldable safety roll bar • Multiple-hole draw-bar • Tow hook
<b>Electrical system and instruments</b>	Horn • Lights • Power socket • Braking and turning indicators • Series of control lights • Tachometer/revolution counter • Safety starting switch
<b>Optionals</b>	Rear revolving working light • Wheel ballasts • Single acting hydraulic outlet with rear quick coupling • Mudguards widening for wide wheels

The descriptions and illustrations published herein are of a merely informative nature and are not binding and may be changed or modified without prior notice.

	Tigre 3100	Tigre 3200
<b>A*</b>	1630/64.2	1630/64.2
<b>B</b>	680/26.7	680/26.7
<b>C</b>	1100/43.7	1100/43.7
<b>D</b>	800/31.5	860/33.8
<b>E</b>	2580/101.5	2640/103.9
<b>F</b>	960/37.8	960/37.8
<b>G</b>	2010/79.1	201079.1



The dimensions are calculated in mm/in with 7.50-16 tyres  
\*Height with collapsed roll-bar



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