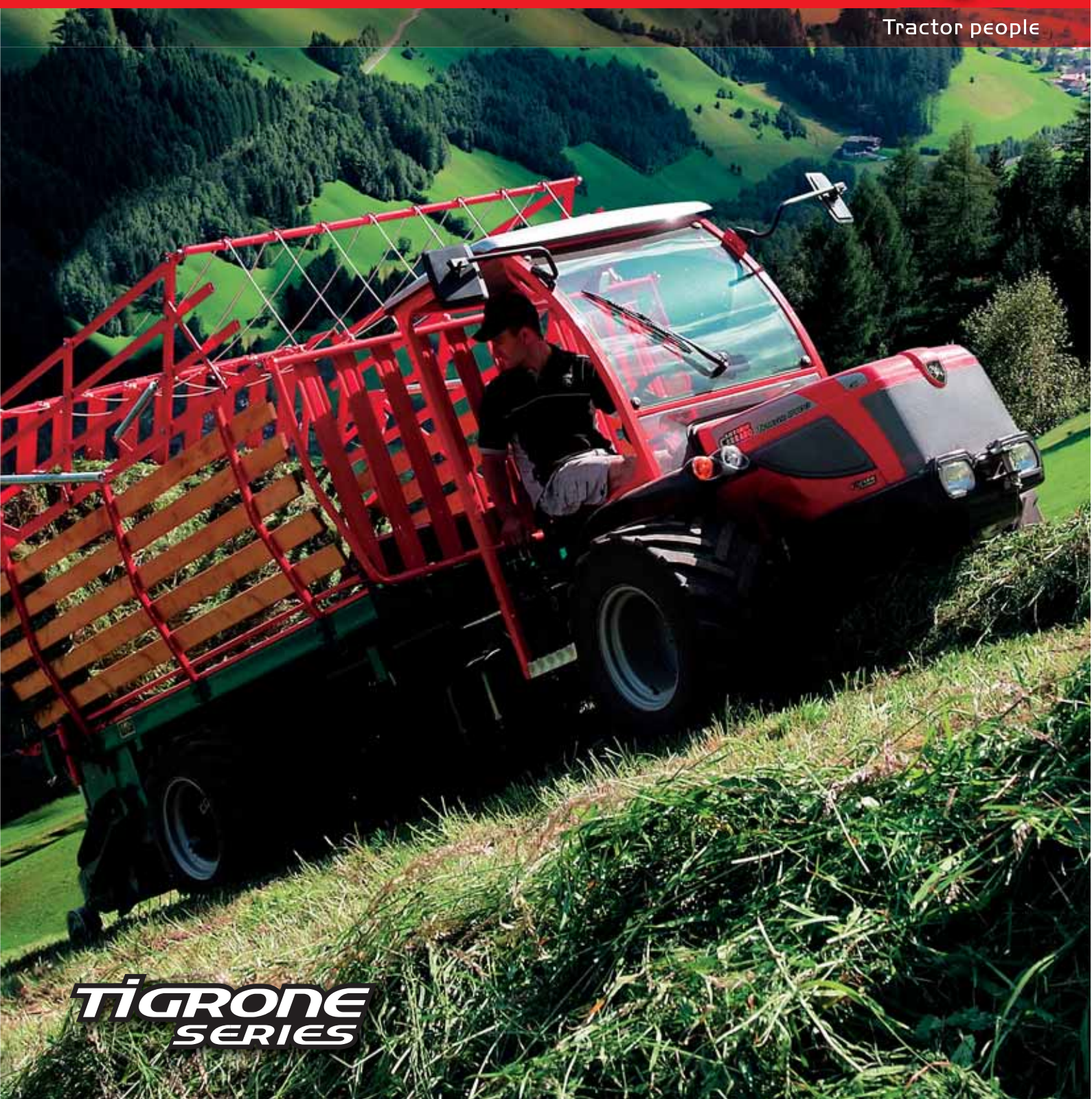


TRANSPORTER

**TIGRECAR**



Tractor people



**TIGRONE**  
SERIES



# TIGRECAR:

## Transporters for very different needs

Ergonomic and reliable, versatile and manageable, high productivity and safety: those working in agriculture and civil maintenance today have a variety of different and evolved needs. The **TigreCar transporters** from the Tigrone Series were designed with a completely new concept in order to offer the modern operator technology, functionality and comfort.

The same streamlined **design** is geared towards supporting the operator. A streamlined profile with reduced dimensions contributes greatly to vehicle manageability in difficult narrow spaces, as well as operating amongst rowed crops on hills and mountains without damaging the crops whilst optimising working time.

**Comfort and safety are guaranteed to the top degree** thanks to the drive platform, rational in terms of space and ergonomics, designed to allow the worker to work longer hours without stress.

**The reliable and ecological engines** with a choice of powers for all activities have 16 and 24 speed gearboxes with a synchronised inverter, thereby guaranteeing each operator a wide speed range in both drive directions.

**ACTIO™, the full chassis with oscillation**, is available in the “PC” (short wheelbase) or “PL” (long wheelbase) versions guarantees an **equal weight distribution** over the four wheels and thereby affords the vehicle with **extraordinary grip and stability**.

**The steering wheels**, synonymous with grip and stability, determine exceptional manageability and agility even in narrow spaces.

Such great reliability, combined with a unique ease of use and maintenance, turn the Tigrecar into a top of the range transporter!

# TRANSPORTER











## Guts and versatility make all the difference

It is plain to see that the tractors from the Tigrone Series are special: it is enough to look at their **aggressive yet harmonious design** with their curved streamlined mudguards to understand quite how manageable they are in all situations.

**The personality of these vehicles** can be seen immediately: when being driven in the most difficult situations, the operator can get a feel for its reliability, strength and agility from the maximum performance of the engine. The final reducers on the front and rear wheels guarantee the vehicle's stability.

**Six models available:** three with a long wheelbase and three with a short wheelbase. The distance between the axles provides each version with its ideal wheelbase in terms of decisive steering and minimum turning circle, even on steep slopes, without risk to the operator. The 30° steering angle allows dramatic changes in steepness to be coped with easily.

**Specialised agriculture, sports grounds and recreation fields, public green areas, building sites, nurseries, road maintenance, forestry** ... there is no limit to the possibility of use for the Tigrecar Tigrone Series: a high technological and qualitative choice made to fit all situations and all operators.







# The Tigrecar and its applications: Working perfectly together

The independent PTO (on models with 24 speeds), special to Antonio Carraro transporters, with its oil bath multidisk clutch allows for speeds of 540/1000 rpm and is ideal with specific equipment such as self-loaders, muck spreaders, crop sprayers etc. Gradual engagement and optimal power yield make for accurate and comfortable work that is also highly productive. Furthermore, **the synchronised PTO** is essential when using a second trailer with driven axle.

The Tigrone Series is the only range of tractors on the market that offers **two shafts for the PTOs** thus guaranteeing the use of a vast range of equipment and reducing the wear and tear on the shafts themselves.

**Three different devices are standard for equipment attachment**, an adjustable trailer hook, double speed PTO, hydraulic distributor for the remotes (or other lifting devices) all with safety devices, guarantee **maximum versatility of use** in a wide variety of sectors: from specialised agriculture to green area management, from industrial applications to forestry operations, all with just one compact multifunctional tractor.

## Loading capacity

The total mass is guaranteed **at 45 q. / 9920 lbs.** in fields and building yards.

## Trailer capacity

The Tigrecar has an overall trailer weight **of 60 q. / 13.200 lbs.**

## ADVANTAGES OF THE INDEPENDENT AND SYNCHRONISED PTO:

- > **Less engine load effect during engagement**
- > **Less stress to the PTO shaft**
- > **No effort required by the operator**
- > **Reduction in running costs**





# ACTIO Full Chassis with Oscillation:

## Perfect balance between grip and agility

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.



# Synchronised gearbox and inverter:

## More speeds in both directions

The new transmission on the models of the Tigrone Series offers a synchronised gearbox with 8 forward speeds and 8 reverses speeds with inverter or 12 + 12 speeds with independent PTO (optional). The clutch is a gentle ACSuper-Soft, which guarantees accurate engagement with gentle, progressive movement. This allows for the choice of a logical sequence of speeds appropriate to all types of activity, situation and terrain, with maximum ease and versatility. The maximum speed is 40 Km/h (25 Miles/h).

The **inverter** permits the movement from forward to reverse gear and vice versa. An advantage that leads to less stress and lower working times and especially useful during activities that **require frequent and repetitive changes in direction** such as when moving material or in narrow spaces.

The large **clutch** with gentle engagement further reduces operator stress. In addition there is **no need for adjustment** because the hydraulic control automatically recovers any wear due to prolonged use over time.

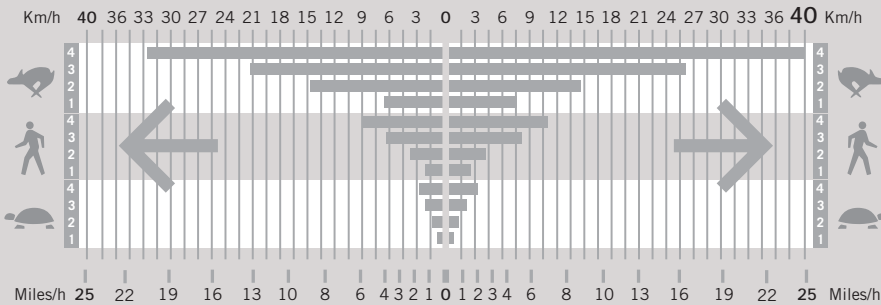


### ADVANTAGES OF THE ACTIO SYSTEM™:

- > **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.

### ADVANTAGES OF A SPECIAL TRANSMISSION:

- > **Synchronised gearbox with helical gears** = longer life for the transmission, no locking during gear changes, less noise
- > **Many speeds available** = power fully exploited, reduction in speed intervals between different gears, greater operative continuity, lower fuel consumption and running costs.
- > **Hydraulically controlled clutch** = no need for adjustment for the duration of its life.







## Active and passive safety: A Double Guarantee

With the Tigrone Series 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.

The ACTIO™ chassis keeps the **centre of gravity particularly low** guaranteeing maximum stability even in very difficult circumstances. On very steep slopes the transporter moves laterally so as to avoid rollovers.

- ADVANTAGES**
- > **Low centre of gravity** = maximum stability and anti-rollover
  - > **Curved design and roll bar** = protected drive position
  - > **Powerful brakes with no need for maintenance** = elevated factor in active safety
  - > **Road homologation** = maximum safety night and day

In addition to this there is the **hydraulically controlled rear differential lock** which rules out the risk of dangerous sliding.

**The brakes have hydraulically controlled oil bath disks** on all four wheels that do not suffer from wear and tear and do not need to be adjusted. Braking is gradual and accurate. The sealed housing guarantees the vehicle's reliability even in extreme situations due to climatic conditions or the need to cross rivers.



## Steering wheels: Incredible manageability

**It moves in narrow spaces** with extreme agility. **It repeatedly moves in and out of rowed crops** with precision and rapidity. This is another important advantage of this compact transporter from the Tigrone Series, fitted with steering wheels that allow unbeatable performance in terms of manageability.

The manageability and ease of drive are also guaranteed by the **new hydraulic steering**: sensitive and responsive in order to reduce fatigue, improve control and increase the vehicle's active safety by ensuring rapid response in the case of difficulty and unexpected problems.



### ADVANTAGES

- > **Reduced turning circle** = the transporter can carry out u-turns in confined spaces
- > **Short wheelbase** = manoeuvrability is further improved upon even in confined spaces
- > **Integral traction** = maximum grip even during rapid manoeuvres
- > **ACTIO™ Full chassis with oscillation** = perfect grip on bends even on uneven ground
- > **No operator stress** = greater productivity







## Feeling Better Working better



### ADVANTAGES

- > **Compact dimensions** = easier operation and functionality
- > **Automobile style comfort** = less fatigue even with long working hours
- > **Easy and accessible controls** = greater drivability and total control
- > **Drive position on the front axle** = perfect visibility and protection



The Tigrone Series reaches **new heights in comfort and ergonomics** 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 perfectly comfortable space with all of its controls in a logical sequence, including the pedals and levers. Furthermore optimal visibility of the front of the tractor and its control board, fitted with a **dashboard with "on-off" LED** in order to keep the situation well under control whatever the light conditions.

The drive platform is positioned directly above the front axle, in the best position to obtain **optimum stability** even when coping with obstacles or difficult ground. Furthermore: several compartments and drinks holders are situated on the driver's side to increase wellbeing during work. On the left of the driver's seat there is a large glove compartment with a soft rest that is very useful for storing the operator's things and tools.

The moulded driver's seat is comfortable and well-sprung and is situated on the suspended platform covered completely in an insulating barrier and soundproofed with Silent-Block anti-vibration devices.





# Cab: Good Health is Everything



With the use of the cab the operator can work with less stress and fatigue, which means that they can spend more time behind the wheel and increase productivity. With the cab a series of factors that are harmful to the operator are eliminated such as noise, inhalation of noxious gases, adverse weather conditions and dust. **The operator is completely isolated** in the cab and able to protect his hearing, skin and lungs whilst working in a calm and safe environment. The Tigrecar cab (optional) is completely closed: an important development in the transporter category, vehicles designed to carry out tasks involving the movement of materials, often dusty, in both fields and on building sites.

The cab has **wide access and the driving space is comfortable and spacious**. The ultra-low “coupe” profile grants the operator agile movement in confined spaces, in the presence of thick foliage or when the area demands a minimum height of 2 metres. Soundproofing is excellent, as is the operator’s visibility thanks to the structure of the uprights on which a large 360° window is fitted. The cab has a central heating system with vents for the recycling of air over the door and in addition it is fitted with a radio.

### ADVANTAGES

- > **Maximum operative comfort** = greater productivity
- > **Super-low profile** = easy disengagement in narrow spaces
- > **Protection of the operator's health** = greater pleasure at work



# Engines: The right power for every need



The models from the Tigrone Series have various engine capacities, from 48 to 62 hp; each one has been designed to reach perfect harmony with the dimensions, mechanics and specific characteristics of each tractor, all with **optimum performance** in terms of power, reliability, and maximum respect for the environment.

The engines are fitted with the most advanced injection combustion systems. They have specific powers and extremely high level torque even at low engine revolutions. Emissions are in line with European legislation 2004/26/CE.

Engine performance is further enhanced by the special design solutions of the bodywork. The shaped front grille and the side screens 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.

### ADVANTAGES

- > **Wide range of engine capacities** = optimal power for each use
- > **Reduced fuel consumption** = lower running costs and greater respect for the environment
- > **Maximum reliability** = long intervals between general maintenance interventions and greater productivity
- > **SAT and Spare Parts Service** = total assistance over time







TiGRONE  
SERIES



# TiGRECAR *PC* (Short wheelbase)



TiGRONE  
SERIES



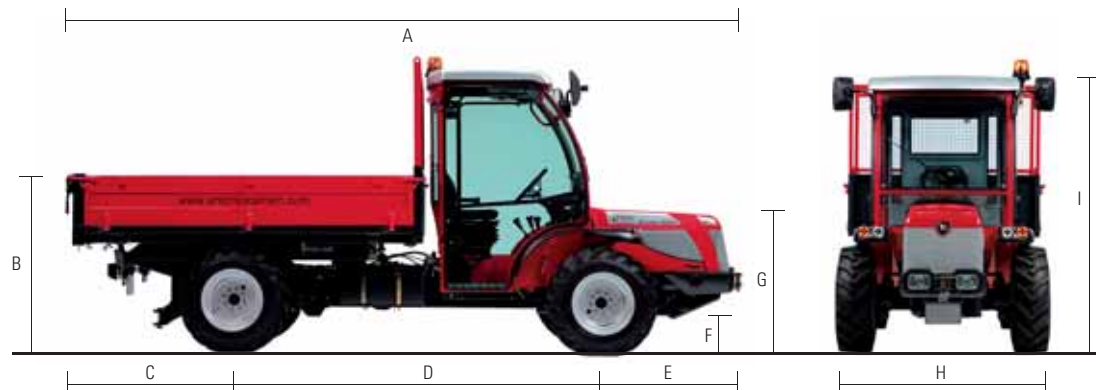
# TiGRECAR *PL* (Long wheelbase)

5500 PC				6500 PC				8400 PC			
<b>Chassis</b>				ACTIO™-Full chassis with oscillation with short wheelbase • Steering wheels • 4 equal wheel drive							
<b>Engine Type</b>				Diesel indirect injection with counter rotating weight system				Diesel indirect injection with counter rotating weight system			
Cylinders				4				4 Turbo			
Displacement (cc)				2216 2216				2082			
Output kW/HP (97/68/CE)				35/48 42/57				45/62			
Max engine rpm				2600 2600				2300			
Max. torque (Nm/rpm)				14,6/1400 19/1600				21,9/1400			
Cooling system				Water W				ater			
Fuel tank capacity (litres/gal)				48/12.7 48/12.7				48/12.7			
<b>Transmission</b>				Gear box with 16 speeds: 8 forward, 8 reverse synchronised with inverter - 40 Km/h (25 Miles/h)							
<b>Power take-off</b>				Standard speed 540 rpm and synchronised at all gear speeds							
Shaft:				Profile 1 '3/8 with 6 splines							
<b>Steering</b>				Single double rod hydraulic cylinder							
<b>Brakes</b>				Standard: Hydraulic front and rear brakes in oil bath							
				Emergency and parking: band type on transmission							
<b>Tyres</b>				10.0/75-15.3							
<b>Steerig radius ext. (mm/in)</b>				4470/176 4470/176				4470/176			
<b>Weight in working trim (kg/lbs)</b>				2150/4740 2160/4762				2160/4762			
<b>Weight full charge (kg/lbs)</b>				4500/9920 4500/9920				4500/9920			
<b>Trailer capacity (kg/lbs)</b>				6000/ 13228				6000/13228			
<b>Standard equipment</b>				Container mm 2400x1500x300 (in 94.5x59.0x11.8) complete with inclination system • Rear differential lock with hydraulic control • Hydraulic controlled drive diesngagement • Hydraulic controlled transmission clutch • Platform suspended on Silent Block • Adjustable sprung seat • Safety belts • Rear adjustable height tow hitch • Protection frame with 4 uprights with roof • Hydraulic system consisting of 1 simple acting distributor for movement of container							
				• Horn • Lighting equipment • Electric power socket and plug • Stop lights and turn signals • Centralized control board • Safety starting switch on inverter and PTO • Tachometer							
<b>Optional</b>				Heating cab • Gear box with 24 speeds: 12 forward, 12 reverse synchronised with inverter							
				• Independent PTO, with multi-plate clutch in oil bath, standard speed 540 rpm and synchronised at all gear speeds							
				• Windscreen with windscreen wiper • Flashing light							
<b>Homologation EC</b>				Agriculture: 2003/37 EC • Industrial: highway code							

5500 PL				6500 PL				8400 PL			
<b>Chassis</b>				ACTIO™-Full chassis with oscillation with long wheelbase • Steering wheels • 4 equal wheel drive							
<b>Engine Type</b>				Diesel indirect injection with counter rotating weight system				Diesel indirect injection with counter rotating weight system			
Cylinders				4 4				Turbo			
Displacement (cc)				2216 2216				2082			
Output kW/HP (97/68/CE)				35/48 42/57				45/62			
Max engine rpm				2600 2600				2300			
Max. torque (Nm/rpm)				14,6/1400 19/1600				21,9/1400			
Cooling system				Water W				ater			
Fuel tank capacity (litres/gal)				48/12.7 48/12.7				48/12.7			
<b>Transmission</b>				Gear box with 16 speeds: 8 forward, 8 reverse synchronised with inverter - 40 Km/h (25 Miles/h)							
<b>Power take-off</b>				Standard speed 540 rpm and synchronised at all gear speeds							
Shaft:				Profile 1 '3/8 with 6 splines							
<b>Steering</b>				Single double rod hydraulic cylinder							
<b>Brakes</b>				Standard: Hydraulic front and rear brakes in oil bath							
				Emergency and parking: band type on transmissiione							
<b>Tyres</b>				10.0/75-15.3							
<b>Steerig radius ext. (mm/in)</b>				4820/189.7 4820/189.7				4820/189.7			
<b>Weight in working trim (kg/lbs)</b>				2180/4806 2190/4828				2190/4828			
<b>Weight full charge (kg/lbs)</b>				4500/9920 4500/9920				4500/9920			
<b>Trailer capacity (kg/lbs)</b>				6000/ 13228				6000/13228			
<b>Standard equipment</b>				Container mm 2600x1500x300 (in 102.3x59.0x11.8) complete with inclination system • Rear differential lock with hydraulic control • Hydraulic controlled drive diesngagement • Hydraulic controlled transmission clutch • Platform suspended on Silent Block • Adjustable sprung seat • Safety belts • Rear adjustable height tow hitch • Protection frame with 4 uprights with roof • Hydraulic system consisting of 1 simple acting distributor for movement of container							
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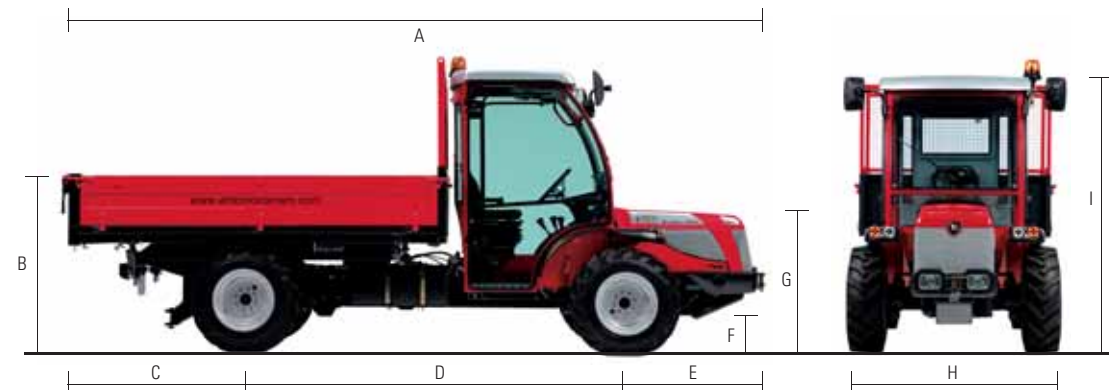
	5500 PC	6500 PC	8400 PC
A	4560/179.5	4560/179.5	4510/177.5
B	850/33.5	850/33.5	850/33.5
C	1050/41.3	1050/41.3	1050/41.3
D	2530/99.6	2530/99.6	2530/99.6
E	980/38.6	980/38.6	980/38.6
F	240/9.45	240/9.45	240/9.45
G	1055/41.5	1055/41.5	1055/41.5
H	1475/58.1	1475/58.1	1475/58.1
I	1990/78.3	1990/78.3	1990/78.3

The dimensions are calculated in mm/in with 10.0/75-15.3 tyres



	5500 PL	6500 PL	8400 PL
A	4780/188.2	4780/188.2	4780/188.2
B	850/33.5	850/33.5	850/33.5
C	1050/41.3	1050/41.3	1050/41.3
D	2750/108.2	2750/108.2	2750/108.2
E	980/38.6	980/38.6	980/38.6
F	240/9.45	240/9.45	240/9.45
G	1055/41.5	1055/41.5	1055/41.5
H	1475/58.1	1475/58.1	1475/58.1
I	1990/78.3	1990/78.3	1990/78.3

The dimensions are calculated in mm/in with 10.0/75-15.3 tyres





# TRANSPORTER

## TIGRECAR

[www.antoniocarraro.com](http://www.antoniocarraro.com)



Tractor people

## TIGRONE SERIES

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