Tabarelli SpA

For more than 50 years, with passion and dedication, Tabarelli has been building oleodynamic loaders for moving various types of materials. All our machines are designed and built to the basic characteristics of a modern, efficient loader: **speed, strength** and **reliability mean that the operator can perform his duties in top conditions**. All the phases, from project definition to the choice of components and construction, are prepared with utmost attention and using the most advanced **combination of experience and technologies**.
Powerful motors and high efficiency oleodynamic systems make for a more moderate work regime and therefore **lower maintenance costs**; constructive care and precision, stability and various straddle and equipment combinations guarantee achieving top performance.
Assistance, good **availability of spare parts**, attention to **safety** and **special requirements** are other points we have always felt to be indispensable in order to achieve and guarantee maximum functionality and efficiency of our loaders throughout time.

T510 loader: Top performance!

A new loader, without compromises, designed and built to give superior performance in the category. Speed, power, stability and a wide range of action make the T510 a loader suitable for moving waste, auto wreckage, and lightwood.
With this machine we aim at obtaining top performance combined with the power and efficiency of the motor, with electronic management of the load sensing hydraulic system. Based on usage conditions of the motor and the operator's demands, the maximum possible load is always used.
In addition to power we wanted to give this machine strength and stability as well. Counterweights in the undercarriage and generous sized ballast mean the T510 can achieve a wide range of action with excellent stability and best use of lifting capability. Since the lifting cabin has a pantograph movement and hydraulic suspension, the operator has complete visibility of the loading zone and can make the best use of machine performance.

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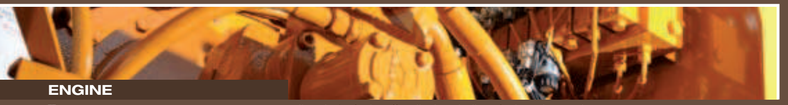
Courtesy of Crane.Market

The loader with the right compromise between strength, stability and range of action

www.tabarelli.com

Courtesy of Crane Market

TECHNICAL CHARACTERISTICS



ENGINE

Type	diesel, 4-stroke, 6 cylinders in line, turbo-charged.
Engine capacity	6,7 l
Cooling	liquid
Max power	129 kW (175 HP)
Injection	common rail, electronic management
Air filter	dry, 2-phase with pre-filter
Tank capacity	300 l
Electrical system	24 volt
Batteries	2x115 Ah
Engine revolution adjustment	continuous adjustment with graduated selector. Auto idle function controlled by sensor

HYDRAULIC SYSTEM

Main pump	axial piston and variable-displacement pump with pressure cutting and oil delivery functions depending on requirement
Max capacity	310 l/min
Max pressure	320 bar
Adjustment	Load sensing with electronic management of the absorbed power based on the engine revolution settings. All movements can be operated in parallel and without affecting each other
Heat exchanger	air-oil combined type, with by-pass valve coupled elements
Filtering	complete on return to the tank
Tank capacity	380 l
Fine Mode selector	continuous adjustment of machine performance by graduated selector

TURRET ROTATION

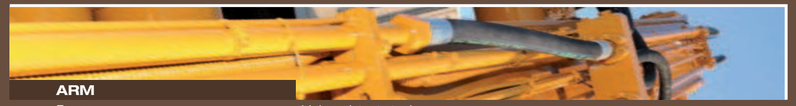
Engine	with axial pistons, load sensing distribution element and integrated protection valves
Reduction gear	epicycloidal, with 2-stage reduction
Fifth wheel	special steel, with 2 ball rings and internal hardened gear
Rotation speed	0-7 giri/min

CABIN

Operator cabin	wide and comfortable, heated, soundproofed, possibility of hydraulic pantograph lifting. Operator view of approx. 5.2 m
Seat	with suspensions, adjustable
Servo controls	
Main	armrest-integrated, with cross movement
Shift	2-lever pedal
Auxiliaries	electric-hydraulic control

UNDERCARRIAGE

Shift	axial piston and variable-displacement engine with integrated start-up and brake control valves
Gearbox	with 2 gears and electro-hydraulic control
Axles	industrial, with epicycloidal reduction gear in the hubs
Rims	8.00/20 with 10 holes
Wheels	8 super-elastic tyres 10.00/20
Brake	differential-gear integrated brake, with negative control and electro-hydraulic release from the cabin
Speed	
1st	0-5 km/h
2nd	0-15 km/h
Stabilsers	2 compass-opening stabilisers with articulated foot and chromium-plated rod protection
Shovel	front stabiliser shovel



ARM

Frame	high-resistant steel
Bushings and pins	special case-hardened steel
Cylinders	double cylinders on 1st and 2nd arm with hydraulic brake

GRAB

6-element cactus grab, 2.2 m opening radius, 1250 kg weight, with continuous hydraulic rotation in both directions

WEIGHT

approx. 26,5

UPON REQUEST

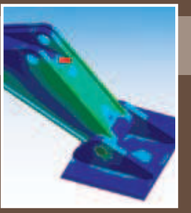
Front stabilisers, compass-opening
Cabin air-conditioning
Cabin stereo system
Double traction
Automatic greasing system for arm and turret
Magnetic lifting system

T510

STRENGTH AND RESISTANCE

Lifting strength must be balanced and supported by an adequate structure. The T510 has both these characteristics. The good sized ballast on the turret and the counterweights on the carriage give it excellent stability and make the operator's work easier, meaning that he can do loading work on wheels without having to stabilise the machine in a fixed position. The load bearing structures are designed and verified using the most modern designing instruments, as well as our experience, from CAD-3D systems to structural verifications of the finished elements and hands-on tests of the completed components.

COMFORTABLE CONTROL

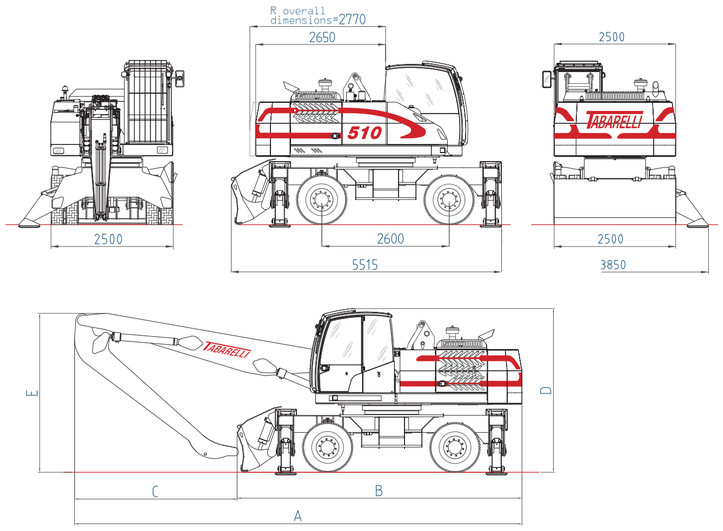


The loader must make movements that are both quick and precise in order to increase its productivity. In fact speed alone isn't enough, movements must be governed and easily controlled by the operator, with no jolts or jerks that have repercussion on comfort and stability, and picking up the load. The T510's load sensing hydraulic system with electronic load control and fine adjustment control of the various components, from the distributor, to the valves, to the servo controllers, make movements perfectly graduated and controlled from minimum to maximum speed. The "fine control" is used to enter machine response to the specific load situation. Residual oscillations are absorbed by the nitrogen-filled accumulators on the arm and on the cabin suspension system.
This gives optimum visibility thanks to the hydraulic pantograph lift and an internal habitability enriched by a comfortable adjustable seat, climate control, and instrumentation rationally arranged with additional functions for controlling movement and the raised load. A series of characteristics that guarantees full and comfortable performance control, all to the advantage of productivity and efficiency.

RELIABILITY AND MAINTENANCE

Being able to take care of maintenance in an easy, punctual way is important for the correct functioning of a machine and to protect its reliability. This is why access to the main maintenance points on the T510 has been kept as easy as possible. Furthermore, instruments display warnings of scheduled maintenance, making it easy to carry out on time.

Courtesy of Crane Market



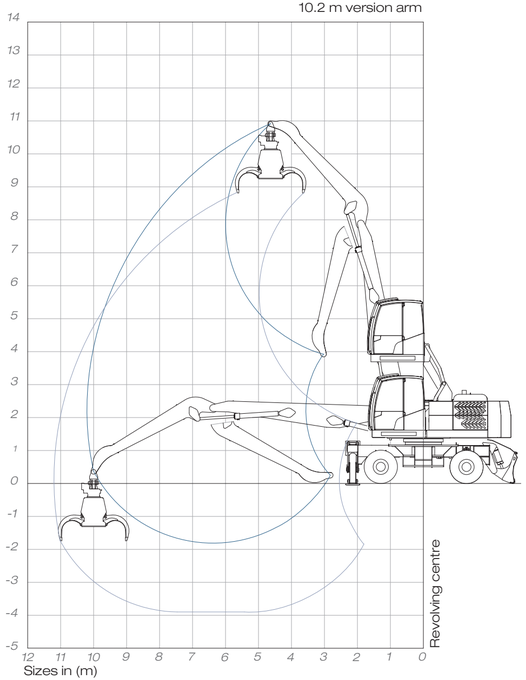
dimensions (mm)	10.2 m version			11.6 m version		
	⊓⊥	⊥⊥	⊓⊥⊥	⊓⊥	⊥⊥	⊓⊥⊥
A	9120	9160	9130	10010	10010	10010
B	5500	5040	5810	5510	5040	5710
C	3620	4120	3320	4500	4970	4200
D	3340	3340	3340	3340	3340	3340
E	3155	2780	3250	3160	3160	3160

EQUIPMENT

- ● Front shovel
- ● Rear stabilisers
- ■ Front stabilisers
- ■ Double traction
- ● Two-speed gearbox
- ● Oscillating axle with hydraulic clamp
- ● Hydro-powered steering
- ● Solid super-elastic tyres
- ■ Rubber intermediate rings
- ● Cabin hydraulic pantograph lift
- ■ Cabin vertical hydraulic lifting
- ● Cabin heating
- ■ Air-conditioning
- ■ Car radio
- ■ Automatic greasing system
- ■ Magnetic system
- ● Arm with hydraulic extension, total length from fifth wheel centre: 10.2 m
- ■ Arm with hydraulic extension, total length from fifth wheel centre: 11.6 m

● STANDARD ■ OPTIONAL

10.2 m version arm



Sizes in (m)

T510

10,2 mt

height	set-up																			
10,0	⊓⊥									5,8	5,8	5,0								
	○○									5,8	5,7	4,3								
9,0	⊓⊥									5,4	5,4	4,7	5,2	5,2	4,5					
	○○									5,4	5,4	4,4	5,2	4,6	3,4					
8,0	⊓⊥									5,3	5,3	4,6	5,0	5,0	4,3	4,8	4,8	4,2		
	○○									5,3	5,3	4,5	5,0	4,7	3,5	4,8	3,7	2,8		
7,0	⊓⊥									5,3	5,3	4,7	5,0	5,0	4,3	4,7	4,7	4,1		
	○○									5,3	5,3	4,5	5,0	4,7	3,5	4,7	3,7	2,8		
6,0	⊓⊥									5,6	5,6	4,8	5,1	5,1	4,4	4,8	4,8	4,1	4,5	4,5	3,7
	○○									5,6	5,6	4,4	5,1	4,6	3,5	4,8	3,7	2,8	4,2	3,0	2,3
5,0	⊓⊥				6,7	6,7	5,8	5,9	5,9	5,1	5,3	5,3	4,6	4,9	4,9	4,2	4,5	4,5	3,7		
	○○				6,7	6,7	5,6	5,9	5,7	4,3	5,3	4,5	3,4	4,9	3,7	2,7	4,2	3,0	2,3		
4,0	⊓⊥	9,0	9,0	7,8	7,4	7,4	6,4	6,3	6,3	5,5	5,6	5,6	4,9	5,0	5,0	4,3	4,6	4,6	3,6		
	○○	9,0	9,0	7,4	7,4	7,1	5,4	6,3	5,5	4,1	5,6	4,4	3,3	4,9	3,6	2,7	4,1	3,0	2,2		
3,0	⊓⊥	10,4	10,4	9,1	8,2	8,2	7,1	6,8	6,8	5,9	5,9	5,9	5,1	5,2	5,2	4,3	4,7	4,7	3,6	4,2	4,0	3,0
	○○	10,4	9,2	6,9	8,2	6,8	5,1	6,8	5,3	5,9	5,8	4,2	3,2	4,8	3,5	2,6	4,0	2,9	2,2	3,4	2,4	1,8
2,0	⊓⊥	11,6	11,6	10,1	8,8	8,8	7,7	7,2	7,2	6,3	6,1	6,1	5,1	5,4	5,4	4,2	4,8	4,7	3,5	4,1	4,0	3,0
	○○	11,6	8,6	6,4	8,8	6,4	4,8	7,0	5,0	3,8	5,7	4,1	3,1	4,7	3,4	2,5	4,0	2,9	2,1	3,4	2,4	1,8
1,0	⊓⊥	12,2	12,2	10,6	9,3	9,3	8,0	7,5	7,5	6,2	6,3	6,3	5,0	5,4	5,4	4,1	4,8	4,7	3,5	4,0	4,0	3,0
	○○	12,0	8,2	6,1	8,8	6,1	4,6	6,8	4,8	3,6	5,5	4,0	3,0	4,6	3,3	2,5	3,9	2,8	2,1	3,4	2,4	1,8
0,0	⊓⊥	12,1	12,1	10,6	9,4	9,4	7,8	7,6	7,6	6,0	6,4	6,4	4,9	5,4	5,4	4,1	4,7	4,6	3,5			
	○○	11,8	7,9	6,0	8,6	5,9	4,5	6,7	4,7	3,5	5,4	3,9	2,9	4,6	3,2	2,4	3,9	2,8	2,1			
-1,0	⊓⊥	11,5	11,5	10,0	9,1	9,1	7,7	7,5	7,5	6,0	6,2	6,2	4,8	5,3	5,3	4,0						
	○○	11,5	7,9	5,9	8,5	5,9	4,4	6,6	4,6	3,5	5,4	3,8	2,9	4,5	3,2	2,4						
RANGE OF ACTION		4,0			5,0			6,0			7,0			8,0			9,0			10,2		

• The values, indicated in tons, are to be considered as: at hook, with no lifting device applied; with machine idle, on a flat and horizontal surface, not soft, and with oscillating axle blocked.

Max longitudinal capacity Max capacity at 360° ISO 10567 capacity

○○ ON WHEELS ⊓⊥ SHOVEL + 2 BRACKETS ⊥⊥ 4 BRACKETS ⊓⊥⊥ 4 BRACKETS + SHOVEL

REMARK: The data and weights given herein are indicative and not binding: Tabarelli reserves the right to carry out any modification as deemed necessary.

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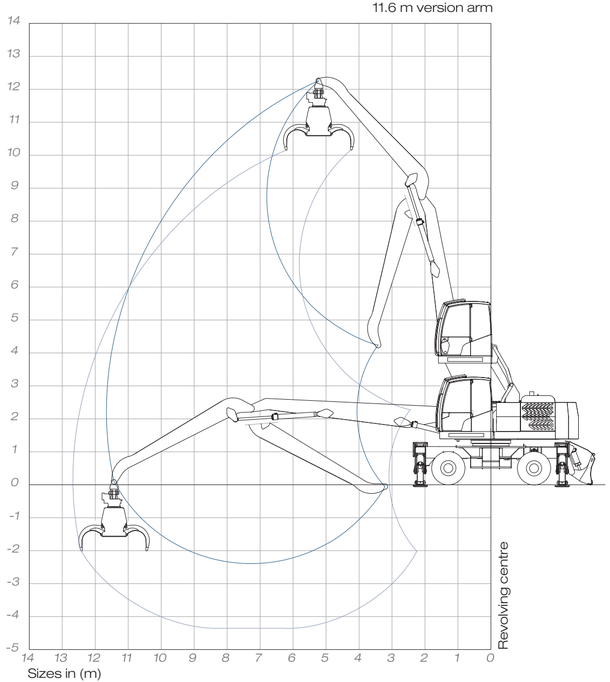
11.6 m version arm



Sizes in (m)

T510

11,6 mt

height	set-up																			
10,5	⊥⊥										4,6	4,6	4,0							
	○○										4,6	4,6	3,8							
9,0	⊥⊥													4,0	4,0	3,5				
	○○													4,0	3,6	2,7				
7,5	⊥⊥													4,0	4,0	3,5	3,7	3,7	3,2	
	○○													4,0	3,6	2,7	3,6	2,6	1,9	
6,0	⊥⊥										4,8	4,8	4,2	4,2	4,2	3,6	3,7	3,7	3,2	
	○○										4,8	4,8	3,7	4,2	3,5	2,6	3,6	2,6	1,9	
4,5	⊥⊥				6,6	6,6	5,8	5,2	5,2	4,6	4,4	4,4	3,8	3,8	3,8	3,3	3,4	3,4	2,9	
	○○				6,6	6,6	5,2	5,2	4,6	3,5	4,4	3,3	2,5	3,5	2,5	1,8	2,7	1,9	1,4	
3,0	⊥⊥				7,7	7,7	6,7	5,7	5,7	5,0	4,7	4,7	4,0	3,9	3,9	3,4	3,4	3,4	3,0	3,2	3,2	2,8
	○○				7,7	6,1	4,6	5,7	4,2	3,2	4,4	3,1	2,3	3,4	2,3	1,8	2,7	1,8	1,3	2,4	1,6	1,2
1,5	⊥⊥				8,4	8,4	7,3	6,2	6,2	5,4	4,9	4,9	4,2	4,0	4,0	3,5	3,4	3,4	2,9	3,1	3,1	2,7
	○○				8,0	5,4	4,1	5,6	3,9	2,9	4,2	2,9	2,2	3,3	2,2	1,7	2,6	1,7	1,3	2,4	1,6	1,2
0,0	⊥⊥	12,7	12,7	11,1	8,6	8,6	7,5	6,3	6,3	5,5	5,0	5,0	4,3	4,0	4,0	3,5	3,2	3,2	2,8			
	○○	12,7	8,1	6,1	7,6	5,0	3,8	5,3	3,6	2,7	4,0	2,7	2,0	3,2	2,1	1,6	2,6	1,7	1,3			
-1,5	⊥⊥				8,2	8,2	7,1	6,1	6,1	5,3	4,8	4,8	4,2	3,8	3,8	3,3						
	○○				7,4	4,9	3,7	5,2	3,5	2,6	3,9	2,6	2,0	3,1	2,1	1,6						
RANGE OF ACTION		3,5			5,0			6,5			8,0			9,5			11,0			11,6		

• The values, indicated in tons, are to be considered as: at hook, with no lifting device applied; with machine idle, on a flat and horizontal surface, not soft, and with oscillating axle blocked.

Max longitudinal capacity Max capacity at 360° ISO 10567 capacity

○○ ON WHEELS ⊓⊥ SHOVEL + 2 BRACKETS ⊥⊥ 4 BRACKETS ⊓⊥⊥ 4 BRACKETS + SHOVEL

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