



T510 WHEELED INDUSTRIAL MATERIAL HANDLER



Highest Performance

Strength and Resistance

Lifting force does not matter if it is not balanced and supported by a proper structure. The T510 has both of these features. The large ballast on the swing bearing and the counterweights on the undercarriage give it excellent stability and make it easier for the operator to carry out loading on wheels without the need to stabilize the machine in a fixed position.

Comfortable Control

To increase productivity, the material handler must perform rapid and precise movements at the same time. In fact, speed alone is not enough, the movements must be able to be controlled easily by the operator, without shocks and tears that affect the comfort, stability, and grip of the load. The hydraulic "load sensing" system of the T510 with electronic flow control and the right tuning of the various components, allow to make perfectly and progressively controlled movements, from minimum to maximum speed.

Reliability and Maintenance

The ability to perform maintenance operations in an easy and timely way is important for the proper operation of a machine and to ensure reliability. For this reason, access to major maintenance points was kept as comfortable as possible on the T510. Furthermore, the display shows the report of the scheduled maintenance timelines, semplyfling their execution in the correct time.

THE MATERIAL HANDLER THAT BOASTS THE RIGHT BALANCE BETWEEN STRENGTH, STABILITY AND RANGE OF ACTION!

More than 70 years of experience in the design and manufacture of wheeled Material Handlers for the collection and handling of ferrous scrap, metals and industrial waste are the best guarantee of a proven historical reliability.

All our material handlers have been designed and manufactured to offer you: great ease of use, low maintenance and high production performance.



PERFORMANCE → OF A HIGHER CATEGORY

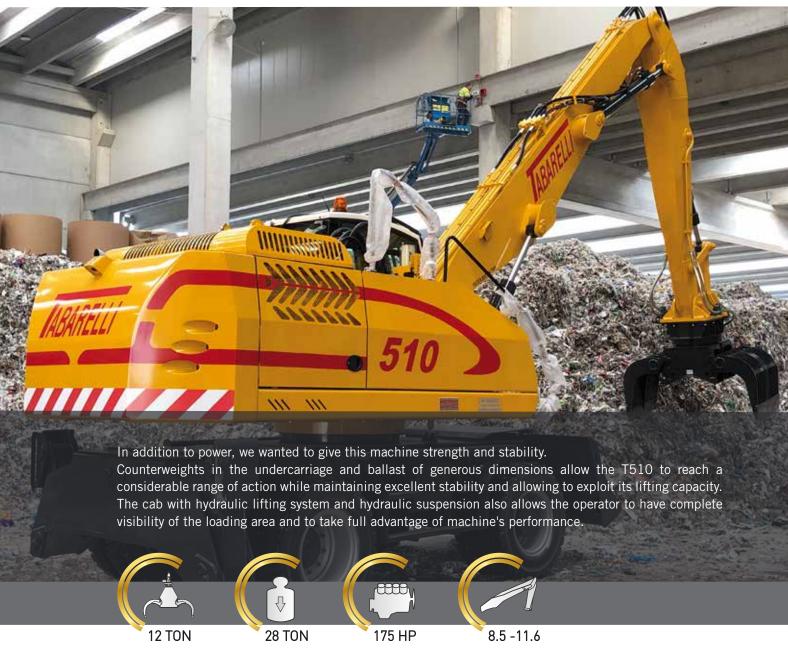
The best performance combined with Power and Efficiency

An uncompromising material handler, designed and built to deliver superior class performance. Speed, power, stability and wide range of action make the T510 a handler suitable for handling scrap, bodywork and medium sized timber.

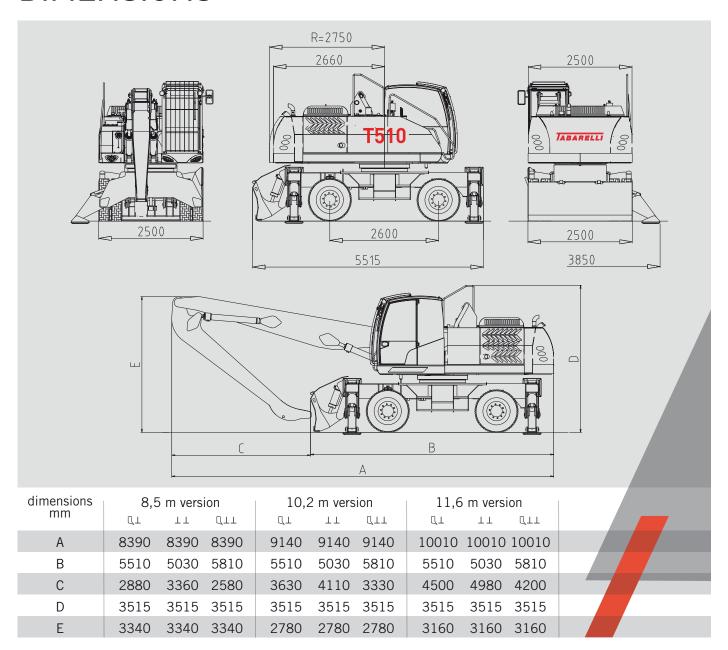
In this machine we wanted to achieve the best performance by combining the power and the efficiency of the engine with the electronic management of the hydraulic "load sensing" system.

Depending on the conditions of use of the engine and the operator's request, the maximum possible loading capacity is always delivered to the users.





DIMENSIONS



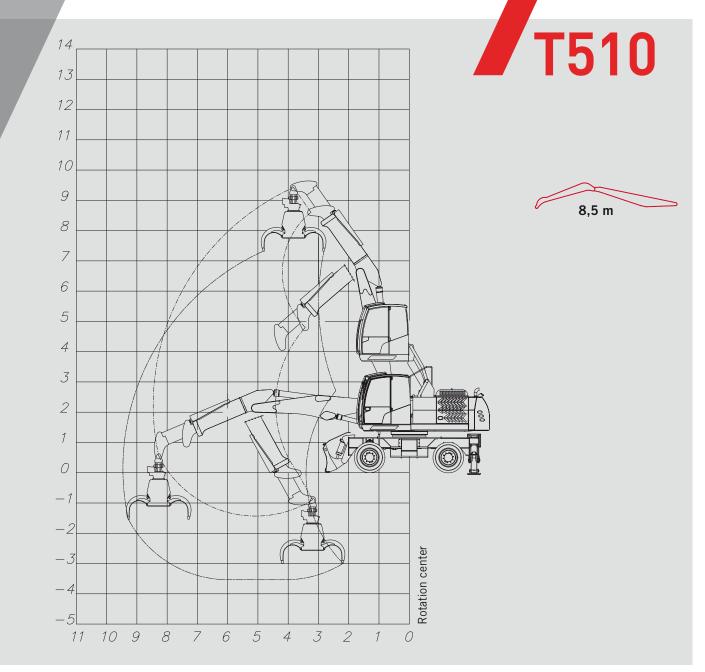
EQUIPMENT

> STANDARD

- > Car radio
- > 5 LED headlights
- > Front blade
- > Two-wheel drive
- > Two-speed gearbox
- > Steering with hydraulic or electric drive
- > Super elastic solid tires
- > Intermediate rubber rings
- > Boom with secondary monolithic boom 10.2 m
- > Lifting cab
- > Air conditioning
- > Rear outriggers

< OPTIONAL

- < Automatic Iubrication system
- < Magnetic lifting system
- < Boom with secondary boom tot. length 8.5 m
- < Boom with secondary monolithic boom tot. length 11.6 m
- Frame with 4 outriggers
- Frame with 4 outriggers + front blade

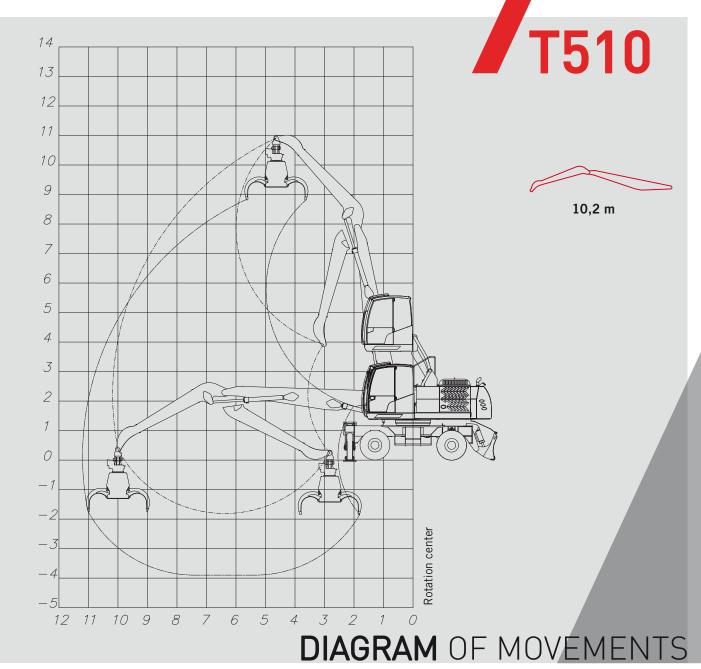


HOOK LIFTING CAPACITY

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		4,0			5,0			6,0			7,0			8,0			8,5	
9,3	7,8 7,8	7,8 7,8	6,7 6,7															
8,0	6,5 6,5	6,5 6,5	5,7 5,7	6,2 6,2	6,2 6,2	5,4 5,4												
7,0				5,9 5,9	5,9 5,9	5,1 5,1	5,7 5,7	5,7 5,7	5,0 5,0									
6,0				5,9 5,9	5,9 5,9	5,2 5,2	5,7 5,7	5,7 5,7	4,9 4,9	5,5 5,5	5,5 5,4	4,8 4,1						
5,0	6,8 6,8	6,8 6,8	6,0 6,9	6,3 6,3	6,3 6,3	5,5 5,5	5,9 5,9	5,9 5,9	5,1 5,1	5,5 5,5	5,5 5,4	4,8 4,0	5,4	4,4	3,3			
4,0				6,9 6,9	6,9 6,9	6,0 6,0	6,2 6,2	6,2 6,2	5,4 5,0	5,7 5,7	5,7 5,3	5,0 4,0	5,4 5,5	5,4 4,3	4,7 3,2			
3,0				7,7 7,7	7,7 7,7	6,7 6,3	6,7 6,7	6,7 6,5	5,8 4,9	6,0 6,0	6,0 5,2	5,2 3,9	5,5 5,6	5,5 4,3	4,8 3,2	5,3 5,3	5,3 4,1	4,6 3,0
2,0				8,6 8,6	8,6 8,2	7,5 6,1	7,2 7,2	7,2 6,4	6,2 4,8	6,3 6,3	6,3 5,2	5,4 3,9	5,6 5,6	5,6 5,6	4,8 4,8			
1,0				9,3 9.3	9,3 7.9	8,1 5.9	7,6 7,6	7,6 6,2	6,6 4,7	6,5 6,5	6,5 1,1	5,6 3,8						

The values, expressed in tonnes, are to be considered: at the hook without lifting elements applied; with the machine fixed on a flat, horizontal and stable surface, with the oscillating axle locked.

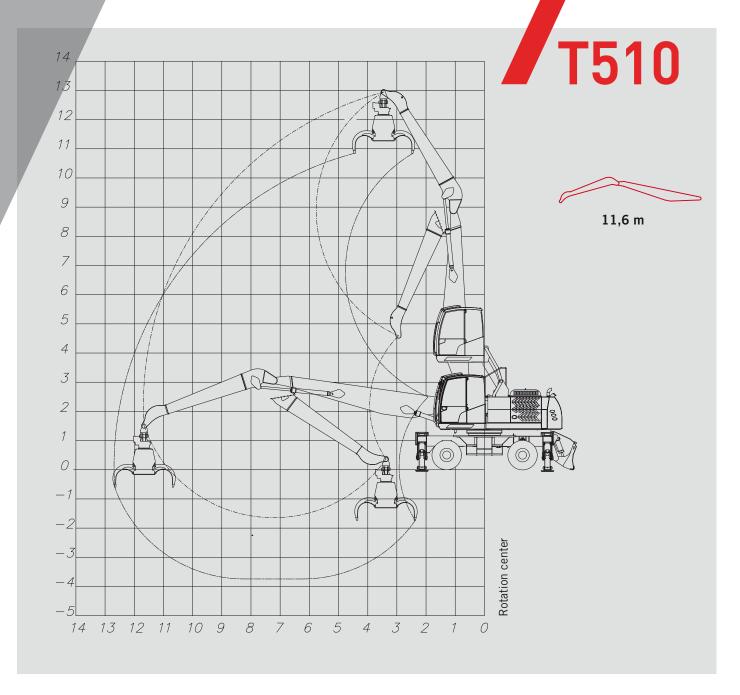
NOTE: data and weighs are indicative and not binding: Tabarelli reserves the right to make the changes it deems appropriate.



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height	gear		4,0		5,0			6,			7,0				8,0		9,0			10,2		
10,0	00							5,8 5,8	5,8 5,7	5,0 4,3												
9,0	00							5,4 5,4	5,4 5,4	4,7 4,4	5,2 5,2	5,2 4,6	4,5 3,4									
8,0	00							5,3 5,3	5,3 5,3	4,6 4,5	5,0 5,0	5,0 4,7	4,3 3,5	4,8 4,8	4,8 3,7	4,2 2,8						
7,0	О П							5,3 5,3	5,3 5,3	4,7 4,5	5,0 5,0	5,0 4,7	4,3 3,5	4,7 4,7	4,7 3,7	4,1 2,8						
6,0	00							5,6 5,6	5,6 5,6	4,8 4,4	5,1 5,1	5,1 4,6	4,4 3,5	4,8 4,8	4,8 3,7	4,1 2,8	4,5 4,2	4,5 3,0	3,7 2,3			
5,0	00				6,7 6,7	6,7 6,7	5,8 5,6	5,9 5,9	5,9 5,7	5,1 4,3	5,3 5,3	5,3 4,5	4,6 3,4	4,9 4,9	4,9 3,7	4,2 2,7	4,5 4,2	4,5 3,0	3,7 2,3			
4,0	00	9,0 9,0	9,0 9,0	7,8 7,4	7,4 7,4	7,4 7,1	6,4 5,4	6,3 6,3	6,3 5,5	5,5 4,1	5,6 5,6	5,6 4,4	4,9 3,3	5,0 4,9	5,0 3,6	4,3 2,7	4,6 4,1	4,6 3,0	3,6 2,2			
3,0	00	10,4 10,4	10,4 9,2	9,1 6,9	8,2 8,2	8,2 6,8	7,1 5,1	6,8 6,8	6,8 5,3	5,9 5,9	5,9 5,8	5,9 4,2	5,1 3,2	5,2 4,8	5,2 3,5	4,3 2,6	4,7 4,0	4,7 2,9	3,6 2,2	4,2 3,4	4,0 2,4	3,0 1,8
2,0	00	11,6 11,6	11,6 8,6	10,1	8,8 8,8	8,8 6,4	7,7 4,8	7,2 7,0	7,2 5,0	6,3 3,8	6,1 5,7	6,1 4,1	5,1 3,1	5,4 4,7	5,4 3,4	4,2 2,5	4,8 4,0	4,7 2,9	3,5 2,1	4,1 3,4	4,0 2,4	3,0 1,8
1,0	00	12,2 12,0	12,2 8,2	10,6 6,1	9,3 8,8	9,3 6,1	8,0 4,6	7,5 6,8	7,5 4,8	6,2 3,6	6,3 5,5	6,3 4,0	5,0 3,0	5,4 4,6	5,4 3,3	4,1 2,5	4,8 3,9	4,7 2,8	3,5 2,1	4,0 3,4	4,0 2,4	3,0 1,8
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The values, expressed in tonnes, are to be considered: at the hook without lifting elements applied; with the machine fixed on a flat, horizontal and stable surface, with the oscillating axle locked.

 \bigcirc ON WHEELS \bigcirc L BLADE + 2 OUTRIGGERS \bigcirc L L 4 OUTRIGGERS \bigcirc LL BLADE + 4 OUTRIGGERS NOTE: data and weighs are indicative and not binding: Tabarelli reserves the right to make the changes it deems appropriate.



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height	gear		3,5			5,0			6,5			8,0			9,5			11,0			11,6	
10,5	00							4,6 4,6	4,6 4,6	4,0 3,8												
9,0	00 T T										4,0 4,0	4,0 3,6	3,5 2,7									
7,5	00										4,0 4,0	4,0 3,6	3,5 2,7	3,7 3,6	3,7 2,6	3,2 1,9						
6,0	00							4,8 4,8	4,8 4,8	4,2 3,7	4,2 4,2	4,2 3,5	3,6 2,6	3,7 3,6	3,7 2,6	3,2 1,9						
4,5	00				6,6 6,6	6,6 6,6	5,8 5,2	5,2 5,2	5,2 4,6	4,6 3,5	4,4 4,4	4,4 3,3	3,8 2,5	3,8 3,5	3,8 2,5	3,3 1,8	3,4 2,7	3,4 1,9	2,9 1,4			
3,0	00				7,7 7,7	7,7 6,1	6,7 4,6	5,7 5,7	5,7 4,2	5,0 3,2	4,7 4,4	4,7 3,1	4,0 2,3	3,9 3,4	3,9 2,3	3,4 1,8	3,4 2,7	3,4 1,8	3,0 1,3	3,2 2,4	3,2 1,6	2,8 1,2
1,5	00				8,4 8,0	8,4 5,4	7,3 4,1	6,2 5,6	6,2 3,9	5,4 2,9	4,9 4,2	4,9 2,9	4,2 2,2	4,0 3,3	4,0 2,2	3,5 1,7	3,4 2,6	3,4 1,7	2,9 1,3	3,1 2,4	3,1 1,6	2,7 1,2
0,0	00	12,7 12,7	12,7 8,1	11,1 6,1	8,6 7,6	8,6 5,0	7,5 3,8	6,3 5,3	6,3 3,6	5,5 2,7	5,0 4,0	5,0 2,7	4,3 2,0	4,0 3,2	4,0 2,1	3,5 1,6	3,2 2,6	3,2 1,7	2,8 1,3			
-1,5	00				8,2 7,4	8,2 4,9	7,1 3,7	6,1 5,2	6,1 3,5	5,3 2,6	4,8 3,9	4,8 2,6	4,2 2,0	3,8 3,1	3,8 2,1	3,3 1,6						

The values, expressed in tonnes, are to be considered: at the hook without lifting elements applied; with the machine fixed on a flat, horizontal and stable surface, with the oscillating axle locked.

Maximum longitudinal loading capacity

Maximum range at 360°

Loading capacity ISO 10567

OO ON WHEELS

L BLADE + 2 OUTRIGGERS

L 4 OUTRIGGERS

L BLADE + 4 OUTRIGGERS

TECHNICAL SPECIFICATIONS

ENGINE VOLVO 5.1 TIER 4F series (with AdBlue)

Type 4-stroke Diesel, 6 cyclinder in-line, turbocharged

Displacement 5.1 |

Cooling water-cooled with integrated motor oil cooler

Max. power 129 kW (175 Hp)

Injection Common rail, electronic management
Air filter 2-stage dry air filter with precleaner

Tank AdBlue 25 lt
Tank capacity 300 lt
Electrical system 24 volt
Batteries 2x115 Ah

Engine speed adjustment continuous adjustment with dial. Auto Idle Function (return to idle speed

during inactivity) sensor-controlled automatic

HYDRAULIC SYSTEM

Main pump axial piston pump and variable flow rate with pressure cut off and oil supply

function according to machine needs

Max flow rate 310 l/min Max pressure 320 bar

Heat exchanger Water/air/oil with side-by-side elements with inverted flow fan controlled by a

dedicated hydraulic pump for radiant mass cooling and cleaning

Adjustment Load Sensing with electronic management of the power consumption

according to the engine speed set. All movements can be controlled

in parallel and without mutual influence

Filtration Total on return to the tank

Tank capacity 380 I

SWING DRIVE

Engine with axial pistons with Load Sensing manifold element and integrated

pressure relief valves

Gear reducer 2-stage reduction planetary gear

Slew ring in special steel, with double-row ball turning ring, internal teeth

Swing speed 0-7 rpm

OPERATOR'S CAB

Cab wide and comfortable, heated, soundproofed, **hydraulically**

liftable. Eye level up to m 5.3 above ground.

Air conditioning system with 3-speed fan and adjustable vents with dust pre-filter.

Front protective grid and 5 LED work lights

Drive Hydraulic drive with steering wheel or with electric control

Seat Comfortable, 6 different adjustements, individual weight adjustement Dashboard Wide colour display with text and graphic symbols to control the main

machine functions, alarms and data.

Main servo controls integrated in armrests with cross movement

Shift 2-levers pedal

Control auxiliary electric and electric-hydraulic control

movements

BOOM

Structure made of high-strength steel

Length from 8.5 to 11.6 meters optional

Bushings and pins made of special steel for concrete

Cylinders double cylinders on 1st and 2nd boom with hydraulic braking

Regenerative valves innovative regenerative valves for the recovery of hydraulic oil

innovative regenerative valves for the recovery of hydraulic oil during the movement phases of the cylinders. When the boom cylinders are opening, the hydraulic oil on the rod side is reused and re-inserted into the circuit, increasing the efficiency of the boom and the working speed. Thanks to these valves, it is possible to balance the speeds of both booms and make movements smoother, easing the work for the operator. With this system the hydraulic oil heating is reduced, for the benefit of the system.

UNDERCARRIAGE

Translation axial piston engine variable displacement with integrated start and

braking control valves

Axle with 2-speed electro-hydraulic control

Gear box 2-stage power shift gear with strong axles and planetary gearbox in the hubs.

Steering and oscillating front axle with hydraulic locking cylinders

Rims 8.00/20 with 10 holes

Tires no. 8 solid super-elastic tires 10.00/20

Brake parking brake

Speed

1° 0-5 km/h2° 0-15 km/h

Stabilizers N°2 rear outriggers, with 90° opening and articulated foot and

chrome-plated rod guard

Blade N°1 front blade with outrigger function, width 2.5 m

WEIGHT About 28 tonnes operating weight

SOUND LEVEL NOISE REDUCTION (Dir 2000/14/CE - 2005/88/CE)

Sound pressure level at driving position LPa 77 dB

RECOMMENDED Polyp-Grab for waste model RR650 with 5 teeth

EQUIPMENT Polyp-Grab for scrap model RV400 with 6 teeth

Polyp-Grab for scrap model RV550 with 6 teeth

MOVEMENT METER MACHINERY DIRECTIVE (Dir 2006/42/CE)

Electronic device for monitoring the stability of the machine according to

the loads moved and their position with warning of danger by acoustic and light signals,

blocking of movements whenthe stability limits are reached.





MANDAMAT

2020 Route d'Heyrieux 69360 SAINT-SYMPHORIEN-D'OZON

TEL: 04.72.76.23.93 / contact@mandamat.com

VENTE PIECES & MATERIELS TP — CARRIERES - RECYCLAGE — MANUTENTION

FOR A BETTER WORK

TABARELLI

