T510

MATERIAL HANDLER

12 TON

28 TON

175 HP

FROM 8.5 TO 11.6 M

70 YEARS OF EXPERIENCE, A DRIVING FORCE, DESIGNED FOR THE FUTURE

TABARELLI

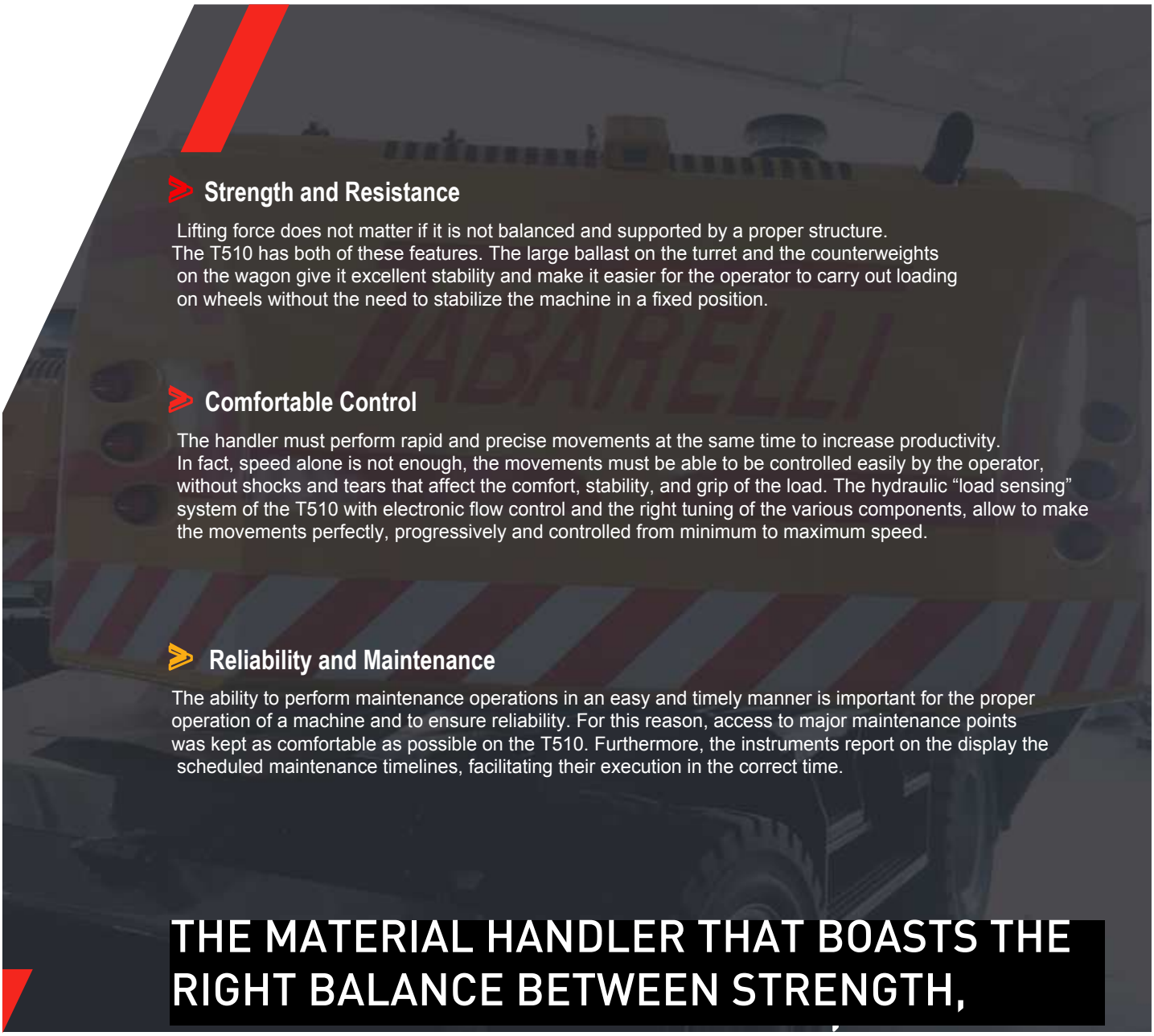
70 ANNIVERSARY YEAR 1949-2019

T510

WHEELED INDUSTRIAL MATERIAL HANDLER

Highest Performance

75 ANNIVERSARY YEAR 1949-2019



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 turret and the counterweights on the wagon 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

The handler must perform rapid and precise movements at the same time to increase productivity. 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 the movements perfectly, progressively and controlled from minimum to maximum speed.

Reliability and Maintenance

The ability to perform maintenance operations in an easy and timely manner 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 instruments report on the display the scheduled maintenance timelines, facilitating 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.

STRONG, POWERFUL, STABLE WITH →FULL VISIBILITY

In addition to power, we wanted to give this machine strength and stability. Counterweights in the undercarriage and ballast of generous dimensions allow the T510 to reach a considerable range of action while maintaining excellent stability and allowing to exploit its lifting capacity. The lift cab with scissor lift system and hydraulic suspension also allows the operator to have complete visibility of the loading area and to make the most of machine's performance.

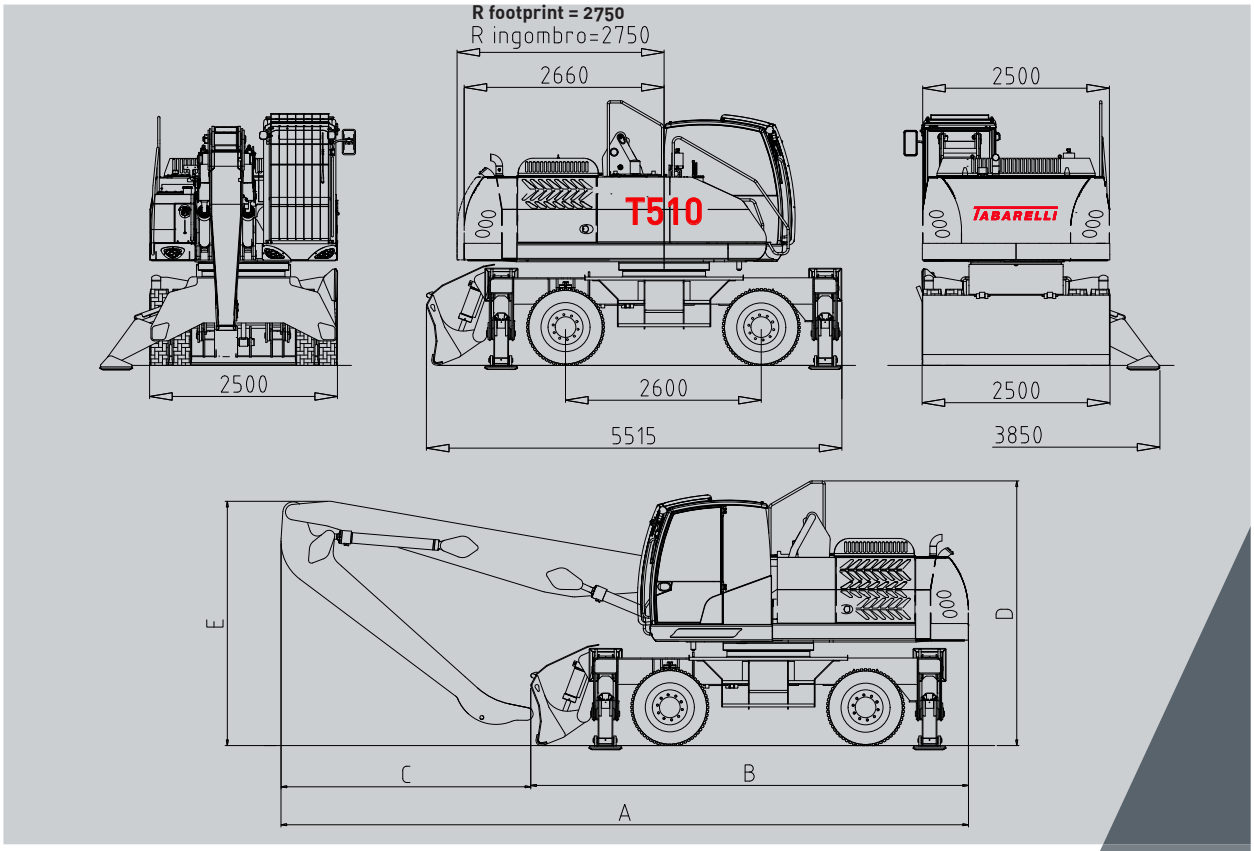
12 TONNES

28 TONNES

175 HP

FROM **8.5** TO **11.6**

DIMENSIONI



dimensions mm	version 8,5 m			version 10,2 m			version 11,6 m		
	⍁⊥	⊥⊥	⍁⊥⊥	⍁⊥	⊥⊥	⍁⊥⊥	⍁⊥	⊥⊥	⍁⊥⊥
A	8390	8390	8390	9140	9140	9140	10010	10010	10010
B	5510	5030	5810	5510	5030	5810	5510	5030	5810
C	2880	3360	2580	3630	4110	3330	4500	4980	4200
D	3515	3515	3515	3515	3515	3515	3515	3515	3515
E	3340	3340	3340	2780	2780	2780	3160	3160	3160

EQUIPMENT

> STANDARD

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

< OPTIONAL

- < Automated lubrication system
- < Magnetic lifting system
- < Boom with hydraulic extension; length 8.5 m
- < Boom with secondary monolithic boom tot. length 11.6 m
- < Frame with 4 stabilizers
- < Frame with 4 stabilizers + front blade

T510

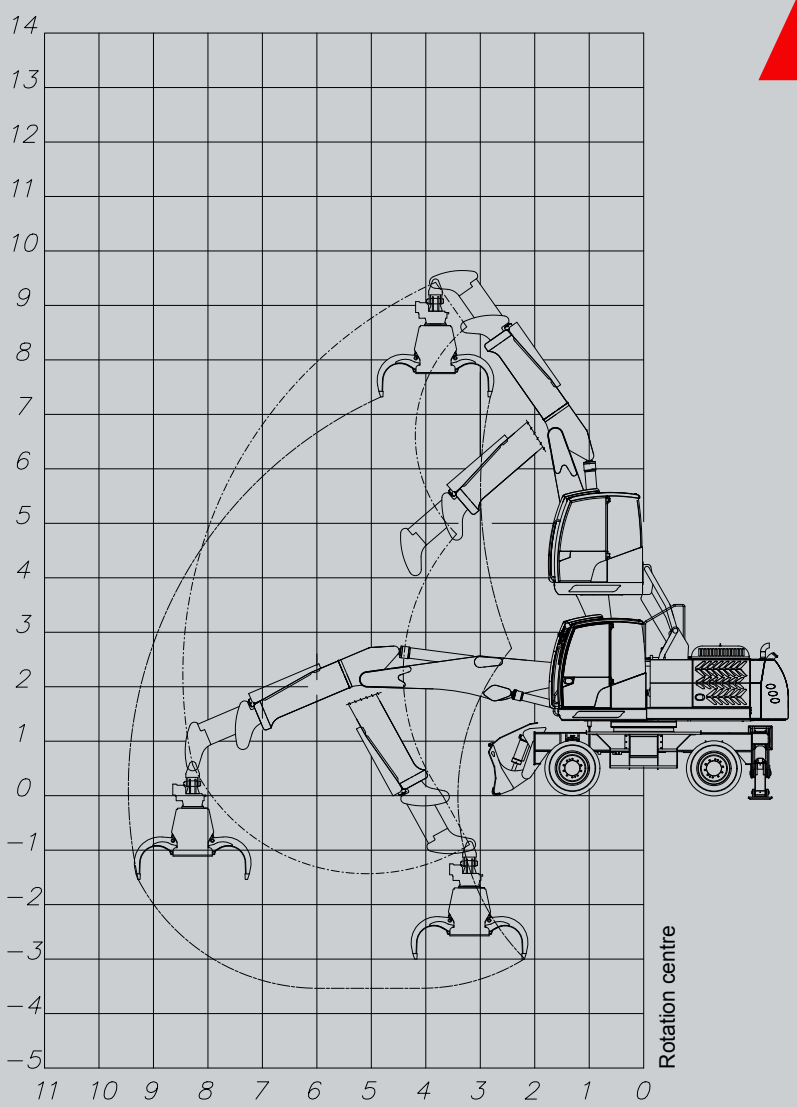


TABLE OF LOADING CAPACITY AT HOOK

		4,0			5,0			6,0			7,0			8,0			8,5		
9,3	⊥⊥	7,8	7,8	6,7															
	○○	7,8	7,8	6,7															
8,0	⊥⊥	6,5	6,5	5,7	6,2	6,2	5,4												
	○○	6,5	6,5	5,7	6,2	6,2	5,4												
7,0	⊥⊥				5,9	5,9	5,1	5,7	5,7	5,0									
	○○				5,9	5,9	5,1	5,7	5,7	5,0									
6,0	⊥⊥				5,9	5,9	5,2	5,7	5,7	4,9	5,5	5,5	4,8						
	○○				5,9	5,9	5,2	5,7	5,7	4,9	5,5	5,4	4,1						
5,0	⊥⊥	6,8	6,8	6,0	6,3	6,3	5,5	5,9	5,9	5,1	5,5	5,5	4,8						
	○○	6,8	6,8	6,9	6,3	6,3	5,5	5,9	5,9	5,1	5,5	5,4	4,0	5,4	4,4	3,3			
4,0	⊥⊥				6,9	6,9	6,0	6,2	6,2	5,4	5,7	5,7	5,0	5,4	5,4	4,7			
	○○				6,9	6,9	6,0	6,2	6,2	5,0	5,7	5,3	4,0	5,5	4,3	3,2			
3,0	⊥⊥				7,7	7,7	6,7	6,7	6,7	5,8	6,0	6,0	5,2	5,5	5,5	4,8	5,3	5,3	4,6
	○○				7,7	7,7	6,3	6,7	6,5	4,9	6,0	5,2	3,9	5,6	4,3	3,2	5,3	4,1	3,0
2,0	⊥⊥				8,6	8,6	7,5	7,2	7,2	6,2	6,3	6,3	5,4	5,6	5,6	4,8			
	○○				8,6	8,2	6,1	7,2	6,4	4,8	6,3	5,2	3,9	5,6	5,6	4,8			
1,0	⊥⊥				9,3	9,3	8,1	7,6	7,6	6,6	6,5	6,5	5,6						
	○○				9,3	7,9	5,9	7,6	6,2	4,7	6,5	1,1	3,8						

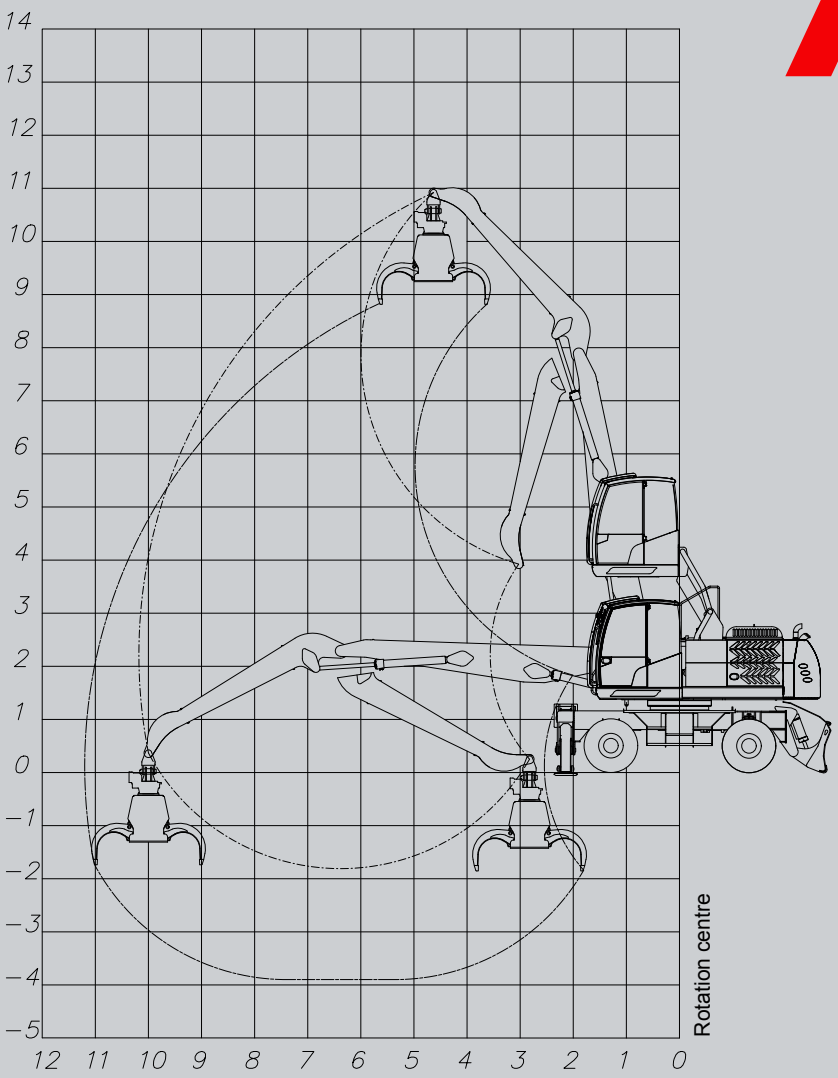
The values, expressed in tonnes, are to be considered: at the hook without lifting elements applied; with the machine fixed on a flat, horizontal and stable surface, with the oscillating axle locked.

Maximum longitudinal loading capacity Maximum loading capacity at 360° Loading capacity ISO 10567

○○ ON WHEELS ⊥⊥ BLADE +2 BRACKETS ⊥⊥ 4 BRACKETS ⊥⊥⊥ BLADE +4 BRACKETS AND

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

T510



10,2 m

DIAGRAM OF MOVEMENTS

height	gear	4,0			5,0			6,0			7,0			8,0			9,0			10,2		
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						

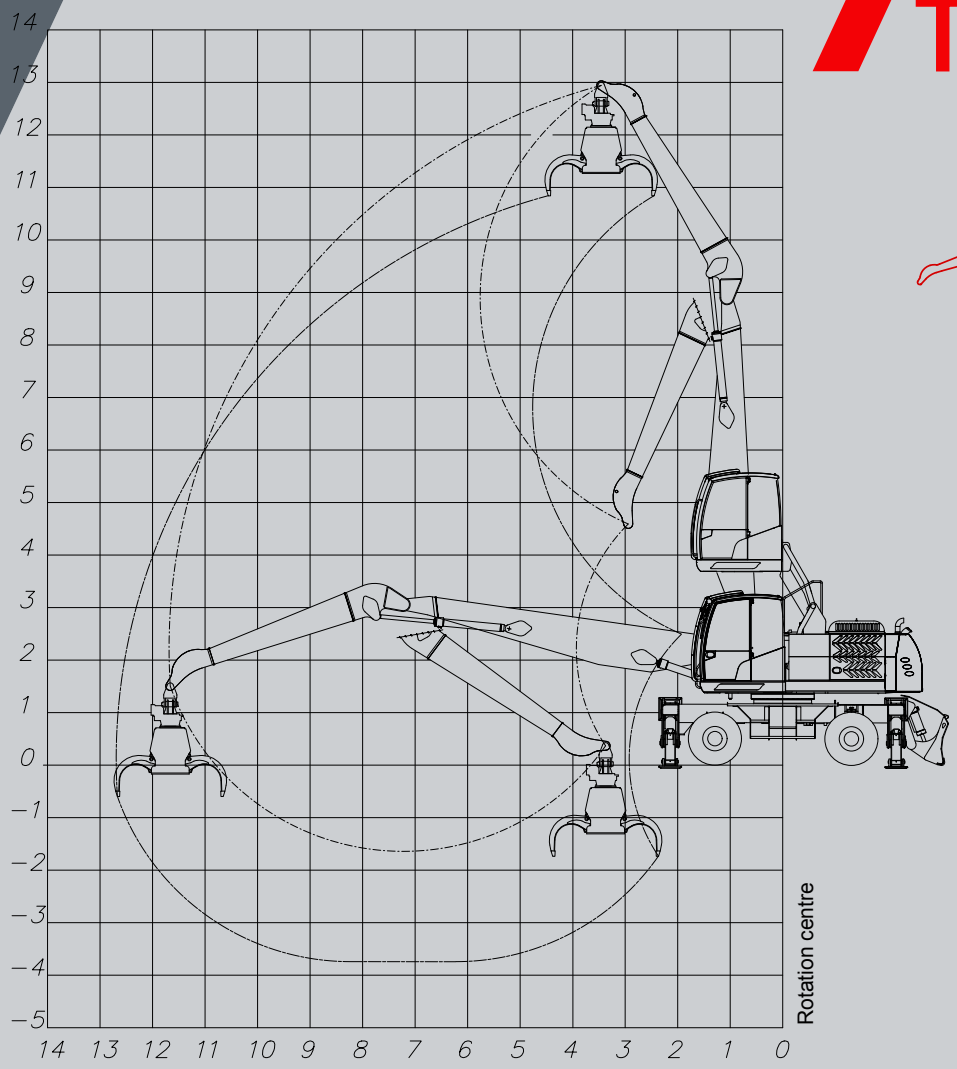
The values, expressed in tonnes, are to be considered: at the hook without lifting elements applied; with the machine fixed on a flat, horizontal and stable surface, with the oscillating axle locked.

Maximum longitudinal loading capacity Maximum loading capacity at 360° Loading capacity ISO 10567

○○ ON WHEELS ⊔⊥ BLADE +2 BRACKETS ⊥⊥ 4 BRACKETS ⊔⊥⊥ BLADE +4 BRACKETS AND

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

T510



11,6 m

height	gear	3,5			5,0			6,5			8,0			9,5			11,0			11,6		
10,5	⊥⊥ ○○							4,6 4,6	4,6 4,6	4,0 3,8												
9,0	⊥⊥ ○○										4,0 4,0	4,0 3,6	3,5 2,7									
7,5	⊥⊥ ○○										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	⊥⊥ ○○							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	⊥⊥ ○○				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	⊥⊥ ○○				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	⊥⊥ ○○				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	⊥⊥ ○○	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	⊥⊥ ○○				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 loading capacity at 360° Loading capacity ISO 10567

○○ ON WHEELS ⊥ BLADE +2 BRACKETS ⊥⊥ 4 BRACKETS ⊥⊥⊥ BLADE +4 BRACKETS AND

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

TECHNICAL SPECIFICATIONS

ENGINE	**VOLVO 5.1 series TIER 4F or TIER 5**
Type	Diesel 4-stroke, inline 4-cylinder, turbocharged
Displacement	5.1 litres
Cooling Max. power	with liquid 129 kW (175 HP)
Injection	common rail, electronic management
Air filter Heat exchanger	2-stage dry with cyclone pre-filter Water/air/oil with side-by-side elements with **inverted flow fan** controlled by a dedicated hydraulic pump for cooling and cleaning of radiant masses
Tank ADBLUE Tank capacity Electrical system	25 l 300 l 24 volt
Batteries	2x115 Ah
Engine speed adjustment	continuous adjustment with dial. Auto Idle function (return to idle speed during inactivity) controlled by sensor

HYDRAULIC SYSTEM	
Main pump	axial piston pump and variable flow rate with pressure cut off and oil supply function as required
Max flow rate	310 Liters/min
Max pressure	320 Bar
Adjustment	Load Sensing with electronic management of the power consumption according to the engine speed set. All movements can be carried out in parallel and without mutual influence
Filtration	total on return to tank
Tank capacity	380 Litres

TURRET ROTATION	
Engine	with axial pistons with Load Sensing manifold element and integrated pressure relief valves
Gear reducer	2-stage reduction planetary gear
Fifth wheel Rotation speed	in special steel with 2 ball revolutions with internal tempered teeth 0-7 rpm

CAB	
Operator's cab	wide and comfortable, heated, soundproofed, **hydraulically liftable with scissor lift movement. Operator visual range 5.3 m** **Air conditioning** system with 3-speed fan and adjustable vents **with dust pre-filter** **Front protective grille and 5 LED work lights push-button electric**
Drive	**system on servo control or steering with hydraulic drive**
Seat	Comfortable with 6 adjustments with adjustable suspension according to weight
Dashboard	Wide colour display with text and graphic symbols to control the main machine functions, alarms and data
Main servo controls Shift control Auxiliary movements	integrated in the armrests with cross pedal movement with 2 levers electric and electric-hydraulic control

BOOM	
Structure	made of high-strength steel
Length Bushings and pins	**from 8.5 to 11.6 meters optional** made of special steel for concrete
Cylinders	double cylinders on the 1st boom and 2nd boom with hydraulic braking
Regenerative valves	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, facilitating 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 and variable flow rate with integrated start and braking control valves
Axle	with 2-speed electro-hydraulic control
Gearb ox	Two-wheel drive with large industrial axles and planetary gearbox in the hubs. Steering and oscillating front axle with hydraulic locking cylinders 8.00/20 with 10 holes no. 8 solid super-elastic wheels 10.00/20
Wheel Rims	disc parking
Brake	0-5 km/h
Speed	0-15 km/h
1^	**2 rear stabilisers** with 90° opening and articulated foot and chrome-plated rod
2^	guard
Stabilizers	**1 front blade with stabilizer function, width 2.5 m**
Blade	**about 28 tonnes in working order**
SOUND	**NOISE REDUCTION** (Dir 2000/14/CE - 2005/88/CE) Sound pressure level at driving position LPa 77 dB (A)
LEVEL WEIGHT	Spider bucket for scrap model **RR650** with 5 blades Spider bucket for scrap model **RV400** with 6 blades Spider bucket for scrap model **RV550** with 6 blades
RECOMMENDED EQUIPMENT	**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 when the stability limits are reached.
MOVEMENT METER	

The manufacturer reserves the right to make changes to the products or their specifications.

→T510

OFFICINA MECCANICA F.LLI TABARELLI S.P.A.

VIA CARLO ALBERTO DALLA CHIESA, 2

37060 - MOZZECANE (VR) - ITALY

TEL. +39 045 7930007 FAX +39 045 7930214

INFO@TABARELLI.COM WWW.TABARELLI.COM

FOR A BETTER WORK

TABARELLI

70 ANNIVERSARY YEAR 1949-2019

Mandamat
2020 route d'Heyrieux
69360 SAINT SYMPHORIEN D'OZON
Tel :+33(0)4.72.76.23.93

www.mandamat.com

gasweb.it