

T916

MATERIAL HANDLER



18 TON



44-46 TON



265 HP



14,5-16 M

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

TABARELLI



ANNIVERSARY
YEAR
1949 - 2019





T916

WHEELED INDUSTRIAL MATERIAL HANDLER

Maximum Power





> High Performance

The T916 is a complete material handler in all respects: the sturdy base structures, designed and tested with the help of the most modern drawing tools, are widely sized to withstand heavier stresses while ensuring maximum reliability. Mechanical components, from 12-column axles to reinforced gear and all components, are also selected on the basis of our long experience.

> Power and Efficiency

The performance of the T916 is the result of multiple factors acting together to give more productivity and efficiency: engine, pumps, manifold and cylinders must work at all times as a single tool available to the operator, to perform the required manoeuvres as quickly and accurately as possible.

To achieve this, we have perfected the response of electronic engine and pump controls, control valves and cylinder response adjustment.

> Scheduled maintenance

The ability to carry out maintenance operations in the expected manner and time is essential for maintaining the best performance of a machine and, therefore, for its performance.

On T916, this is made easier by reporting on the display of upcoming expiration operations and easy access to major maintenance points.

A SILENT, POWERFUL AND TIRELESS MATERIAL HANDLER!

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**.



MAXIMUM PERFORMANCE → WITHOUT COMPROMISE

An extremely powerful and stable material handler

An extremely powerful and stable material handler, designed and built to give maximum performance, without compromise. Operating range, stability, performance and complete set-up make this material handler a machine suitable for the heaviest jobs under the toughest conditions.

Powerful motor with “common rail” injection and modular “load sensing” hydraulic system with dual pump with electronic power management, allow for achieving excellent performance and smooth and simultaneous movements even at average working speed. This results in economic operation, reduced wear and tear of mechanical parts and lower noise emitted.



SUITABLE FOR HEAVY DUTY APPLICATIONS UNDER → THE TOUGHEST CONDITIONS



The lifting system and hydraulic suspension also allows the operator to have optimum visibility of the loading area and to make the most of machine's performance. The oscillations are absorbed by the nitrogen charged accumulators on the boom and cab suspension system. The internal equipment also allows you to control the functions of the machine in the most convenient way for the operator: seat with wide adjustments, air conditioning, instruments logically arranged and equipped with additional functions for control of movements and the raised load.



18 TON



44-46 TON

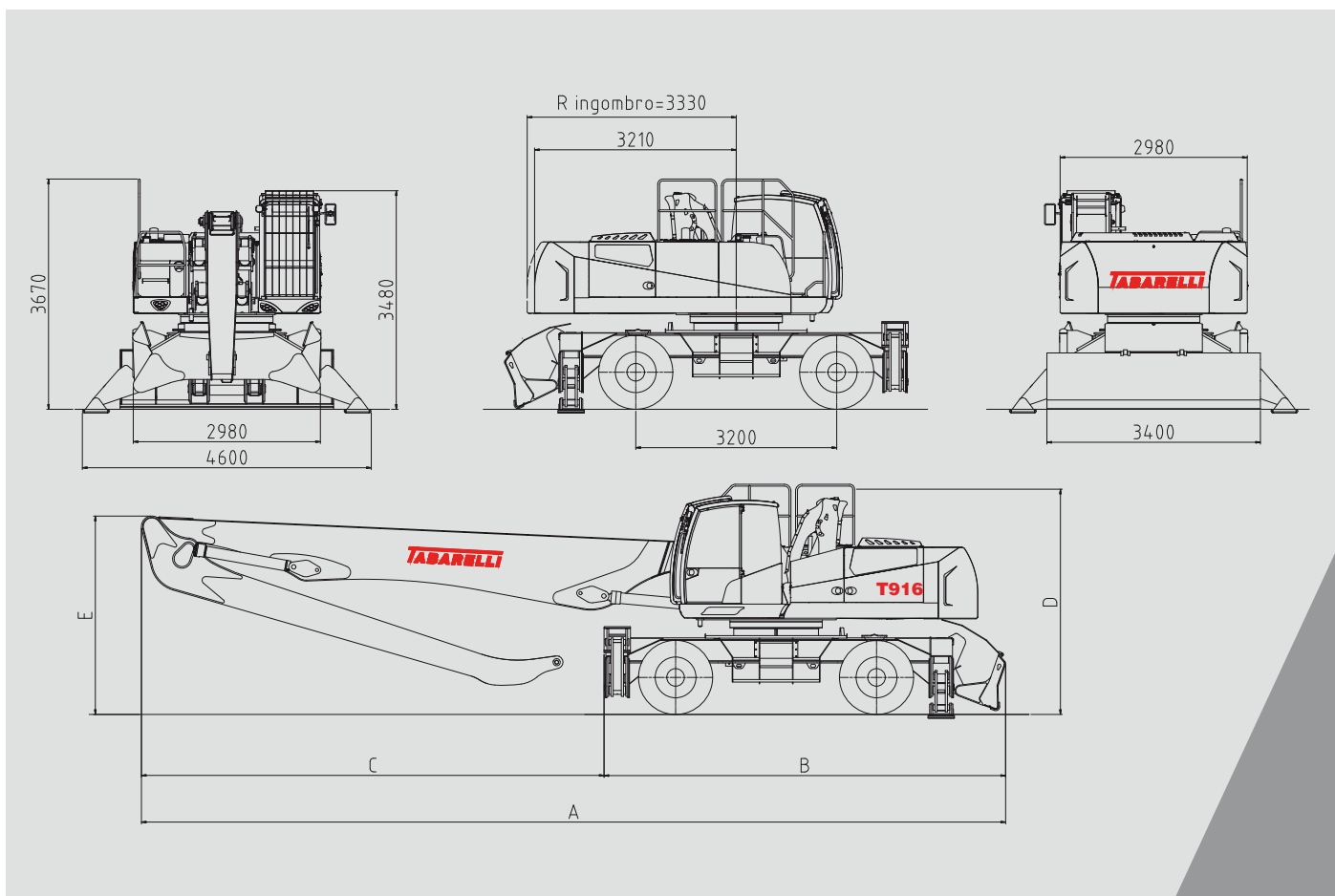


265 HP



14,5-16 M

DIMENSIONS



dimensions mm	14,5 m version	16 m version
A	12730	13730
B	6380	6380
C	6350	7350
D	3670	3670
E	3100	3150

EQUIPMENT

> STANDARD

















- > Rear outriggers
- > Front outriggers
- > Two-wheel drive
- > Two-speed gearbox
- > Oscillating axle with hydraulic locking system
- > Steering with hydraulic drive or electric drive
- > Super elastic solid tires
- > Lifting cab
- > Heated cabin
- > Air conditioning
- > Car radio
- > Boom with secondary monolithic boom tot. length 14,5 m from the centre of the slewing bearing

< OPTIONAL

- < Front blade
- < Automatic lubrication system
- < Magnetic lifting system
- < FlyCab cab lifting system
- < Boom with secondary monolithic boom tot. length 16 m from the centre of the slewing bearing

14,5 m



																			
height	gear	4,0			6,0			8,0			10,0			12,0			14,5		
14,0								8,0	8,0	7,0									
12,0								7,6	7,6	6,6	6,6	6,6	5,7						
10,0								7,5	7,5	6,5	6,5	6,5	5,7	5,8	5,8	5,0			
8,0								7,5	7,5	6,5	6,5	6,5	5,1	5,5	4,9	3,7			
6,0								7,8	7,8	6,8	6,6	6,6	5,8	5,7	5,7	5,0			
4,0					10,7	10,7	9,3	8,3	8,3	7,2	6,9	6,9	6,0	5,8	5,8	5,1			
2,0		19,2	19,2	16,7	12,0	12,0	10,5	8,9	8,9	7,8	7,1	7,1	6,2	5,9	5,9	5,1	4,5	4,5	3,9
0,0		20,8	19,0	14,3	12,0	12,0	9,4	8,9	8,4	6,3	6,9	6,1	4,6	5,3	4,6	3,5	3,9	3,4	2,6
-2,0		18,4	18,4	16,0	12,7	12,7	11,1	9,3	9,3	8,1	7,2	7,2	6,2	5,7	5,7	4,9			
		18,4	18,1	13,6	12,2	10,5	7,9	8,4	7,3	5,5	6,3	5,5	4,1	4,9	4,3	3,2			

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



















T916

16 m




Rotation center

DIAGRAM OF MOVEMENTS

HOOK LIFTING CAPACITY

																									
height	gear	4,0			6,0			8,0			10,0			12,0			14,0			16,0					
16,0								7,3	7,3	6,3															
								7,3	7,0	5,3															
14,0											5,9	5,9	5,1												
											5,9	5,1	3,8												
12,0											5,8	5,8	5,0	5,1	5,1	4,4									
											5,8	5,2	3,9	5,1	3,7	2,8									
10,0											5,8	5,8	5,0	5,0	5,0	4,4	4,4	4,4	3,9						
											5,8	5,2	3,9	5,0	3,7	2,8	3,9	2,7	2,0						
8,0								7,2	7,2	6,2	6,0	6,0	5,2	5,1	5,1	4,5	4,5	4,5	3,9						
								7,2	7,2	5,4	6,0	5,0	3,7	5,1	3,6	2,7	3,9	2,7	2,0						
6,0					10,0	10,0	8,7	7,7	7,7	6,7	6,2	6,2	5,4	5,2	5,2	4,5	4,5	4,5	3,9						
					10,0	10,0	7,7	7,7	6,6	5,0	6,2	4,7	3,5	4,9	3,5	2,6	3,8	2,6	1,9						
4,0		18,2	18,2	15,8	11,2	11,2	9,7	8,2	8,2	7,1	6,5	6,5	5,6	5,3	5,3	4,6	4,5	4,5	3,9						
		18,2	15,0	11,3	11,2	8,8	6,6	8,2	6,0	4,5	6,2	4,3	3,2	4,7	3,2	2,4	3,7	2,5	1,9						
2,0		18,8	18,8	16,4	11,9	11,9	10,3	8,5	8,5	7,4	6,6	6,6	5,7	5,4	5,4	4,7	4,4	4,4	3,8	3,5	3,5	3,1			
		18,8	11,9	8,9	11,4	7,5	5,6	7,8	5,3	4,0	5,8	3,9	2,9	4,5	3,0	2,3	3,6	2,3	1,8	2,9	1,9	1,4			
0,0		16,1	16,1	14,0	11,5	11,5	10,0	8,4	8,4	7,3	6,5	6,5	5,7	5,2	5,2	4,6	4,2	4,2	3,7						
		16,1	11,2	8,4	10,5	6,8	5,1	7,3	4,8	3,6	5,5	3,6	2,7	4,3	2,8	2,1	3,5	2,2	1,7						
-2,0					10,2	10,2	8,8	7,8	7,8	6,8	6,1	6,1	5,3	4,9	4,9	4,2	3,8	3,8	3,3						
					10,2	6,5	4,9	7,0	4,5	3,4	5,3	3,4	2,6	4,2	2,7	2,0	3,4	2,2	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

 ON WHEELS  BLADE +2 OUTRIGGERS  4 OUTRIGGERS  BLADE +4 OUTRIGGERS

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



TECHNICAL SPECIFICATIONS

ENGINE Cummins QSB6.7 TIER 5 Series (with AdBlue)

Type	4-stroke Diesel, 6 cylinder in-line, turbocharged
Displacement	6.7 l
Cooling	Water-cooled with integrated motor oil cooler
Max. power	195 kW (265 HP)
Injection	Common rail, electronic management
Air filter	2-stage dry with with precleaner
Tank capacity	300 l
Electrical system	24 volt
Batteries	2x115 Ah
AdBlue Tank	80 l
Engine speed adjustment	continuous adjustment with dial. Auto Idle Function (return to idle speed during inactivity) sensor-controlled automatic

HYDRAULIC SYSTEM

Main pump	Double axial piston pump and variable flow rate with pressure cut off and oil supply function as required
Max flow rate	560 l/min
Max pressure	320 Bar
Adjustment	Load Sensing manifold with electronic management of the power consumption according to the engine speed set. All movements can be controlled in parallel and without mutual influence
Heat exchanger	large surface, water/air/oil radiator with side-by-side elements with inverted flow fan controlled by a dedicated hydraulic pump for cooling and cleaning of radiant masses
Filtration	total on return to the tank
Tank capacity	600 l

SWING DRIVE

Engine	with axial pistons with load sensing manifold element and integrated pressure relief valves
Gear reducer	3-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 5.8 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	Comfortable, 6 adjustments with weight adjustable suspension
Seat	Wide colour display with text and graphic symbols to control the main machine functions, alarms and data. Additional functions: CE-compliant moment limiter
Dashboard	integrated in armrests with cross movement
Main servo controls	2-levers pedal
Shift	electric and electric-hydraulic control
Control auxiliary movements	

BOOM

Structure	made of high-strength steel
Length	from 14,5 to 16 meters optional
Bushings and pins	made of special steel for concrete
Cylinders	double cylinders on 1st and 2nd arm 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 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, with 12 columns loading capacity 70 tonnes/axle and planetary gearbox in the hubs. Steering and oscillating front axle with hydraulic locking cylinders
Rims	8.5/24 with 12 holes
Wheels	no. 8 solid super-elastic wheels 12.00/20
Brake	parking brake
Speed	
1^	0-5 km/h
2^	0-15 km/h
Outriggers	2 rear outriggers and 2 front outriggers with 90° opening and articulated foot and chrome plated rod guard
Blade	Optional front blade with outrigger function width 3.4 m

WEIGHT About 44-46 tonnes operating weight

RECOMMENDED EQUIPMENT Polyp-Grab for scrap model RV600 with 6 teeth
Reinforced Polyp-Grab for scrap model RV601 with 6 teeth

SOUND LEVEL NOISE REDUCTION (Dir 2000/14/CE - 2005/88/CE)
Sound pressure level at driving position L_{Pa} 77 dB

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 when the stability limits are reached.

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



MANDAMAT

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