T916

MATERIAL HANDLER

18 TON

47-50 TON

284 HP

15,5-17,5 M

75 YEARS OF EXPERIENCE,
A DRIVING FORCE,
PROJECTED INTO THE FUTURE

TABARELLI

1949
2024

T916

INDUSTRIAL MATERIAL HANDLER ON WHEELS

Maximum Power

> Top Performance

The T916 material handler is the complete package. Its robust structure is designed and tested using state-of-the-art design software and is built to withstand heavy loads and intense stress while providing maximum reliability.
All mechanical components, from the 12-stud axles to the reinforced slewing ring, are selected based on our extensive experience.

> Power and Efficiency

The T916's performance is the result of multiple factors working together to deliver greater productivity and efficiency. The engine, pumps, distributing element, and cylinders must function as a single unit at all times to enable the operator to perform the required manoeuvres quickly and accurately.
This was achieved by fine-tuning the response of the engine and pump's electronic controls, the adjustment of the control valves, and the response of the cylinders.

> Scheduled Maintenance

To optimize a machine's performance, maintenance operations must be carried out as planned and scheduled. The T916 material handler's scheduled maintenance is made easier by the display indicating upcoming maintenance deadlines and the easy access to key service points.

A SILENT, POWERFUL AND UNFLAGGING MATERIAL HANDLER!

With over **75 years of experience** designing and manufacturing wheeled **Material handlers** for picking up and handling scrap iron, metals, and industrial waste, we have a proven track record of reliability.

All our material handlers are designed and manufactured to ensure:
great ease of use, low maintenance, and **high production efficiency**.

TOP PERFORMANCE
>WITHOUT COMPROMISE

An extremely Powerful and Stable material handler

An extremely powerful and stable material handler that is designed and manufactured to deliver top-class performance without compromise. Its working range, stability, and performance, as well as its comprehensive set-up, make this material handler suitable for the heaviest work in the most demanding conditions.
The powerful engine with "common rail" injection and a modular "load-sensing" hydraulic system comprising a double pump and electronic power management enables excellent performance and smooth, simultaneous movements, even at medium working speeds. This improves operating economy and reduces wear on mechanical components and noise emissions.

Quick kit for routine engine maintenance

New scissor-type cab lifting system

SUITABLE FOR THE HEAVIEST JOBS AND THE MOST >DEMANDING CONDITIONS

The scissor-type cab lifting system and hydraulic suspension also allow the operator to have excellent visibility of the loading area and maximise the machine's performance. The oscillations are absorbed by the nitrogen-charged accumulators on the boom and cab suspension system. The internal equipment allows the operator to control the machine's functions comfortably. This includes a wide-adjustment seat, air conditioning, and rationally arranged instrumentation with additional functions for controlling movements and lifted loads.

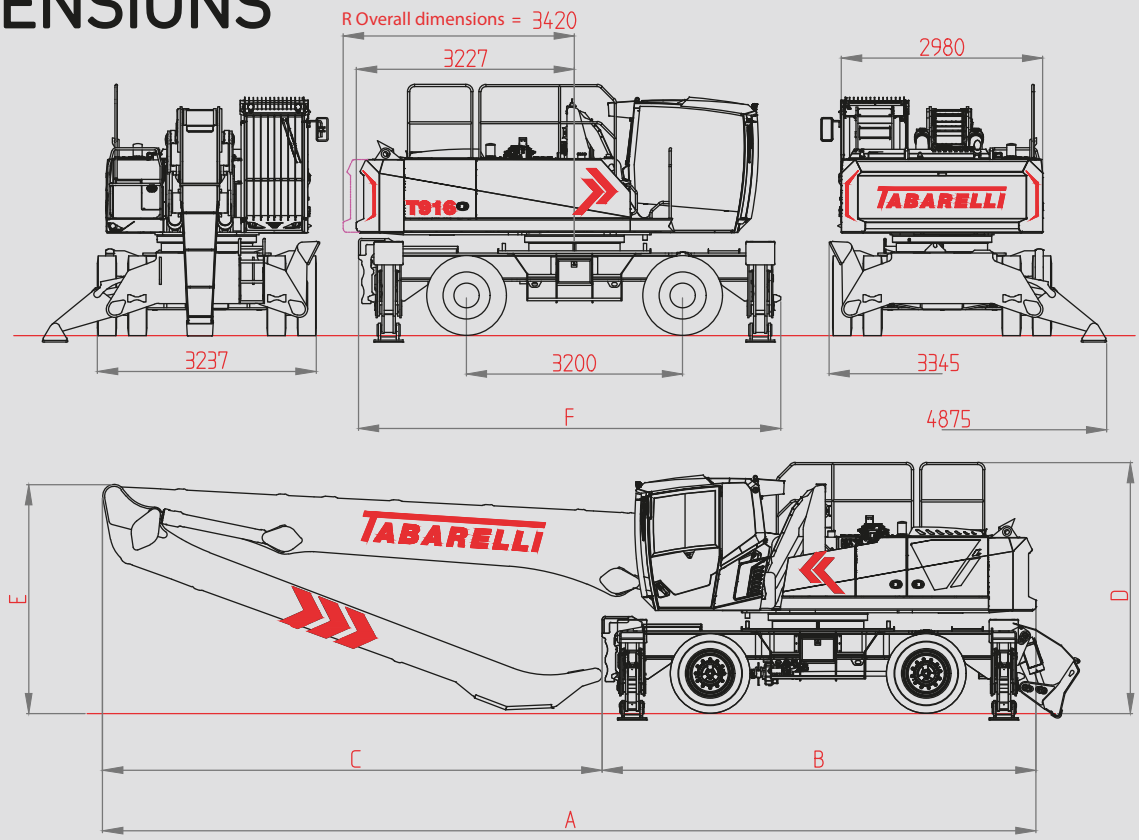
18 TON

47-50 TON

284 HP

15,5-17,5 M

DIMENSIONS



dimensions mm	17,5 m version ⊥⊥	17,5 m version ⍀⊥⊥
A	13815	14455
B	6420	7065
C	7395	7390
D	3720	3720
E	3390	3480
F	6250	7065

⍀⊥ = BLADE + 2 OUTRIGGERS
⊥⊥ = 4 OUTRIGGERS
⍀⊥⊥ = BLADE + 4 OUTRIGGERS

> STANDARD EQUIPMENT

- > Rear outriggers
- > Front outriggers
- > All-speed drive
- > 2-speed gearbox
- > Oscillating axle with hydraulic locking system
- > Electric or hydraulic steering system
- > Super-elastic solid tyres
- > Scissor-type cab lifting system
- > Air conditioning with forced recirculation
- > In-cab heating
- > Bluetooth hands-free car stereo
- > 5 LED working lights
- > Total boom length 16.5 m from the centre of the slewing ring. Range of action with equipment 17.5 m
- > Automated greasing system
- > Remote support
- > Scheduled maintenance with timetable

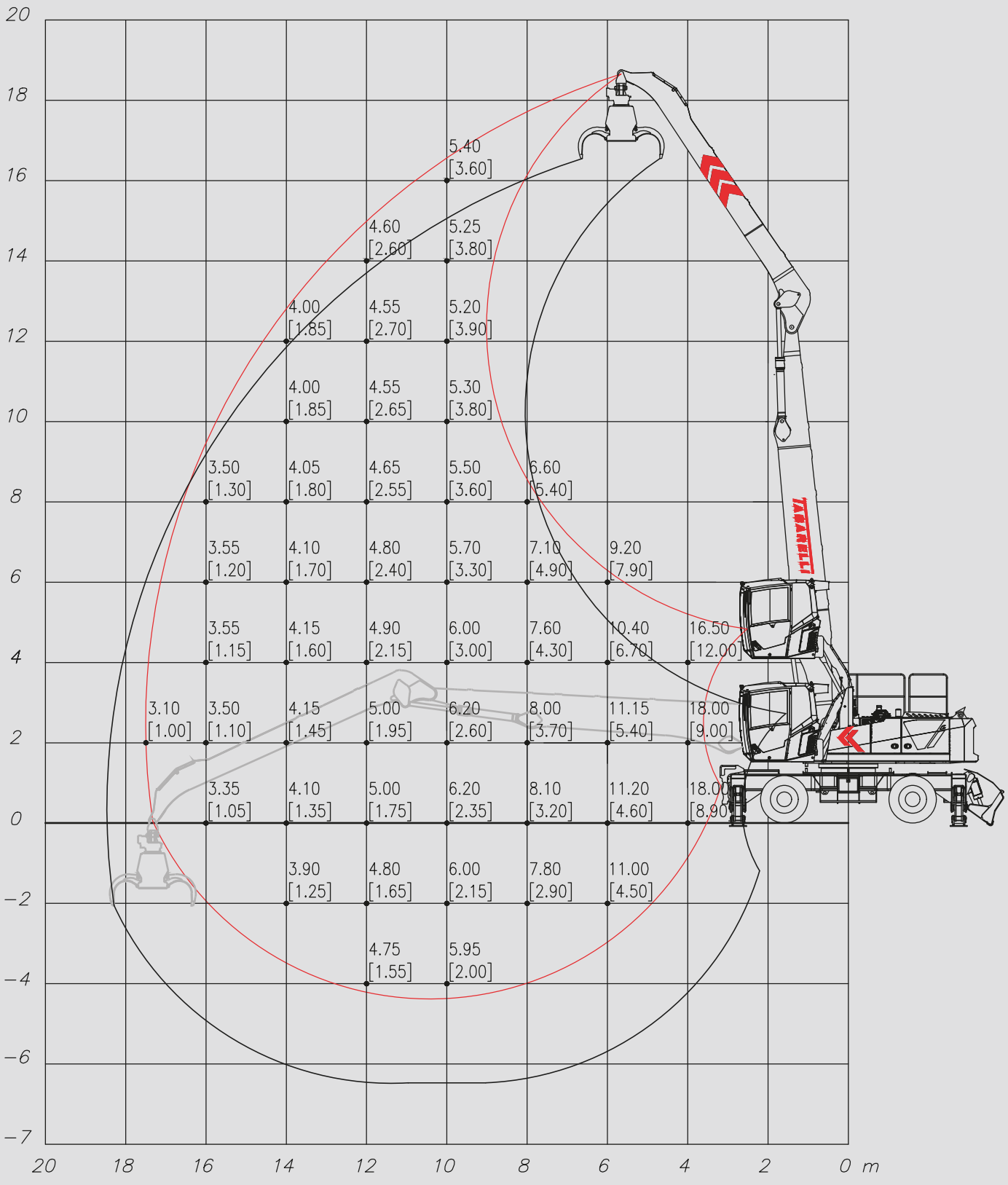
< OPTIONAL EQUIPMENT

- < Chassis equipped with 4 outriggers + front blade
- < Magnetic lifting system
- < Elevating cab with FlyCab system Op view 6 m
- < LED lights on half boom
- < Rear and/or side camera
- < Pneumatic seat
- < Weighing system
- < Central greasing of the carriage
- < Total boom length 15.5 m from the centre of the slewing ring.Range of action with equipment 16.5 m
- < Total boom length 17.5 m from the centre of the slewing ring. Range of action with equipment 18.5 m

BOOM MOVEMENT DIAGRAM **17,5 M**

T916

17,5 m



The lifting capacities are given in tons and apply to the end of the half-boom (excluding accessories). The load capacity on wheels at 360° is indicated by the value in square brackets. The other value indicates the load capacity when the outriggers are lowered and can be rotated through 360°.
These values correspond to 75% of the tipping load or 87% of the hydraulic lifting force, in accordance with ISO 10567.

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

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TECHNICAL SPECIFICATIONS

ENGINE

Model	**Cummins QSB6.7 (U.E StageV/U.S Tier4f)**
Displacement	6,7 l
No. of cylinders	6
Power	209 kW (284 HP)
Cooling	liquid cooled
Air filter	two-stage dry, with cyclone pre-filter 400 l
Tank Capacity	400 l
ADBLUE Tank	58 l
Electrical system	24 V
Engine speed adjustment	via button. Auto-Idle function (return to idle during inactivity)

HYDRAULIC SYSTEM

Main pump	variable displacement axial piston pump with pressure cutting function and oil flow adjustment according to demand (Load-sensing)
Delivery rate	610 l/min
Adjustment	load Sensing with electronic management of the power consumption according to the engine speed set
Exchanger	air/water/oil with overlapping elements and a flow-reversal fan for cooling and cleaning the radiant masses
Filtration	complete return filter to the tank
Tank capacity	600 l

SLEWING DRIVE

Motor	with axial pistons
Pump	**dedicated closed circuit pump**
Gearbox	3-stage reduction planetary gearbox
Slewing ring	made of special steel with double-row ball bearing and hardened inner gear
Rotation speed	0-7 revs/min

CAB

Operator's cab	spacious and comfortable, heated, soundproofed, with hydraulic lifting system. Operator's view up to approx. 5.8 m. Air conditioning system with 3-speed fan and adjustable vents with dust pre-filter. Front and top grille guards with 90° opening
Drive	electrically controlled on manipulator or hydraulic steering wheel
Seat	with 6 settings and weight-adjustable suspension
Dashboard	wide touch screen display to control machine functions, allarm and data
Main servo-controls	integrated in the arm rests with cross movement
Shift control	with 2 levers
Auxiliary movements control	electric and electric-hydraulic control

UNDERCARRIAGE

Shifting	variable displacement axial piston motor with starting and braking control valves 2-speed transmission with electro-hydraulic control
Gearbox	2-stage with electro-hydraulic control
Axles	all-wheel drive with strong steering axles, with 12 studs and planetary gearbox in the hubs
Pitch	3.2 m
Rims	8.5/24 with 12 holes
Tyres	8 super-elastic solid tyres 12.00/24
Brake	disc brake
Speed	**Stage 1**^ 0-5 km/h **Stage 2**^ 0-15 km/h

BOOM	
Structure	made of high-strength steel
Length	**15.5/16.5/17.5 m**
Bushings and pins	made of case-hardening steel
Cylinders	double cylinders on 1st and 2nd boom with hydraulic brake
RECOMMENDED EQUIPMENT	grab for SCRAP RV550/RV600 with 6 blades
WEIGHT	**47-50 tons in working order**
SOUND LEVEL	**NOISE REDUCTION** (Directive 2000/14/EC - 2005/88/EC)
SOUND PRESSURE LEVEL	LpA 77 dB (A) at driving position
MISURATORE DI MOVIMENTO	**MACHINERY DIRECTIVE** (Directive 2005/88/EC) Electronic device used to monitor the stability of the machine according to the handled loads and their position with warning of danger by means of acoustic and light signals, blocking of movements upon reaching of stability limits.

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

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