

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.** In particular:

- powerful motors and high-yield oleodynamic systems to achieve maximum performance easily and with low operating costs;
- attention and precision in construction mean strength and reliability to sustain heavy strain throughout time;
- stability and various combinations of straddle and equipment to fully satisfy the most varied demands;
- attention to the operator's **safety** and **comfort** in order to make his duty less stressing and more advantageous;
- excellent **availability of spare parts** and prompt **service** to guarantee long-lasting maximum functionality and efficiency of our loaders.

T813 loader: Maximum Stability!

A powerful stable loader, with the possibility of choosing whether to take advantage of its strength or to safely exploit important straddles, combining the various arm and frame options. In particular the width of the carriage bed and the possibility to set it up with 4 hydraulic stabilisers make the T813 a loader particularly suited to all situations where greater straddles are required.

In this machine, the power and efficiency of the motor with common rail injection and special electronic management of the load-sensing hydraulic system give excellent performance even at medium running speeds, all to the advantage of operating economy, reducing general wear of the mechanical organs and the noise emitted.

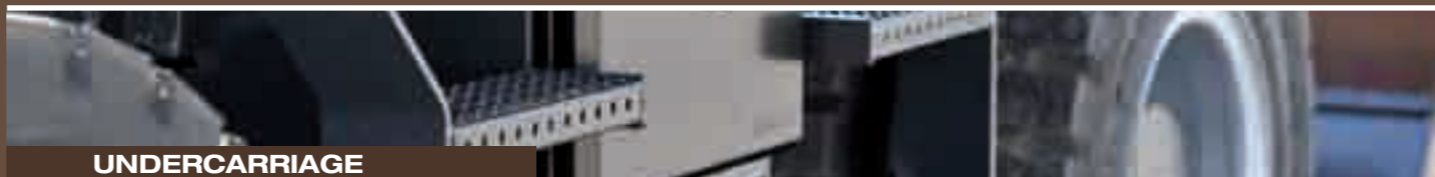
Since the lifting cabin has a pantograph movement and hydraulic suspension, the operator has optimum visibility of the loading zone and can make the best use of machine performance.

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UNDERCARRIAGE

Shift	axial piston and variable-displacement engine with integrated start-up and brake control valve
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 12.00/20
Brake	disc parking brake
Speed	
1st	0-5 km/h
2nd	0-15 km/h
Stabilisers	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 1 st and 2 nd arm with hydraulic brake



GRAB

8-element cactus grab, 2.2 m opening radius, 1350 kg weight, with continuous hydraulic rotation in both directions



WEIGHT

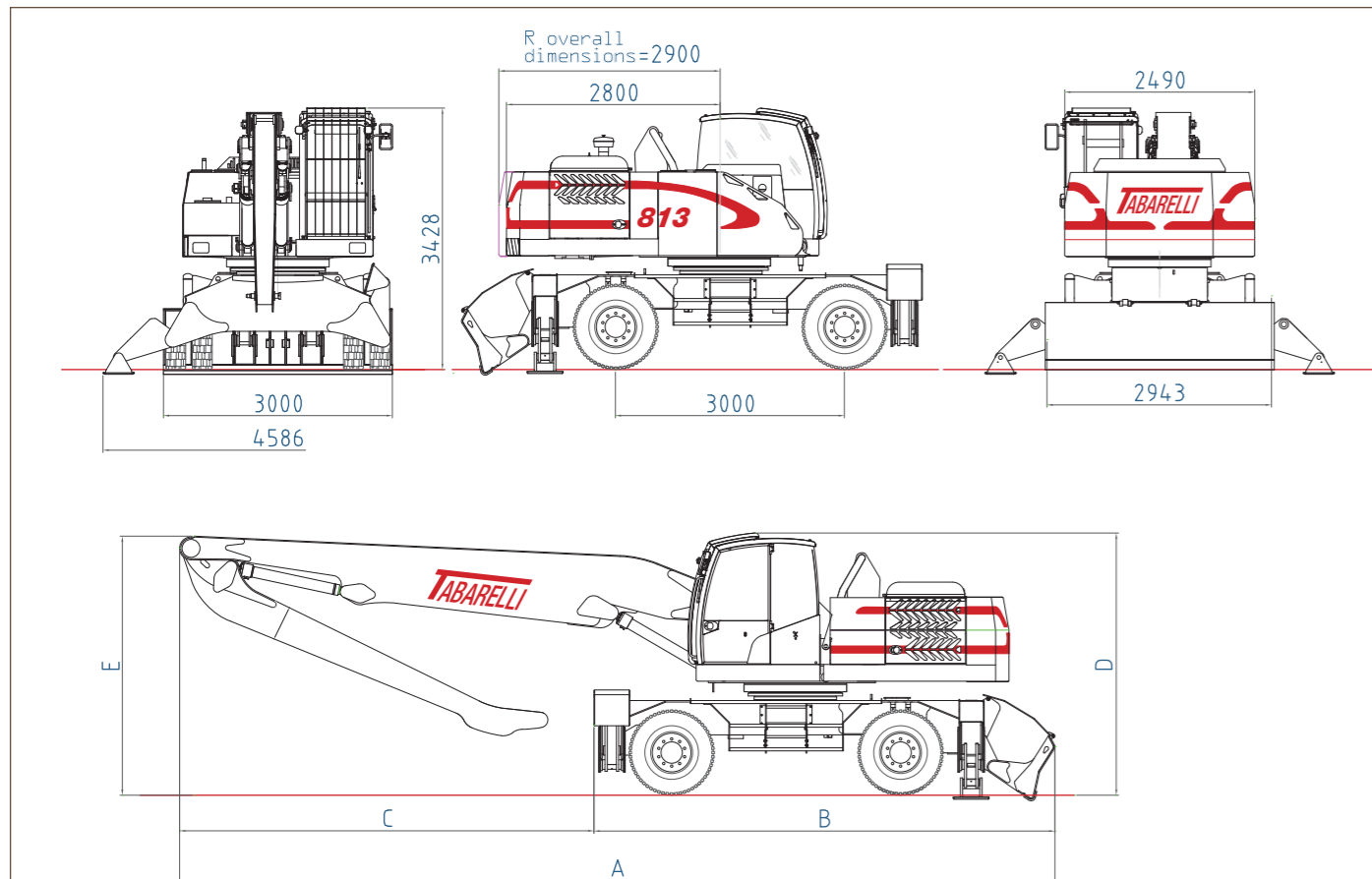
approx. 32 ton when working

UPON REQUEST

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



A loader with superior strength and balance



dimensions (mm)	11.3 m version		12.5 m version		13.3 m version	
	□□	□□	□□□	□□□	□□	□□□
A	10220	10870	11470	10870	11470	
B	5910	5340	6040	5340	6040	
C	4310	5530	5430	5530	5430	
D	3340		3340		3340	
E	2790		3385		3400	

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
- Hydraulically operated heat exchanger
- 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: 12.5 m
- Arm with hydraulic extension, total length from fifth wheel centre: 11.3 m
- Arm with hydraulic extension, total length from fifth wheel centre: 13.3 m

● STANDARD ■ OPTIONAL

TECHNICAL CHARACTERISTICS



MOTORE

Type	fuel, 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	2x100 Ah
Engine revolutions 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	440 l/min
Max pressure	310 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	550 l
Fine Mode selector	continuous adjustment of the machine performances 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 rpm



CABIN

Operator cabin	wide and comfortable, heated, soundproofed, possibility of hydraulic pantograph lift. Operator view of approx. 5.4 m
Seat	6 positions, with adjustable suspension depending on weight
Servo controls	
Main	armrest-integrated, with cross movement
Shift	2-lever pedal
Auxiliaries	electric control

T813

QUICK AND STABLE

In order to take full advantage of the power of a loader, the strength and speed of movements must be balanced and sustained by an adequate structure. The T813 has all these features. In particular, the widened frame and the possibility to set it up in various ways make work safer and easier, even with higher straddles.



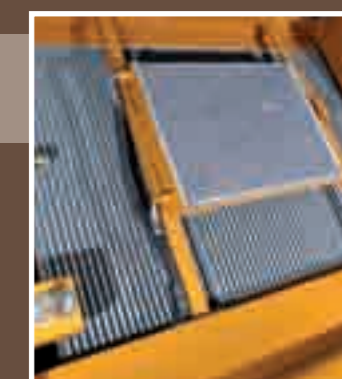
COMFORTABLE AND PRECISE

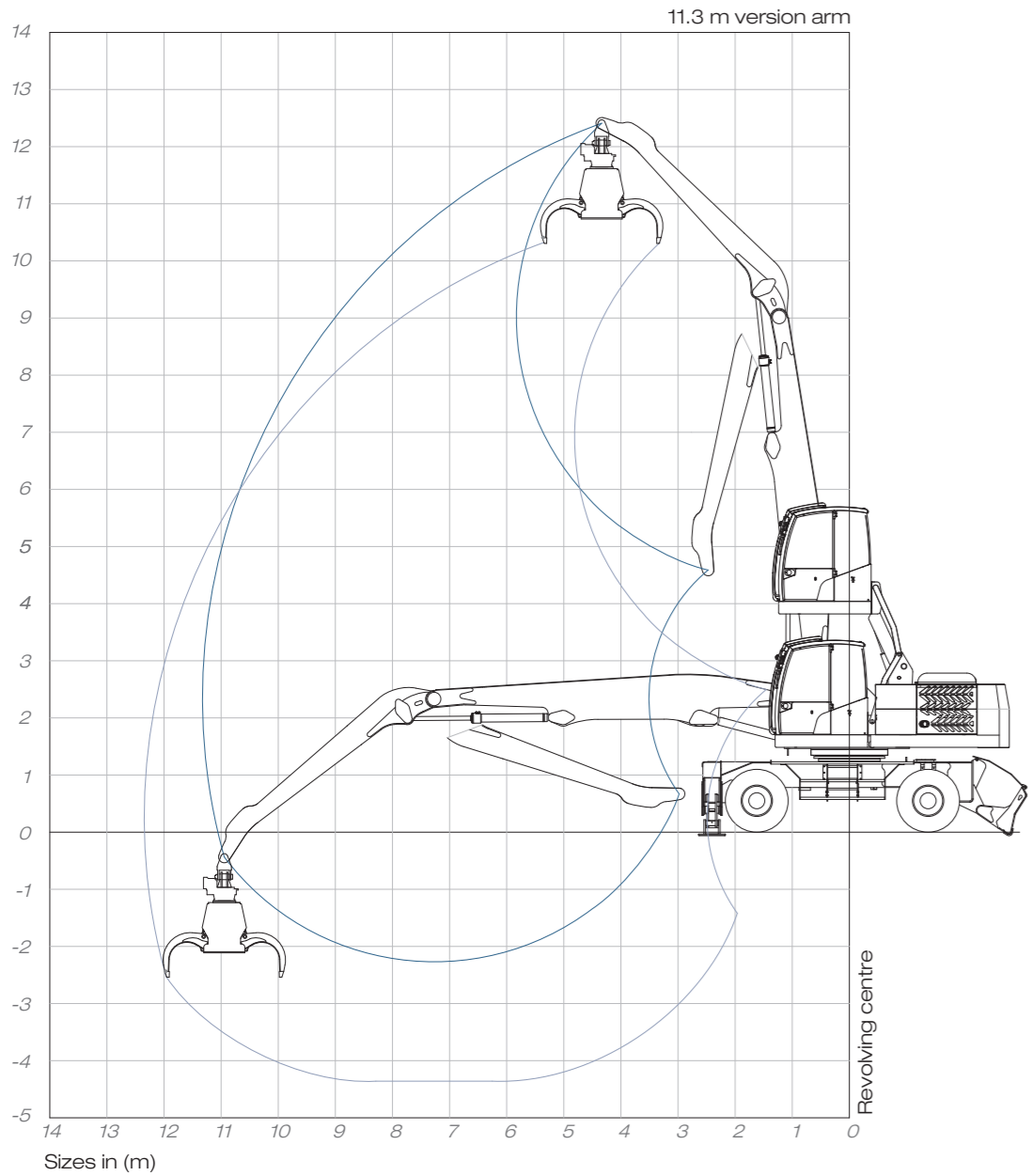
The loader must make movements that are both quick and precise in order to increase its productivity, preventing any jolts or jerks that have repercussion on comfort, stability, and picking up the load. The T813's load sensing hydraulic system with particular electronic load control and fine adjustment control of the various components, make movements perfectly graduated and controlled. 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 suspension system of the cabin characterized by a pantograph lifting system. The equipment allows controlling the machine functions in the most comfortable way for the operator: seat with multiple adjustments, 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.



SCHEDULED MAINTENANCE

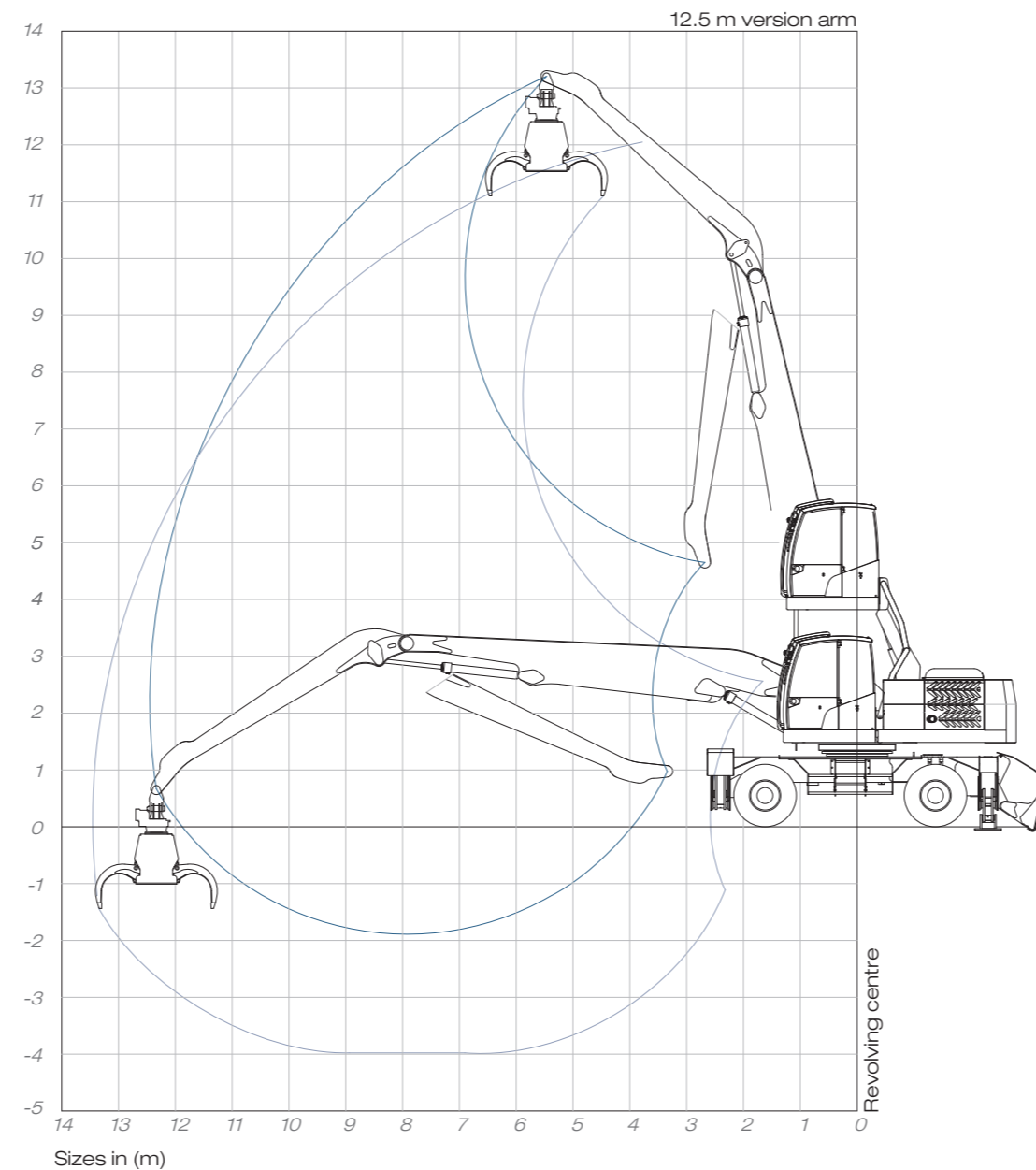
The possibility to do maintenance in the scheduled means and ways is fundamental for keeping the machine at top performance, hence also efficiency. This is made easier on the T813 since the display warns of upcoming operations and there is easy access to the main maintenance points.





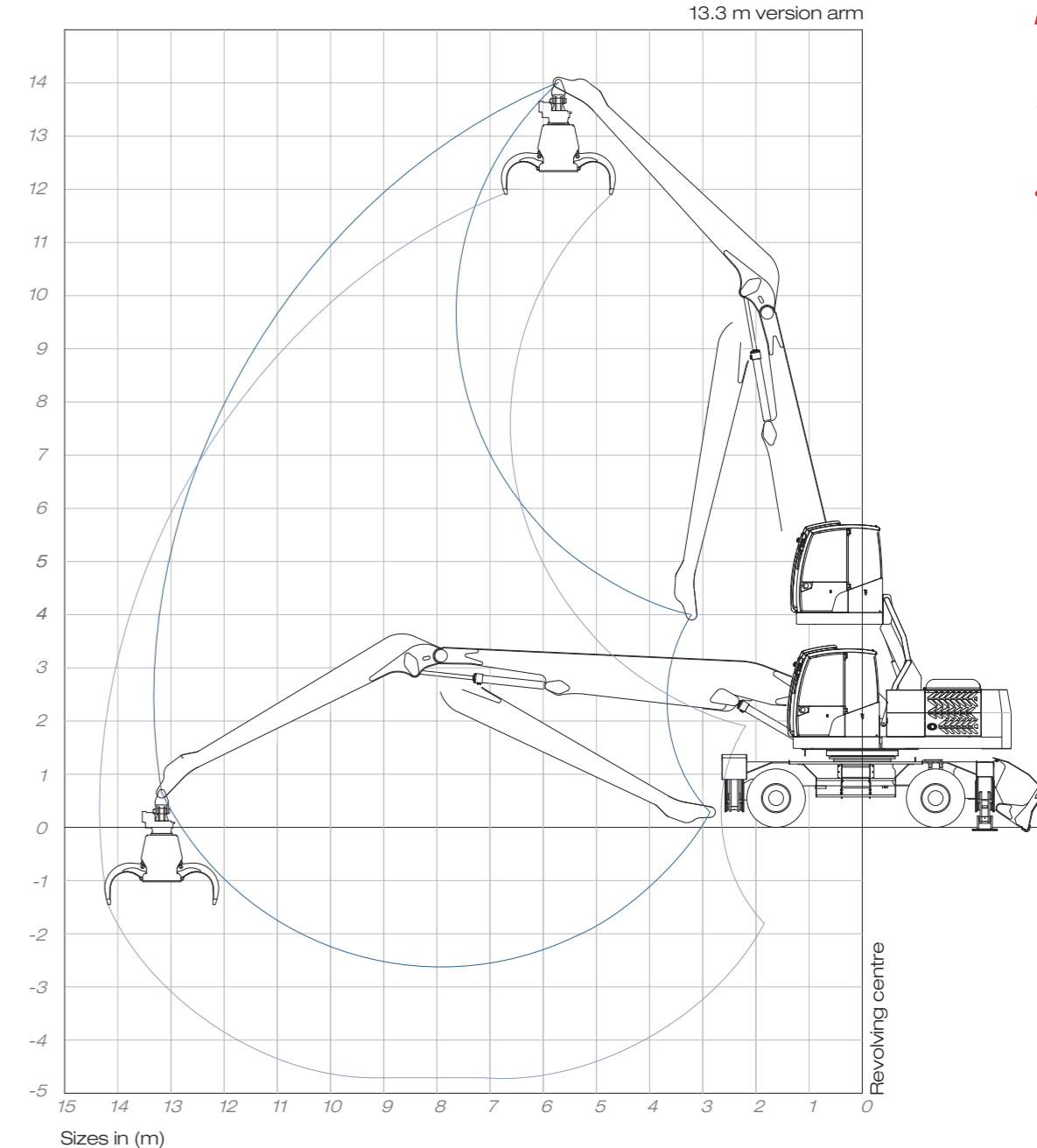
T813

11,3 mt



T813

12,5 mt



T813

13,3 mt

height	set-up	Shovel + 2 Brackets			4 Brackets			4 Brackets + Shovel		
10.5	ON WHEELS				5.4	5.4	4.7			
9.0	ON WHEELS				5.2	5.2	4.5	4.9	4.9	4.3
7.5	ON WHEELS				5.3	5.3	4.6	4.9	4.9	4.3
6.0	ON WHEELS				5.6	5.6	4.9	5.1	5.1	4.4
4.5	ON WHEELS	10.0	10.0	8.7	6.5	6.5	5.6	6.2	6.2	5.4
3.0	ON WHEELS	12.9	12.9	11.2	8.8	8.8	7.7	6.9	6.9	6.0
1.5	ON WHEELS	14.9	14.9	13.0	9.9	9.9	8.6	7.5	7.5	6.5
0.0	ON WHEELS	15.4	15.4	13.4	10.5	10.5	9.2	7.9	7.9	6.9
-1.5	ON WHEELS	15.4	14.3	10.7	10.5	9.3	7.0	7.9	6.9	5.1
RANGE OF ACTION		4.0			5.5			7.0		

• 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.



height	set-up	Shovel + 2 Brackets			4 Brackets			4 Brackets + Shovel		
12.0	ON WHEELS				5.2	5.2	4.6			
10.5	ON WHEELS				5.0	5.0	4.3	4.6	4.6	4.0
9.0	ON WHEELS				4.9	4.9	4.3	4.5	4.5	3.9
7.5	ON WHEELS				5.1	5.1	4.5	4.6	4.6	4.0
6.0	ON WHEELS				5.5	5.5	4.8	4.9	4.9	4.2
4.5	ON WHEELS	10.3	10.3	9.0	6.5	6.5	5.7	5.5	5.5	4.8
3.0	ON WHEELS	12.9	12.9	11.2	8.7	8.7	7.6	6.7	6.7	5.8
1.5	ON WHEELS	14.5	14.5	12.6	9.6	9.6	8.4	7.3	7.3	6.3
0.0	ON WHEELS	14.6	14.6	12.7	10.1	10.1	8.8	7.6	7.6	6.6
-1.5	ON WHEELS	14.6	13.2	9.9	10.1	8.6	6.5	7.6	6.4	4.8
RANGE OF ACTION		4.0			5.5			7.0		

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height	set-up	Shovel + 2 Brackets			4 Brackets			4 Brackets + Shovel		
13.5	ON WHEELS							5.1	5.1	4.5
12.0	ON WHEELS							4.3	4.3	3.8
10.5	ON WHEELS							4.1	4.1	3.6
9.0	ON WHEELS							4.1	4.1	3.5
7.5	ON WHEELS							4.2	4.2	3.6
6.0	ON WHEELS							4.4	4.4	3.8
4.5	ON WHEELS							5.0	5.0	4.3
3.0	ON WHEELS	11.1	11.1	9.7	6.7	6.7	5.8	5.5	5.5	4.8
1.5	ON WHEELS	13.2	13.2	11.5	8.9	8.9	7.7	6.7	6.7	5.9
0.0	ON WHEELS	14.2	14.2	12.3	9.6	9.6	8.3	7.2	7.2	6.3
-1.5	ON WHEELS	14.2	12.9	9.7	9.6	8.5	6.4	7.2	6.3	4.7
RANGE OF ACTION		4.0			5.5			7.0		

• 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.

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