

T916

MATERIAL HANDLER



18 TON



44-46 TON



284 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 is the best guarantee of a proven historical reliability.

All our material handlers have been designed and manufactured to ensure: 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 loader 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.



Repair kit for quick engine maintenance



New hydraulically elevating cab with pantograph movements

SUITABLE FOR HEAVY DUTY APPLICATIONS UNDER → THE TOUGHEST CONDITIONS



The hydraulically elevating cab with pantograph movements and hydraulic suspension allow 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 on the cab suspension system. The internal equipment also allows 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

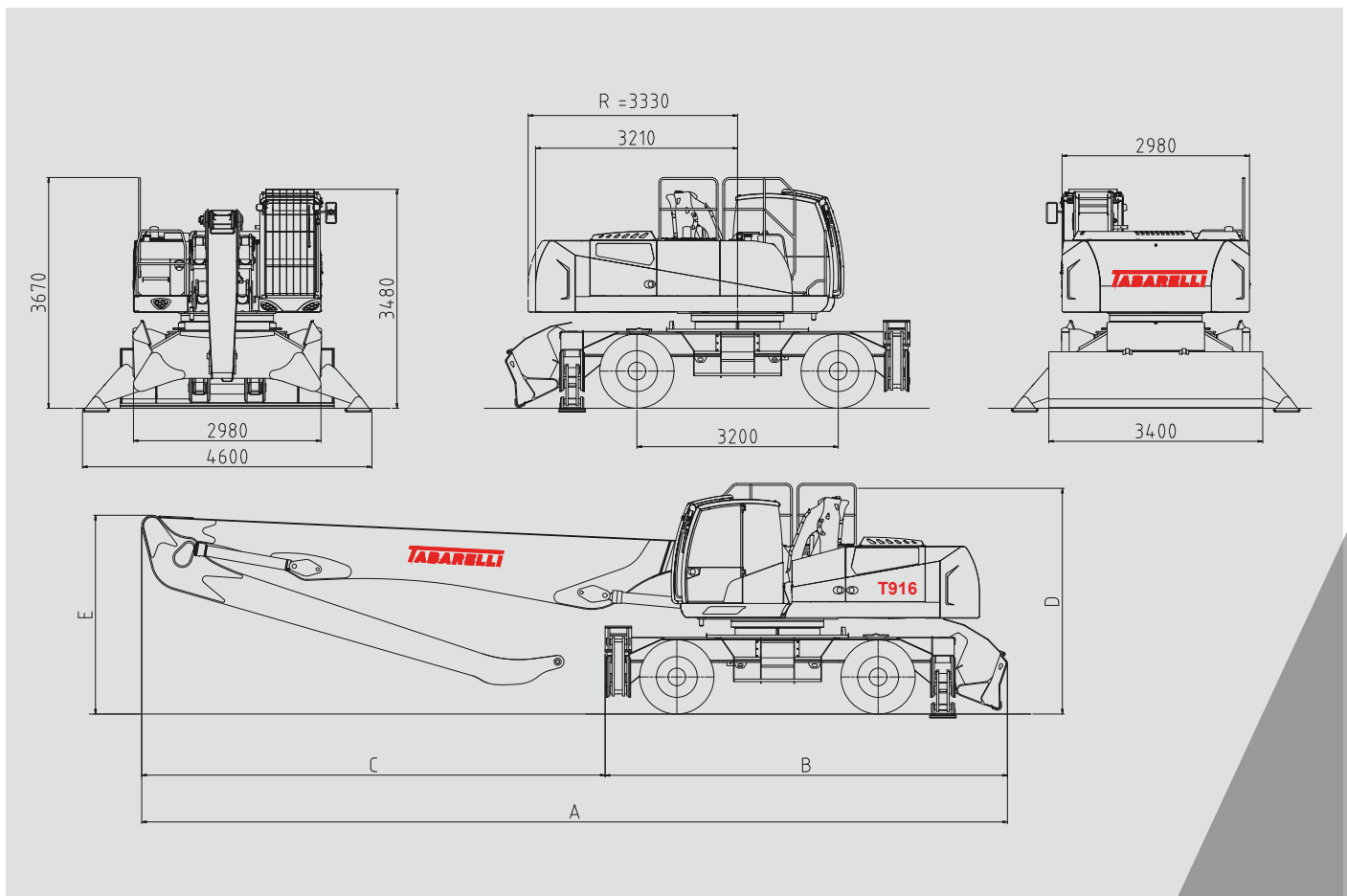


284 HP



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
- > 4-wheel drive
- > 2-speed gearbox
- > Oscillating axle with integrated hydraulic locking cylinders
- > Electric or hydraulic steering system
- > Super-elastic solid tires
- > Hydraulic lifting cab
- > Heating system
- > Air conditioning
- > Two-pieces boom with secondary one monolithic, total length 14,5 m

< OPTIONAL

- < Front blade
- < Automated lubrication system
- < Magnetic lifting system
- < Elevating cab with "FlyCab" system
- < Two-pieces boom with secondary one monolithic, total length 16,0 m

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MATERIAL HANDLER

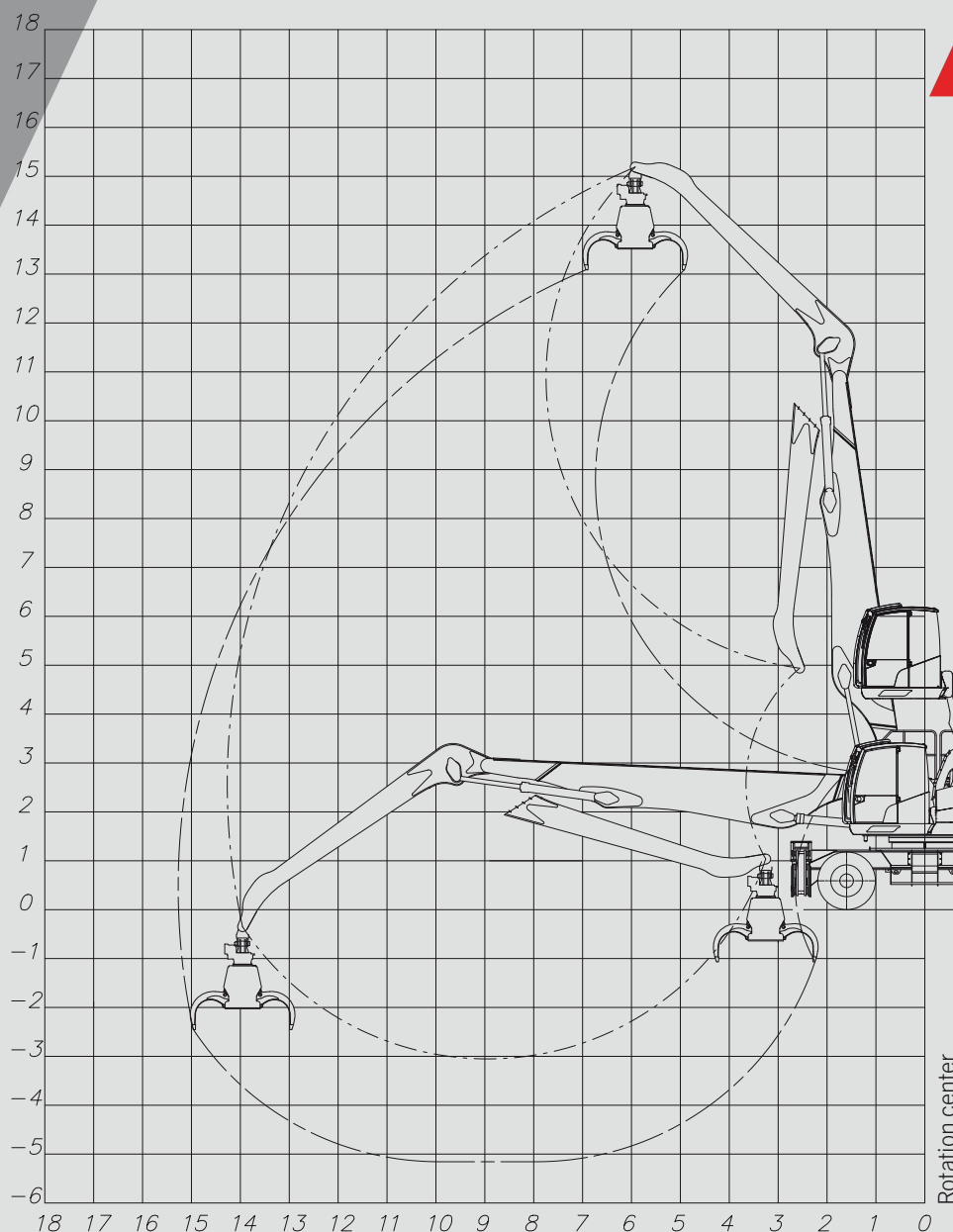


DIAGRAM OF MOVEMENTS

LIFTING CAPACITY

Height	Undercarriage configuration																
14,0								8,0	8,0	7,0							
								8,0	8,0	7,0							
12,0								7,6	7,6	6,6	6,6	6,6	5,7				
								7,6	7,6	6,6	6,6	6,6	5,0				
10,0								7,5	7,5	6,5	6,5	6,5	5,7	5,8	5,8	5,0	
								7,5	7,5	6,5	6,5	6,5	5,1	5,5	4,9	3,7	
8,0								7,8	7,8	6,8	6,6	6,6	5,8	5,7	5,7	5,0	
								7,8	7,8	6,8	6,6	6,6	5,0	5,6	4,9	3,7	
6,0					10,7	10,7	9,3	8,3	8,3	7,2	6,9	6,9	6,0	5,8	5,8	5,1	
					10,7	10,7	9,3	8,3	8,3	6,8	6,9	6,4	4,8	5,4	4,8	3,6	
4,0		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	
		19,2	19,2	16,7	12,0	12,0	9,4	8,9	8,4	6,3	6,9	6,1	4,6	5,3	4,6	3,5	
2,0		20,8	20,8	18,1	13,0	13,0	11,3	9,3	9,3	8,1	7,3	7,3	6,3	5,9	5,9	5,1	
		20,8	19,0	14,3	12,9	11,3	8,5	8,9	7,8	5,8	6,6	5,8	4,3	5,1	4,5	3,3	
0,0		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	
-2,0					11,3	11,3	9,8	8,5	8,5	7,4	6,6	6,6	5,7	5,0	5,0	4,4	
					11,3	10,3	7,7	8,2	7,1	5,3	6,1	5,4	4,0	4,9	4,2	3,2	
RANGE OF ACTION		4.0			6.0			8.0			10.0			12.0			14.5

The values, expressed in ton, 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.

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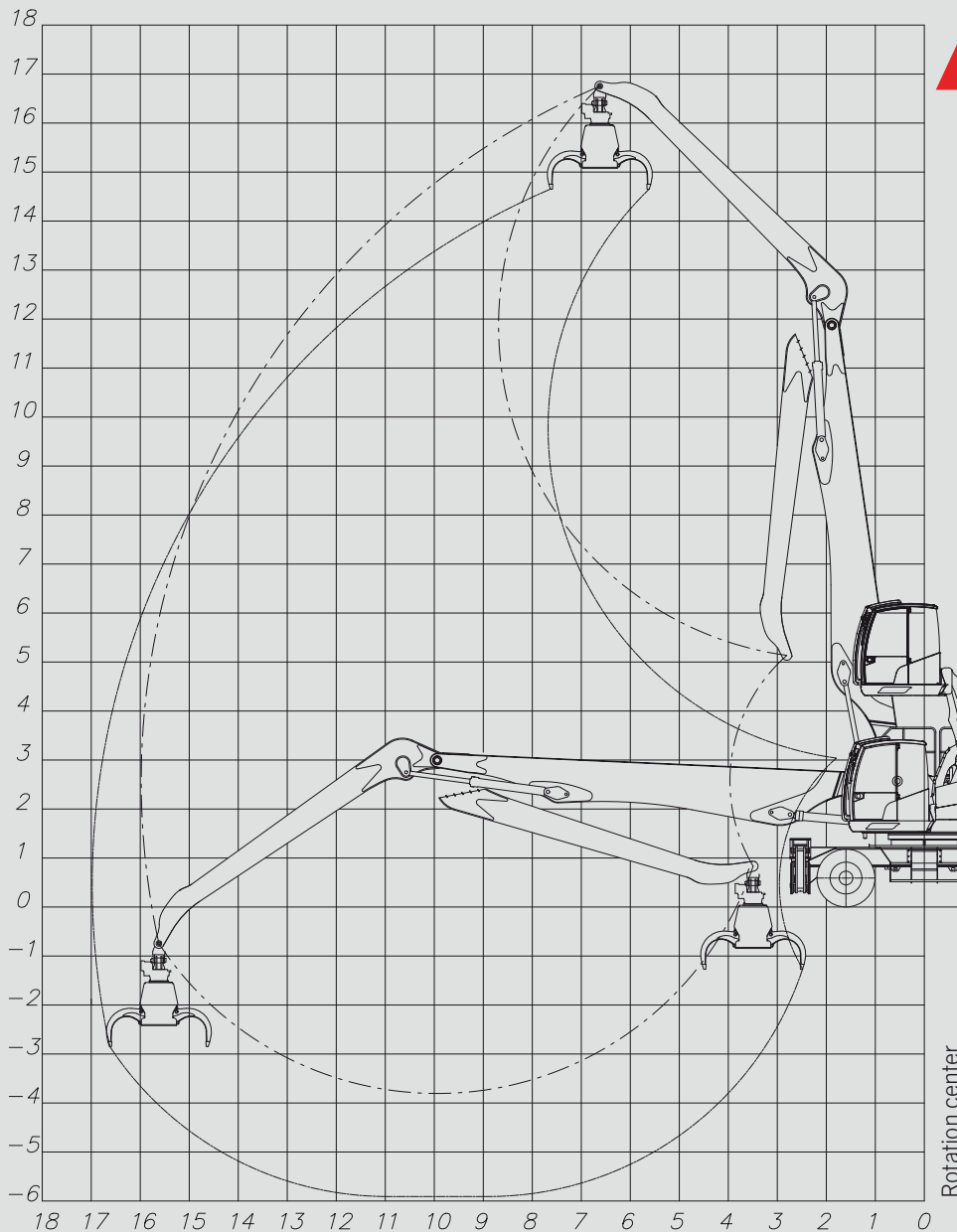


DIAGRAM OF MOVEMENTS

LIFTING CAPACITY

16,0								7,3	7,3	6,3												
14,0								7,3	7,0	5,3				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			
RANGE OF ACTION		4,0			6,0			8,0			10,0			12,0			14,0			16,0		

The values, expressed in ton, 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
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 BLADE +2 OUTRIGGERS
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TECHNICAL SPECIFICATIONS

ENGINE CUMMINS

Model	4-cycle diesel, inline 6-cylinder, turbo-charged EU STAGE V / U.S. TIER 4F (with AdBlue)
Displacement	6.7 l
Cooling	water-cooled
Max. power	290 kW (284 HP)
Injection	Electronic system
Air filter	Two-stage dry filter with integrated pre-separator
Tank capacity	400 l
AdBlue tank capacity	58 l
Electrical system	24 V
Batteries	2x115 Ah
Engine speed adjustment	continuous, with sensor-controlled Auto Idle system

HYDRAULIC SYSTEM

Main pump	variable displacement axial-piston pump and oil flow adjustment according to load requirements
Delivery rate	560 l/min
Max operating pressure	320 Bar
Heat exchanger	Water/air/oil with overlapping elements with inverted flow fan controlled by a dedicated hydraulic pump for cooling and cleaning of radiant mass
Adjustment	Load Sensing with electronic management of the power consumption according to the engine speed set. All movements can be run in parallel without mutual influence
Filtration	complete return filter to the tank
Hydraulic tank capacity	600 l

SLEWING DRIVE

Motor	with axial pistons with load sensing and integrated pressure relief valves
Gearbox	3-stage reduction planetary gearbox
Slewing ring	double-row ball bearing slewing ring, made of special steel with hardened inner gear
Slewing speed	0-7 rpm

CAB

Operator's Cab	spacious and comfortable, heated, soundproofed, with hydraulic pantograph lifting system. Working position with a view up to 5,8 meters height from the ground. Air conditioning system with 3-speed fan and adjustable vents with dust pre-filter. Front grille guard and n. 5 LED work lights
Drive	electric control with joysticks or hydraulic drive with steering wheel
Seat	"GRAMMER" "gran comfort" with 6 settings and weight-adjustable suspension
Dashboard	Wide colour display with text and graphic symbols to control the main machine functions, alarms and data.
Main cross-motion servo-controls	multifunction armrest with cross joystick
Shift	2-levers pedal
Auxiliary Movements Control	electric and electric-hydraulic control

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 boom with hydraulic brake
Regenerative valves	innovative regenerative valves for the recovery of hydraulic oil during cylinders' movement. When boom cylinders are being opened, the hydraulic oil on the rod side is reused and put back into the circuit, increasing the efficiency of the boom and the working speed. Thanks to these valves, it is possible to balance the speed of both booms in order to make smoother movements, facilitating the work for the operator. With this system the hydraulic oil heating is reduced, for the benefit of the system.

UNDERCARRIAGE

Shifting	hydraulic axial piston motor with starting and braking control valve
Drive	2-speed transmission with electro-hydraulic control
Axles	Four-wheel drive with strong steering axles and planetary gearbox in the hubs. Steering and oscillating front axle with integrated hydraulic locking cylinders
Rims	8.5/24 with 12 holes
Tires	8 super-elastic solid tyres 12.00/24
Brake	parking brake
Speed	Stage I: 0-5 km/h Stage II: 0-15 km/h
Outriggers	2-point front and 2-point rear, with 90° opening and articulated foot and chrome-plated rod guard.
Blade	optional 1-front blade with stabilizer function, width 3,4 m

WEIGHT From 44 to 46 ton in working order

RECOMMENDED EQUIPMENT Grab for scrap model **RV600 with 6 blades**
Grab for scrap model **RV601 with 6 blades**

SOUND LEVEL **NOISE REDUCTION** (Dir 2000/14/CE - 2005/88/CE)
Sound pressure level at driving position LpA 77 dB (A)

MOVEMENT METER **MACHINERY DIRECTIVE** (Dir 2006/42/CE)
Electronic monitoring device for the stability of the machine according to the loads moved 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.

→T916



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