



Recycler WR 2500

Technical specification

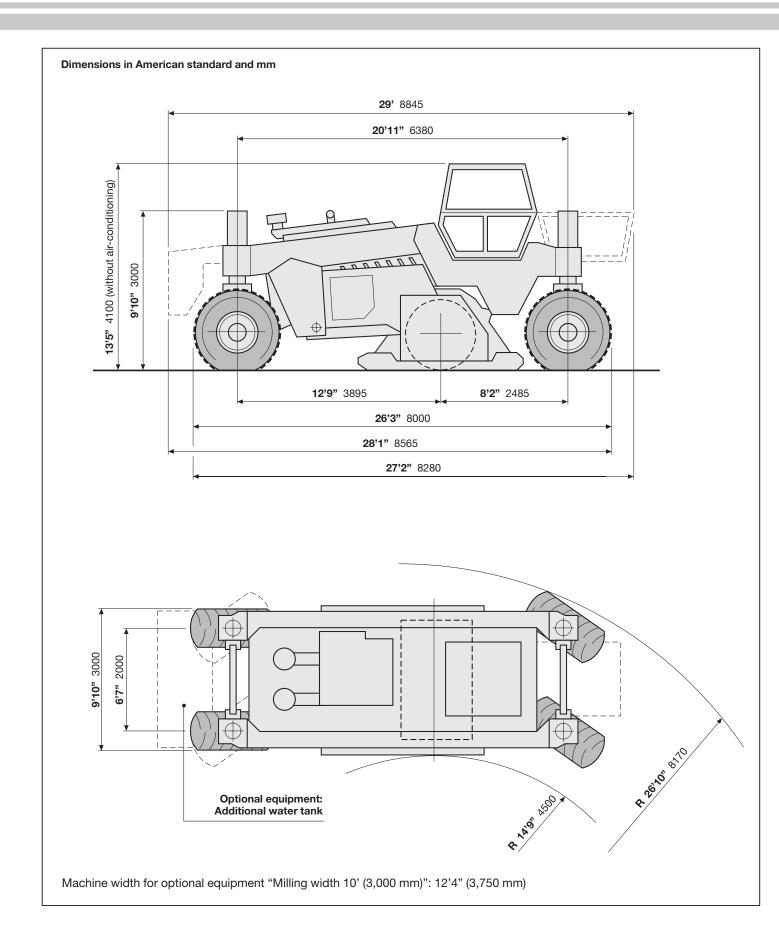


Technical specification

	Recycler WR 2500	Recycler WR 2500 Milling width 3000 mm
Milling width max.	8' 2,438 mm	10 ' 3,048 mm
Milling depth *1	0 – 20 " 0 – 500 mm	0 – 20 " 0 – 500 mm
Milling drum		
Spacing	1¹/₄" 30 mm	1¹/₂" 37 mm
Number of tools	248	248
Drum diameter with tools	58 " 1,480 mm	58" 1,480 mm
Drum diameter without tools	34" 860 mm	34 " 860 mm
Drum inclination max.	8°	8°
Engine		
Manufacturer	Mercedes-Benz	Mercedes-Benz
Туре	OM 444 LA	OM 444 LA
Cooling	Water	Water
No. of cylinders	12	12
Output	455 kW/610 HP/619 PS	455 kW/610 HP/619 PS
Engine speed	2,100 min ⁻¹	2,100 min ⁻¹
Displacement	1,338 in ³ 21,930 cm ³	1,338 in ³ 21,930 cm ³
Fuel consumption: 1/1 load	29 gal/h 110 l/h	29 gal/h 110 l/h
Fuel consumption: 2/3 load	21 gal/h 80 l/h	21 gal/h 80 l/h
Speed / Gradeability		
1st speed of advance	0 - 49 ft/min 0 - 15 m/min	0 – 49 ft/min 0 – 15 m/min
2 nd speed of advance	0 – 131 ft/min 0 – 40 m/min	0 – 131 ft/min 0 – 40 m/min
3 rd speed of advance	0 – 262 ft/min 0 – 80 m/min	0 – 262 ft/min 0 – 80 m/min
4 th speed of advance	0 – 656 ft/min 0 – 200 m/min	0 – 656 ft/min 0 – 200 m/min
Theor. gradeability, max.	57 %	57 %
Ground clearance	15 " 370 mm	15 " 370 mm
Weights / Loads *2		
Front axle load, full tanks	38,140 lbs 17,300 daN (kg)	39,904 lbs 18,100 daN (kg)
Rear axle load, full tanks	34,613 lbs 15,700 daN (kg)	35,715 lbs 16,200 daN (kg)
Shipping weight	67,241 lbs 30,500 daN (kg)	70,107 lbs 31,800 daN (kg)
Operating weight, CE *3	69,887 lbs 31,700 daN (kg)	72,753 lbs 33,000 daN (kg)
Operating weight max.	72,753 lbs 33,000 daN (kg)	75,619 lbs 34,300 daN (kg)
Tyres		
Type of tyres	Diagonal	Diagonal
Tyre size, front	28 L 26	28 L 26
Tyre size, rear	28 L 26	28 L 26
Tank capacities		
Fuel tank	422 gal 1,600 l	422 gal 1,600 l
Hydraulic fluid tank	71 gal 270 l	71 gal 270 l
Water tank	145 gal 550 l	145 gal 550 l
Electrical system	24 V	24 V
Shipping dimensions		
Dimensions of machine (L x W x H)	27'3" x 10'6" x 10'6" 8,300 x 3,200 x 3,200 mm	27'3" x 12'6" x 10'6" 8,300 x 3,800 x 3,200 mm

 $^{^{\}star 1}$ = The maximum milling depth may deviate from the value indicated, due to tolerances and wear.

 $^{^{*2}}$ = All weights refer to basic machine without any additional equipment. *3 = Weight of machine with half-full water tank, half-full fuel tank, driver (75 kg) and tools.



Technical description

Basic design

Recycler and stabilizer with mechanically driven millling drum and two working directions.

Chassis

Rigid welded structure with mounts for the individual units and attachments, as well as an integrated water tank. All components are readily accessible for maintenance and servicing.

Wheels

The wheels of the recycler WR 2500 are suspended from the chassis by means of round columns, the height of which can be adjusted hydraulically to set the machine to its working and transport positions.

Steering

The WR 2500 is equipped with a fingerlight hydraulic four-wheel steering system which can be adapted to the momentary working direction.

Traction drive

Each wheel is driven by a separate hydraulic motor and each hydraulic motor is supplied with oil via a separate variable-displacement hydraulic pump. The four travelling speeds can be infinitely adjusted from zero to maximum working speed in milling and travelling gear. Uniform traction is ensured by a permanent differential lock. The feed rate is set on the control console.

Power control

The machine is equipped with an automatic power control which adjusts the feed rate as a function of the diesel engine load. The power control can be deactivated so that the feed rate can also be set by hand.

Brakes

Braking is achieved by drag from the hydrostatic transmission. A manual multiple disk parking brake is additionally installed on each wheel.

Milling drum

The milling drum operates in up- or down-milling direction, depending on the direction of travel. Quick-change

tool holders are welded onto the body of the drum as a standard feature to hold the round-shank cutters. Special edge segments ensure a clean milled edge. The hydraulically adjusted scraper blade ensures a good mixed result. The momentary angular position of the crusher bar and scraper blade is indicated by mechanical scales within view of the operator.

Tool changes

The scraper blade can be swung aside hydraulically to provide access to the milling drum for tool changes. The use of quick-change tool holders reduces the repair work to a minimum

Milling drum drive

The milling drum is driven mechanically. The drive power is transmitted from the diesel engine via a shifting clutch and power belts to the manual gearbox. The power transmission belts are automatically retensioned via a hydraulic cylinder. The speed of the milling drum can be set in four stages for optimum results.

Milling depth control

The milling depth can be infinitely varied via the four lifting columns or by swivelling the complete working station.

Soundproofing

Soundproofing is a standard feature and reduces the noise to a tolerable level for both the operating personnel and the environment.

Operator's console

The operator's console is located in the middle part of the machine. In addition to the steering wheel, the height and angle of which can be adjusted, it includes an ergonomically positioned seat for the operator which, together with the low height and orderly arrangement, makes this machine simple to operate. The modern controls and operating elements are located within easy reach and in the operator's field of vision. The operator's console can also be

hydraulically displaced to the right or left for a better overview. It can also be rotated through 180° to ensure optimum adjustment to the momentary direction of work.

Instrumentation

A multi purpose display shows operating hours, oil pressure, motor temperature, charging air temperature, operating voltage, hydraulic fluid temperature, gearbox temperature (milling drum), engine speed, diesel tank filling level and charge control. Furthermore contamination level indicator for filters.

CGC (Cockpit Graphic Centre)

During cold recycling works all data input for initial settings and control of the addition of stabilizing or binding agents is done via the display of the CGC. The job's data can be viewed there or can be printed via the optional printer.

Hydraulic system

Separate hydraulic systems for traction drive, control functions and cooling system. The hydraulic pumps are driven by the diesel engine via a PTO gear.

Electrical system

24 V system with three-phase alternator and two 12 V batteries, starter, socket outlet and alarm, as well as the complete working lights.

Filling equipment

Water and diesel are filled via generously dimensioned filler ports.

Safety during transport

Robust retaining lugs with which to secure the machine on a low-bed trailer or when loaded by crane.

○ Standard • Optional

Equipment	Recycler WR 2500
Frame / operator's platform	
Variable operator's console	0
Cab – heating with filter	in EU countries
Cab – with air-conditioning	 all other countries
Special painting	•
Machine control / level control	
Slope control	•
Height control with 2 ultrasonic sensors on each side	•
Electronic grade and slope control on both sides	•
CGC (Cockpit Graphic Centre)	•
Printer for job data	•
Milling drum	
Quick-change tool holder system	0
Quick change tool holder system with shaft diameter 7/8" (22 mm)	•
Equipment for milling width 10' (3,000 mm) (only available ex factory)	•
Crusher bar	•
Pneumatic tool ejector	•
Cold recycling unit	
Metering unit for emulsion or water	•
Duplex metering unit for emulsion and water	•
Metering unit for foamed bitumen	•
Duplex metering unit for foamed bitumen and water	•
Metering unit for additive for the foamed bitumen	•
Special metering unit for water 475.5 gal/min (1,800 l/min)	•
Miscellaneous	
Soundproofing	0
Working lights	0
Warning lights	0
Reversing horn	0
Loading and lashing lugs	0
Comprehensive tool kit	0
4-wheel steering	0
Air compressor	0
Engine power control	0
Comprehensive safety package with Emergency-OFF switches	0
Safety certificate by the employer's liability insurance association	0
CE-mark	0
Air prefilter	•
High-pressure water wash down	•
Water tank 422 gal (1,600 l)	•



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