

# ARS 50

## SOIL COMPACTOR

EU Stage V / U.S. EPA Tier 4 Final



### POWER AND FUEL EFFICIENCY

The Ammann ARS 50 Single Drum Rollers utilise advanced technology, innovative engineering and robust engines with the latest emission standards. A combination of a well-balanced engine, fully hydrostatic drive system and control deliver exceptional fuel consumption. That efficiency and a large fuel tank means a roller need only be fuelled once every three working shifts.

### APPLICATIONS

- Landscaping
- Forest roads
- Municipal roads
- Walking/bicycle paths
- Pipeline construction
- Electric cable construction

### PRODUCTIVITY

#### High compaction output

Fast, precise compaction in the fewest possible passes

#### No-rear-axle concept

Utilises unique machine design with low centre of gravity for improved stability, manoeuvrability and optimal jobsite safety

#### Twin-lock drive

Improves traction and reduces slipping of axles

### ERGONOMICS

#### Simple & reliable dashboard

Intuitive machine control, even with an unskilled operator

#### Unobstructed visibility

Excellent all-around machine visibility for safety on the jobsite

#### Operator workplace

Ergonomically friendly operator station designed for high operator comfort during working day

### SERVICEABILITY

#### ECOdrops

Smart machine functions and new technologies improve efficiency and reduce fuel consumption and the amount of required fluids.

#### Ground servicing

Convenient access to all maintenance points

#### Solid design

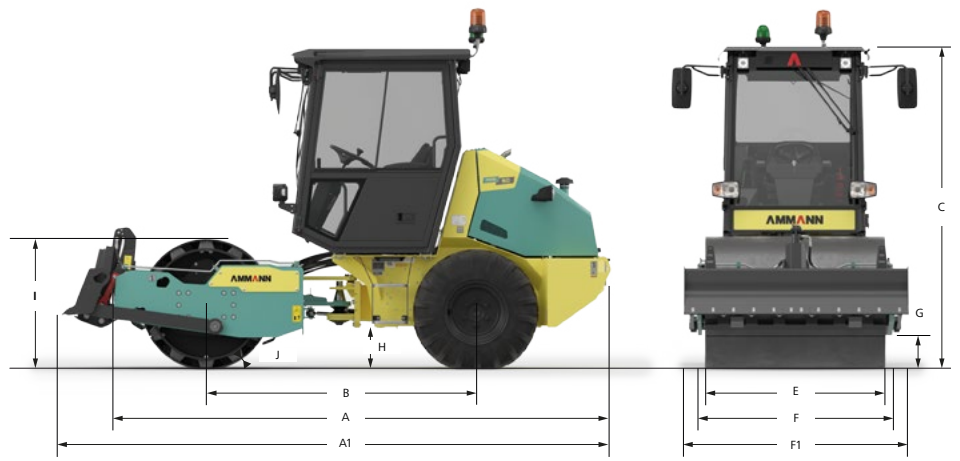
Robust machine design to minimise downtime

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ARS 50	-	* 400 mm (16 in)	* 300 mm (12 in)	200 mm (8 in)	100 mm (4 in)
ARS 50 (PD)	-	-	* 300 mm (12 in)	* 200 mm (8 in)	* 150 mm (6 in)

\* Recommended drum type

TECHNICAL SPECIFICATIONS  
ARS 50 SOIL COMPACTOR  
EU Stage V / U.S. EPA Tier 4 Final



**DIMENSIONS**

<b>A</b>	Machine length	3925 mm (154,5 in)
<b>A1</b>	Machine length (blade)	4330 mm (170,5 in)
<b>B</b>	Wheelbase	2125 mm (83,7 in)
<b>C</b>	Machine height	2545 mm (100,2 in)
<b>E</b>	Drum width	1400 mm (55,1 in)
<b>F</b>	Machine width	1548 mm (60,9 in)
<b>F1</b>	Machine width (blade)	1726 mm (68 in)
<b>G</b>	Curb clearance	240 mm (9,4 in)
<b>H</b>	Ground clearance	345 mm (13,6 in)
<b>I</b>	Drum diameter	1000 mm (39,4 in) / *1030 mm (40,6 in)
<b>J</b>	Drum thickness	18 mm (0,7 in)

\*Smooth shell

**ENGINE**

<b>Manufacturer</b>	Kubota V2403-CR-T
<b>Power output ISO 14396</b>	43.2 kW (58 HP)
<b>Exhaust gas after-treatment</b>	EGR+DOC+DPF
	EU Stage V / U.S. EPA Tier 4 Final

**COMPACTION FORCES**

		<b>PD</b>
<b>Frequency I</b>	29 Hz (1740 vpm)	29 Hz (1740 vpm)
<b>Frequency II</b>	37 Hz (2220 vpm)	37 Hz (2220 vpm)
<b>Amplitude</b>	1,6 mm (0,06 in)	1,5 mm (0,06 in)
<b>Centrifugal force I</b>	53 kN (11 915 lbf)	53 kN (11 915 lbf)
<b>Centrifugal force II</b>	85 kN (19 109 lbf)	85 kN (19 109 lbf)

**MISCELLANEOUS**

<b>Brakes operating</b>	Hydrostatic
<b>Parking brakes</b>	Multiple-disc spring brake
<b>Emergency brakes</b>	Multiple-disc spring brake
<b>Fuel tank capacity</b>	98 l (25.9 gal)
<b>Articulation angle</b>	±30°
<b>Oscillation angle</b>	±10°

**WEIGHT & DRIVING CHARACTERISTIC**

		<b>PD</b>	<b>HX</b>	<b>HXPD</b>
<b>Operating weight CECE</b>	4165 kg (9182 lb)	4205 kg (9270 lb)	4210 kg (9281 lb)	4250 kg (9370 lb)
<b>Max. operating weight</b>	4455 kg (9822 lb)	5340 kg (11773 lb)	4500 kg (9921 lb)	5385 kg (11872 lb)
<b>Static linear load</b>	16,5 kg/cm (92,4 lb/in)	-	16,5 kg/cm (92,4 lb/in)	-
<b>Number of pads</b>	-	63 pcs	-	63 pcs
<b>Pad contact surface</b>	-	75 cm <sup>2</sup> (11,6 sq in)	-	75 cm <sup>2</sup> (11,6 sq in)
<b>Pad height</b>	-	60 mm (2,4 in)	-	60 mm (2,4 in)
<b>Max. travel speed</b>	12 km/h (7,5 MPH)	12 km/h (7,5 MPH)	9,6 km/h (6 MPH)	9,6 km/h (6 MPH)
<b>Max. working speed</b>	9,5 km/h (5,9 MPH)	9,5 km/h (5,9 MPH)	7,6 km/h (4,7 MPH)	7,6 km/h (4,7 MPH)
<b>Gradeability without /with vibration</b>	40% / 30%	40% / 30%	40% / 30%	40% / 30%
<b>Turning radius, inner (edge)</b>	3270 mm (128,7 in)	3270 mm (128,7 in)	3270 mm (128,7 in)	3270 mm (128,7 in)

**STANDARD**

- CE conformity
- Ammann color scheme
- Wheel and drum drive
- Twin-lock system
- Smooth drum
- Steel scrapers
- 2 Frequencies/  
1 Amplitude vibration system
- Open Platform with ROPS
- Manual tilting hood
- Tractor tread tyres
- Working lights
- On-board diagnostics
- Central draining points
- Testports on hydro-components

**OPTIONAL EQUIPMENT**

- PD drum incl. scrapers
- Smooth shell
- Drive HX
- Vulcolan scrapers for smooth drum
- ROPS/FOPS cab
- Radio FM
- A/C with cooling medium
- Warning beacon LED green
- 3" seat belt
- Seat option armrests
- Ammann ServiceLink (telematics)
- Telematics ServiceLink start
- Telematics Trackunit
- Telematics Trackunit keyboard
- Telematics Topcon
- Telematics preparation
- Compaction measuring system ACE<sup>force</sup>
- Road lights incl. turning signals
- Registration plate holder
- Additional lights 360° LED
- Warning beacon LED
- Slow moving vehicle triangle
- Dozer blade
- Back-up alarm
- Back-up alarm adaptive
- Rear view camera
- Engine air inlet precleaner
- Tractor tyres, 12,5" wide
- Tyre ballast - 25°
- Sun visor
- Rear window
- Cold weather engine kit



**ETOP**  
creat să reziste

Republica Moldova, MD-2023  
mun. Chişinău, str. Uzinelor 90  
+ /373/ 67 707 707  
office@etop.md  
www.etop.md