

ARS 220

SINGLE DRUM ROLLER

EU STAGE IIIA / U.S. EPA TIER 3

APPLICATIONS

- Large compaction sites
- Airports runways
- Rock fill dams
- Harbours
- Dumpsite construction
- Railway lines



PRODUCTIVITY

No-rear-axle

Provides low centre of gravity and high versatility

Compaction performance

Two-stage vibratory system, high compaction output

ERGONOMICS

Platform and cab

Spacious and quiet, with 360° visibility

Operator station

High comfort and safety

SERVICEABILITY

Reduced downtime

Heavy-duty components and robust construction

Reduced maintenance

Extended service intervals; easy-to-reach maintenance points

SUSTAINABILITY

ECODrop

Improved efficiency, reduced use of fluids

Advanced technologies

Machine usage controlled to bring efficiency, productivity – and enable precise documentation

OPTIONAL EQUIPMENT

- A/C
- A/C without cooling medium
- Additional documentation printed
- Additional lights 360° LED
- AmmannCare Diamond
- AmmannCare Platinum
- AmmannCare Gold
- AmmannCare Silver
- Ammann Documentation Syst. ADS
- Ammann Documentation Syst. ADS RTK
- Back-up alarm
- Back-up alarm adaptive
- Certificate of origin
- Color scheme customer
- Compaction measuring system ACE^{force}
- Container shipment preparation
- Drive HX
- Drum PD - including scrapers
- Engine air inlet pre-cleaner
- Fire extinguisher
- GPS Q-Compaction ACE
- GPS Q-Compaction preparation ACE
- Hydraulic oil biodegradable
- Measuring points central
- Padfoot Shell Kit - including scrapers
- Radio FM
- Radio preparation
- Rear view camera
- Registration plate holder incl. light
- Road lights incl. turn signals
- Scrapers vulcan for smooth drum
- Maintenance Kit 2000h
- Maintenance Kit 500h
- Slow moving vehicle triangle
- Tachograph complete
- Telematics Servicelink Plus
- Telematik Servicelink Pro
- Telematics preparation
- Toolset
- Tractor tyres
- Warning beacon LED
- Greasing tool

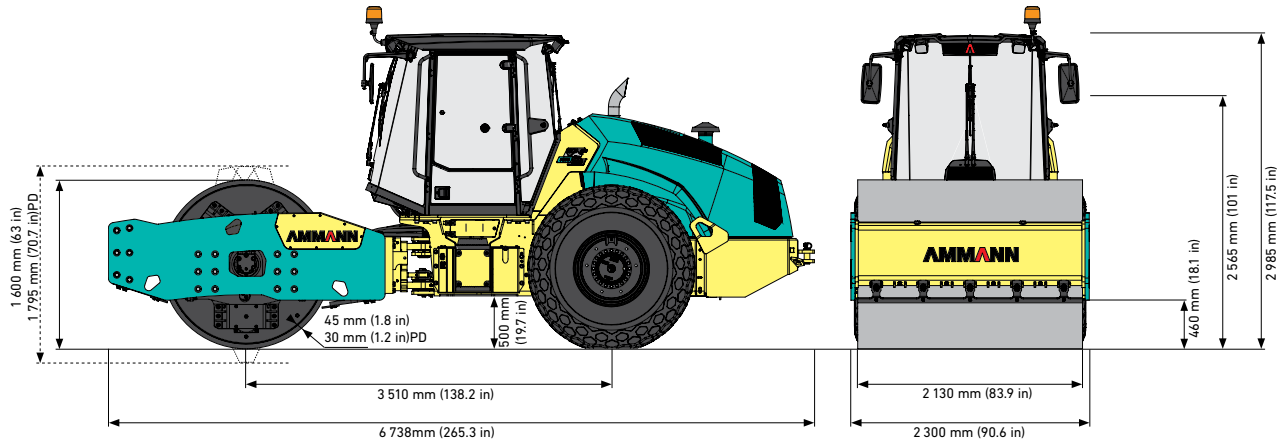
STANDARD EQUIPMENT

- Smooth drum
- Steel scrapers
- Diamond tread tyres
- ECODrop
- 2 amplitudes / Multiple frequencies
- Operator's station with one drive lever (RH)
- Rotatable and horizontally adjustable driver's seat with armrests
- Multi-functional display for machine control and overview
- Adjustable steering column
- Intelligent drive lever
- 12V outlet
- Battery disconnection switch
- Working lights (front / rear) - LED
- Standard hydraulic oil
- Testports on hydrocomponents
- Telematics Ready
- Ammann color design and decals
- Centralized draining points
- On-board diagnostics

AMMANN

ARS 220

StIIIA / T3



WEIGHT & OPERATING CHARACTERISTICS

		PD	HX	HXPD
OPERATING WEIGHT CAB	21 780 kg (48017 lb)	21 910 kg (48303 lb)	21 780 kg (48017 lb)	21 910 kg (48303 lb)
OPERATING WEIGHT CAB MAX.	24 320 kg (53616 lb)	22 130 kg (48788 lb)	24 320 kg (53616 lb)	22 130 kg (48788 lb)
STATIC LINEAR LOAD	66.9 kg/cm (374.6 lb/in)	—	66.9 kg/cm (374.6 lb/in)	—
NUMBER OF PADS	—	140 pcs	—	140 pcs
PAD CONTACT SURFACE	—	143 cm ² (22.2 sq in)	—	143 cm ² (22.2 sq in)
PAD HEIGHT	—	120 mm (4.7 in)	—	120 mm (4.7 in)
MAX. WORKING SPEED	7 km/h (4.3 MPH)	7 km/h (4.3 MPH)	7 km/h (4.3 MPH)	7 km/h (4.3 MPH)
MAX. TRANSPORT SPEED	12 km/h (7.5 MPH)	12 km/h (7.5 MPH)	11 km/h (6.8 MPH)	11 km/h (6.8 MPH)
GRADEABILITY WITHOUT VIBRATION	55%	55%	60%	60%
GRADEABILITY WITH VIBRATION	50%	50%	55%	55%
TURNING RADIUS (INNER)	4 370 mm (172 in)	4 370 mm (172 in)	4 370 mm (172 in)	4 370 mm (172 in)

COMPACTION FORCES

		PD
FREQUENCY I	23–27 Hz (1 380–1 620 vpm)	23–27 Hz (1 380–1 620 vpm)
FREQUENCY II	30–34 Hz (1 800–2 040 vpm)	30–34 Hz (1 800–2 040 vpm)
CENTRIFUGAL FORCE I	275–378 kN (61 822–84 978 lbf)	275–378 kN (61 822–84 978 lbf)
CENTRIFUGAL FORCE II	233–300 kN (52 380–67 443 lbf)	233–300 kN (52 380–67 443 lbf)
AMPLITUDE I	2 mm (0.079 in)	2 mm (0.079 in)
AMPLITUDE II	1 mm (0.039 in)	1 mm (0.039 in)

MISCELLANEOUS

BRAKES OPERATING	Hydrostatic
BRAKES PARKING	Multiple-discspring brake
BRAKES EMERGENCY	Multiple-discspring brake
FUEL TANK CAPACITY	350 l (92.4 gal)
HYDRAULIC OIL CAPACITY	115 l (30.4 gal)
STEERING ANGLE	±36°
OSCILLATION ANGLE	±10°
BATTERY VOLTAGE	24V
BATTERY CAPACITY	2x100 Ah

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

		PD
ROCKFILL	* 2 000 mm (79 in)	—
SAND / GRAVEL	* 1 300 mm (51 in)	—
MIXED SOILS	* 1 000 mm (39 in)	* 1 000 mm (39 in)
SILT	800 mm (31 in)	* 800 mm (31 in)
CLAY	450 mm (18 in)	* 500 mm (20 in)

* Recommended drum type

ENGINE

MANUFACTURER	DEUTZ
ENGINE TYPE	TCD 6.1 L6
POWER ACCORDING TO ISO 14396	160 kW (215 HP)
ENGINE SPEED	2300 rpm
EXHAUST GAS AFTER-TREATMENT	EGR
EMISSION STAGE	EU Stage IIIA / U.S. EPA Tier 3

ARS 220 StIIIA

For additional product information and services please visit: www.ammann.com

Materials and specification data are subject to change without notice.

MSS-1414-07-EN | © Ammann Group

AMMANN