

ARS 220

SINGLE DRUM ROLLER

EU STAGE V / U.S. EPA TIER 4 FINAL

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
- GPS Q-Compaction preparation ACE
- Homologation Italy (plate only)
- 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 vulcolan for smooth drum
- Maintenance Kit 2000h
- Maintenance Kit 1000h
- Maintenance Kit 500h
- Slow moving vehicle triangle
- Tachograph complete
- Telematics Servicelink Plus
- Telematik Servicelink Pro
- Telematics preparation
- Toolset
- Tractor tyres
- Warning beacon LED
- Warning beacon LED green
- Greasing tool

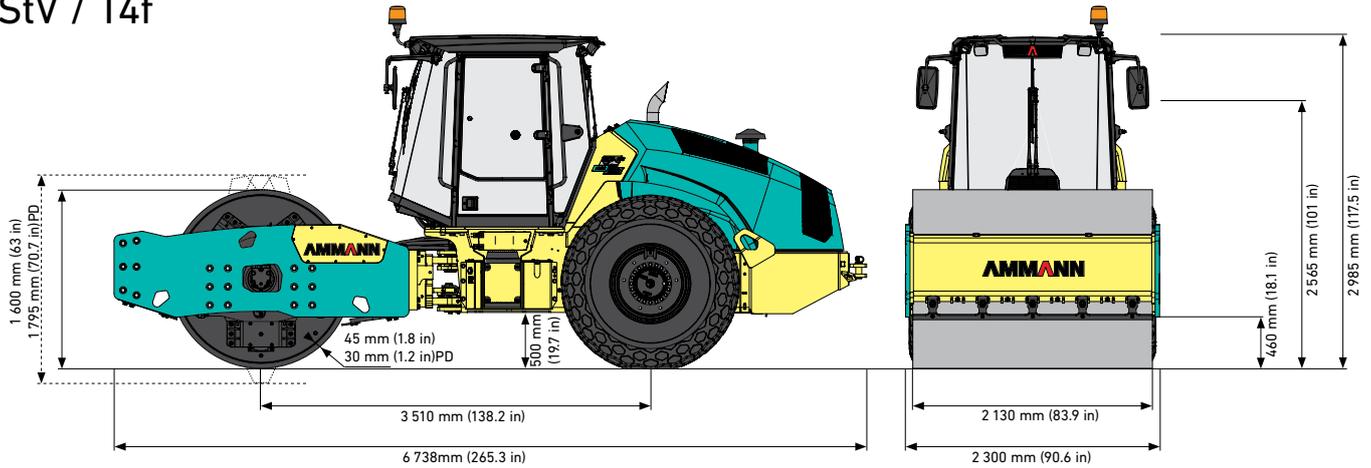
STANDARD EQUIPMENT

- 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
- External draining points
- On-board diagnostics
- ATC - Ammann Traction Control
- Cab and bonnet tilting electro-hydraulic
- Cab ROPS/FOPS
- CE conformity
- Safety cover fan and alternator
- Sun visor
- Tyre ballast -25°C

AMMANN

ARS 220

StV / T4f



WEIGHT & OPERATING CHARACTERISTICS

| | | PD | HX | HXPD |
|--------------------------------|--------------------------|----------------------------------|--------------------------|----------------------------------|
| OPERATING WEIGHT CAB | 22 090 kg (48 700 lb) | 22 220 kg (48 987 lb) | 22 090 kg (48 700 lb) | 22 220 kg (48 987 lb) |
| OPERATING WEIGHT CAB MAX. | 24 620 kg (54 278 lb) | 22 430 kg (49 450 lb) | 24 620 kg (54 278 lb) | 22 430 kg (49 450 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) | |

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

MISCELLANEOUS

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

ENGINE

| | |
|------------------------------|------------------------------------|
| MANUFACTURER | DEUTZ |
| ENGINE TYPE | TCD 6.1 L6 |
| POWER ACCORDING TO ISO 14396 | 160 kW (215 HP) |
| ENGINE SPEED | 2200 rpm |
| EXHAUST GAS AFTER-TREATMENT | EGR+DOC+DPF+SCR |
| EMISSION STAGE | EU Stage V / U.S. EPA Tier 4 Final |

ARS 220 StV

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

Materials and specification data are subject to change without notice.

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