



ARS 220

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

COMPACTION OUTPUT LEADER

Ammann provides industry-leading compaction output while defining new highest standards in efficiency and cost saving through the ARS 220 Soil Compactor.

The machines meet EU Stage V / U.S. EPA Tier 4 Final standards and provide the cleanest and most efficient propulsion. The machines also meet the highest operator standards, with intuitive control via a centralized multifunctional display built into the steering wheel. A wide range of compaction tools such as the ACE^{force} system help operators monitor indications of compaction.

APPLICATIONS

- Airports runways
- Industrial zones
- Dumpsite construction

PRODUCTIVITY

- High compaction output - faster compaction of thicker layers in fewer passes
- No-rear-axle concept – optimal stability and low center of gravity, which significantly improves safety on jobsites
- Variable range of vibration frequencies for added versatility
- ACE^{force} Intelligent Compaction tool for higher compaction efficiency

ERGONOMICS

- Spacious, quiet cab with integrated ROPS structure
- New multifunctional display for intuitive machine control and operation
- Excellent machine visibility with 360° view to machine edges and surroundings
- Innovative travel lever with speed adjustment and wider machine speed range (newly 5+1 speed instead of 3+1)

SERVICEABILITY

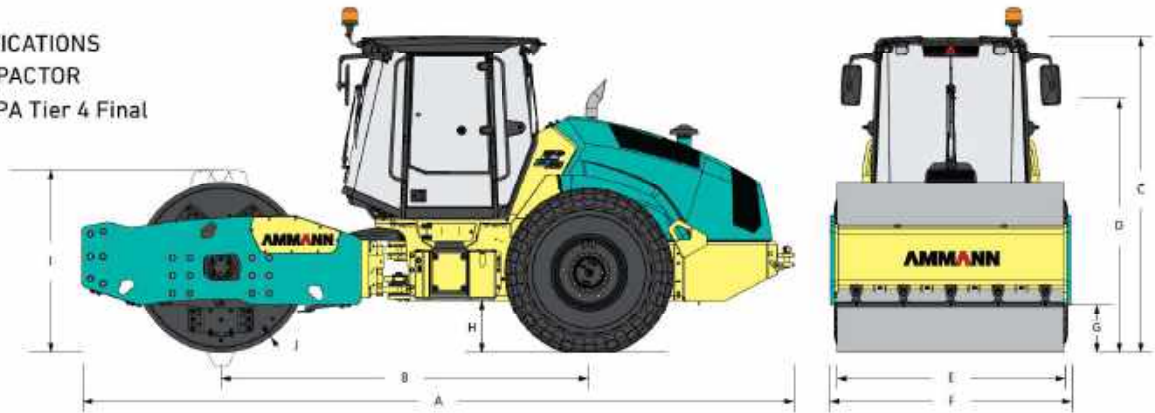
- All service points and engine compartment accessible from the ground
- Wide-opening rear hood for easy and fast daily maintenance
- Tilttable cab for exceptional access to main hydraulic components, which significantly reduces labour
- ECOdrop – machine efficiency and reductions in fuel consumption and required fluids

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

| | | | | |
|----------|---------------|-------------|------|------|
| Rockfill | Sand / Gravel | Mixed Soils | Silt | Clay |
|----------|---------------|-------------|------|------|

AMMANN

TECHNICAL SPECIFICATIONS
ARS 220 SOIL COMPACTOR
EU Stage V / U.S. EPA Tier 4 Final



DIMENSIONS

| | | |
|---|--------------------------------|--------------------------------------|
| A | MACHINE LENGTH | 6738 mm (265 in) |
| B | WHEELBASE | 3510 mm (138.2 in) |
| C | MACHINE HEIGHT | 2950 mm (116.1 in) |
| D | MACHINE HEIGHT (OPERATOR SEAT) | 2250 mm (88.6 in) |
| E | DRUM WIDTH | 2130 mm (83.9 in) |
| F | MACHINE WIDTH | 2300 mm (90.6 in) |
| G | CURB CLEARANCE | 460 mm (18.1 in) |
| H | GROUND CLEARANCE | 500 mm (19.7 in) |
| I | DRUM DIAMETER | 1600 mm (63 in) / *1795 mm (70.7 in) |
| J | DRUM THICKNESS | 45 mm (1.8 in) / *30 mm (1.2 in) |

*PD

ENGINE

| | |
|------------------------------|-------------------------------|
| MANUFACTURER | DEUTZ TCD 6.1 L6 |
| POWER ACCORDING TO ISO 14396 | 160 kW (215 HP)/2300 rpm |
| EXHAUST GAS AFTER-TREATMENT | EGR+DOC+DPF+SCR |
| | EU Stage V / U.S. EPA Tier 4f |

COMPACTION FORCES

| | PD | |
|----------------------|-----------------------------------|-----------------------------------|
| FREQUENCY I | 23–27 Hz (1380–1620 vpm) | 23–27 Hz (1380–1620 vpm) |
| FREQUENCY II | 30–34 Hz (1800–2040 vpm) | 30–34 Hz (1800–2040 vpm) |
| AMPLITUDE I | 2 mm (0.079 in) | 2 mm (0.079 in) |
| AMPLITUDE II | 1 mm (0.039 in) | 1 mm (0.039 in) |
| CENTRIFUGAL FORCE I | 275–375 kN (61,822–84,303 lbf) | 275–375 kN (61,822–84,303 lbf) |
| CENTRIFUGAL FORCE II | 233–300 kN (58,380–67,443 lbf) | 233–300 kN (58,380–67,443 lbf) |

MISCELLANEOUS

| | |
|--------------------|----------------------------|
| BRAKES OPERATING | Hydrostatic |
| BRAKES PARKING | Multiple-disc spring brake |
| BRAKES EMERGENCY | Multiple-disc spring brake |
| FUEL TANK CAPACITY | 350 l (92.4 gal) |
| ARTICULATION ANGLE | ±36° |
| OSCILLATION ANGLE | ±10° |

WEIGHT & OPERATING CHARACTERISTICS

| | HX | PD | HXPD |
|---|--------------------------|--------------------------|----------------------------------|
| OPERATING WEIGHT | 21 930 kg (48,350 lb) | 21 930 kg (48,350 lb) | 22 060 kg (48,630 lb) |
| MAXIMUM WEIGHT | 25 360 kg (55,910 lb) | 25 360 kg (55,910 lb) | 23 170 kg (51,080 lb) |
| STATIC LINEAR LOAD | 66.9 kg/cm (374.6 lb/in) | 66.9 kg/cm (374.6 lb/in) | - |
| PAD CONTACT SURFACE | - | - | 143 cm ² (22.2 sq in) |
| PAD HEIGHT | - | - | 120 kg (4.7 lb) |
| MAX. TRANSPORT SPEED | 12 km/h (7.46 mph) | 11 km/h (6.84 mph) | 12 km/h (7.46 mph) |
| MAX. WORKING SPEED | 7 km/h (4.35 mph) | 7 km/h (4.35 mph) | 7 km/h (4.35 mph) |
| CLIMBING ABILITY WITHOUT / WITH VIBRATION | 55 / 50 % | 60 / 55 % | 55 / 50 % |
| TURNING RADIUS (INNER) | 4370 mm (172 in) | 4370 mm (172 in) | 4370 mm (172 in) |

STANDARD EQUIPMENT

- ATC (Ammann Traction Control)
- Smooth drum
- Multiple frequencies / 2 amplitudes vibration system
- Multifunctional operator display
- Electrohydraulic cab and hood tilting
- Working lights head and rear
- Hydraulic test ports on components
- Diamond tread tires
- Telematics ready

OPTIONAL EQUIPMENT

- ACE™
- PD Drum (or PD Shell Kit)
- HX Drive version
- Air Condition for cab
- Radio with CD
- 360° Illumination Kit
- Ammann Toolkit
- Road lighting
- Warning beacon
- Back-up alarm
- Centralised hydraulic test ports
- Tractor tires