

# ARS 150

## SOIL COMPACTOR

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



## EXCELLING WHEREVER IT GOES

The compact design of Ammann ARS Soil Compactors improves manoeuvrability and flexibility, making the machines exceptionally productive. Safety is maximised through a new cab design that provides operators with 360° visibility and an intuitive, conveniently located control display. The proprietary ACE<sup>force</sup> Intelligent Compaction system, which offers absolute compaction measurement and optional documentation, improves efficiency and quality. The availability of a wider range of centrifugal forces make the machine a perfect fit for many applications and varied materials.

## APPLICATIONS

- Medium and large jobsites
- Railways
- Harbours
- Motorways
- Structure backfill work
- Airfields
- 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<sup>force</sup> 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

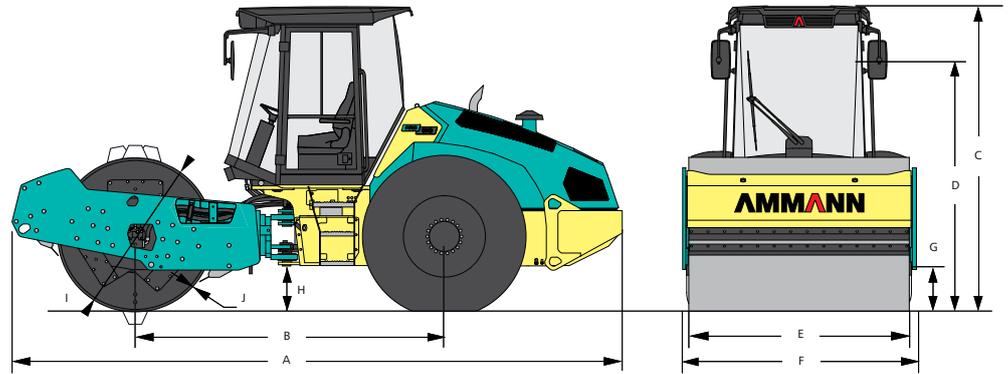
MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

|              | Rockfill          | Sand / Gravel    | Mixed Soils      | Silt             | Clay             |
|--------------|-------------------|------------------|------------------|------------------|------------------|
| ARS 150      | * 1200 mm (47 in) | * 800 mm (31 in) | * 700 mm (28 in) | 500 mm (20 in)   | 300 mm (12 in)   |
| ARS 150 (PD) | -                 | -                | * 700 mm (28 in) | * 500 mm (20 in) | * 350 mm (14 in) |

\* Recommended drum type

# AMMANN

TECHNICAL SPECIFICATIONS  
ARS 150 SOIL COMPACTOR  
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## DIMENSIONS

|   |                               |                    |
|---|-------------------------------|--------------------|
| A | MACHINE LENGTH                | 5950 mm (234.3 in) |
| B | WHEELBASE                     | 3040 mm (119.7 in) |
| C | MACHINE HEIGHT                | 2970 mm (116.9 in) |
| D | MACHINE HEIGHT (REMOVED ROPS) | 2200 mm (86.6 in)  |
| E | DRUM WIDTH                    | 2130 mm (83.9 in)  |
| F | MACHINE WIDTH                 | 2260 mm (89 in)    |
| G | CURB CLEARANCE                | 408 mm (16.1 in)   |
| H | GROUND CLEARANCE              | 450 mm (17.7 in)   |
| I | DRUM DIAMETER                 | 1500 mm (59.1 in)  |
| J | DRUM THICKNESS                | 35 mm (1.4 in)     |

## WEIGHT & OPERATING CHARACTERISTICS

|   | ARS 150               | ARS 150 (PD)                     |
|---|-----------------------|----------------------------------|
| OPERATING WEIGHT                          | 14 840 kg (32 720 lb) | 15 160 kg (33 420 lb)            |
| MAXIMUM WEIGHT                            | 18 610 kg (41 030 lb) | 17 415 kg (38 390 lb)            |
| STAT. LIN. LOAD OF FRONT DRUM             | 43.4 kg (243 lb)      | -                                |
| PAD CONTACT SURFACE                       | -                     | 120 cm <sup>2</sup> (18.6 sq in) |
| PAD HEIGHT                                | -                     | 100 mm (3.9 in)                  |
| MAX. TRANSPORT SPEED                      | 12.7 km/h (7.9 MPH)   | 12.7 km/h (7.9 MPH)              |
| MAX. WORKING SPEED                        | 6.5 km/h (4 MPH)      | 6.5 km/h (4 MPH)                 |
| CLIMBING ABILITY WITHOUT / WITH VIBRATION | 55% / 52%             | 56% / 53%                        |
| TURNING RADIUS (INNER)                    | 3570 mm (140.6 in)    | 3570 mm (140.6 in)               |

### STANDARD EQUIPMENT

- CE conformity
- Cab with ROPS structure
- Smooth drum with steel scrapers
- Multiple frequencies / 2 amplitudes vibration system
- External draining points
- Working headlights (front and rear)
- Inter wheel flow divider
- Ergonomic and suspended operator seat
- Multifunctional operator display

## ENGINE

|                              |                                    |
|------------------------------|------------------------------------|
| MANUFACTURER                 | Deutz TCD 4.1L4                    |
| POWER ACCORDING TO ISO 14396 | 115 kW (154 HP)                    |
| EXHAUST GAS AFTER-TREATMENT  | DOC+DPF+SCR                        |
|                              | EU Stage V / U.S. EPA Tier 4 Final |

## COMPACTION FORCES

|                      | ARS 150               | ARS 150 (PD)          |
|----------------------|-----------------------|-----------------------|
| FREQUENCY I          | 29 Hz (1740 VPM)      | 29 Hz (1740 VPM)      |
| FREQUENCY II         | 35 Hz (2100 VPM)      | 35 Hz (2100 VPM)      |
| AMPLITUDE I          | 2.06 mm (0.081 in)    | 2.06 mm (0.081 in)    |
| AMPLITUDE II         | 0.88 mm (0.035 in)    | 0.88 mm (0.035 in)    |
| CENTRIFUGAL FORCE I  | 325 kN (73 062.9 lbf) | 325 kN (73 062.9 lbf) |
| CENTRIFUGAL FORCE II | 215 kN (48 333.9 lbf) | 215 kN (48 333.9 lbf) |

## MISCELLANEOUS

|                    |                            |
|--------------------|----------------------------|
| BRAKES OPERATING   | Hydrostatic                |
| BRAKES PARKING     | Multiple-disc spring brake |
| BRAKES EMERGENCY   | Multiple-disc spring brake |
| FUEL TANK CAPACITY | 345 l (91.1 gal)           |

### OPTIONAL EQUIPMENT

- Air-conditioning (cab version only)
- Drum - PD version / steel scrapers
- Drum - PD shell kit / steel scrapers
- Smooth drum - vulcalon scrapers
- ACE<sup>force</sup> - Ammann Compaction Expert
- HX drive
- ATC (Ammann Traction Control)
- Warning beacon
- Backup alarm