

ARX 90

ARTICULATED TANDEM ROLLER
EU Stage IV / US EPA Tier 4 Final



MEETING THE HIGHEST STANDARDS

The Ammann ARX 90 Tandem Roller provides features and benefits that ultimately lead to added value for owners of the heavy compactor. It also meets EU Stage IV / US EPA Tier 4 Final emissions standards. Compaction output is high and the system efficient. Each drum has an independent vibratory pump. The roller also features a heavy-duty, two-stage vibrator and easy adjustment of amplitude and frequency. The optional ACE^{force} system provides a host of benefits including measurement and documentation, evaluation of material stiffness, operator guidance and documentation.

COMPACTION PERFORMANCE

- Independent vibratory pump for each drum
- Heavy-duty, 2-stage vibrator
- Simple adjustment of amplitude/frequency

EASY CONTROL

- Articulated steering
- Oscillating articulation joint
- 170 mm crab steering (both sides)

OPERATOR FRIENDLY

- Spacious, comfortable and quiet cab
- Multifunctional display in steering wheel
- Tilttable and adjustable steering column
- Control switches on armrest

EFFORTLESS MAINTENANCE

- On-board diagnostics
- Easy access to all service points
- Single-drive pump for reduced maintenance

PRODUCTIVE OPTIONS

- Optional ACE^{force} system guides operators, measures and documents and evaluates material stiffness
- Combination version available
- Chip spreader for project flexibility

EXCELLENT VISIBILITY

- Excellent visibility to drum surfaces, edges and spraying bars
- Rotating and sliding seat

APPLICATIONS

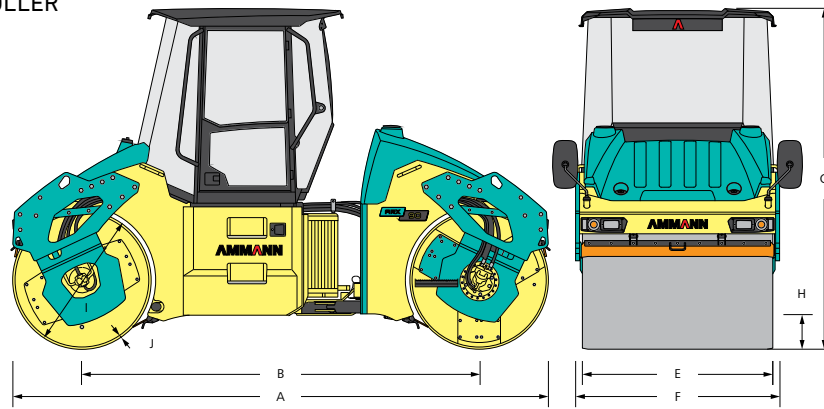
- Small and medium jobsites
- Local transport construction (municipal and town roads)
- Building construction (houses and industrial zones)

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

| | Sand / Gravel | Mixed Soils | Silt | Clay | Stabilisation | Asphalt |
|--------|---------------|---------------|------|------|---------------|-----------------|
| ARX 90 | 0.4 m (16 in) | 0.3 m (12 in) | - | - | 0.2 m (8 in) | 0.14 m (5.5 in) |

AMMANN

TECHNICAL SPECIFICATIONS
ARX 90 ARTICULATED TANDEM ROLLER
EU Stage IV / US EPA Tier 4 Final



DIMENSIONS

| | | |
|---|-------------------------------------|--------------------|
| A | MACHINE LENGTH | 4720 mm (185.8 in) |
| B | WHEELBASE | 3500 mm (137.8 in) |
| C | MACHINE HEIGHT | 3000 mm (118.1 in) |
| D | MACHINE HEIGHT (REMOVED CAB / ROPS) | – |
| E | DRUM WIDTH | 1680 mm (66.1 in) |
| F | MACHINE WIDTH | 1800 mm (70.9 in) |
| H | GROUND CLEARANCE | 300 mm (11.8 in) |
| I | DRUM DIAMETER | 1220 mm (48.0 in) |
| J | DRUM SHELL THICKNESS | 19 mm (0.7 in) |

MISCELLANEOUS

| | |
|--------------------|--------------------------|
| BRAKES OPERATING | Hydrostatic |
| BRAKES PARKING | Mechanical multiple-disc |
| BRAKES EMERGENCY | Mechanical multiple-disc |
| FUEL TANK CAPACITY | 220 l (58.1 gal) |
| VOLTAGE | 24 V |

WEIGHT & DRIVING CHARACTERISTICS

| | ARX 90 | ARX 90 HF |
|---|--------------------------|--------------------------|
| OPERATING WEIGHT | 9560 kg (21 080 lb) | 9560 kg (21 080 lb) |
| MAXIMUM WEIGHT | 11 010 kg (24 270 lb) | 11 010 kg (24 270 lb) |
| STAT. LIN. LOAD OF FRONT DRUM | 28.4 kg/cm (159 lb/in) | 28.4 kg/cm (159 lb/in) |
| STAT. LIN. LOAD OF REAR DRUM | 28.5 kg/cm (159.6 lb/in) | 28.5 kg/cm (159.6 lb/in) |
| MAX. TRANSPORT SPEED | 10.5 km/h (6.5 MPH) | 10.5 km/h (6.5 MPH) |
| MAX. WORKING SPEED | – | – |
| CLIMBING ABILITY WITHOUT / WITH VIBRATION | 30% / 25% | 30% / 25% |
| TURNING RADIUS INNER (EDGE) | 5470 mm (215.4 in) | 5470 mm (215.4 in) |
| CRAB MODE | 170 mm (6.7 in) | 170 mm (6.7 in) |

STANDARD EQUIPMENT

- CE conformity
- Open platform with ROPS canopy
- 170° rotating and sliding working station with multifunctional display
- Two stage vibration system (2 frequencies/2 amplitudes)
- Working lights 2 front, 2 rear
- Electronic idle control

COMPACTION FORCES

| | ARX 90 | ARX 90 HF |
|--------------------------------|--------------------|--------------------|
| FREQUENCY I | 42 Hz (2520 VPM) | 46 Hz (2760 VPM) |
| FREQUENCY II | 54 Hz (3240 VPM) | 67 Hz (4020 VPM) |
| FREQUENCY ACE MIN. / MAX. | – | – |
| OSCILLATION FREQUENCY | 40 Hz (2400 VPM) | 40 Hz (2400 VPM) |
| AMPLITUDE I | 0.7 mm (0.028 in) | 0.62 mm (0.024 in) |
| AMPLITUDE II | 0.34 mm (0.013 in) | 0.23 mm (0.009 in) |
| AMPLITUDE ACE MIN. / MAX. | – | – |
| OSCILLATION AMPLITUDE | 1.3 mm (0,051 in) | 1.3 mm (0,051 in) |
| CENTRIFUGAL FORCE I | 84 kN | 97 kN |
| CENTRIFUGAL FORCE II | 68 kN | 70 kN |
| CENTRIF. FORCE ACE MIN. / MAX. | – | – |

ENGINE

| | |
|---|-----------------------------------|
| MANUFACTURER | Deutz TCD3.6 L4 |
| POWER ACCORDING TO ISO 14396 | 74.4 kW (100 HP) |
| MAXIMUM TORQUE | 410/1600 Nm (ft lb)/rpm |
| ENGINE COMPLIES WITH EMISSION REGULATIONS | EU Stage IV / US EPA Tier 4 Final |



OPTIONAL EQUIPMENT

- Ventilated and heated Cab
- Air Condition
- ACE^{force} compaction measurement (absolute values) and ADS documentation system
- GPS mapping for ACE systems
- Telematics-ready
- Chip spreader Ammann
- Edge cutter