

# ARX 110

## ARTICULATED TANDEM ROLLER

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



### HIGH OUTPUT AND EFFICIENCY

The Ammann ARX 110 Tandem Roller provides comfort that helps the operator stay focused throughout the shift and ultimately improves your jobsite productivity. The machine also meets EU Stage IV / U.S. EPA Tier 4 Final emissions standards. Compaction output is high and the system is 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<sup>force</sup> system provides a host of benefits including measurement and documentation, evaluation of material stiffness, operator guidance and documentation.

### PRODUCTIVITY

#### Multiple vibratory frequencies

Varied vibratory settings adjust compaction output for even more precise compaction control and higher quality

#### Advanced articulation joint

Permanent contact with the surface and a wide range of working widths maximises productivity

#### Machine customisation

Options make the machine a perfect match for diverse jobsites and varying customer needs

### ERGONOMICS

#### Multi-functional display

The central display is located in front of the operator for optimal machine control and monitoring

#### Intelligent functions

Integrated advanced functions make machine more operator friendly, intuitive and safe

#### Operator station

An intuitively organized, fully adjustable operator station has all controls located within easy reach

### SERVICEABILITY

#### Accessible engine compartment

Tool-free, wide-opening side doors on the engine compartment

#### Easy-to-reach maintenance points

All service points are conveniently located for easy access

#### Self-diagnostic system

The on-board, automated diagnostic system quickly identifies potential problems

### APPLICATIONS

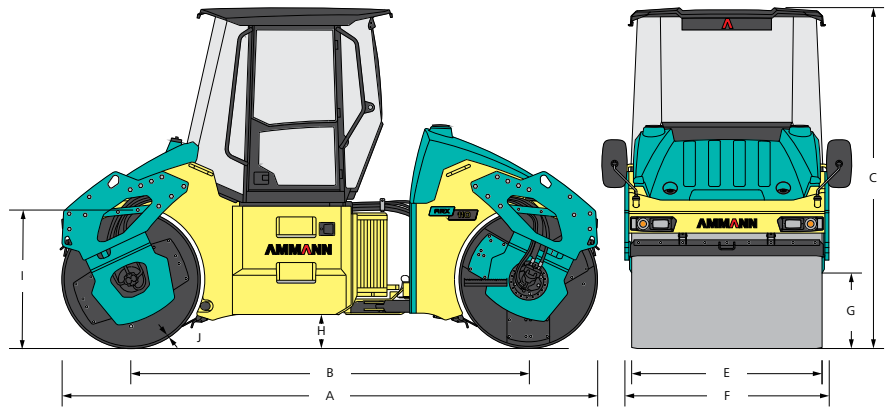
- Medium and large compaction sites
- Transport construction
- Municipal and town roads
- Motorways
- Airport runways
- Housing developments
- Industrial zones
- City centers

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

|         | Sand / Gravel  | Mixed Soils    | Silt | Clay | Stabilisation | Asphalt       |
|---------|----------------|----------------|------|------|---------------|---------------|
| ARX 110 | 0.42 m (17 in) | 0.32 m (13 in) | -    | -    | 0.22 m (9 in) | 0.15 m (6 in) |

# AMMANN

TECHNICAL SPECIFICATIONS  
ARX 110 ARTICULATED TANDEM ROLLER  
EU Stage IV / U.S. EPA Tier 4 Final



**DIMENSIONS**

| Label | Parameter            | Value              |
|-------|----------------------|--------------------|
| A     | Machine length       | 4720 mm (185.8 in) |
| B     | Wheelbase            | 3500 mm (137.8 in) |
| C     | Machine height       | 3000 mm (118.2 in) |
| E     | Drum width           | 1680 mm (66.1 in)  |
| F     | Machine width        | 1800 mm (70.9 in)  |
| G     | Side clearance       | 780 mm (30.7 in)   |
| H     | Ground clearance     | 300 mm (11.8 in)   |
| I     | Drum diameter        | 1220 mm (48.0 in)  |
| J     | Drum shell thickness | 22 mm (0.9 in)     |

**WEIGHT & OPERATING CHARACTERISTICS**

|                                   | ARX 110                | ARX 110 HF             |
|-----------------------------------|------------------------|------------------------|
| Operating weight                  | 10 400 kg (22 930 lb)  | 10 400 kg (22 930 lb)  |
| Operating weight max.             | 11 860 kg (26 150 lb)  | 11 860 kg (26 150 lb)  |
| Stat. lin. load of front drum     | 31 kg/cm (173.6 lb/in) | 31 kg/cm (173.6 lb/in) |
| Stat. lin. load of rear drum      | 30.9 kg/cm (173 lb/in) | 30.9 kg/cm (173 lb/in) |
| Max. transport speed              | 10.5 km/h (6.5 MPH)    | 10.5 km/h (6.5 MPH)    |
| Gradeability with / without vibr. | 25 % / 30 %            | 25 % / 30 %            |
| Turning radius inner (edge)       | 5470 mm (215.4 in)     | 5470 mm (215.4 in)     |
| Drum offset                       | 170 mm (6.7 in)        | 170 mm (6.7 in)        |

**ENGINE**

|                             |                                     |
|-----------------------------|-------------------------------------|
| Manufacturer                | Deutz TCD3.6 L4                     |
| Power output ISO 14396      | 74.4 kW (100 HP)                    |
| Maximum torque              | 410/1600 Nm (ft lb)/rpm             |
| Emmission class             | EU Stage IV / U.S. EPA Tier 4 Final |
| Exhaust gas after-treatment | EGR+DOC+SCR                         |

**STANDARD EQUIPMENT**

- CE conformity
- ROPS/FOPS Open platform with Plastic roof
- ATC - Ammann Traction Control
- Pressure water sprinkling with interval switch, 3 stage filtration and 2 pumps
- Lockable articulation joint with Oscillation and Offset (Crab mode)
- Foldable scrapers
- 2 amplitudes / Multiple frequencies
- Operator's station with one drive lever (RH)
- 170° Slideable, rotatable and horizontally adjustable driver's seat with armrests
- Multi-functional display for machine control and overview
- Adjustable Steering column
- Road lights (headlights, rearlights, turning signals, brake lights)
- Telematics Ready
- On-Board diagnostics
- Centralized draining points

**COMPACTION FORCES**

|                       | ARX 110                          | ARX 110 HF                       |
|-----------------------|----------------------------------|----------------------------------|
| Frequency I           | 38–42 Hz<br>(2280–2520 VPM)      | 42–46 Hz<br>(2520–2760 VPM)      |
| Frequency II          | 43–52 Hz<br>(2580–3120 VPM)      | 58–67 Hz<br>(3480–4020 VPM)      |
| Amplitude I           | 0.82 mm (0.032 in)               | 0.6 mm (0.024 in)                |
| Amplitude II          | 0.35 mm (0.014 in)               | 0.22 mm (0.009 in)               |
| Centrifugal force I   | 54–78 kN<br>(12 140–17 535 lbf)  | 61–82 kN<br>(13 713–18 434 lbf)  |
| Centrifugal force II  | 98–120 kN<br>(22 031–26 977 lbf) | 88–105 kN<br>(19 783–23 605 lbf) |
| Oscillation frequency | 40 Hz (2400 VPM)                 | 40 Hz (2400 VPM)                 |
| Oscillation amplitude | 1.3 mm (0.051 in)                | 1.3 mm (0.051 in)                |
| Oscillation force     | 77 kN (17 310 lbf)               | 77 kN (17 310 lbf)               |

**MISCELLANEOUS**

|                     |                          |
|---------------------|--------------------------|
| Brakes operating    | Hydrostatic              |
| Brakes parking      | Mechanical multiple-disc |
| Brakes emergency    | Mechanical multiple-disc |
| Fuel tank capacity  | 220 l (58.1 gal)         |
| Water tank capacity | 840 l (222 gal)          |
| Voltage             | 24 V                     |

**OPTIONAL EQUIPMENT**

- Cab with ROPS/FOPS
- Air condition
- Additional Lights 360° LED
- Warning beacon
- Double drum roller
  - Unsplitted drums with HF
- Double drum roller
  - Oscillating rear drum (unsplitted)
- Double drum roller
  - Front HF drum with Oscillating rear drum (unsplitted)
- Infrared thermometer
- Compaction Measuring System ACE<sup>force</sup>
- Chip Spreader Ammann
- Edge cutter
- Rear view camera
- Telematics System ServiceLink (3 Years)
- GPS Q-Compaction
- Backup alarm
- Bio-degradable hydraulic oil
- Customer color
- Sun Films on glasses