

ARX 140

ARTICULATED TANDEM ROLLER

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



CONTROL AT YOUR FINGERTIPS

This is a heavy machine, with a robust vibratory system, too. Ammann makes it easy on operators by integrating fingertip steering (FTS). Its steer-by-wire replaces the traditional steering wheel and allows operators to keep both hands on the armrests for improved comfort.

The symmetrical cab integrates four ROPS posts directly in the main structure and close to doors, not in the cab corners. ROPS posts have been relocated to provide 360° visibility, and sustainability is improved (and ownership costs reduced) through Ammann's ECOdrop initiative. Crab mode, an option, enables work with off-set drums for improved productivity and compaction close to obstructions.

APPLICATIONS

- High-volume asphalt works
- Highways
- Industrial areas
- Airfields

PRODUCTIVITY

Multiple vibration frequencies

Varied vibratory settings increase or decrease compaction output for even more precise compaction control and higher quality.

Sprinkling system

3-stage filtration system with large water tank for extended intervals between fillings

Machine customisation

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

ERGONOMICS

Advanced machine controls

Ergonomic steering system makes the machine operator-friendly and easy to control

Operator station

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

No limits in visibility

Excellent all-around machine visibility for safety on the jobsite

SERVICEABILITY

ECOdrop

Smart machine functions and new technologies improve efficiency and reduce fuel consumption and the amount of required fluids.

Maintenance-friendly design

Tool-free, wide-opening side doors provide access to the engine compartments and service points

Self-diagnostic system

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

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

	Sand / Gravel	Mixed Soils	Silt	Clay	Stabilisation	Asphalt
ARX 140	450 mm (17.7 in)	350 mm (13.7 in)	N/A	N/A	250 mm (9.8 in)	40-160 mm (1.58-6.3 in)

AMMANN

TECHNICAL SPECIFICATIONS
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DIMENSIONS

A	Machine length	5150 mm (202,8 in)
B	Wheelbase	3750 mm (147,6 in)
C	Machine height	3000 mm (118,1 in)
E	Drum width	2130 mm (83,9 in)
F	Machine width	2260 mm (89 in)
G	Curb clearance	990 mm (39 in)
H	Ground clearance	325 mm (12,8 in)
I	Drum diameter	1400 mm (55,1 in)
J	Drum thickness	19 mm (0,7 in)

COMPACTION FORCES

	ARX 140	ARX 140 HF
Frequency I	35-40 Hz (2100-2400 VPM)	38-48 Hz (2280-2880 VPM)
Frequency II	40-50 Hz (2400-3000 VPM)	52-62 Hz (3120-3720 VPM)
Amplitude I	0,82 mm (0,032 in)	0,58 mm (0,023 in)
Amplitude II	0,37 mm (0,015 in)	0,24 mm (0,01 in)
Centrifugal force I	104-136 kN (23 380 - 30 574 lbf)	86-137 kN (19 333-30 799 lbf)
Centrifugal force II	61-96 kN (13 713 - 21 581 lbf)	67-95 kN (15 062-21 357 lbf)

WEIGHT & DRIVING CHARACTERISTIC

	ARX 140	ARX 140 HF
Operating weight CECE	13 300 kg (29 322 lb)	13 300 kg (29 322 lb)
Stat. lin. load	62,4 kg (1376 lb)	62,4 kg (1376 lb)
Travel speed	12 km/h (7,5 miles/h)	12 km/h (7,5 miles/h)
Oscillation angle	± 6°	± 6°
Steering angle	± 33°	± 33°
Turning radius, inner (edge)	5225 mm (205,7 in)	5225 mm (205,7 in)
Drum offset	170 mm (6.7 in)	170 mm (6.7 in)

MISCELLANEOUS

Fuel tank capacity	180 liters (47,5 gallons)
Water tank capacity	1010 liters (266 gallons)
Voltage	12 V

ENGINE

Manufacturer	Perkins 904J
Power output ISO 14396	100 kW (134 HP)
Emission class	EU Stage V / U.S. EPA Tier 4 Final
Exhaust gas after-treatment	EGR+DOC+DPF+SCR

OPTIONAL EQUIPMENT

- Color scheme customer
- Drums double unsplit HF
- Cab with ROPS
- A/C
- A/C without cooling medium
- Radio preparation
- Radio
- Sun films on cab glasses
- Crab mode
- Hydraulic oil biodegradable
- Road lights
- Additional lights 360° LED
- Warning beacon LED
- Warning beacon green LED
- Back-up alarm
- Back-up alarm adaptive
- Registration plate holder
- Edge cutter 45° (front right)
- Edge cutter 45° (front right/front left)
- Edge cutter 45° (diagonal)
- Chip spreader
- Seat belt 3"
- Infrared thermometer
- Compaction measuring system ACE^{force}
- Telematics preparation
- Telematics Topcon
- Telematics trackunit
- Telematics ServiceLink
- GPS Q-compaction preparation
- GPS Q-compaction preparation ACE
- GPS Q-compaction ACE
- ADS (Ammann Documentation System)
- ADS (Ammann Documentation System) RTK
- Rear view camera
- ROPS 2D
- Safety cover
- Sprinkling system second antifreeze pump
- Water tank filling from ground
- Slow moving vehicle triangle
- Toolset
- Fire extinguisher
- Maintenance kit 500h
- Maintenance kit 1000h
- Maintenance kit 2000h
- Engine automatic stop
- CE conformity
- ItaloKit
- Steering control
- Battery disconnection switch
- Container shipment preparation
- Sun visor
- Cooling box
- Certificate of origin
- Additional documentation printed
- Drawbar

STANDARD

- CE conformity
- Open platform with ROPS
- Working lights on platform/cab
- 10" multi-control display with on-board diagnostics
- 270° rotatable & slideable seat
- FTS (Finger Tip Steering)
- 2 smooth drums, multiple frequencies/ 2 amplitude vibratory system
- Ammann color scheme
- Tilttable scrapers
- Central draining points
- Test ports on hydro-components