



Machines

Articulated Tandem Rollers ARX 9-11 t Tier 3/Tier 4i

www.ammann-group.com



The new generation of Ammann ARX 90 and ARX 110 articulated tandem rollers brings to the market a novel design for asphalt compactors. With spacious cabs, innovative layout of operator stations and the latest diesel engines, they mark a new echelon in their class.

The New Articulated Tandem Rollers ARX Tier 4i

Excellent efficiency in environmental synergy

The models fit into the popular weight classes of 9 and 10.5 tons, the world's most common asphalt roller classes.

The dimensions of the machines suit the machines to mid-size and large road projects. The compaction abilities of the machines enable them to compact a wide range of materials and thicknesses of paved layer.

A wide range of options for asphalt application such as Edge cutters, Chip spreaders, Temperature meters and many more, allows for the set up of exact configurations, according to the customer's requirements.

The machine's drums are designed to excel in quality of compaction, especially in the evenness and smoothness of the paved layer. A wide range of options available for the drums, including ACE systems, High Frequency drums*, Pneu axle and Split drum option, allows the machines to be set up for all kinds of work. A huge water tank, with a total capacity of 850 litres, cuts down on the number of refilling stops.

Environmentally conscious

The new EU Stage IIIb/Tier 4 interim engines provide environmentally conscious power. The latest after treatment technology uses an EGR+DOC system to cut out up to 80% more dangerous pollution than Tier 3 engines. New, high efficiency engines, together with the automatic idle control system, result in fuel savings of up to 10%, compared to machines with Tier 3 engines.

Innovative operator station

The operator station unifies a comfortable seat, a multifunctional display in the centre of the steering wheel, and arm rests with integrated machine control instruments. The colour monitor is designed as a multifunctional gauge, which provides all important information and also serves as the controller for machine parameters such as speed, frequency of vibration, sprinkler system and so on. The location of the display in the centre of the steering wheel means the operator has the display permanently in sight.



Easy handling for the best compaction results

The machine provides the highest level of comfort, thanks to a huge cabin, easy controls, and intuitive handling. The operator station is moveable along the entire length of the cab, to provide clear visibility onto the drum surface and edges.



Engine compartment

- New diesel engine EU Stage IIIb/ Tier 4 interim
- All maintenance and service points easily accessible

Operator comfort

- Turnable and slideable operator station
- Multifunctional display located in operation station
- All controllers for machine's main functions are located on armrests
- Spacious cab with integrated ROPS structure

Traction and steering

- Smooth riding behavior and sensitive steering
- ATC difflock
- Smooth start/stop function

Compaction and working features

- Fluently adjustable frequency
- CCC systems ACE^{force} and ACE^{pro}
- Kombi axle with emulsion sprinkling system
- Edge cutters and side compacting wheels
- Temperature meter
- Night illumination kit (front and rear LED head lights, drum edge lights and illumination of engine compartment)

Safety and protection

- Large protective screens of all rotating parts in engine compartment
- Water filling from ground
- "Loading mode" for machine upload and unload from trailer
- Anti-theft protection – immobilizer function

Service and maintenance

- Daily maintenance points are accessible from ground level via huge side doors
- Filling and draining points for service fluids are centralized for easy and fast fluid exchange
- Accessible and easy cleanable cooler



Precise measurement



The new generation of ACE systems for asphalt application offers a unique combination of precise measurement and evaluation of the compaction process. The systems are able to identify the required compaction degree and evaluate the recorded values. Active temperature controls monitor optimal asphalt temperature, and warn the operator if the material's temperature is out of the required range.

ACE^{force}

The new compaction meter for asphalt application measures the absolute value of bearing capacity of the compacted material. Active temperature control gives operator a quick overview about asphalt conditions.

ACE^{pro}

Ammann's unique system adjusts the parameters of vibration according to the actual value of the bearing and the temperature of the compacted material. Automatic adjustment of the frequency and amplitude, visualization of the optimal speed range. Amplitude is adjustable from 0 to 0,8 mm. No wearing of the drum, thanks to cyclic vibration.

ACE^{force} and ACE^{pro}

ACE systems can be supported with GPS mapping systems. Clear visualization of non-compacted spots, temperature at start/end of compaction.

All measured values can be displayed and evaluated:

- load bearing capacity of material
- number of passes
- values of frequency and amplitude
- temperature





Technical Specifications

Standard

- CE conformity
- Engine EU Stage IIIb/EPA Tier 4 interim
- Cabine, ventilated and heated
- Rotating and sliding working station with multifunctional display
- Two drums
- Two stage vibration system (2 frequencies/2 amplitudes)
- Working lights 2 front, 2 rear
- Smooth drum with vulcolan scrapers
- Inter-axle diff lock
- Electronic idle control

Optional items

Cab options

- Air Condition
- Radio with CD
- 170° rotating working station

CCC technology

- ACE^{pro} - compaction measurement (absolute) and regulation of vibration parameters
- ACE^{force} - compaction measurement (absolute)
- GPS mapping for ACE systems

Service and maintenance options

- Ammann Toolkit
- Consumable spare parts for the first 2000 h
- Warranty program „Awesome“

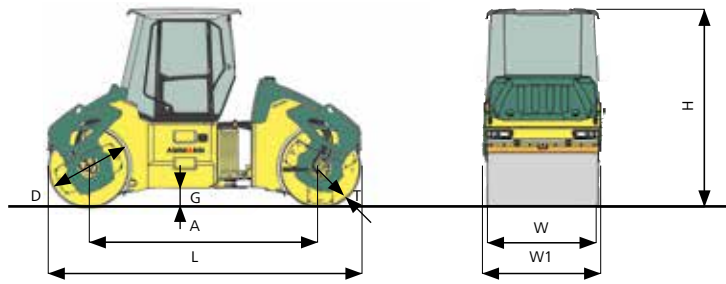
Application options

- Pneu-tire axle with emulsion sprinkling and thermal aprons
- Chip spreader Ammann
- Universal preparation for multiple chip spreaders
- Edge cutter (one or two)
- Bio. degradable hydraulic oil (Panolin)

Lighting and Road homologation options

- Night illumination kit
- Warning beacon
- SMW triangle
- Holder for licence plate
- Back-up alarm





Dimensions (mm)	A	D	G	H	L	T	W	W1
ARX	3500	1220	300	3000	4720	19/22	1680	1800



Edge cutter



Sprinkling bar



		ARX 90	ARX 90	ARX 110
		Tier 3	Tier 4i	Tier 4i
Weights				
Operating weight CECE	kg	9540	9540	10310
Operating weight max.	kg	10970	10970	11740
Static linear load	kg/cm	28,9/27,8	28,9/27,8	30,7/30,7
VT classification		VT 2	VT 2	VT 2
Drum				
Drum width	mm	1680	1680	1680
Drum offset max.	mm	170	170	170
Compaction width max.	mm	1850	1850	1850
Drum diameter	mm	1220	1220	1220
Drum thickness	mm	19	19	22
Engine				
Producer		DEUTZ	DEUTZ	
Type		TCD 3.6 L4	TCD 3.6 L4	
Emission stage		EU Stage IIIa/EPA Tier 3	EU Stage IIIb/EPA Tier 4 interim	
Output according to ISO 14396	kW/HP	74/99	74/99	
Drive				
No. of speeds		6	6	6
Max. working speed	km/h	7	7	7
Max. transport speed	km/h	11	11	11
Theoretical gradeability	%	25/30	25/30	25/30
Steering				
Turning radius inside	mm	5470	5470	5470
Steering and oscillating angle	± °	31/6	31/6	31/6
Vibration				
Amplitudes	mm	0,34/0,7	0,34/0,7	0,35/0,82
Amplitudes ACE	mm	0 - 0,8	0 - 0,8	0 - 0,8
Frequencies	Hz	52/42	52/42	52/42
Frequencies ACE	Hz	35 - 55	35 - 55	35 - 55
Centrifugal forces	kN	70/96	70/84	78/120
Centrifugal forces ACE	kN	111	111	111
Capacities				
Fuel	Lt	210	210	210
Sprinkling water tanks capacity	Lt	850	850	850
Emulsion sprinkling (for Kombi version only)	Lt	24	24	24

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