



ARX 91

ARTICULATED TANDEM ROLLER

EFFICIENT COMPACTION

A unique propulsion system powers the Ammann ARX 91 Articulated Tandem Roller, helping it efficiently deliver the weight and vibration necessary to achieve optimum compaction results. A combination of drum dimensions, frequencies and amplitudes also help deliver the desired results.

COMPACTION OUTPUT

- Powerful combination of drum dimensions, frequencies and amplitudes
- 2 amplitudes and frequencies
- Balanced drum dimensions

OPERATOR PLATFORM

- Excellent view to drum surface, edges and sprinkling system
- Rotating/sliding seat

ENGINE

- Fuel efficient highly durable engine

MOBILITY

- Ideal steering angle and efficient design

EFFORTLESS OPERATION

- 2 drive levers for easy operation
- Convenient control locations
- Easy-to-see operator display
- Simple adjustment of amplitude and frequency

EASY MAINTENANCE

- Reliable, long-life vibration system
- Convenient access to service points and fluid ports

APPLICATIONS

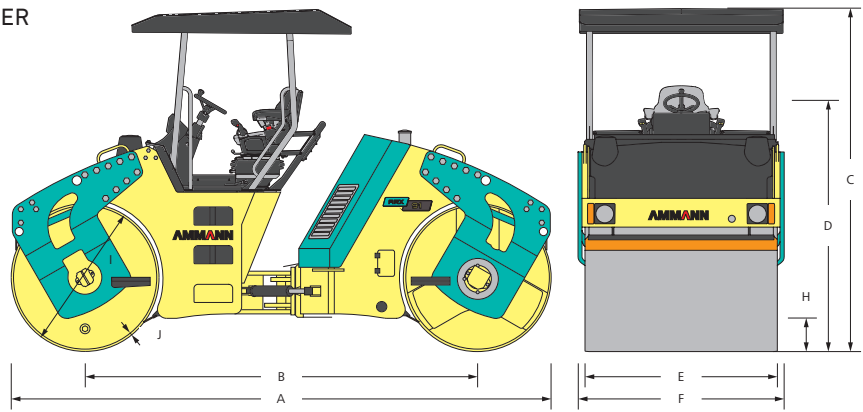
- Medium and large sized compaction works
- Transport construction (motorways, railways, airfields)
- Building construction (industrial zones, harbours)

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

	Sand / Gravel	Mixed Soils	Silt	Clay	Stabilisation	Asphalt
ARX 91	0.42 m	0.32 m	–	–	0.22 m	0.15 m

AMMANN

TECHNICAL SPECIFICATIONS
ARX 91 ARTICULATED TANDEM ROLLER



DIMENSIONS

A	MACHINE LENGTH	4720 mm
B	WHEELBASE	3450 mm
C	MACHINE HEIGHT WITH CANOPY	3000 mm
D	MACHINE HEIGHT (REMOVED CAB/ROPS)	2350 mm
E	DRUM WIDTH	1700 mm
F	MACHINE WIDTH	1818 mm
H	GROUND CLEARANCE	290 mm
I	DRUM DIAMETER	1220 mm
J	DRUM SHELL THICKNESS	17 mm

WEIGHT & DRIVING CHARACTERISTIC

OPERATING WEIGHT	9200 kg
AXLE LOAD - FRONT	4645 kg
AXLE LOAD - REAR	4555 kg
STATIC LINEAR LOAD, FRONT	27.3 kg/cm
STATIC LINEAR LOAD, REAR	26.8 kg/cm
TRANSPORT SPEED (MAX)	12 km/h
WORKING SPEED (MAX)	7 km/h
CLIMBING ABILITY	40 %
TURNING RADIUS INNER (EDGE)	4650 mm
KERB CLEARANCE	691 mm
STEERING ANGLE	±35°
OSCILLATION ANGLE	±10°

ENGINE

MANUFACTURER	Cummins 4B3.3TAA-60-C
POWER ACCORDING TO ISO 3046-1	60 kW (80 HP) @ 2200 rpm
NO. OF CYLINDERS	4
TYPE OF COOLING	Water
EMISSION REGULATIONS	Bharat Stage III (equivalent to T3)

STANDARD EQUIPMENT

- Open driver's platform with railing and protection against vandalism
- 2 amplitudes and 2 frequencies
- Hydrostatic drive front and rear drums
- Rotating and sliding operator's station
- Adjustable seat and steering column
- Pressurized sprinkling system
- Working lights front and rear
- Scrapers

COMPACTION FORCES

FREQUENCY (LOW)	42 Hz
FREQUENCY (HIGH)	55 Hz
AMPLITUDE (LOW)	0.35 mm
AMPLITUDE (HIGH)	0.7 mm
CENTRIFUGAL FORCE (LOW)	67 kN
CENTRIFUGAL FORCE (HIGH)	78 kN

MISCELLANEOUS

DRIVE SYSTEM	Axial piston - closed loop
VIBRATION SYSTEM	Axial piston - closed loop
STEERING SYSTEM	Gear pump
BRAKES OPERATING	Hydrostatic
BRAKES PARKING	Mechanical multiple-disc
FUEL TANK CAPACITY	200 l
WATER TANK CAPACITY	1000 l
HYDRAULIC TANK CAPACITY	52 l
BATTERY VOLTAGE	12 V
BATTERY RATING	130 AH



OPTIONAL EQUIPMENT

- Sunshade hard canopy
- Toolkit
- Service kit for 500h (engine air filters)
- Warning beacon
- Asphalt thermometer
- Edge cutter
- Fire extinguisher