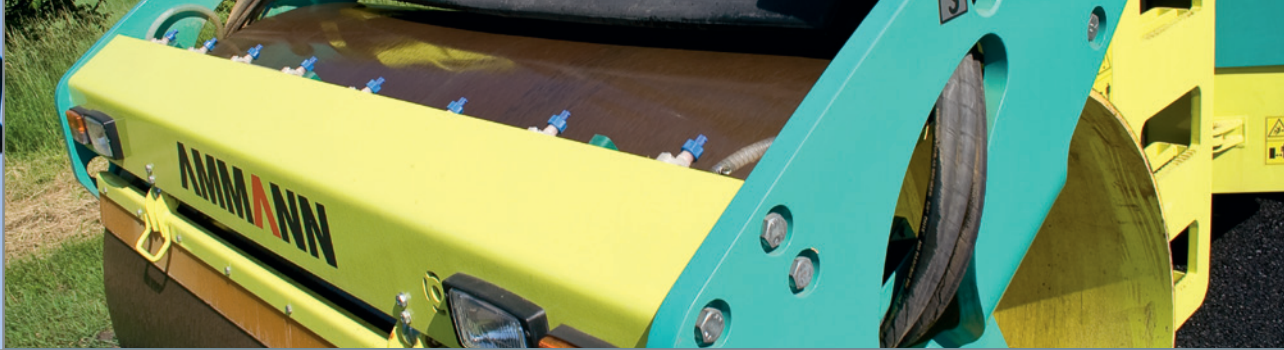




Machines

## Articulated Tandem Rollers AV 70 X / 80 X4 / 110 X / 130 X

[www.ammann-group.com](http://www.ammann-group.com)



## Innovative technology of the articulated Tandem Roller AV X

The AV articulated Tandem Roller focuses on a high compaction performance and high standards for the drivers comfort and safety. The concept combines easy operation with long service intervals.

The new Ammann tandem rollers of the AV X line were developed for the demand of today's road building projects worldwide to compact asphalt sub-layers, wearing course and next to gravel and soils. The striking new design provides a masterful visual reflection of the rollers combination of high compaction and driver's comfort.

AV 70 X/ 80 X4 / 110 X and AV 130 X are based on two frames connected by double joint enabling a crab-steering of 160 mm (180 mm) both sides. The driver controls the roller from an ergonomic designed panoramic cab on the front frame. The concept offers excellent visibility to the sprinkler system, drum surface and edges as well as all-round visibility to the whole working area.

The heavy AVX line has a unique drive propulsion system. The power train is situated in the rear frame. Independent pumps for drive and vibration secure an optimal traction and compaction force of the roller. Excellent compaction results are achieved by optimal combination of drum dimensions, frequencies and amplitudes.

The light rollers of 7 and 8 ton weight are available in versions that have one-piece drums and split drums. These are intermediate machines that use minimal turning radius to a great extent. It is because these machines are used in medium to small job sites where higher manoeuvrability is required. So for these applications there are split-type versions available with no risk of cracks on the surface of a layer compacted. In addition, concerning standard design the split-type version has its ATC lock between all 4 halves of the drums.





## Articulated Tandem Rollers

AV 70 X / 80 X4 / 110 X / 130 X



### Cab

- Integrated ROPS/FOPS
- Ventilation and heating
- Excellent view to the drum surface, edges and sprinkling system
- One-seat working place: swivelling and sliding within the entire width of the cab
- Adjustable steering wheel for ultimate driver's comfort
- Two drive levers for easy hands operation at both side of cab and adjustable seat



### Drums

- Two amplitudes and two frequencies for optimal compaction of the different job sites applications
- Balanced Drums dimensions minimize the risk of asphalt waves
- Reliable long-life vibration system
- Back-up sprinkling system by use of two water pumps
- Large water tanks for long filling intervals



### Service and Maintenance

- Excellent access to the engine service points by wide hoods
- All control and lubrication ports reachable from the ground
- Cabine isolated against heat and vibration
- Best access to the sprinkling nozzles



### Drive and control

- Double pump system drives both drums independently (AV 110 X / AV 130 X)
- Excellent traction even in difficult terrains
- Double joint enabling crab-steering of 160 (180) mm both sides
- Unique manoeuvrability achieved by a large steering angle and general machine compactness



#### **Ergonomics:**

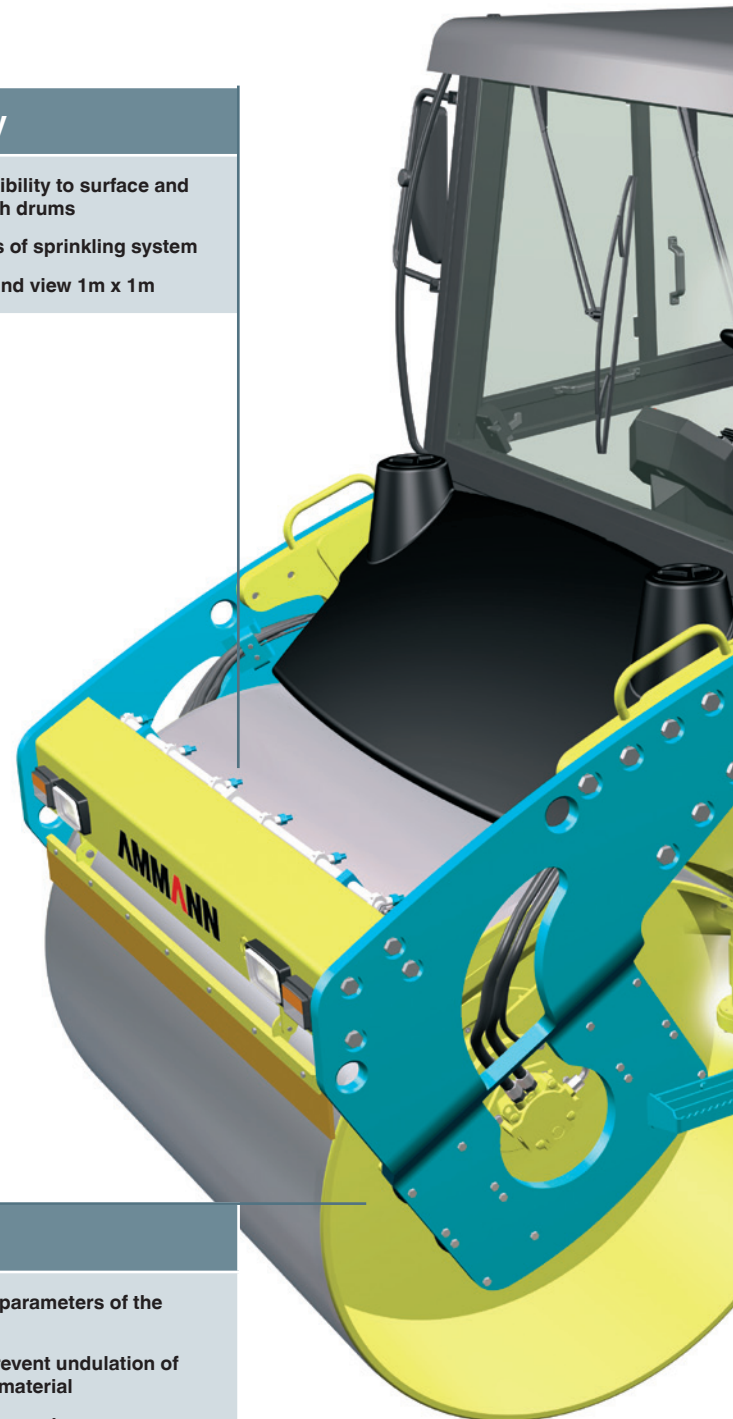
Two drive levers for easy hands operation at both sides of cab

#### **Visibility**

Excellent visibility to surface and edges of both drums

Good access of sprinkling system

Best all-around view 1m x 1m



#### **Drum**

Optimized parameters of the vibration

Drum size prevent undulation of compacting material

Reliable construction arrangement of exciter mechanism

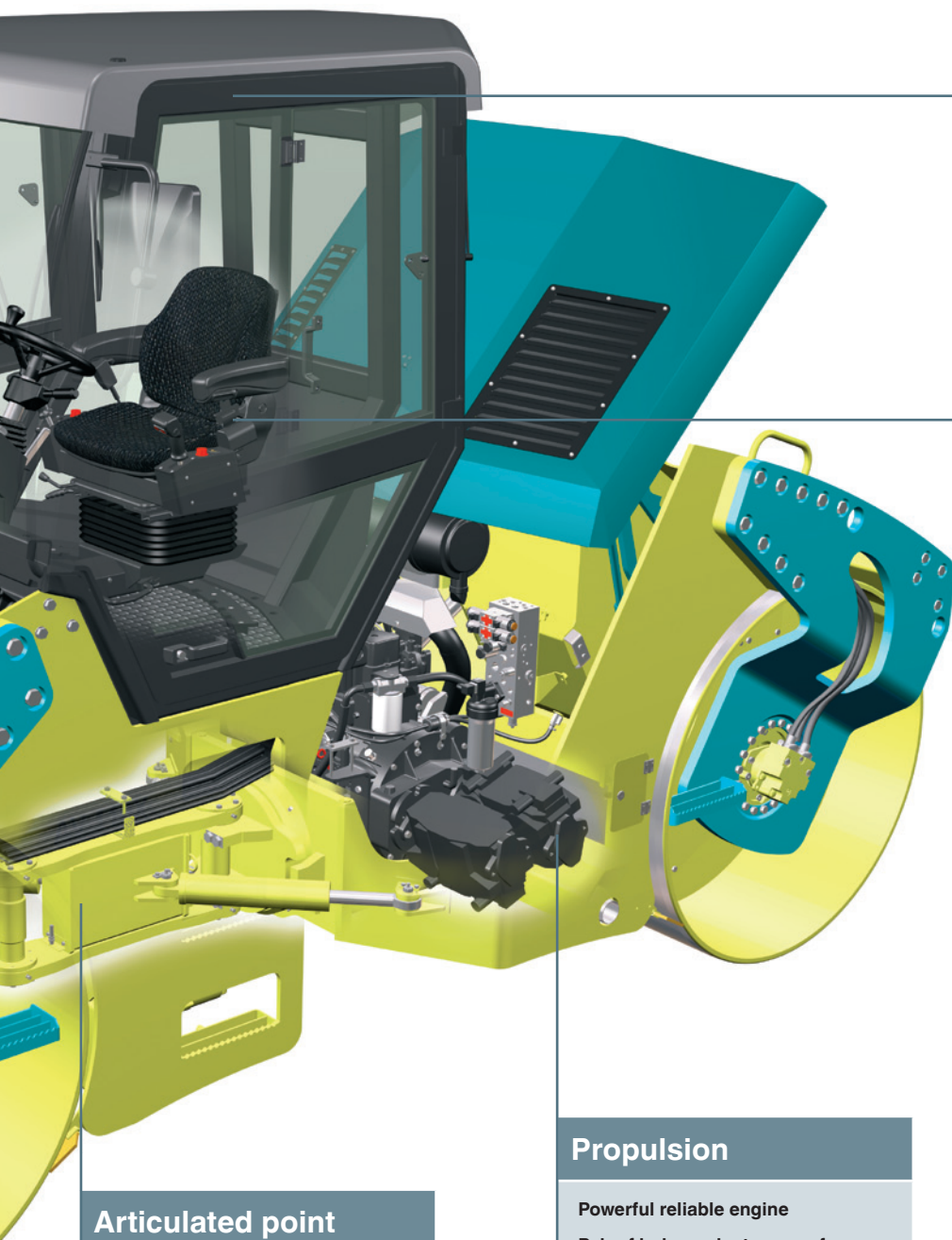
Split-type version available with AV 80 X4

**AV 70 X / 80 X4 / 110 X / 130 X**  
**Articulated Tandem Rollers**



◀ **Visibility:**  
Open view over both drums  
and sprinkling

▶ **Practicality:**  
Fast-tilting scrapers are  
optional



### Cab

- Roomy well glassed cab
- Maximal operator's comfort
- Optimal layout of all controllers
- Well-arranged dashboard

### Driver's working place

- Sliding and swivelling seat within the comfort cabin
- Safe ROPS/FOPS – protection
- Two drive levers
- Adjustable steering wheel and seat

### Articulated point

- Double joint articulation point
- Crab mode possible
- Perfect manoeuvrability

### Propulsion

- Powerful reliable engine
- Pair of independent pumps for motion and vibration
- Low fuel consumption
- Long maintenance and service intervals
- \*ATC between "4 drums"  
(AV 80 X4)



## Technical data and specifications

		AV 70 X	AV 80 X4
<b>Capacity</b>			
Operating weight maximum	kg	7715	8260
Compacting width	mm	1450	1600
Drum offset	mm	180	180
<b>Weights</b>			
Operating weight (CECE)	kg	7365	7630
Front drum load (CECE)	kg	3990	3820
Rear drum load (CECE)	kg	3725	3820
Front drum linear load	kg/cm	24,9	23,9
Rear drum linear load	kg/cm	24,9	23,9
<b>Steering</b>			
Steering angle (+ -)	°	34	35
Oscillation angle (+ -)	°	8	8
Turning radius inner (edge)	mm	5325	4600
Transversal stability - straight	°	32	32
<b>Riding characteristic</b>			
Maximal speed	km/h	11,4 (10-CE)	11.4 (10-CE)
Gradeability without vibration	%	45	45
Gradeability with vibration	%	35	35
<b>Brakes</b>			
Operation		Hydrostatic	Hydrostatic
Parking		Multi disc	Multi disc
Emergency		Multi disc	Multi disc
<b>Vibration</b>			
Amplitudes	mm	0.6 / 0.33	0.6 / 0.33
Frequencies	Hz	48 / 62	48 / 62
Centrifugal forces	kN	80 / 72	80 / 72
<b>Watering</b>			
Watering		Pressure	Pressure
No. of pumps		2	2
Water filtration stages		3	3
<b>Capacities</b>			
Fuel	lt	110	110
Water	lt	600	600
<b>Electrical Installation</b>			
Voltage	V	12	12
Capacity of batteries	Ah	100	100
<b>Engine</b>			
Make		Cummins	Cummins
Type		BTAA 3.3-C80	BTAA 3.3-C80
Rated power	kW	60	60
Standard		ISO 3046/1 (DIN6271)	ISO 3046/1 (DIN6271)

Dimensions (mm)	A	D	G	H	H1	H2	L	T	W	W1	W2
AV 70 X	3260	1150	240	2950	2300	755	4410	15	1450	1540	45
AV 80 X4	3260	1150	306	3000	2300	755	4410	20	1600	1730	45
AV 110 X	3460	1300	290	3000	2380	760	4760	22	1700	1822	61
AV 130 X	3540	1350	340	3050	2430	785	4890	20	2100	2220	60

Technical data subject to change without notice. Illustrations may show optional equipment.



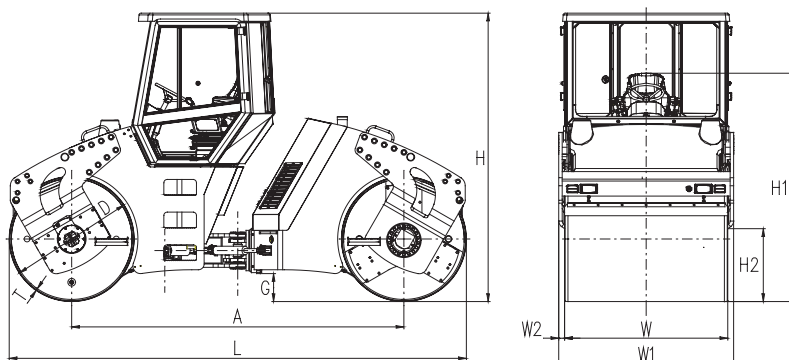
AV 110 X	AV 130 X
11 000	13 620
1700	2100
160	160
10400	13030
5250	6250
5150	6250
30.9	29.8
30.3	29.8
35	36
6	6
4650	3730
30	30
12	11.4
40	40
35	35
Hydrostatic	Hydrostatic
Multi disc	Multi disc
Multi disc	Multi disc
0.7 / 0.35	0.8 / 0.4
45 / 55	42 / 55
110 / 83	130 / 100
Pressure	Pressure
2	2
3	3
200	200
1000	1000
12	12
100	100
Cummins	Cummins
QSB 3.3-C99	QSB4.5-C130
74	97
ISO 3046/1 (DIN6271)	ISO 3046/1 (DIN6271)

## Standard items

- CE conformity – ROPS, TIER II, seat switch
- ROPS/FOPS cab with sliding and rotating driver seat
- Ventilated+heated
- Adjustable steering wheel
- Speed pre-selector
- 2 mode vibratory system
- Hydrostatic propulsion, front+rear
- Working lights + turning indicators and back up lights
- Sprinkling system
- Back-up alarm
- Vulkolan scrapers
- Inter axle dif. lock

## Optional items

- Open platform with rails + vandal cover
- ROPS frame onto platform
- Canvas canopy (black, yellow), mounted on ROPS frame
- Canvas canopy (black, yellow)
- Air conditioning
- Radio with MP3 player
- Edge cutter + press wheel
- Thermometer
- Backing horn
- Additional working lights on cab 2+2
- Tiltable scrapers
- Warning beacon
- Back-up alarm
- Tools kit
- First service kit
- Fire extinguisher
- Add. documentation set
- Special painting



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