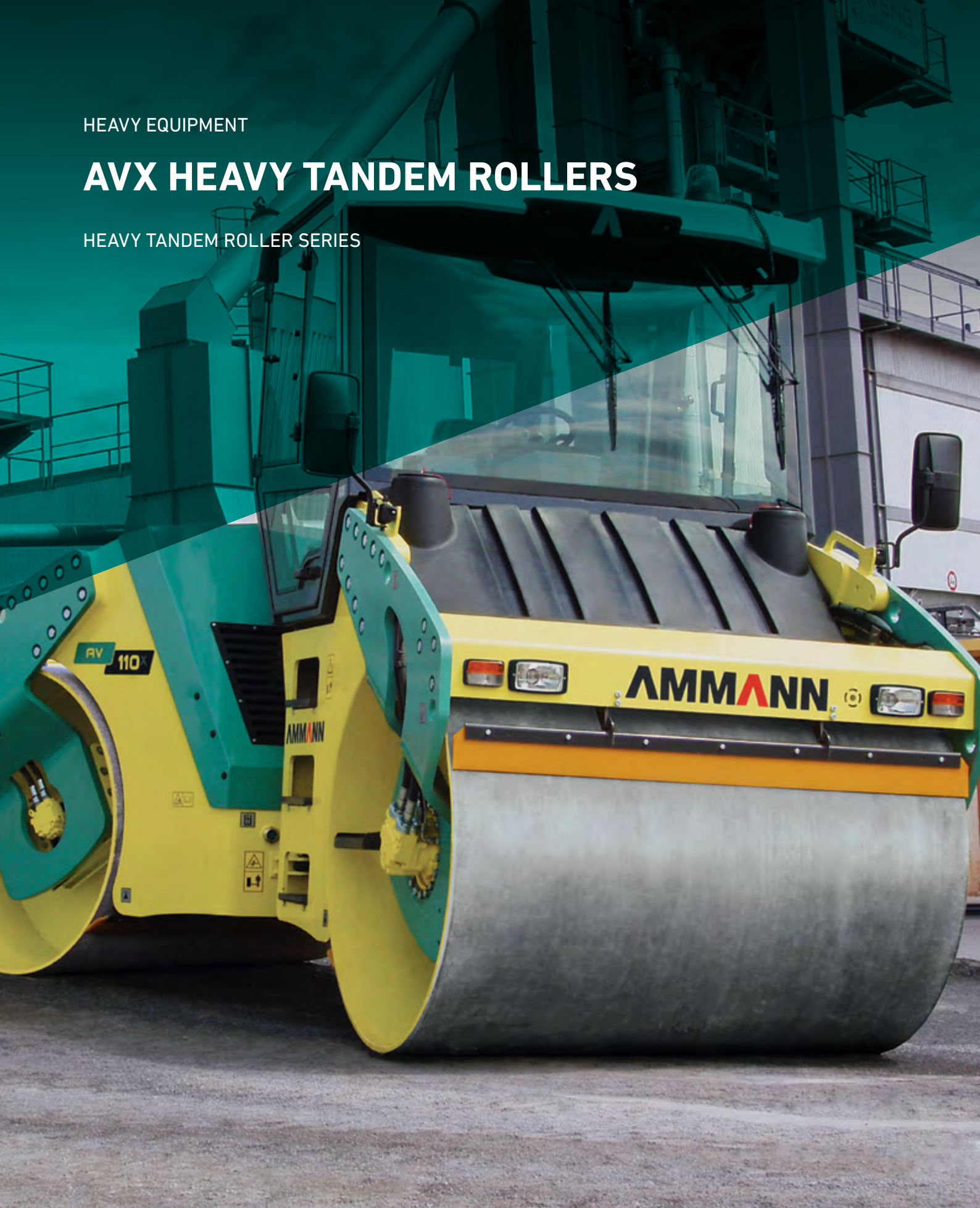


HEAVY EQUIPMENT

# AVX HEAVY TANDEM ROLLERS

HEAVY TANDEM ROLLER SERIES



**AMMANN**

# READY FOR MANY APPLICATIONS

Ammann AVX Articulated Tandem Rollers are proven performers on various jobsites. The AVX series brings compaction output to help boost the productivity of construction crews. The rollers also are robust, durable and ready for a wide range of applications.

## INTRODUCTION AVX

- Proven line of Articulated Heavy Tandem Rollers AVX consists of AV 70X, AV 110X and AV 130X
- Robust and durable machine design for wide field of applications
- High productivity with low maintenance cost
- With Cummins Tier 2/EU Stage 2 and Tier 3/EU Stage 3A engines



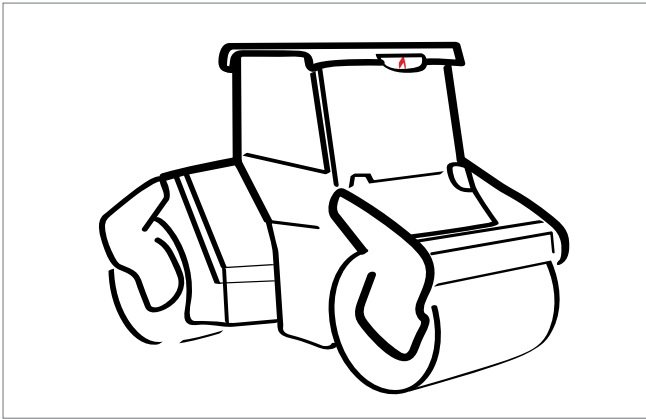
**“Ammann Tandem Rollers provide operator comfort and easy adjustment of amplitude and frequency.”**



# YOUR BENEFITS

AVX MODELS PROVIDE MANOEUVRABILITY, CONTROL

Ammann articulated rollers deliver optimal compaction results by combining operating weight with drum dimensions, frequencies and amplitudes. Each roller has 2 frames connected by an oscillating joint that enables crab steering on each side. Whether utilising heavy or light models, the rollers remain manoeuvrable and provide outstanding sight lines to the drum, sprinkler system and surfaces.



## DESIGN

- Comfort built into cabs to improve operator productivity and reduce fatigue
- Outstanding visibility to front, sides and rear
- Low sound levels
- Integrated ROPS
- Rotating/sliding seat
- Sprinkler water tank fitted to rear frame

## COMPACTION OUTPUT

- Powerful combination of drum dimensions, frequencies and amplitudes
- 2 amplitudes and frequencies
- Balanced drum dimensions
- Non-split drums
- Optional ACE<sup>force</sup> compaction measurement (absolute values) and Ammann Documentation System (ADS)

## CRAB STEERING, TRACTION AND MOBILITY

- 2 frames connected by a double-oscillating joint enable crab steering on each side
- Drum offset up to 17 cm on each side
- Ideal steering angle and efficient design
- Independent, double-pump system drum drives for enhanced traction

## ERGONOMICS AND CONTROL

- 2 drive levers for easy operation
- Convenient control locations
- Simple adjustment of amplitude and frequency

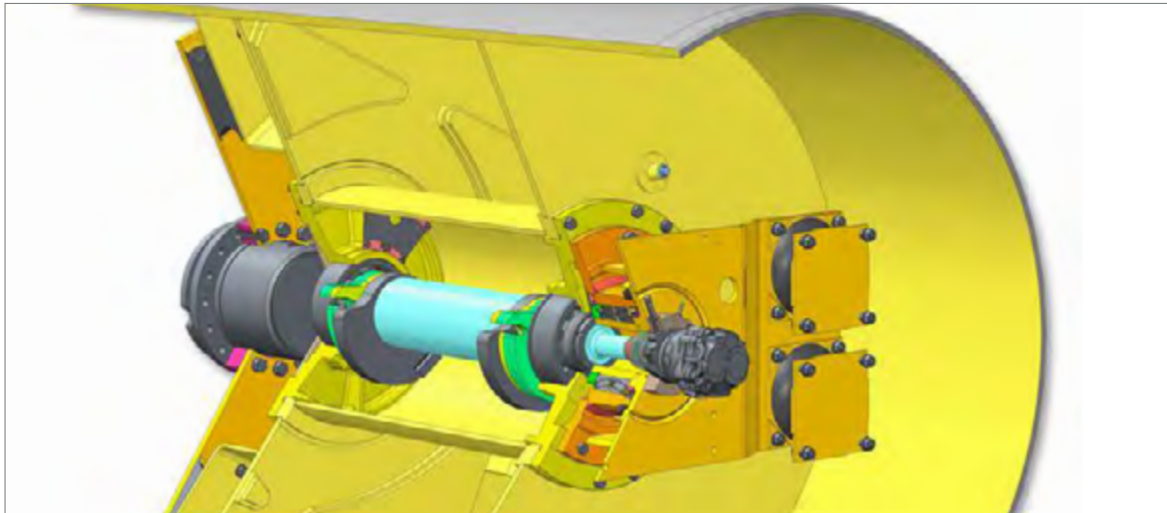
## SERVICEABILITY

- Reliable, long-life vibratory system
- Convenient access to service points and fluid ports
- Engine compartment mounted on rear frame for easier maintenance

# VIBRATORY SYSTEM

## HELPING COMPACTION OUTPUT

Varied settings provide versatility in many applications, while the strong vibratory system delivers essential compaction power. The ACE<sup>force</sup> system is an automated compaction measurement and control option.



### OPTIONAL ACE<sup>force</sup>

- Continuous compaction measurement system
- Absolute measurement system with evaluation of real material stiffness
- Covers the spectrum of compaction in soil and aggregates
- Available information includes achieved compaction
- Can measure compaction at any point on-site
- Features guiding function, which advises operator how to set the machine parameters
- Includes Ammann Documentation System (ADS) software with office analysing feature
- Compatible with all major manufacturers' GPS products to provide mapping and operator guidance



# APPLICATIONS

PRODUCTIVE ON AGGREGATE AND ASPHALT

Ammann AVX Articulated Tandem Rollers excel in multiple applications and on diverse materials.

## APPLICATIONS

- Small, medium and large construction sites – depending on model
- City roads
- Boardwalks
- Repair works in city centre
- Road maintenance
- Motorways
- Airfields
- Industrial and commercial sites



# OPERATOR COMFORT AND CONTROLS

DESIGNED FOR SUCCESS

Ammann rollers are built to keep operators comfortable, helping boost productivity throughout a long shift. Intuitive, easy-to-reach controls ensure that operators of all experience levels succeed.



## KEY FEATURES

- Spacious and comfortable cab
- Integrated ROPS
- Double-pivot swiveling seat
- Left and right double steering
- Adjustable steering column
- Intuitive, well-displayed dashboard
- Smooth start/stop function
- Fluid, adjustable working speeds
- Crab steering control on the levers

# DRIVE TRAIN

## POWER AND EFFICIENCY

Power is required on every job, and the Ammann articulated tandem rollers offer plenty. Fuel efficiency is an added bonus that helps reduce operating costs and has a direct beneficial impact on profitability.

### ENGINE

- Cummins engines featured
- Varied emissions standards reached
- Fuel-efficient and reliable
- Engine compartment located on rear frame for easier maintenance

### TRACTION AND TRAVEL

- High traction efficiency
- 2 hydraulic pumps for travel system

# SERVICEABILITY

## EASY ACCESS ADDS A PRODUCTIVITY BOOST

Productivity comes in many ways – including the reduced time it takes your crew and technicians to complete preventive maintenance and service of Ammann machines. AVX rollers are maintenance friendly so the roller – and your crew – can quickly resume operation.



### KEY FEATURES

- Maintenance friendly
- Reliable, long-life vibratory system
- All maintenance/service points ground accessible
- Compact engine space with guiding decals
- Cleanable fuel tank
- Easy access to battery and filters
- Engine compartment on rear frame for easier access



# OPTIONS

## THE NEXT STEP

Finding the right roller is a great start. Next choose from a broad range of options that provide you with a machine that feels custom-made.

- ACE<sup>force</sup>
- ACE GPS monitoring
- HF drums (non-CE markets only)
- ROPS cabin
- Air conditioning
- Radio with CD
- Ammann toolkit
- Edge cutter
- Thermometer
- Warning beacon
- Backup alarm
- Telematics-ready



EDGE CUTTER



ROPS CABIN

# TRAINING

ENHANCE YOUR PERFORMANCE

The Ammann International Training Centre in the Czech Republic is our training headquarters.

If you are not able to visit the International Training Centre, Ammann will bring the training to your business or even a jobsite of your choosing.

## MACHINE TRAINING MODULES

Modules help you organise your team's training efforts. For example, you can have comprehensive lessons that put you on the path to expertise regarding a single machine. Or, if you prefer, your crew can instead broaden its general knowledge.

And if you want to become an expert on the entire product line, the modules can accommodate that, too.



## MAIN COURSES

These are the most frequently requested lessons and focus on one machine line.

## SUB COURSES

These courses focus on a single machine and typically run for 2 days, allowing a second (or even third) such course to be taken during a week at the training centre.

## PRODUCT COURSES

Important information regarding Ammann compaction machines is at the core of these classes. The training includes correct operation and basic maintenance.

## ADMINISTRATIVE COURSES

Participants in this training learn effective utilisation of warranty claims, spare parts purchase orders, training, requests for technical support and service tips. Those who take these classes will learn to use all Ammann technical publications and administration tools.

## COMMISSIONING COURSES

In this training, participants learn maintenance and proper methods for organising a commissioning of Ammann compactors and asphalt pavers.

## INTELLIGENT COMPACTION COURSES

Participants learn about the ACE<sup>force</sup>, ACE<sup>pro</sup> and ACE<sup>plus</sup> systems used in Ammann machines. Those who take the class will learn to properly operate, maintain, diagnose and repair ACE systems. The offerings include ACE iii System for Soil Compactors, which is focused on ASC rollers, and ACE iii System for Asphalt Compactors, which discusses systems on ARP 95, ARX 90 and ARX 110.

# SERVICE

A NETWORK TO SUPPORT YOU

**No matter where you are, Ammann-trained technicians and parts are nearby. Ammann dealers provide well-trained service technicians who can help you, whether it's an emergency or time for preventive maintenance. The vast Ammann network ensures there is a nearby technician who understands your language and your technical needs. Parts availability and ease of ordering are always Ammann priorities.**

## SERVICE VIDEOS

Sometimes a video tells the story best. That's why you'll find a variety of service videos that walk you through service and maintenance processes.

Many maintenance kits feature QR codes that link to videos with helpful demonstrations that walk you or your technician through the process. The videos tell the story without dialogue so customers anywhere in the world can understand.

## HOTLINE SUPPORT

Ammann experts are ready to answer your technical questions 24 hours a day, seven days a week. The hotline team is highly trained and experienced. Representatives can talk you through the challenges – in various languages – to help keep your machine productive.



**“Ammann-trained technicians, parts availability and ease of ordering are Ammann priorities.**

**For more information visit  
[WWW.AMMANN-GROUP.COM](http://WWW.AMMANN-GROUP.COM).”**

## SPARE PARTS

You can only earn money when your equipment is working. That's why Ammann does everything possible to ensure you have the parts where and when you need them. Those efforts include easy online ordering to avoid confusion and enable tracking, and efficient logistics and availability to help parts reach you quickly.



## WEARING KITS

Some machines handle abrasive materials in demanding applications. While wear is inevitable, downtime can be limited. Wearing kits make replacement of these parts efficient and cost-effective. All the necessary parts – big and small – are in a single box to keep you organised and efficient and to ensure the machines are quickly back up and running.

## MAINTENANCE KITS

Preventive maintenance is crucial to efficient operation and service life of machines. The easier the maintenance, the more likely it is to be completed. Maintenance kits make the upkeep simple. Parts associated with a particular maintenance process are in a single box with a single part number.

**“Service kits ensure that every part is there when you need it, while emergency kits prevent a little challenge from becoming a big one.”**

## REPAIR KITS

Repair kits are available for more in-depth repairs, typically those that require the machine to be transported from the jobsite. The repair kits feature all parts – from the biggest components to the tiniest nut and bolt – needed for a particular repair. The kits ensure everything is there when you need it, thereby preventing the absence of a single, small part from keeping a productive machine from working.

## EMERGENCY KITS

Emergency kits prevent little frustrations from becoming bigger issues that can shut down a machine and even a jobsite. These kits include parts such as switches, fuses and valve coils that are simple and fast to change yet still can cause significant problems if not operating properly. The kits easily fit in the trunk or bed of a vehicle so they're on hand when needed. A crew-member with a bit of technical knowledge can handle this work on the jobsite. These repairs take 2 hours or less.

## PROSPECT WITH ALL KITS

We have a prospect with all kits, and their part numbers are available for you. Just contact your parts consultant and have a digital or hardcopy sent to you.



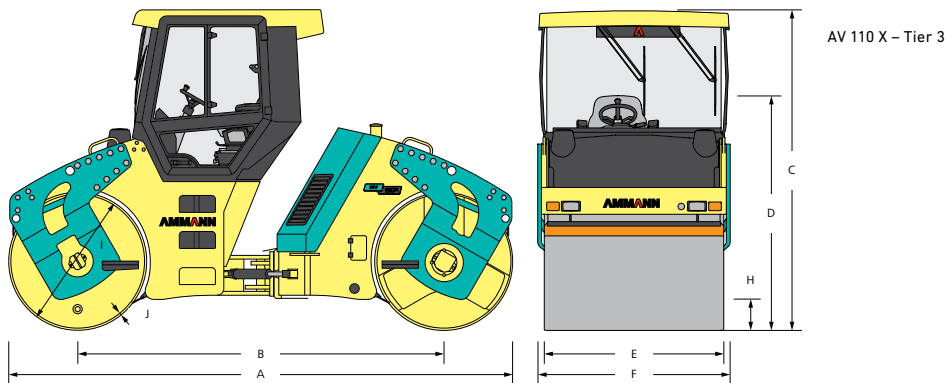
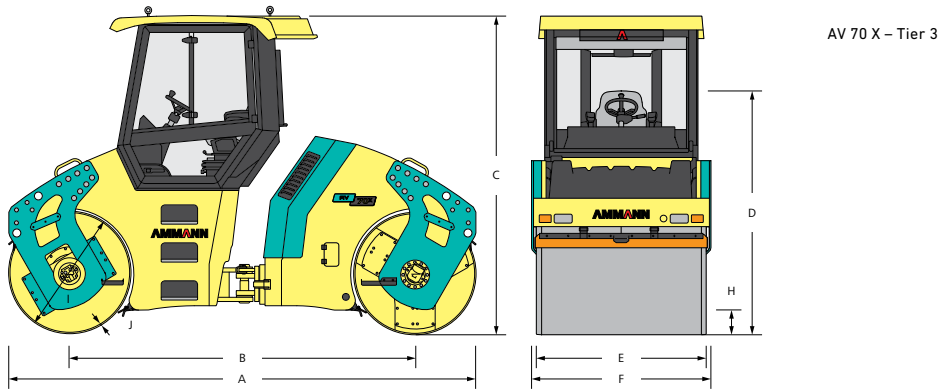
**AMMANN**

# DIMENSIONS

## AVX HEAVY TANDEM ROLLERS

### DIMENSIONS

	AV 70 X – Tier 3	AV 110 X – Tier 2	AV 110 X – Tier 3	AV 130 X – Tier 3
A MACHINE LENGTH	4410 mm (173.7 in)	4760 mm (187.5 in)	4760 mm (187.5 in)	4875 mm (192 in)
B WHEELBASE	3260 mm (128.4 in)	3460 mm (136.3 in)	3460 mm (136.3 in)	3525 mm (138.8 in)
C MACHINE HEIGHT	3005 mm (118.4 in)	3020 mm (118.9 in)	3020 mm (118.9 in)	3060 mm (120.5 in)
D MACHINE HEIGHT (REMOVED CAB/ROPS)	2300 mm (90.6 in)	2350 mm (92.6 in)	2350 mm (92.6 in)	2390 mm (94.1 in)
E DRUM WIDTH	1450 mm (57.1 in)	1700 mm (67 in)	1700 mm (67 in)	2100 mm (82.7 in)
F MACHINE WIDTH	1550 mm (61.1 in)	1822 mm (71.8 in)	1822 mm (71.8 in)	2222 mm (87.5 in)
H GROUND CLEARANCE	240 mm (9.4 in)	310 mm (12.2 in)	310 mm (12.2 in)	335 mm (13.2 in)
I DRUM DIAMETER	1150 mm (45.3 in)	1300 mm (51.2 in)	1300 mm (51.2 in)	1350 mm (53.2 in)
J DRUM SHELL THICKNESS	15 mm (0.6 in)	22 mm (0.9 in)	22 mm (0.9 in)	20 mm (0.8 in)



# SPECIFICATIONS

## AVX HEAVY TANDEM ROLLERS

### MACHINES

	AV 70 X – Tier 3	AV 110 X – Tier 2	AV 110 X – Tier 3	AV 130 X – Tier 3
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### MISCELLANEOUS

	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
BRAKES OPERATING				
BRAKES PARKING	Mechanical multiple-disc	Mechanical multiple-disc	Mechanical multiple-disc	Mechanical multiple-disc
BRAKES EMERGENCY	Mechanical multiple-disc	Mechanical multiple-disc	Mechanical multiple-disc	Mechanical multiple-disc
FUEL TANK CAPACITY	110 l (29.1 gal)	210 l (55.5 gal)	208 l (54.9 gal)	210 l (55.5 gal)
VOLTAGE	12 V	12 V	12 V	12 V

### COMPACTION FORCES

FREQUENCY I	43 Hz (2580 VPM)	45 Hz (2700 VPM)	45 Hz (2700 VPM)	42 Hz (2520 VPM)
FREQUENCY II	52 Hz (3120 VPM)	55 Hz (3300 VPM)	55 Hz (3300 VPM)	55 Hz (3300 VPM)
FREQUENCY ACE MIN./MAX.	–	–	–	–
AMPLITUDE I	0.6 mm (0.024 in)	0.7 mm (0.028 in)	0.7 mm (0.028 in)	0.8 mm (0.031 in)
AMPLITUDE II	0.33 mm (0.013 in)	0.35 mm (0.014 in)	0.35 mm (0.014 in)	0.4 mm (0.016 in)
AMPLITUDE ACE MIN./MAX.	–	–	–	–
CENTRIFUGAL FORCE I	65 kN	110 kN	110 kN	135 kN
CENTRIFUGAL FORCE II	55 kN	77/83 kN	77/83 kN	96/116 kN
CENTRIF. FORCE ACE MIN./MAX.	–	–	–	–

### ENGINE

	Cummins BTA4.3-C80	Cummins 4BT4.5-C99	Cummins QSB3.3-C99	Cummins QSB4.5-C130
MANUFACTURER	Cummins BTA4.3-C80	Cummins 4BT4.5-C99	Cummins QSB3.3-C99	Cummins QSB4.5-C130
POWER ACCORDING TO ISO 14396	60 kW (80 HP)	74 kW (99 HP)	74 kW (99 HP)	97 kW (130 HP)
MAXIMUM TORQUE	304(224)/1600 Nm (ft lb)/rpm	414(305)/1600 Nm (ft lb)/rpm	412(304)/1600 Nm (ft lb)/rpm	512(376)/1600 Nm (ft lb)/rpm
ENGINE COMPLIES WITH EMISSION REGULATIONS	EU Stage IIIA, U.S. EPA Tier 3	EU Stage II, U.S. EPA Tier 2	EU Stage IIIA, U.S. EPA Tier 3	EU Stage IIIA, U.S. EPA Tier 3

### WEIGHT & DRIVING CHARACTERISTIC

OPERATING WEIGHT	7 360 kg (16 230 lb)	10 400 kg (22 930 lb)	10 400 kg (22 930 lb)	13 080 kg (28 840 lb)
MAXIMUM WEIGHT	7 810 kg (17 220 lb)	11 190 kg (24 670 lb)	11 190 kg (24 670 lb)	13 870 kg (30 580 lb)
STAT. LIN. LOAD OF FRONT DRUM	27.5 kg/cm (154 lb/in)	30.9 kg/cm (173 lb/in)	30.9 kg/cm (173 lb/in)	31.5 kg/cm (176.4 lb/in)
STAT. LIN. LOAD OF REAR DRUM	25.7 kg/cm (143.9 lb/in)	30.3 kg/cm (169.7 lb/in)	30.3 kg/cm (169.7 lb/in)	30.8 kg/cm (172.5 lb/in)
MAX. TRANSPORT SPEED	11.4 km/h (7.1 MPH)	12.8 km/h (8 MPH)	11 km/h (6.8 MPH)	11.4 km/h (7.1 MPH)
MAX. WORKING SPEED	–	–	–	–
CLIMBING ABILITY	30 %	30 %	30 %	40 %
TURNING RADIUS INNER (EDGE)	4600 mm (181.1 in)	4650 mm (183.1 in)	4650 mm (183.1 in)	4670 mm (183.9 in)
CRAB MODE	180 mm (7.1 in)	160 mm (6.3 in)	160 mm (6.3 in)	160 mm (6.3 in)

For additional product information  
and services please visit:  
**[www.ammann-group.com](http://www.ammann-group.com)**

