

MACHINES

LARGE PAVER CLASS PREMIUM, WHEELED

AFW 600-3

AFW 700-3



AMMANN

PREMIUM WHEELED PAVING

The Ammann AFW 600-3 and AFW 700-3 Large Premium Wheeled Pavers utilise high-end features to deliver top-notch quality. They also provide productivity as well as manoeuvrability – particularly for pavers of their size. The pavers are smart, too, utilising PaveManager 2.0, a CAN-based automated system that constantly monitors the paving process and provides feedback to operators. The patented VarioSpeed drive system automatically adjusts RPM based on the load, while EcoMode adds fuel-saving engine efficiency.



AFW 600-3

WEIGHT: 18 000 kg

ENGINE POWER: 129 kW

BASIC WORKING WIDTH: 2550–5100 mm

MAX. PAVING WIDTH: 7500 mm

The AFW 600-3 is a wheeled paver that utilises PaveManager 2.0, a CAN-based control system featuring a variety of automated functions. The wheeled undercarriage provides good traction and enables high manoeuvrability.

- Four-wheel drive
- Capacity of 700 tonnes per hour
- Maximum paving width of 7.5 metres
- Tamping/vibrating screed
- 3.0–6.0 m screeds available
- Electric or gas heating

HIGHLIGHTS

- Cummins QSB 6.7-litre C173 129 kW engine (Tier 3 or Tier 4 available)
- Constant feedback from PaveManager 2.0, a CAN-based operator system
- VarioSpeed, a load-sensing hydraulic system that reduces fuel consumption*
- Engine efficiency through EcoMode
- Powerful and manoeuvrable wheeled drive system
- Wide tires, well-balanced undercarriage and pendulum front-axle bogie for exceptional ground contact
- TruckAssist™ for safe docking and efficient communication
- Maximum paving speed of 30 metres per minute
- Maximum transport speed of 20 km per hour
- Proportional sensors for consistent material flow
- Electric- or LPG-heated screeds
- Tamping/vibrating or high-compaction screeds

* Availability depends on the model/version



AFW 700-3

WEIGHT: 18 000 kg

ENGINE POWER: 129 kW

BASIC WORKING WIDTH: 2550–5100 mm

MAX. PAVING WIDTH: 9000 mm

The AFW 700-3 is a wheeled paver that features Pavemanager 2.0. The paver offers all-wheel drive, which provides the additional traction necessary to handle wide widths and enable the machine to be equipped with high-compaction screeds.

- Six-wheel drive (AWD)
- Capacity up to 750 tonnes per hour
- Maximum paving width of 9 metres
- Tamping/vibrating or high-compaction screed
- 3.0–6.0 m screeds available
- Electric or gas heating

QUALITY AND MANOEUVRABILITY

Ammann Large Premium Wheeled Pavers are at their best when quality matters most. The premium pavers add quality-enhancing touches at every step of the process – from truck exchanges, to anti-segregation efforts in the hopper and material feeding system, to screeds that provide outstanding pre-compaction and smoothness. Productivity is always essential. The pavers have a capacity of 700–750 tonnes per hour and can pave at a theoretical max paving speed of 30 metres per minute. The wheeled drive system provides manoeuvrability needed on tighter jobsites, including those in urban areas.

EMISSIONS

The premium paver models are available with the latest T4f engines, fulfilling all emission regulations. Also available are Tier 3 engines for countries without T4 requirements.

APPLICATIONS

- National roads
- Highways
- Country roads
- City/municipal streets
- Building lots
- Large squares and courtyards





YOUR BENEFITS AT A GLANCE

WHAT SETS THE LARGE PREMIUM WHEELED ASPHALT PAVER CLASS FROM AMMANN APART?

ERGONOMICS

A high position of the operator seat offers excellent views to the hopper and all working areas. An optional weather house protects the driver.

OPERATOR PLATFORM

Operator comfort is enhanced with a sliding platform and adjustable console.

SAFE TRANSPORT

Tow arms utilise manually operating locking cylinders for safe and easy transport.

SCREED

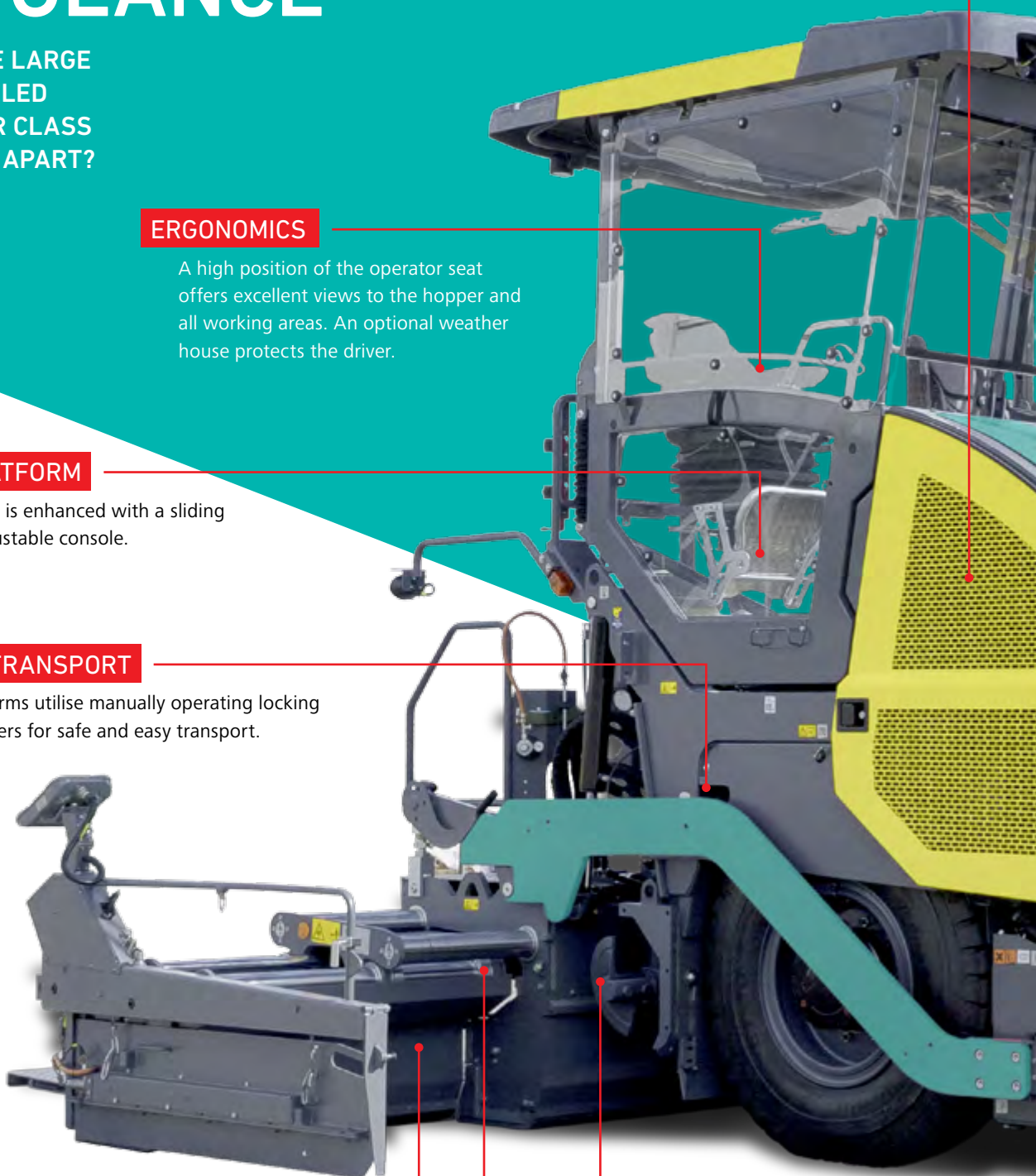
Integrated leveling functions provide quality, while Flexi Lever offers quick and convenient adjustment of the screed angle of attack.

LOW NOISE

Noise levels are reduced through an efficient drive concept and screed design.

AUGER

The robust system, offered with inner or outer drive, features improved torque for quality paving at all working widths. Auger height can be hydraulically adjusted variably up to 250 mm while paving.



INTUITIVE PAVEMANAGER

The CAN-based system provides intelligent control of the paving process for improved quality.

ECOMODE

A variably controlled EcoMode system allows the optimal engine speed to be set for the jobsite.

VARIOSPEED

The load-sensing hydraulic system reduces fuel consumption. The system recognises the power demand and controls the engine speed at optimal RPM.

HIGH-CAPACITY HOPPER

The large hoppers feature separately controlled wings and a low dumping height for trucks. Rounded corners prevent mix from sticking.

PUSH ROLLERS

Push rollers with shock absorbers reduce the impact of truck connections

MATERIAL FLOW

A fully automated, efficient conveying system enables consistent flow and minimises segregation.



STEPS TOWARD SMOOTHNESS

MATERIAL FEEDING SYSTEM

Smooth paving is a process with many steps, including material feeding. Ammann Large Premium Wheeled Pavers feature efficient and consistent material feeding that ensures proper auger coverage and mix distribution across the screed. Automated processes help ensure precision throughout the process.



MATERIAL CONVEYOR

An efficient conveyor system ensures material flows consistently from the hopper, so productivity and quality goals can be achieved.

- Tunnel shaped to optimise flow and limit segregation
- Reversible twin conveyor system for smooth material flow
- Individual front tensioner
- Proportional speed control with paddle sensor system



AUGER SYSTEM

Consistent auger distribution of material across the screed is essential to placing a quality mat with minimal segregation.

- Left and right augers reversible with independent drives
- High torque
- Proportional speed control by sonic sensors
- 380 mm flight size
- Hydraulic height adjustment of 250 mm
- Slim gearbox to minimise segregation



ALTERNATIVE AUGER DRIVE

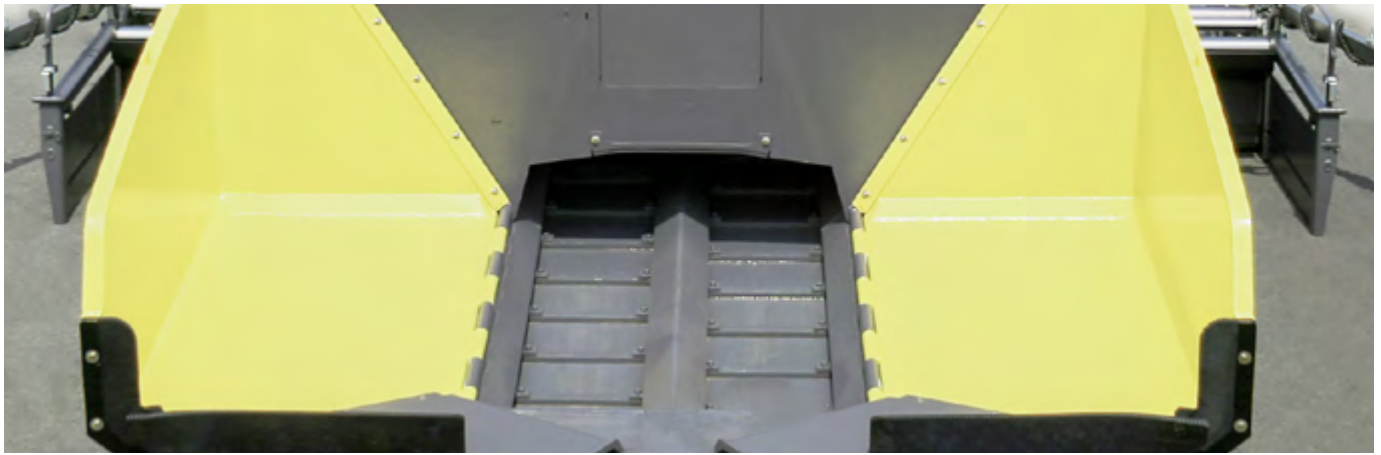
The pavers are available with standard center auger system. Ammann provides an outside driven auger system that can be selected on request.

Inner auger drive

- Improved central drive system with slim gearbox (15 cm)
- Small outer bearings that minimise segregation, even with throughput of 750 tonnes per hour

Outside auger drive

- Excellent view of auger compartment and conveyor tunnel
- Clever drive solution that offers minimal material segregation



MATERIAL HOPPER

The hopper is designed to reduce spilling during connections between the paver and the lorries. It is also designed to maximise flow and minimise segregation. The result: improved quality in the form of smoother mats. An optional hydraulic front flap reduces spilling and improves the emptying process, ultimately resulting in less manual work.

- Low dumping height
- Separately controlled wings with solid rubber flaps
- Rounded corners to prevent cold material from sticking



SHOCK ABSORBER

Ammann Premium Wheeled Pavers offer a hydraulic anti-shock push roller that avoids surface marks caused by unproper truck docking. The system also extends docking length, providing flexibility to work with various truck models.



TRUCK ASSIST (OPTIONAL)

This system improves the communication between the paver and the truck driver. It also minimises bumps and spills that can negatively impact paving quality.

- Allows easy and safe truck positioning
- Simplifies the communication between the paver operator and the truck driver
- Communicates via LED bars to provide an alternative to the use of a signal horn

SET ASSIST (OPTIONAL)

This intelligent system saves the position of the auger and the screed before relocating the paver.

- A single push of a button on the operator panel lifts the hydraulic front flap, auger and screed – and reverses the conveyor slightly
- When the paver arrives at the next location, a single push of a button returns the system to its original position
- This user-friendly system can be programmed to predetermined settings

WORKING WITH COMFORT

OPERATOR PLATFORM

A comfortable work environment is key to a confident and productive paver crew. The operator platform on a Large Premium Wheeled Paver optimises visibility and ensures that all key controls are always easy to reach.



PAVEMANAGER 2.0

The automated paving system constantly monitors the process and provides feedback to operators. It also controls many key functions for precise results.

- Features a CAN-based control system
- It is connected both to the main operator control and to the screed remote control panels
- Gives a full overview of the complete paving process
- Allows automatic programming of slope and/or crowning
- Provides constant operator feedback
- Saves and loads paving parameters for each layer (memory function)
- Integrates the Mobamatic leveling system
- Offers color displays and intuitive menus and functions on both, the main dashboard and the remote controls



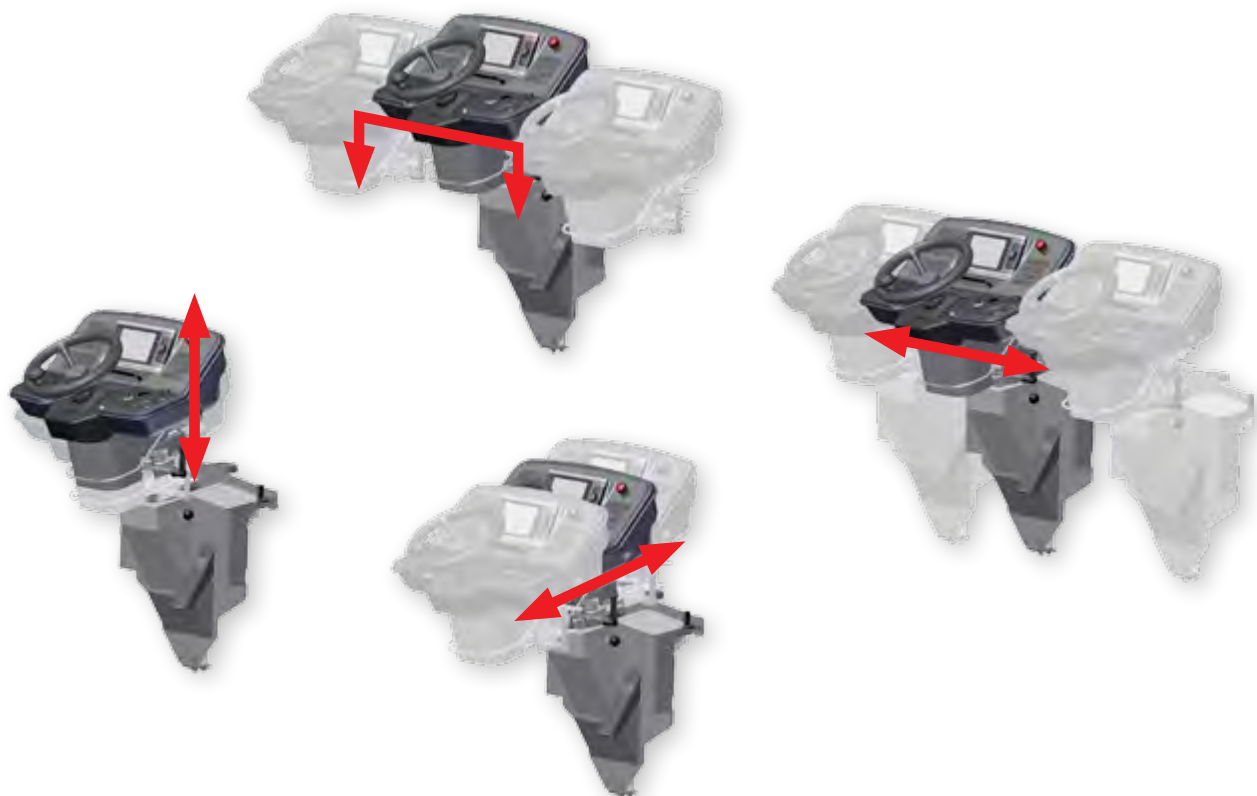


Featuring the Pavemanager 2.0 System, the operating system is identical to those of other Ammann pavers, making it easy and safe for operators to switch between models.

- Clear sight lines to all work areas
- Slidable and tiltable control console
- 50 cm hydraulically slidable platform to both sides
- 4 integrated working lights in the front and the back of the canopy (optional)
- Weather housing to protect operator available on option

KEY FEATURES

- Slidable, ergonomic seats
- Operator console adjustable to every position
- Generous headroom
- Opening side and front windows
- Platform extendable with the touch of a button
- Intuitive dashboard and controls
- Integrated working lights on the canopy (option)
- Optional fumes extraction system
- TruckAssist™ system for easy and safe truck positioning (option)



POWER WHEN YOU NEED IT

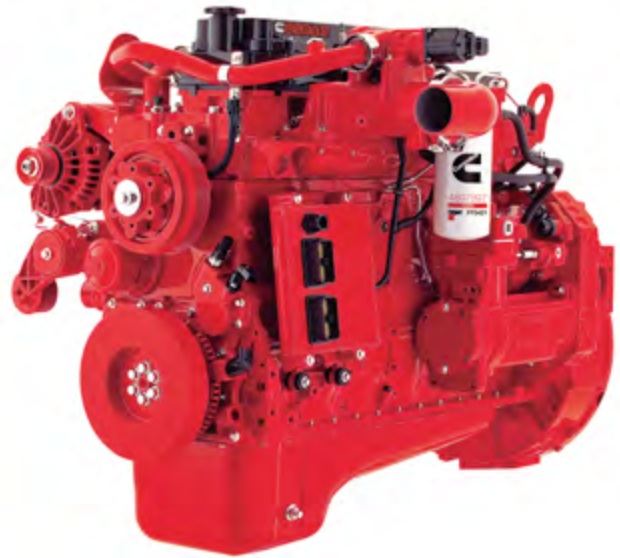
ENGINE, UNDERCARRIAGE KEY COMPONENTS

Ammann Large Premium Wheeled Pavers provide an outstanding driving experience, essential to leaving behind smooth surfaces. Cummins engines provide the power that enables productivity, even in challenging conditions. A well-balanced undercarriage, wide tyres and pendulum front-axe bogie ensure constant, consistent ground contact. The wide wheel base and the low centre of gravity ensure excellent stability, while the hydrostatic brake system offers a reliable and safe performance.

ENGINE

The engines on all Ammann pavers delivery power efficiently. The result is an ability to pull extended widths – and limit fuel costs, too.

- Cummins diesel engine providing 129 kW of power
- Optimised energy conversion through load-sensitive engine speed control, efficient pumps and compact final drives
- Cooling system driven by hydraulic motor and thermostatically controlled
- CAN-BUS system ensures operational reliability and centralized control



ECOMODE

The EcoMode feature reduces fuel consumption, improving profitability. EcoMode also provides environmental benefits, including reduced noise and emissions.

- Adjusts engine rpm to the jobsite's requirements through a variably controlled system
- Reduces fuel consumption and noise
- Extends engine life



VARIO SPEED

This patented drive concept ensures optimal RPM at all times. A computer determines the necessary RPM and makes automatic adjustments. The reductions in fuel consumption are significant, with savings of 15 per cent on energy cost typically reported. VarioSpeed is standard on Tier 4 engines with Pavemanager 2.0 Advanced, and optional available on Tier 3 models.



UNDERCARRIAGE

With its well balanced undercarriage, wide tyres and a pendulum front axle the large wheeled pavers give an outstanding driving experience, ensuring traction and ground contact of the front wheels at all time. The powerful drive allows transport speeds up to 20 km/h, great for relocation within a jobsite. AFW 600-3 features 4 WD drive (2 × front wheels) while the AFW 700-3 performs with additional traction force due to 6 wheel drive (all-wheel drive).

TYRES

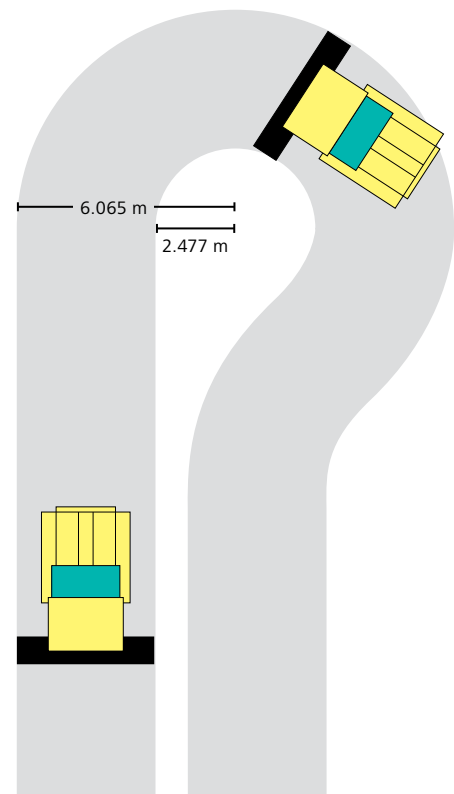
Tyres are crucial to the paving process. They provide ground contact, which is essential to smoothness, and also play a key role in transferring the engine's power to the surface.

- High-performance tyres are specially selected for paving applications.
- Tyre size of 445/80 R25 enables excellent ground contact and outstanding traction.
- Tyres offer stability and outstanding grip.

EXTRA TRACTION

The load-sensing system provides a significant boost to traction, especially if the hopper is full. This grants superior traction even with extended paving widths.

- Automatically adjusts front-wheel drive depending on the current load and power it requires.
- Combines with electronically controlled rear-wheel drive to ensure optimal traction.
- Provides a combination of precision and power.



HIGH STABILITY

AMMANN SCREEDS

The Ammann screeds available for the large pavers provide superior stability through the 4-tube guiding principle. The screeds leave behind a consistent mat – even when working at maximum width. Rubber mountings on the screed platform limit noise and make communication and working on site easier.

4-TUBE PRINCIPLE

The high stability of the Ammann screeds is due to the 4-Tube principle design. These four tubes allow wide working widths without the need of any supporting rods. This makes the setup of the screed easier and saves time when preparing the paver for large working widths.



ECCENTRIC FLEXI LEVER

- Quick and convenient change of the angle of attack
- Offers visual control of screed settings
- Adjustment made with a simple lever



SIDE SHIELD CONTROL

- Height and angle adjusted with a single crank
- Adjustments made from behind the screed, keeping operators away from traffic
- Integrated wiring

HIGHLIGHTS

- Four guiding tubes offer unmatched screed stability
- Easy assembly helps crews get to work quickly
- No supporting rods required – even at wide widths
- Slim end gates enable paving close to curbs and walls
- Height and angle of side shield can be adjusted with a single crank
- Extension boxes utilise patented quick-coupling system that reduces setup time
- Rubber mountings eliminate wear and reduces noise
- Low height screed enables superior view into auger compartment and provides easy and safe access

SCREED HEATING

Ammann screeds feature gas (LPG) or electric heating systems. Leaving the choice of the preferred system up to the customer. Electric heated screeds feature high quality insulations and powerful generator to reduce heat-up times. Well designed heating coils for the bottom plates and tampers grant a well distributed heat over the full length of the screed. Gas heated screeds feature a fast heat-up time that reach target temperatures quickly.

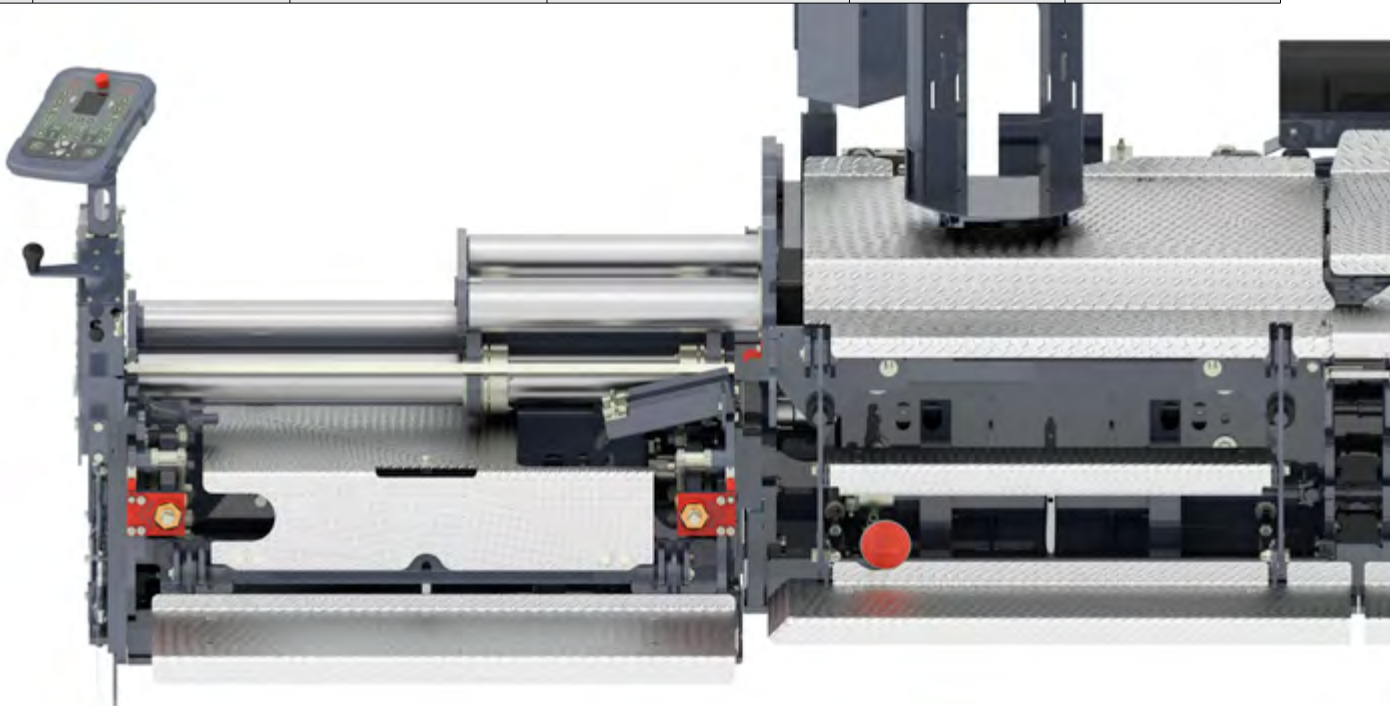
HIGH-COMPACTION SCREEDS

These screeds are designed for use on thick layers, roller-compacted concrete (RCC) and mineral mixes. The high compaction screed is available on AFW 700-3 only.

- Available on widths up to 7.5 metre (STVH 6000 E)
- Improves pavement stability
- Extends pavement life
- Available only with electric heating

AVAILABLE SCREEDS FOR LARGE, PREMIUM TRACKED PAVER CLASS

SCREED	HEATING SYSTEM	SCREED TYPE	STANDARD WORKING WIDTH	MAX. WORKING WIDTH	
				AFW 600-3	AFW 700-3
STV 5100 G	Gas (LPG)	Tamper & vibration screed	2550–5100 mm	7300 mm	8800 mm
STV 5100 E	Electric	Tamper & vibration screed	2550–5100 mm	7300 mm	8800 mm
STV 6000 G	Gas (LPG)	Tamper & vibration screed	3000–6000 mm	7500 mm	9000 mm
STV 6000 E	Electric	Tamper & vibration screed	3000–6000 mm	7500 mm	9000 mm
STVH 5100 E	Electric	High compaction screed	2550–5100 mm	–	6600 mm
STVH 6000 E	Electric	High compaction screed	3000–6000 mm	–	7500 mm



SERVICE AND MAINTENANCE

ENHANCE YOUR PERFORMANCE

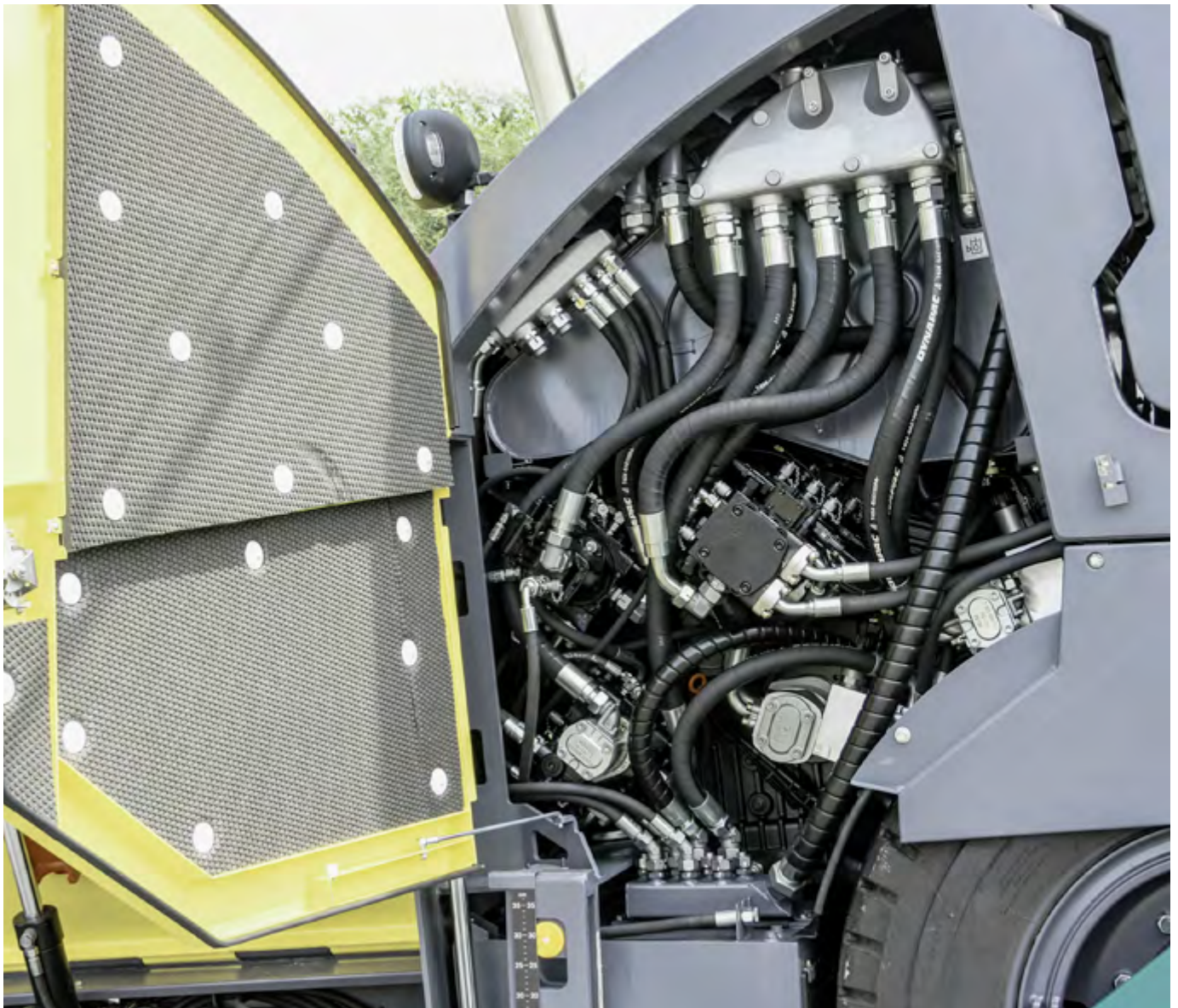
Ammann pavers use high-quality components for long life. The extended service intervals and the accessible service points make maintenance easy and maximise uptime. Efforts are taken to make the most of every shift, too – including the large fuel tanks that reduce stops.

BUILT TO LAST

- Wear-resistant components
- Use of reliable, well-known suppliers

DAILY TIME SAVERS

- Large 315 litre fuel tank
- Service points in a central location
- Fuse box accessible from cabin platform
- Plug-and-play components
- Filters and engine parts can be inspected visually



PARTS

ALWAYS AVAILABLE

Ammann has taken steps to help ensure pavers are up and running – and stay that way. One key effort was a thorough analysis of critical paver components and their stocking levels to maximise parts availability. The analysis included an examination of parts utilisation around the world. Ammann experts looked at the machines, the components, the life of the parts and the applications among other factors. The result: You have the parts you need in a timely fashion.

MAINTENANCE KITS

Maintenance kits are available when machines need more in-depth repairs that require them to be transported from the jobsite. The kits feature all parts, from the biggest components to the most tiny nuts and bolts, needed for a particular repair. The kits ensure you have everything when you need it, thereby preventing the absence of a tiny part from keeping a productive machine from working.

EMERGENCY KITS

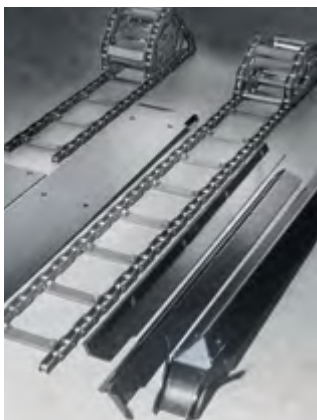
Emergency kits prevent little frustrations from becoming bigger issues that can shut down a machine and even a jobsite. These kits include parts such as switches and fuses that are simple and fast to change yet still can cause significant problems if not operating properly. The kits easily fit in the trunk or bed of a vehicle so they're on hand when needed.

WEARING KITS

Pavers handle abrasive materials in demanding applications and some wear is inevitable. Wearing kits now make replacement of these parts efficient and cost-effective. As with the emergency kits, wearing kits include all the necessary parts – big and small – to ensure the paver's downtime is kept to a minimum.

THE ADVANTAGES OF KITS

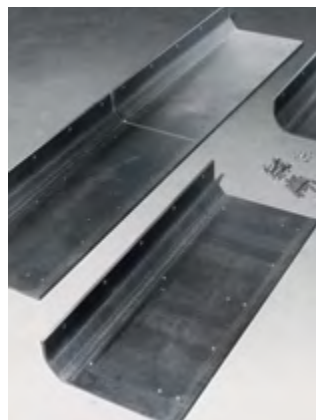
- Reduce downtime by ensuring that every part, big and small, is there when you need it
- Provide cost-savings, usually at least 10 percent, when compared with ordering parts individually
- Bring convenience by helping organise all the required parts for a specific repair or service
- Ensure you have parts that fit perfectly and protect your warranty
- Make ordering fast and easy by selecting a kit instead of multiple individual parts
- Ensure quick delivery times, when needed, through a variety of shipping options



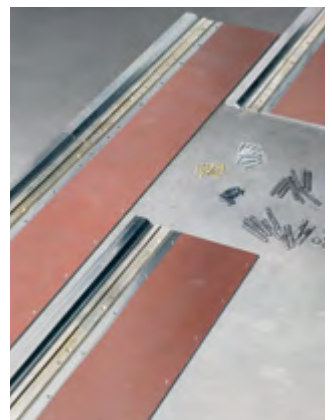
Conveyor belt



Auger wings



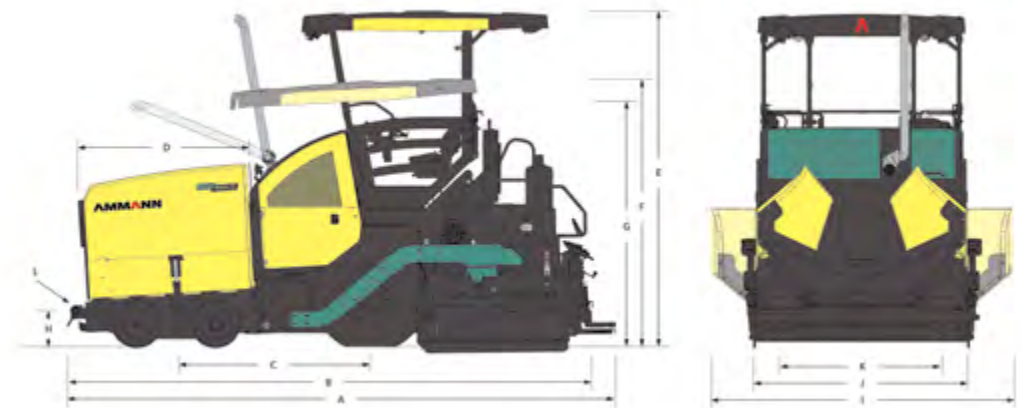
Screed bottom plate



Screed tamper bar

SPECIFICATIONS

AFW 600-3



WEIGHT & DIMENSIONS

WEIGHT (INCLUDING STANDARD SCREED)	18 000 kg
A MACHINE LENGTH	6380 mm
B TRANSPORT LENGTH	6100 mm
C TRACK LENGTH	2240 mm
D HOPPER LENGTH	2125 mm
E MACHINE HEIGHT	3900 mm
F TRANSPORT HEIGHT	3100 mm
G HEIGHT (W.O. CANOPY)	2845 mm
H MATERIAL LOADING HEIGHT	495 mm
I MACHINE, OPEN HOPPERS WIDTH	3250 mm
J TRANSPORT WIDTH	2550 mm
K TRACK GAUGE WIDTH	2055 mm
L MAX. APPROACH ANGLE	17° (front) / 16° (back)

CAPACITY & PERFORMANCE

PLACEMENT THICKNESS	300 mm
THEORETICAL PAVING CAPACITY	700 t/h
PAVING SPEED (MAX.)	30 m/min
TRANSPORT SPEED (MAX.)	20 km/h

WHEEL DRIVE

REAR WHEELS	Pneumatic tyres 2 × 445 / 80 R25
FRONT WHEELS	Elastic, solid rubber tyres 4 × 560 / 390-300
TRACTION	4WD (2 × rear wheels, 2 × front wheels)
TURNING RADIUS	2477 mm (inside Radius) 6065 mm (outside Radius)

MATERIAL FEEDING SYSTEM

HOPPER CAPACITY	13 t
HOPPER DUMPING HEIGHT CENTER (W. HOPPER FLAP)	575 mm
HOPPER WIDTH, INTERNAL	3140 mm
CONVEYOR TYPE	Dual bar feeder
CONVEYOR WIDTH	2 × 580 mm
CONVEYOR CONTROL	Automatic with limit switches
AUGER DIAMETER	380 mm
AUGER CONTROL	Automatic with ultrasonic sensors
AUGER HEIGHT ADJUSTMENT	250 mm (hydraulic)

ENGINE

ENGINE MODEL	Cummins QSB 6.7 – C173
RATED POWER @ 2200 RPM	129 kW
EMISSIONS	Stage IIIA (T3), Stage IV (T4f)
ELECTRICAL SYSTEM	24 V
FUEL TANK CAPACITY	315 l

OPERATOR STATION

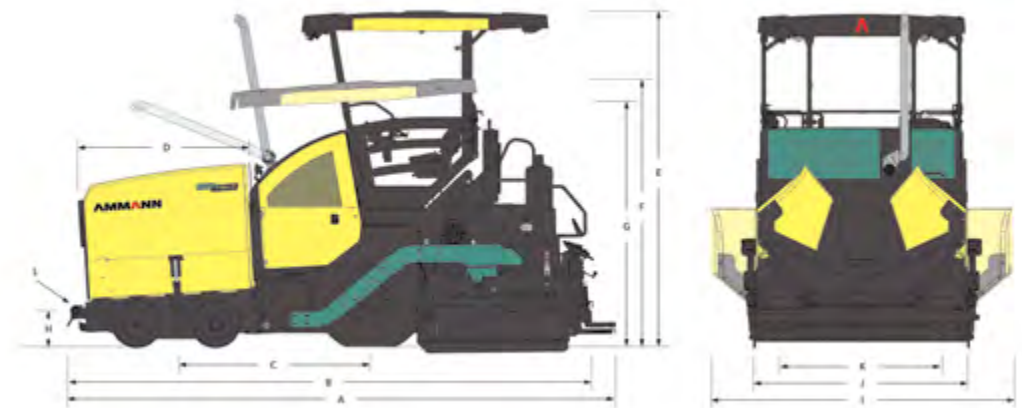
OPERATOR CONSOLE	Slidable and tiltable control console, adjustable to any position
DASHBOARD	Pave Manager 2.0 (PLC)
PLATFORM	Slidable operator platform (500 mm left and right)
ROOF	Canopy with integrated working lights

AVAILABLE SCREEDS

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For additional product information
and services please visit:
www.ammann-group.com

