



## THE RIGHT FIT

### AMMANN APH HYDROSTATIC VIBRATORY PLATES

Ammann APH Hydrostatic Vibratory Plates deliver compaction power and productivity to jobsites. The plates have drive and climbing power, even when working in cohesive soils. The compactors enable smooth directional changes and easy operation, even by the inexperienced. Operators can adjust to jobsite conditions by simply regulating the engine revolutions.

Lowest hand-arm-vibrations to the operator are one of the key features of these plates, enabling operators to work long shifts without the need of documentation for operator safety regulations.

### WITH TWIN-SHAFT EXCITER SYSTEM



Weight: 350 kg (772 lb) Working width: 450/600/750 mm (17,7/23.6/29.5 in)

Centrifugal force: 50 kN (11 240 lbf) Vibration frequency: 70 Hz (4200 VPM)



### **APH 60/85**

Weight: 464 kg (1023 lb)
Working width: 550/700/850 mm
(21,7/27.6/33.5 in)

Centrifugal force: 60 kN (13 488 lbf) Vibration frequency: 69 Hz (4140 VPM)



### **APH 1000 TC**

Weight: 747 kg (1647 lb)

Working width: 650/800 mm (26.6/31.5 in)

Centrifugal force: 63 kN (14163 lbf)

Vibration frequency: 46 Hz (2760 VPM)

### WITH TRIPLE-SHAFT EXITER SYSTEM





### APH 55/75

Weight: 362 kg (798 lb) Working width: 450/600/750 mm (17,7/23.6/29.5 in)

Centrifugal force: 55 kN (12 364 lbf) Vibration frequency: 70 Hz (4200 VPM)



### **APH 65/85**

Weight: 471 kg (1038 lb)
Working width: 550/700/850 mm
(21,7/27.6/33.5 in)

Centrifugal force: 65 kN (14612 lbf) Vibration frequency: 55 Hz (3300 VPM)



### **APH 85/95 - DIESEL**

Weight: 760 kg (1676 lb)
Working width: 650/800/950 mm
(25.6/31.5/37.4 in)

Centrifugal force: 85 kN (19 109 lbf) Vibration frequency: 52 Hz (3120 VPM)



### **APH 85/95 – PETROL**

Weight: 740 kg (1631 lb)
Working width: 650/800/950 mm
(25.6/31.5/37.4 in)

Centrifugal force: 85 kN (19 109 lbf) Vibration frequency: 52 Hz (3120 VPM)



### **APH 110-95**

Weight: 825 kg (1830 lb)
Working width: 650/800/950 mm
(25.6/31.5/37.4 in)

Centrifugal force: 110 kN (24729 lbf) Vibration frequency: 48 Hz (2880 VPM)



### **PRODUCTIVITY**

### Triple-shaft technology

Industry-leading gradeability and optimal operation, even on wet and cohesive substrate.

### **Superior compaction performance**

Powerful vibratory unit that generates high compaction output for fast compaction and consistent coverage.

### **Fully hydraulic drive**

Best-in-class machine control with high accuracy, even in confined areas.

### **ERGONOMICS**

### Low-vibration guide handle

Industry-leading HAV values below 2.5 m/sec<sup>2</sup> protect operator and eliminate need for time-consuming record keeping.

### **Convenient Orbitrol control**

Ergonomically optimized for perfect machine control during working shift.

### Secure transport

Simple machine fixation and higher safety during transport.

### **SERVICEABILITY**

### **Tool-free daily inspection**

Daily maintenance possible without tools.

### Hydraulic drive

Lower downtime than conventional mechanical drive.

### **Protective frame and covers**

Protects all key components against damage on the jobsite or during transport.

# TECHNOLOGICAL FEATURES ADD EFFICIENCIES

Customer input plays a crucial role in developing the features that are built into all Ammann products, including APH Vibratory Plates. Those requests include maximum compaction output and the ability to cover large areas efficiently and consistently. In addition, simple operation and safety during workshifts are essential.



Patented vibratory system provides consistent machine movement and high compaction output.



# PRODUCTIVITY AT ITS BEST

Ammann APH Hydrostatic Vibratory Plates deliver compaction power and productivity to jobsites. The plates have drive and climbing power, even when working in cohesive soils. The compactors enable smooth directional changes and easy operation, even by the inexperienced. Operators can adjust to jobsite conditions by simply regulating the engine revolutions.

The lowest hand-arm vibration levels in the industry reduce operator fatigue and eliminate the need for documentation.

### SUPERIOR COMPACTION PERFORMANCE

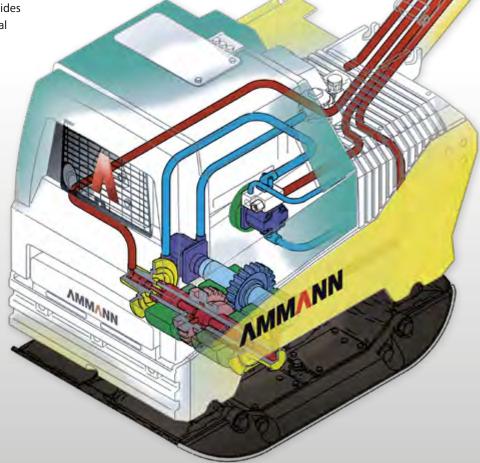
These plates are at their best when productivity matters most, regardless of the application. The powerful vibratory system delivers strong compaction forces and fast working speeds. The machines can compact large areas in the same amount of time as some double-drum rollers. The plates' unmatched manoeuvrability enables access to confined areas that a heavier roller could never reach.

### INTELLIGENT COMPACTION FOR MAXIMUM PRODUCTIVITY

Ammann Compaction Expert (ACE) is an automated compaction measurement and control system. It is the same technology that has been used on Ammann heavy compaction machines for years. ACE provides operators with an accurate indication of soil stiffness and whether desired compaction has been achieved. This improves operator output and minimises the time needed to reach compaction goals.

### **FULLY HYDRAULIC DRIVE**

The APH plates' hydraulic drive system provides significantly more force than its conventional counterparts. This makes Ammann APH plates the right choice for those who require a machine that delivers productivity while achieving compaction goals for quality and density.







# MARKET LEADING TRIPLE-SHAFT EXCITER SYSTEM GIVES AMMANN APH VIBRATORY PLATES AN EXTRA EDGE WHEN CONDITIONS GET TOUGH

### Ammann remains the technological leader in plate compaction with its patented triple-shaft exciter system

This technologically advanced system keeps plate movement consistent, which in turn enables smooth travel – even through heavy, cohesive soils. The system also helps the machines effortlessly overcome steep grades. APH machines are impressive climbers even while backfilling saturated areas – work that can leave

competitive products at a standstill. The success of the plates starts with the use of the third shaft. With twinshaft systems, plates can rock back and forth and their leading edge can turn downward and become stuck, particularly in saturated materials.

With the Ammann exciter system, the third shaft prevents that back-and-forth movement by providing another force. This creates more consistent drive of the plates and keeps them even, steady and above the surface – even on saturated jobsites.

# THE RIGHT FIT ON YOUR JOBSITE

The triple-shaft technology and size of the APH plates help them power through varied ground conditions on almost any jobsite. This versatility makes the plates an essential part of any fleet.



### **ROCKFILL MATERIAL**

The plates' high compaction output helps them master surfaces where the highest impact force is required.



### **SOIL AND SAND**

Smooth operation combines with the unique vibratory system to push through wet and saturated ground that can leave lesser plates stuck.



### THICK PAVING STONES

Each APH plate can be equipped with an optional paving pad – a rubber mat that quickly attaches beneath the base plate – to protect the stones from being cracked, chipped or scratched.









# OPERATOR ERGONOMICS AT A NEW LEVEL

Jobsites can present a variety of challenges. Operator friendly features from Ammann enable productivity and let the crew focus on the task at hand. Unique technologies built into Ammann machines deliver the quality and productivity you need and help provide you with a competitive advantage.

### LOW-VIBRATION GUIDE HANDLE

The standard guide handle for APH plates is isolated to minimise handarm-vibration. Levels lower than 2.5 m/s<sup>2</sup> enable operators to work longer shifts with the best comfort. The vibration levels are so low that safety codes do not require documentation of operator hours.

### CONVENIENT ORBITROL CONTROL

Orbitrol steering controls the adjustment of the centrifugal weights, allowing a smooth change of direction. Ammann developed the unique Ammann Orbitrol steering system to provide the accuracy needed on the jobsite. Machine speed and direction can be adjusted by a simple turn of the drive knob. The machine also can hover and provide on-the-spot compaction for challenging areas.

Orbitrol steering also helps with productivity and safety in corners and other tight spots.

### SAFETY AND CONTROL

The guide handle can be folded during operation to help the plates fit into tight spaces. An emergency stop on the handle provides safety. The drive system shuts off immediately if the sensor encounters an object.







### **ALWAYS EASY TO START**

Each machine features two starting systems. The electric start version gets the plate up and running quickly, while a securely stored hand crank is available as a backup.

### ROBUST CONTROL PANEL

The main dashboard is robust, intuitive and well visible. All main indicators are prominently displayed and easy to adjust. The control panel is logically located and well protected.





### **SECURE TRANSPORT**

All APH plates are equipped with lifting and tie-down points that are based on European Rental Association (ERA) guidelines. The tie-down points make securing the machine fast and easy, ensuring success so that risks are minimised. A central lifting hook is integrated into the frame.



# **SERVICEABILITY**

### HIGH QUALITY COMPONENTS MAKE YOUR AMMANN APH PLATE LAST

### PROTECTIVE FRAME AND COVERS

Key parts and components are protected when things get rough. A new, updated machine frame offers significant protection, while an additional cover guards the vibratory system. Fleet owners and rental companies appreciate this extra protection.



### TOOL-FREE DAILY INSPECTION

Perfect access to all daily inspection points while also offering a quick overview of fluid levels. No tools are required to access daily service points, ensuring the maintenance is completed quickly.

### HYDRAULIC DRIVE

A powerful hydraulic system is built without any mechanical parts such as a centrifugal clutch or V belt. This technical solution reduces wear on the main components, improves productivity and reduces machine downtime. Service intervals are also extended.



# APH 50/75 APH 60/85

### **RELIABILITY IN PERFECTION**

The APH 50/75 and APH 60/85 Hydrostatic Plate Compactors feature a conventional twin-shaft exciter system that packs powerful compaction forces. These machines are highly reliable and trusted in the marketplace because of their robust design and long component life.

They can be operated easily and comfortably, even in tight areas, and works well around obstacles such as columns and in cohesive materials. The machines are also smooth when changing directions.



- Hydraulic pump for hydrostatic drive and responsive steering; no V belt required
- Air-cooled Hatz diesel engine with low oil pressure protection system
- Plates can be equipped with Ammann ACEecon
- Extension plates enable a wide field of applications with a variety of working widths



# APH 55/75 APH 65/85 APH 85/95

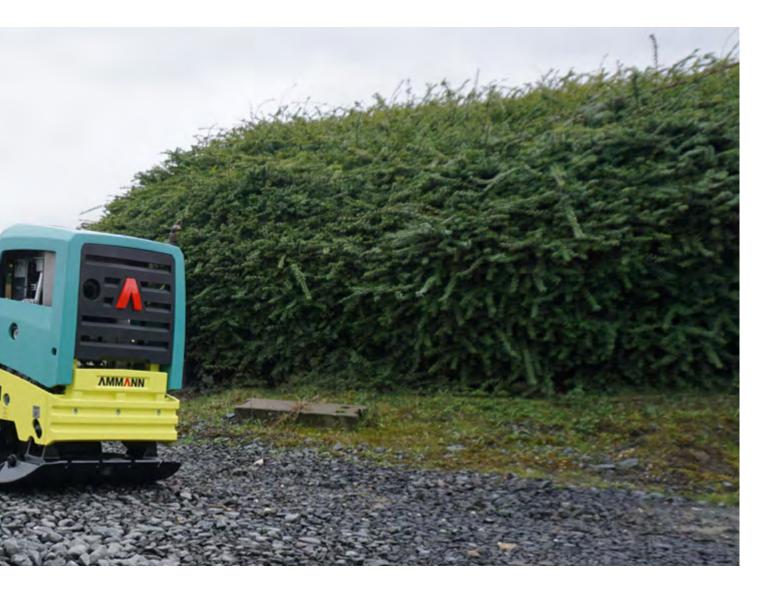
### **COMPACTION AND CLIMBING POWER**

These hydrostatic vibratory plate compactors distinguish themselves with high compaction power and climbing ability.

Several options, such as an electric starter, extension plates, operation hour meter and ACE<sup>econ</sup> allow for customisation to make the plate fit your particular needs.



- Hydrostatic triple-shaft exciter system for power and climbing
- Air-cooled Hatz diesel engine with low oil pressure protection system
- Plates can be equipped with Ammann ACEecon



# **APH 110/95**

### THE SUPERIOR VIBRATORY PLATE COMING FROM AMMANN

The APH 110/95 is the premiere vibratory plate compactor in the Ammann lineup in size and compaction punch. It is the heaviest plate, with weights ranging from 778 kg to 830 kg. With its high compaction capabilities the machine matches the output of a 7 t soil compactor.

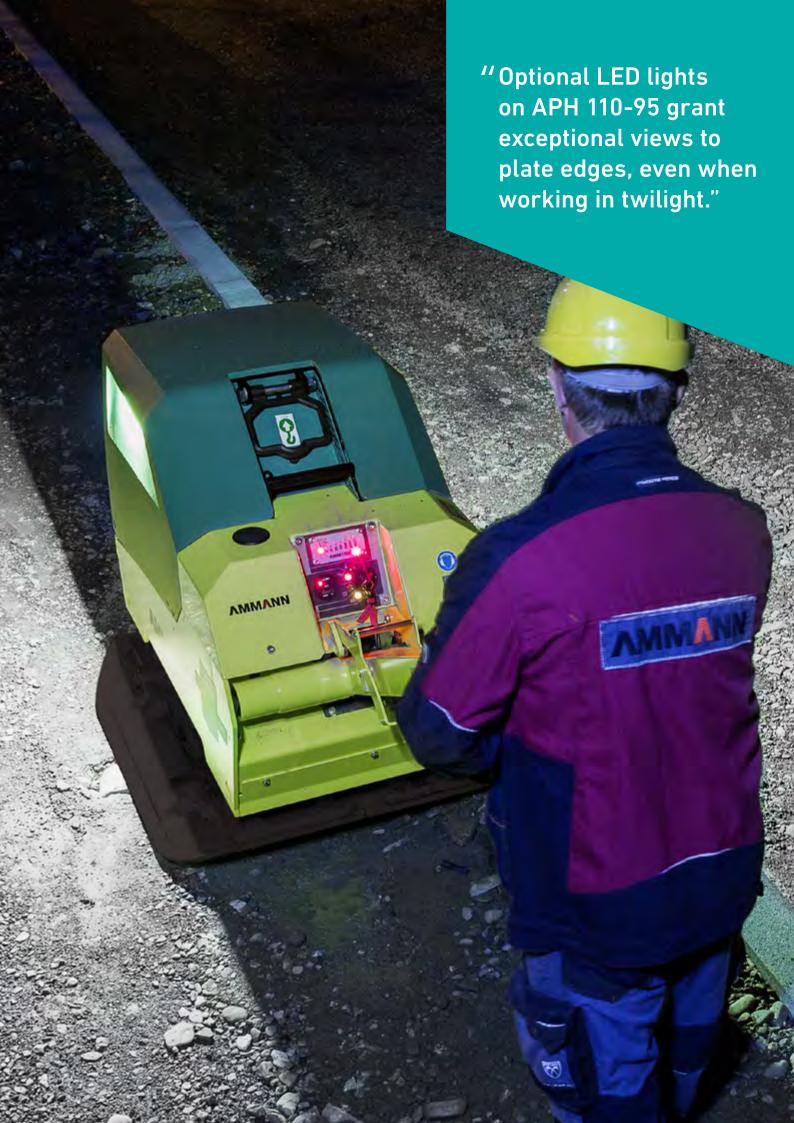
A powerful Kubota diesel engine provides sufficient power for the heavy-duty tasks this machine faces.

The APH 110/95 is built for professionals with most features – including the ACE<sup>econ</sup> compaction measuring system.



- Hydrostatic triple-shaft exciter system for power and climbing
- Water-cooled Kubota diesel engine with low oil pressure protection system
- ACE<sup>econ</sup> compaction measuring system included as standard
- Many features already included in standard machine







## **APH 1000 TC**

### REMOTE CONTROLLED COMPACTION PLATE

The APH 1000 TC is an IR remote-controlled hydrostatic plate that can go where others can't. The IR remote abilities ensure operation under the toughest conditions – and in the tightest spaces and deepest trenches. The operator is able to steer the vibratory plate from a safe distance with a remote control or cable remote.

The APH 1000 TC achieves high compaction results even in the deepest trenches and most impassable areas thanks to its high performance and to the compact machine design. It is very responsive to the operator's commands.

### **BUILT-IN SAFETY**

Safety is built into the machine, including an emergency stop on the remote control. The vibratory plate automatically shuts off if a connection to the operator is lost or if the machine comes within 2 m of the operator.

### **WORKING FROM A SAFE DISTANCE**

Remote control of the plate provides several benefits. First, operators need not enter trenches, and therefore do not encounter emissions. In addition, canals and trenches can be compacted with the operator safely above.

Only two toggle switches are needed to guide the machine, so control is easy. A separate switch starts and stops vibration.



### **HIGHLIGHTS**

- Hydrostatic twin-shaft exciter system
- Air-cooled Hatz diesel engine with low oil pressure protection system
- Hydraulic pump for hydrostatic drive and steering; no V belt
- Robust IR remote control with solar panels for long work intervals

An emergency button stops the machine immediately. In addition, the machine automatically stops when the operator is closer than 2 metres or it loses its connection to the remote control's infrared signal.

The remote control is solar powered and works even on cloudy days. It also can be plugged in and fully charged within a few minutes.

A long cable is available as a backup to the remote.





# **OPTIONAL EQUIPMENT**

### **CUSTOMIZE YOUR APH PLATE**

No jobsite and no operator is like another. APH Plates from Ammann offer several options, allowing for customisation to make the plate fit your particular needs.



### **E-START**

E-Start versions fire up the plate compactor. E-Start is a convenience for experienced operators and also helps new operators get up and running effortlessly.



### **EXTENSION PLATES**

Extension plates in 2 different sizes expand the compaction surface area and add productivity. Adding an extension requires the adjustment of only 4 screws per side and can be quickly accomplished on the jobsite.



### WEAR-RESISTANT BASE PLATE

A wear-resistant base plate offers extra protection when working on especially hard materials. The plate is easy to install and replace.



### **RUBBER MAT**

The mats are attached to the plates and prevent cracking and breaking of paving stones and other sensitive materials while still delivering the required compaction power. Installation of the vulcolan mats is easy and can be done directly on site.

### **OPTIONS**

	APH 50/75 Diesel	APH 55/75 Diesel	APH 60/85 Diesel	APH 65/85 Diesel	APH 85/95 Diesel	APH 85/95 Petrol	APH 110/95 Diesel	APH 1000 TC Diesel
EXTENSION PLATES	75 mm / 150 mm (3 in / 5.9 in)	75 mm / 150 mm (3 in / 5.9 in)	75 mm / 150 mm (3 in / 5.9 in)	75 mm / 150 mm (3 in / 5.9 in)	75 mm / 150 mm (3 in / 5.9 in)	75 mm / 150 mm (3 in / 5.9 in)	75 mm / 150 mm (3 in / 5.9 in)	75 mm (3,0 in)
OPERATION HOUR METER	x	х	х	х	х	х	Standard	х
ELECTRIC STARTER	x	х	х	х	Standard	Standard	Standard	Standard
EMERGENCY STOP	x	х	х	х	Standard	Standard	Standard	-
ACEecon	x	х	х	х	х	х	Standard	_
WORKING LIGHTS	-	-	-	-	-	-	х	-

x = available / - = not available

### ACE COMPACTION EXPERT - BIG TECHNOLOGY IN A SMALL PACKAGE

APH Hydrostatic Vibratory Plates can be equipped with the well known Ammann Compaction Expert (ACE), an automated compaction measurement and control system.

The ACE system on the vibratory plates utilises the well developed technology used in Ammann's heavy compaction machines for years. It provides operators with an accurate indication of soil stiffness and whether desired compaction has been achieved.

### The benefits of ACE technology are significant:

- 1. It can reduce the number of passes a plate compactor makes, therefore delivering savings on fuel, labour and machine wear.
- 2. ACE helps ensure proper compaction is achieved and prevents costly rework.
- 3. It extends the life of the compacted material and structures placed on top of it – by providing a homogenous surface without weak spots.

### HIGHLIGHTS ACEecon





about compaction levels

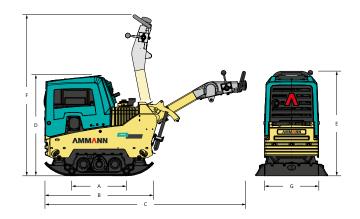
• Evaluates when maximum compaction has been reached

ACE econ available on APH 50/75, APH 55/75, APH 60/85, APH 65/85, APH 85/95 and APH 110/95



# **SPECIFICATIONS**

### APH HYDROSTATIC VIBRATORY PLATES

















		APH 50/75 Diesel	APH 55/75 Diesel	APH 60/85 Diesel	APH 65/85 Diesel	APH 85/95 Diesel	APH 85/95 Petrol
MA	CHINE WEIGHT	350 kg (772 lb)	362 kg (798 lb)	464 kg (1023 lb)	471 kg (1038 lb)	760 kg (1676 lb)	740 kg (1631 lb)
Α	BASE PLATE LENGTH	450 mm (17.7 in)	450 mm (17.7 in)	470 mm (18.5 in)	470 mm (18.5 in)	520 mm (20.5 in)	520 mm (20.5 in)
В	MACHINE LENGTH	900 mm (35.4 in)	900 mm (35.4 in)	930 mm (36.6 in)	930 mm (36.6 in)	1070 mm (42.1 in)	1070 mm (42.1 in)
С	M. L. WITH HANDLE	1600 mm (63.0 in)	1600 mm (63.0 in)	1840 mm (72.4 in)	1840 mm (72.4 in)	1965 mm (77.4 in)	1965 mm (77.4 in)
D	MACHINE HEIGTH	820 mm (32.3 in)	820 mm (32.3 in)	905 mm (35.6 in)	905 mm (35.6 in)	910 mm (35.8 in)	910 mm (35.8 in)
Е	HANDLE HEIGHT (WORK)	1000 mm (39.4 in)					
F	H. H. (TRANSPORT)	1500 mm (59.1 in)					
G	MACHINE WIDTH	450/600/750 mm (17,7/23.6/29.5 in)	450/600/750 mm (17,7/23.6/29.5 in)	550/700/850 mm (21,7/27.6/33.5 in)	550/700/850 mm (21,7/27.6/33.5 in)	650/800/950 mm (25.6/31.5/37.4 in)	650/800/950 mm (25.6/31.5/37.4 in)

### **ENGINE**

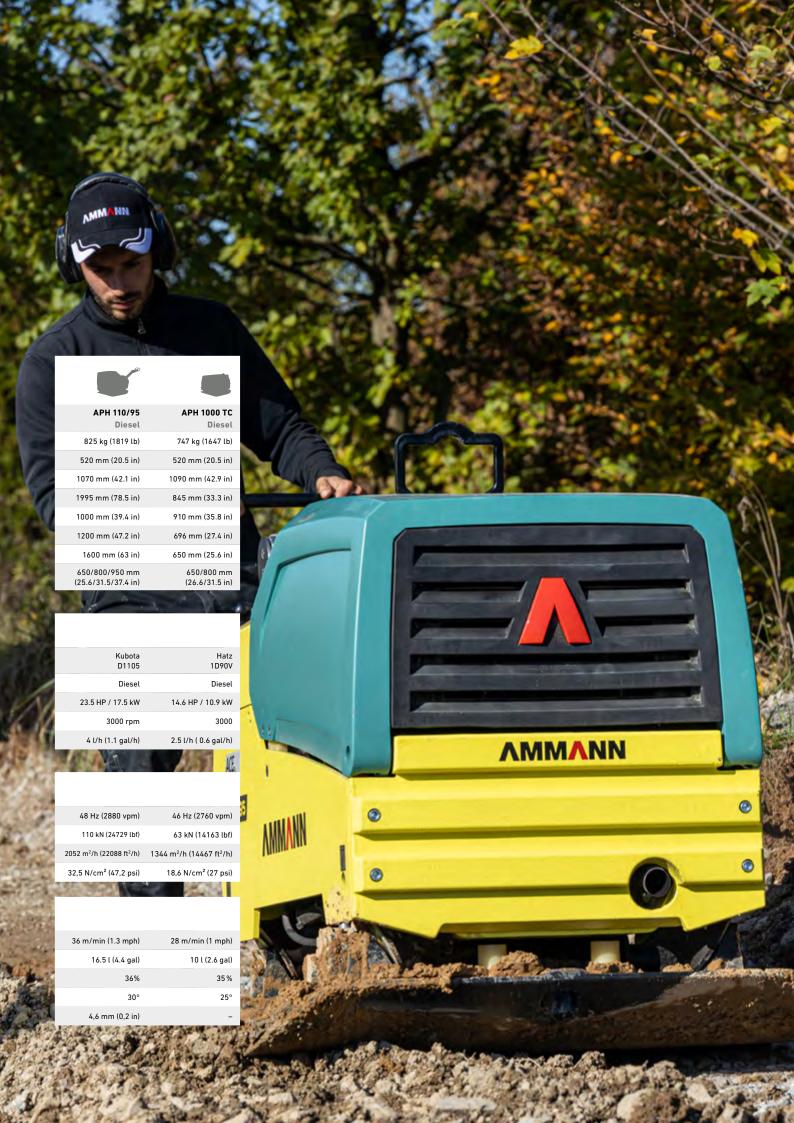
ENGINE	Hatz Supra 1D50S	Hatz Supra 1D50S	Hatz Supra 1D81S	Hatz 1D81S	Kubota D902	Briggs & Stratton V-Twin 5434
FUEL	Diesel	Diesel	Diesel	Diesel	Diesel	Petrol
ENGINE OUTPUT	9.4 HP / 7 kW	9.4 HP / 7 kW	13.5 HP / 10,1 kW	13.5 HP / 10,1 kW	18.0 HP / 13.4 kW	23.9 HP / 17.8 kW
AT RPM	3200 rpm	3200 rpm	3000 rpm	3000 rpm	2600 rpm	2600 rpm
FUEL CONSUMPTION	1.7 l/h (0.45 gal/h)	1.7 l/h (0.45 gal/h)	2.5 l/h (0.66 gal/h)	2.5 l/h (0.66 gal/h)	3.3 l/h (0.87 gal/h)	3.5 l/h (0.9 gal/h)

### **COMPACTION FORCES**

MAX. VIBRATION FREQUENCY	70 Hz (4200 vpm)	70 Hz (4200 vpm)	69 Hz (4140 vpm)	55 Hz (3300 vpm)	52 Hz (3120 vpm)	52 Hz (3120 vpm)
MAX. CENTRIFUGAL FORCE	50 kN (11240 lbf)	55 kN (12364 lbf)	60 kN (13488 lbf)	65 kN (14613 lbf)	85 kN (19109 lbf)	85 kN (19109 lbf)
WORKING SURFACE BASIC UNIT	1125 m²/h (12109 ft²/h)	1215 m²/h (13078 ft²/h)	1428 m²/h (15371 ft²/h)	1632 m²/h (17567 ft²/h)	1767 m²/h (19020 ft²/h)	1682 m²/h (18100 ft²/h)
MAX SURFACE PRESSURE	24,7 N/cm² (35,8 psi)	27,2 N/cm² (39,4 psi)	23,2 N/cm² (33,7 psi)	25,1 N/cm² (36,5 psi)	25,1 N/cm² (36,5 psi)	25,1 N/cm² (36,5 psi)

### **MISCELLANEOUS**

OPERATING SPEED	25 m/min (0.93 mph)	27 m/min (1.01 mph)	28 m/min (1.04 mph)	32 m/min (1.19 mph)	31 m/min (1.2 mph)	29.5 m/min (1.1 mph)
TANK CAPACITY	5 l (1.3 gal)	5 l (1.3 gal)	7 l (1.8 gal)	7 l (1.8 gal)	16 l (4,4 gal)	16 l (4,4 gal)
GRADEABILITY	36%	36%	36%	36%	36%	36%
MAX. INCLINE TO ALL SIDES	30°	30°	30°	30°	30°	30°
AMPLITUDE	1,7 mm (0,1 in)	2,3 mm (0,1 in)	1,9 mm (0,1 in)	3,9 mm (0,2 in)	4,1 mm (0,2 in)	4,1 mm (0,2 in)



# **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 APP**

The service app for Ammann machines impresses machine operators who are already benefiting from the advantages of the free application. The easy-to-use app provides machine operators working on site quick and uncomplicated access to machine documentation.

### **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.

### **QR CODE**

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.



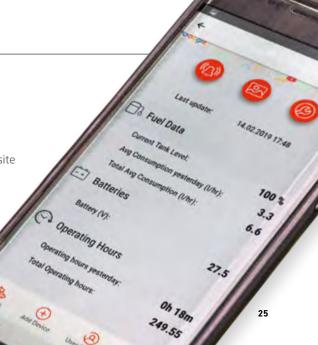


Manage your equipment – anytime, anywhere – with Ammann ServiceLink. This comprehensive fleet system provides key data for light compaction equipment, heavy compaction machines and asphalt pavers. You can choose which machines to track.



- Ammann ServiceLink utilises telematics that give you
  the locations of the machines, hours of usage and other
  essential information. You'll have access to data that
  will keep your machines running and make them more
  productive, too.
- Ammann ServiceLink makes it easy to plan and schedule the maintenance that protects your fleet.

- Easy to manage
- · Light equipment does not require a machine battery
- Great for rental fleets
- GPS tracking for location, efficiency and productivity information for a jobsite
- Full machine telematics to assess machine usage, fuel burn and idle time
- Machine documentation to help analyse and improve processes
- Easy management of service intervals and maintenance planning



### **TRAINING**

### **ENHANCE YOUR PERFORMANCE**

If Ammann machine training was summarised in a single word, it might well be "comprehensive." The training includes multiple expertise levels and modules to benefit all skill levels.

### TRAINING WORLDWIDE

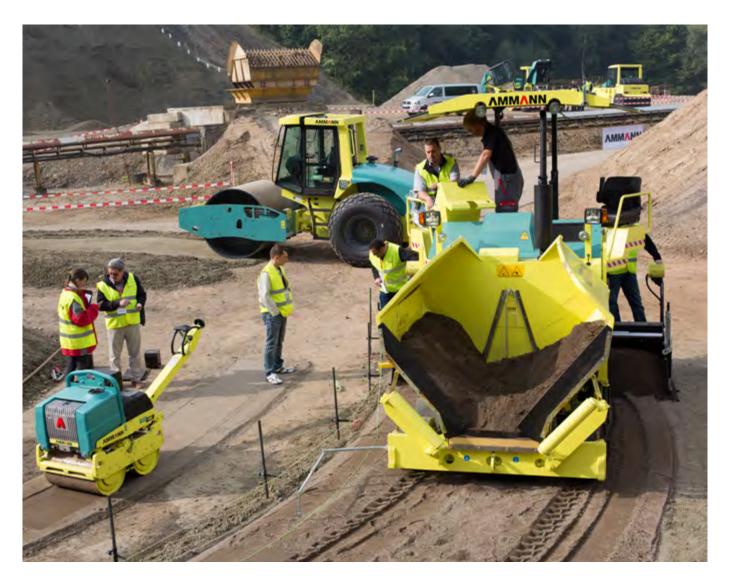
Ammann product and application experts are ready to provide the training you need, no matter where you are. The global nature of Ammann ensures an expert is always near you – ready to offer instruction that ranges from the basics to the specifics relevant to your geographic area. The training can take place at an Ammann facility, your business – or even on a jobsite.

### KEY TEACHING THEMES CONNECT ALL EFFORTS, NO MATTER WHERE THEY OCCUR

A good balance. Training often combines a traditional classroom setting with hands-on machine experience. Ammann application experts also can offer instruction on your jobsite.

Training typically includes students from other industry businesses. Participants say conversations with their peers – and learning how they overcome challenges – are other key benefits.

Learn in your language. Lessons are taught in many languages, ensuring your team understands key terms and lessons and makes the most of your training investment.



# 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.

### **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.



### 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.

### **BROCHURE 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.



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

