MACHINES

APA SERIES

APA ADD-ON COMPACTORS

AMMANN

THE RIGHT FIT

AMMANN APA ADD-ON COMPACTORS

Working on a particularly challenging compaction jobsite? It might be time for an Ammann Add-On Compactor. The add-ons fit on excavators, which use their reach to compact in hard-to-access places such as deep, narrow trenches and particularly steep grades. They also can provide more power than most other compaction machines for such applications.

TWIN-SHAFT EXCITER SYSTEM

APA 20/30

Working width: 300 mm (11.8 in)
Frequency: 60 Hz (3600 RPM)
Centrifugal force: 20 kN (4496 lbf)

APA 20/40

Working width: 400 mm (15.7 in)
Frequency: 60 Hz (3600 RPM)
Centrifugal force: 20 kN (4496 lbf)

APA 55/46

Working width: 460 mm (18.1 in)
Frequency: 45 Hz (2700 RPM)
Centrifugal force: 55 kN (12 364 lbf)

APA 55/56

Working width: 560 mm (22.0 in)
Frequency: 45 Hz (2700 RPM)
Centrifugal force: 55 kN (12 364 lbf)

APA 55/64

Working width: 640 mm (25.2 in)
Frequency: 60 Hz (3600 RPM)
Centrifugal force: 55 kN (12 364 lbf)

SINGLE SHAFT EXCITER SYSTEM

APA 72/74

Working width: 740 mm (29.1 in)
Frequency: 36 Hz (2160 RPM)
Centrifugal force: 72 kN (16 186 lbf)

APA 75/74

Working width: 740 mm (29.1 in)
Frequency: 36 Hz (2160 RPM)
Centrifugal force: 75 kN (16 861 lbf)

APA 75/74 2M

Working width: 740 mm (29.1 in)
Frequency: 36 / 55 Hz (2160 / 3300 RPM)
Centrifugal force: 75 / 40 kN
(16 861 / 8992 lbf)

APA 100/88

Working width: 880 mm (34.6 in)
Frequency: 36 Hz (2160 RPM)
Centrifugal force: 100 kN (22 481 lbf)

APA 100/88 2M

Working width: 880 mm (34.6 in)
Frequency: 36 / 55 Hz (2160 / 3300 RPM)
Centrifugal force: 100 / 55 kN
(22 481 / 12364 lbf)

APPLICATIONS

- Pipeline construction
- Residential and industrial developments
- Embankment and slope compaction
- Narrow work spaces, manhole compaction
- Structure backfill work
- Landfill construction
- Railroad construction

PRODUCTIVITY

High compaction power
Enables compaction of large dumping heights.

Productive on slopes and steep grades
Compacts in areas that are too steep for common compaction machines.

Robust machine design
APA machines have a long service life.

ERGONOMICS

Quick coupling solutions
Enables faster switching between buckets and compactors.

Hazard free operation from a safe distance
Operators can compact materials without entering trenches. Machines and operators don't have to climb steep, slippery slopes.

Safe control from cab
Remote machine adjustment from the excavator cab.

SERVICEABILITY

Maintenance-free machine
No regular maintenance required.

Robust machine structure
Maximum protection of key components and hydraulic hoses.

Dual rubber buffers
More durable while eliminating vibration to other parts of the machine.

BUILT FOR THE TOUGHEST CHALLANGES

OPTIONAL QUICK COUPLING SOLUTION

Fast switching between buckets and compactors.

ROTATOR SYSTEM

Easy adjustable angle of Add-on compactor from cab.

ROBUST MACHINE STRUCTURE

Hydraulic hoses are securely mounted above the plate or inside the machine frame for maximum protection. The robust machine construction provides durability and prevents damage to components on even the toughest jobsites.

PASSIVE RUBBER BUFFERS

Additional buffers protect the upper frame and carrier unit from the metal-to-metal contact that could otherwise result from an overpowered host machine.

2-STAGE EXCITER SHAFT

Two settings of compaction forces are available for APA 75/74 2M and APA 100/88 2M.

ACTIVE RUBBER BUFFERS

Side-mounted rubber buffers cushion the base plate, including the exciter unit, and limit the vibrations that reach the frame. The buffers protect both the compactor and the host machine.

VIBRATORY SYSTEM

Heavy-duty maintenance free vibratory system.

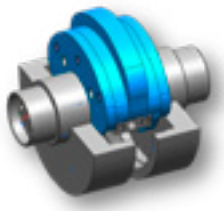
BASE PLATE

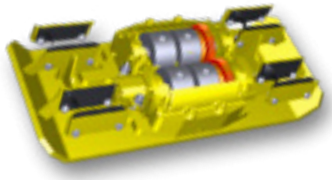
All Ammann APA Add-On Compactor base plates are made from high-resistant steel to provide long life and durability, no matter how abrasive the compacted materials.

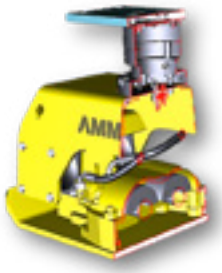
PROVIDING PRODUCTIVITY WHERE OTHERS FAIL

DELIVERING COMPACTION OUTPUT ANYWHERE

Quality and productivity need to be built into every machine. Ammann machines have both, and are easy to operate.







HIGH COMPACTION POWER MAXIMISES JOBSITE PRODUCTION

The reach and power of Ammann APA Add-On Compactors enable work in trenches and on the steepest of slopes. The compaction power of the APA line compacts as deep as 1 metre in a single pass - a height that would require multiple passes with a comparable handheld compactor.

STRONG EXCITER FOR BEST COMPACTION RESULTS

Ammann Add-On Compactors utilise powerful exciter systems that delivers high vibration frequencies while limiting the amplitude that could damage the host machine.

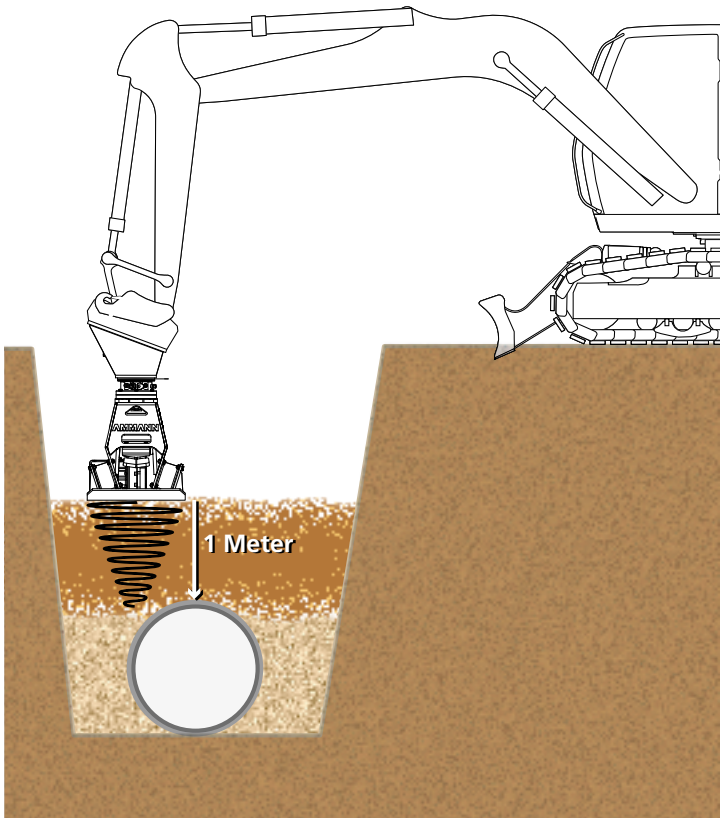
- Balanced twin shaft exciter on APA 20/30, APA 20/40, APA 55/46, APA 55/56 & APA 55/64
- Central single shaft exciter on APA 72/74, APA 75/74 & APA 100/88

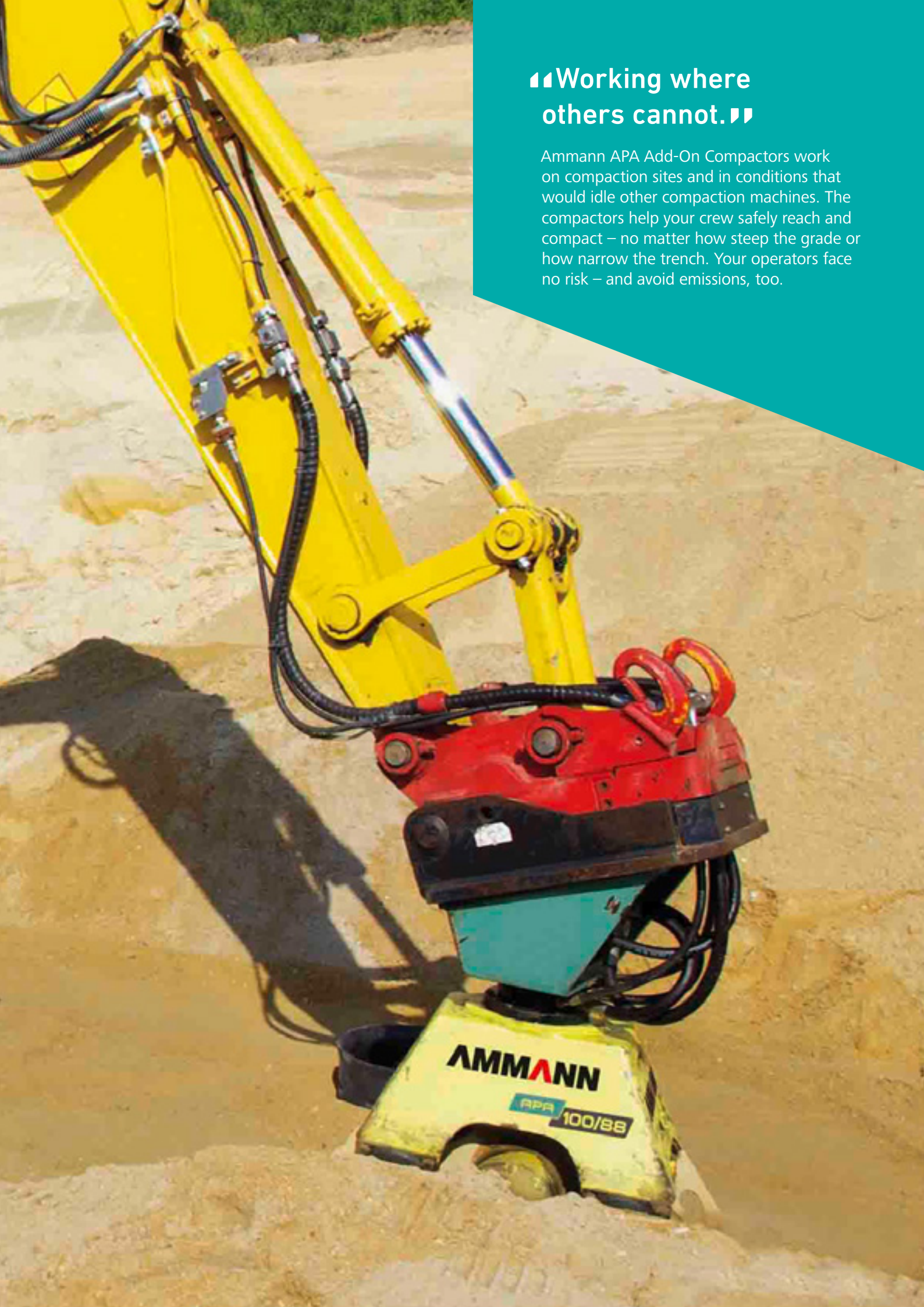
REDUCE MANUAL LABOR

Trench and slope work have traditionally been a two-man job: One to operate the excavator and the other to run the compaction machine.

Ammann APA Add-On Compactors allow the operator to tackle both tasks from the comfort of the operator cab. Your crew will save time on multiple fronts.

- No need to bring two machines on the jobsite and to switch between the excavator and the compaction machine.
- The quick-coupling system enables fast and easy work tool changes.
- The powerful APA Add-on Compactors achieve the compaction specifications even on cohesive and difficult-to-compact material, as well as in narrow working spaces that are difficult to access.





“Working where others cannot.”

Ammann APA Add-On Compactors work on compaction sites and in conditions that would idle other compaction machines. The compactors help your crew safely reach and compact – no matter how steep the grade or how narrow the trench. Your operators face no risk – and avoid emissions, too.

DIFFICULT COMPACTION JOBS MADE EASY

HAZARD FREE OPERATION FROM A SAFE DISTANCE

Crews save time and stay safe. Operators control compaction from the comfort and safety of the excavator cabs. The Add-On Compactors get the job done in places operators shouldn't go – including in trenches and on steep slopes.

SAFE CONTROL FROM CAB

Adjustments such as changing compaction angles and vibration are also done from the safety and comfort of the cab.

QUICK COUPLING SOLUTIONS

Ammann Add-On Compactors are compatible with all standard adapters on the market. The Ammann quick-coupling system allows the add-on to be connected and ready for action within seconds.

The Add-On Compactors are delivered as standard with a universal adapter plate with universal drill pattern and a hydraulic connection terminal. The connection to all common fully automatic, semi automatic or mechanical coupling systems is possible by bolting on a corresponding adapter.

“Fast mounting and safe operation make the Ammann APA Series a valuable addition to any fleet.”

APA 20/30
APA 20/40

IDEAL FOR GARDENING AND LANDSCAPE APPLICATIONS

The APA 20/30 and APA 20/40 are the smallest Ammann Add-On Compactors and work with mini excavators in the range of 3 tonnes to 5 tonnes, often in gardening and landscaping applications.

The APA 20/30 can be quickly and easily connected to the excavator. Only two hydraulic lines are needed for operation.

The APA 20/30 is equipped with a two-shaft directional exciter featuring a high frequency and low amplitude, which helps protect both the excavator and surrounding buildings.

“Daily maintenance without any tools: A promise from Ammann that eases the regular service on your equipment and results in longer lifetime of your machines.”

HIGHLIGHTS

- Patented vibration limitation system protects the excavator frame and operator
- Twin-shaft directional exciter
- Self-blocking mechanical rotating device
- Rubber bushings prevent metal-on-metal contact under extremely high pressures
- Runs on hydraulics, reducing emissions and fuel consumption
- Maintenance-free exciter unit
- No separate leakage oil line

APA 55/46
APA 55/56
APA 55/64

PRODUCTIVITY AT A COMPACT SIZE

The range of medium-sized APA Add-On Compactors features the three models APA 55/46, APA 55/56 and APH 55/64. These Add-On Compactors are the best fit for medium-sized excavators up to 12 tonnes operating weight.

The compactors can be mounted in a few minutes and dont require hydraulic quick coupling devices. Only two hydraulic hoses are needed.

The plates are equipped with a two-shaft directional exciter featuring a relatively high frequency and low amplitude, which helps protect both the excavator and surrounding buildings.

SPECIALISED FOR URBAN USAGE

With its larger working width of 640 mm, the APA 55/64 is the perfect fit for urban jobsites for applications in more sensitive surroundings.

HIGHLIGHTS

- Patented vibration limitation system protects the excavator frame and operator
- Twin-shaft directional exciter
- Self-blocking mechanical rotating device
- Rubber bushings prevent metal-on-metal contact under extremely high pressures
- Runs on hydraulics, reducing emissions and fuel consumption
- Maintenance-free exciter unit
- No separate leakage oil line


AMMANN
RPR 55/46

APA 72/74
APA 75/74
APA 100/88

WHEN COMPACTION POWER IS WHAT REALLY MATTERS

The large class of APA Add-On Compactors from Ammann is built for the 10-tonne to 40-tonne excavator class and for applications where a strong compaction performance is required.

The plates deliver excellent compaction power and impressive results. Layers as thick as 1 metre can be compacted, providing significant time savings when compared to traditional vibratory plates. The add-on compactors' versatility and robust design ensure they're ready to work at any time, in any application.

HIGHLIGHTS

- Patented vibration limitation system protects the excavator frame and operator
- Rubber bushings prevent metal-on-metal contact under extremely high pressures
- Runs on hydraulics, reducing emissions and fuel consumption
- Maintenance-free exciter unit
- Available without rotary device for excavators that are already equipped with a tilt rotator
- Can directly mount a quick coupling system on the rotator

APA 75/74 2M
APA 100/88 2M

HIGHLY EFFICIENT WITH TWO WORKING MODES

The APA 75/74 and APA 100/88 models are available in two-mode (2M) versions that allow the operator to easily change the frequency and centrifugal force.

Switching between modes makes the two large add-on compactors even more versatile and prevents damage when working on sensitive jobsites or when compacting material that covers tubes, pipes or cables.

The add-on compactors are suitable for excavators from 12 tonnes to 40 tonnes (APA 100/88 2M). This allows the use of machines in varied conditions and on smaller jobsites where space is tight but heavy compaction power is still required.

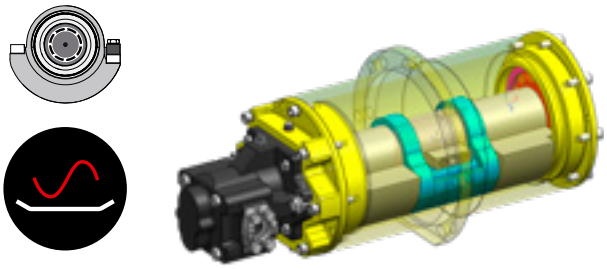
SWITCH BETWEEN MODES

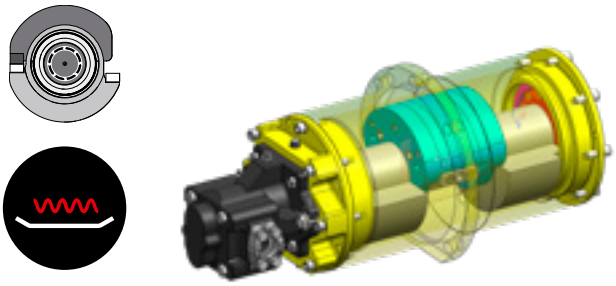
An innovative solution enables operators to access two working modes.

The exciter system utilises a shaft with three mounted weights. Two of the weights are screwed tight. The third can be repositioned by changing the direction of the shaft's rotation. Two working modes are created by turning the two fixed weights and the third weight in relation to each other.

One mode provides a low power level for sensitive compaction. In this mode, the add-on compactor works with increased frequency.

The second mode provides high power for compaction of thick layers. In this mode, the Ammann compactor works at a low frequency with high balancing force. The result is compaction of layers as thick as one metre.





OPTIONAL EQUIPMENT

BRINGING FLEXIBILITY FROM ONE JOBSITE TO THE NEXT

ROTATOR SYSTEMS

Is your excavator lacking a rotator? No problem. Ammann APA Add-On Compactors can utilise rotator systems that enable the attachment to turn to the desired angle. Your crew will reach every last spot!

	APA 20/30 APA 20/40	APA 55/46 APA 55/56	APA 55/64	APA 72/74	APA 75/74 APA 100/88	APA 75/74-2M APA 100/88-2M
NO ROTATOR	x	x	x	-	-	-
MECH. ROTATOR	x	x	x	-	-	-
HYDR. ROTATOR	x	x	x	x	x	x

PILE DRIVER

The pile driver is simple to use and brings safety and efficiency to your project. The optional pile driver is bolted to the APA Add-On Compactor and provides secure grip on piles of divers sizes. The vibration and compaction force of the Add-On Compactor drive the pile in the ground with ease.

QUICK COUPLING

A universal adapter plate with a Krupp drill pattern and a hydraulic connection terminal is standard on each add-on compactor. A change adapter can easily be bolted on to connect to fully automatic, semi-automatic or mechanical coupling systems.

SPECIFICATIONS

WEIGHT & DIMENSIONS

	APA 20/30	APA 20/40	APA 55/46	APA 55/56	APA 55/64	APA 72/74	APA 75/74	APA 100/88	APA 75/74 2M	APA 100/88 2M
MACHINE WEIGHT	160 kg (353 lb)	170 kg (375 lb)	370 kg (816 lb)	385 kg (849 lb)	400 kg (882 lb)	640 kg (1411 lb)	670 kg (1477 lb)	875 kg (1929lb)	670 kg (1477 lb)	875 kg (1929 lb)
MACHINE WEIGHT (MECH.)	185 kg (408 lb)	195 kg (430 lb)	395 kg (871 lb)	410 kg (904 lb)	425 kg (937 lb)	830 kg (1830 lb)	850 kg (1874 lb)	1065 kg (2348 lb)	850 kg (1874 lb)	1065 kg (2348 lb)
MACHINE WEIGHT (HYD.)	230 kg (507 lb)	240 kg (529 lb)	440 kg (970 lb)	455 kg (1003 lb)	470 kg (1036 lb)	920 kg (2028 lb)	930 kg (2050 lb)	1170 kg (2579 lb)	930 kg (2050 lb)	1170 kg (2579 lb)
A LENGTH	875 mm (34.4 in)	875 mm (34.4 in)	1142 mm (45 in)	1142 mm (45 in)	1142 mm (45 in)	1142 mm (45 in)	1142 mm (45 in)	1295 mm (51 in)	1142 mm (45 in)	1295 mm (51 in)
B BASE PLATE LENGTH	790 mm (31.1 in)	790 mm (31.1 in)	947 mm (37.3 in)	947 mm (37.3 in)	947 mm (37.3 5 in)	1027 mm (40.4 in)	1027 mm (40.4 in)	1095 mm (43.1 in)	1027 mm (40.4 in)	1095 mm (43.1 in)
C HEIGHT	405 mm (15.9 in)	405 mm (15.9 in)	495 mm (19.5 in)	495 mm (19.5 in)	495 mm (19.5 in)	652 mm (25.7 in)	652 mm (25.7 in)	–	652 mm (25.7 in)	–
C1 HEIGHT (MECH.)	485 mm (19.1 in)	485 mm (19.1 in)	580 mm (22.8 in)	580 mm (22.8 in)	580 mm (22.8 in)	1200 mm (47.2 in)	1200 mm (47.2 in)	1200 mm (47.2 in)	1200 mm (47.2 in)	1200 mm (47.2 in)
C2 HEIGHT (HYD.)	645 mm (25.4 in)	645 mm (25.4 in)	735 mm (28.9 in)	735 mm (28.9 in)	735 mm (28.9 in)	910 mm (35.8 in)	910 mm (35.8 in)	910 mm (35.8 in)	910 mm (35.8 in)	910 mm (35.8 in)
C3 HEIGHT (HYD+UNIV.)	-	-	-	-	-	1380 mm (54.3 in)	1380 mm (54.3 in)	1380 mm (54.3 in)	1380 mm (54.3 in)	1380 mm (54.3 in)
D DIAMETER	910 mm (35.8 in)	910 mm (35.8 in)	1205 mm (47.4 in)	1205 mm (47.4 in)	1205 mm (47.4 in)	1320 mm (52 in)	1320 mm (52 in)	1500 mm (59.1 in)	1320 mm (52 in)	1480 mm (58.3 in)
W WIDTH	300 mm (11.8 in)	400 mm (15.7 in)	460 mm (18.1 in)	560 mm (22 in)	640 mm (25.2 in)	740 mm (29.1 in)	740 mm (29.1 in)	880 mm (34.6 in)	740 mm (29.1 in)	880 mm (34.6 in)
RECOMMENDED CARRIER SIZE	3 - 5 t (3 - 5.5 t)	3 - 5 t (3 - 5.5 t)	4 - 12 t (4.5 - 13 t)	4 - 12 t (4.5 - 13 t)	4 - 12 t (4.5 - 13 t)	10 - 20 t (11 - 22 t)	12 - 25 t (13 - 27.5 t)	12 - 40 t (13 - 44 t)	12 - 25 t (13 - 27.5 t)	12 - 40 t (13 - 44 t)

COMPACTION FORCES

MAX. VIBRATION FREQUENCY	60 Hz (3600 RPM)	60 Hz (3600 RPM)	45 Hz (2700 RPM)	45 Hz (2700 RPM)	60 Hz (3600 RPM)	36 Hz (2160 RPM)	36 Hz (2160 RPM)	36 Hz (2160 RPM)	36 Hz (2160 RPM)	36 Hz (2160 RPM)
MAX. CENTRIFUGAL FORCE	20 kN (4496 lbf)	20 kN (4496 lbf)	55 kN (12 364 lbf)	55 kN (12 364 lbf)	55 kN (12 364 lbf)	72 kN (16 186 lbf)	84 kN (18 884 lbf)	100 kN (22 481 lbf)	75 kN (16 861 lbf)	100 kN (22 481 lbf)
MAX. VIBRATION FREQUENCY (2M)	–	–	–	–	–	–	–	–	55 Hz (3300 RPM)	55 Hz (3300 RPM)
MAX. CENTRIFUGAL FORCE (2M)	–	–	–	–	–	–	–	–	40 kN (8992 lbf)	55 kN (12 364 lbf)
SPEC. SURFACE PRESSURE	8,4 N/cm² (12.2 psi)	6,3 N/cm² (9.2 psi)	12,6 N/cm² (18.3 psi)	10,4 N/cm² (15 psi)	9,1 N/cm² (13.2 psi)	9,5 N/cm² (13.7 psi)	11,1 N/cm² (16 psi)	10,4 N/cm² (15.1 psi)	9,9 N/cm² (14.3 psi)	10,4 N/cm² (15.1 psi)

MISCELLANEOUS

HYDRAULIC CONNECTIONS	Forward - Return	Forward - Return	Forward - Return	Forward - Return	Forward - Return	Turn - Forward - Return - Leak - Turn	Turn - Forward - Return - Leak - Turn	Turn - Forward - Return - Leak - Turn	Turn - Forward - Return - Leak - Turn	Turn - Forward - Return - Leak - Turn
REQUIRED HYDRAULIC PRESSURE	100 bar (1450.4 psi)	100 bar (1450.4 psi)	150 bar (2175.6 psi)	150 bar (2175.6 psi)	150 bar (2175.6 psi)	250 bar (3625.9 psi)	250 bar (3625.9 psi)	250 bar (3625.9 psi)	250 bar (3625.9 psi)	250 bar (3625.9 psi)
REQUIRED VOLUME FLOW	60 l/min (3661 in³/min)	60 l/min (3661 in³/min)	80 l/min (4882 in³/min)	80 l/min (4882 in³/min)	110 l/min (6712 in³/min)	90 l/min (5492 in³/min)	150 l/min (9153 in³/min)	150 l/min (9153 in³/min)	150 l/min (9153 in³/min)	150 l/min (9153 in³/min)
MAX. RETURN PRESSURE	30 bar (435.1 psi)	30 bar (435.1 psi)	30 bar (435.1 psi)	30 bar (435.1 psi)	30 bar (435.1 psi)	10 bar (145 psi)	10 bar (145 psi)	10 bar (145 psi)	10 bar (145 psi)	10 bar (145 psi)

OPTIONS

EXTENSION	-	-	x	-	-	-	-	-	-	-
PILE DRIVER	x	x	x	x	-	-	-	-	-	-

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