

LIGHT COMPACTION

TRENCH ROLLERS

TRENCH ROLLER SERIES



AMMANN

WINNING IN THE TRENCHES

Rammax invented trench rollers more than 40 years ago, and efforts have been made to improve the machines while also preserving what makes them successful. Today, Ammann is the only manufacturer to still offer both articulated and skid-steered trench rollers. The longevity of the product line and the continuation of the versions prove Ammann's commitment to this market.

INTRODUCTION

- Range of Ammann Trench rollers consist of 2 models:
 - Rammax 1575 – Articulated
 - Rammax 1585 – Rigid frame
- Excellent Operator comfort and unique compaction output and productivity
- With Yanmar and Hatz Tier 4i/EU Stage 3A engines

“Ammann trench rollers excel in a variety of applications, including difficult cohesive soils.”

TWO PRODUCTIVE VERSIONS



ARR 1575

The ARR 1575 features an articulation joint with oscillation, providing exceptional ground contact and optimal compaction results. The consistency also creates particularly smooth surfaces. The oscillation feature also reduces the chances of tipping.

- Articulated steering concept
- Engine compartment located on the front frame for balance
- Maintenance-free articulation joint with oscillation
- Exciters in both drum axles
- Central lifting hook
- Permanent contact to ground due to oscillation
- IR remote control
- Working widths from 640mm to 850 mm



ARR 1585

The ARR 1585 is a skid-steered machine that enables powerful compaction forces to be applied to particularly difficult spots. It also can cover ground when in less challenging conditions.

- Manoeuvrable, with 360° on-spot turning
- Strongest machine on the market
- No lubrication points or V belts
- Central position of the eccentric shaft
- Central lifting hook
- Proven machine concept that brings deeper compaction impact
- Several control versions: IR, manual, cable – or a combination
- Working widths from 630 mm to 850 mm

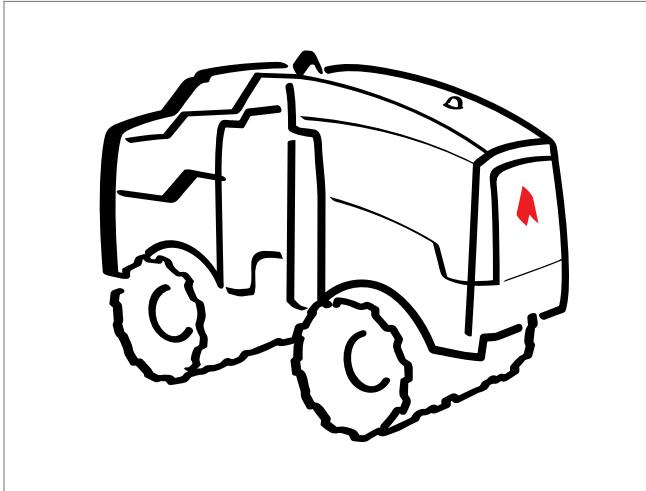
“A circular vibrator and two amplitude settings boost the machines' effectiveness.”



FEATURES AND BENEFITS

READY FOR THE CHALLENGE

Trench work is difficult, but Ammann ARR Trench Rollers are ready for the challenge. Multiple machine features help make operators efficient and improve productivity. The vibratory systems, as well as 2 different machine types, ensure the rollers overcome the varied materials they often encounter.



DESIGN

- Easy to use
- Powerful compaction output
- Central lifting hook
- Engine compartment on front frame for traction, weight distribution
- ARR 1585 maneuverable with 360° on-the-spot turning
- ARR 1575 has tight turning radius thanks to articulation concept
- 2 steering cylinders for responsiveness, precision
- With optional drum extension kit, working width can be adjusted from 640 mm to 850 mm to maximize productivity and use in confined spaces



SAFETY

- Oscillation feature on the ARR 1575 reduces the chances of tipping
- Infrared (IR) Remote Control system built for safety
- Perfectly positioned with no dead angles
- Safely operable from a distance, even without trench boxes
- Machine shuts off if visual contact is lost
- No blind spots; the receiver eye for the infrared remote
- Control is on top of the machine

TWO VERSIONS

The ARR 1575 is the articulated trench roller, while the ARR 1585 is the skid-steered version.

The ARR 1575 features an articulation joint with oscillation, providing perfect ground contact, optimal compaction results and unmatched machine stability.

The ARR 1585 provides deeper compaction and higher maneuverability through its high output circular exciter and skid-steer design.

DRIVE TRAIN

OVERCOMING GRADES AND CLAYS

The engine behind the rammers provides the necessary power to overcome steep grades as well as wet and sticky soils. Hydrostatic drive and hydromechanical brakes create consistent power, compaction and smooth starts and stops.

THE ENGINE

- Quiet, powerful and fuel-efficient Yanmar engine in ARR1575
- Fully automatic control system reduces rpm to idle during standstill
- Quickly reaches working speed, reducing diesel consumption and noise levels
- Robust, proven, hardworking HATZ engine in ARR1585
- Engines do meet all local emissions standards

EASY ACCESS TO SERVICE POINTS

- Wide hood opening to access desired service points, fuel/oil tanks and components
- Maintenance-free articulation and oscillation ball joint on ARR 1575

“The hood opens wide to help crew members and technicians access the desired service points and components.”



APPLICATIONS

OVERCOMING CLAYS AND OTHER CHALLENGES

Trench rollers perform well in cohesive soil types that can be difficult to compact. The Ammann ARR 1575 and ARR 1585 are able to overcome the high moisture content in clays through their extreme compaction energy and the kneading effect of their padfoot drums. The machines perform effectively and quickly on less challenging soils, too.

APPLICATIONS

- Pipeline construction
- Commercial, residential and industrial development
- Structure backfill work
- Confined work spaces
- Electric and cable installation
- Dumpsite and landfill jobsites



VIBRATORY SYSTEM

ACHIEVING HIGH COMPACTION OUTPUT

A low centre of gravity ensures the vibration reaches its target. Also enabling effectiveness are a circular vibrator and 2 amplitude settings. These tools prove useful regardless of the materials and their moisture levels.

VIBRATORY SYSTEM

- Low centre of gravity provides great stability and helps reach targeted compaction level
- Front and rear drums vibrate
- Roller performs well in cohesive soils, in part because of kneading effect
- ARR 1585 Centralized vibration system drives compaction force
- ARR 1575 Systems features circular vibrator and 2 amplitude settings.



ARR 1575



ARR 1585

OPERATOR COMFORT

INNOVATIVE CONTROLS

The use of an Infrared (IR) Remote Control eliminates the vibrations that operators would experience with other trench rollers. Operators also can stay a comfortable distance from the roller, yet safety features ensure they never lose control of the machine. The ARR 1585 offers operation options beyond IR.



IR REMOTE CONTROL

- Has integrated solar panels for charging of transmitter
- Up to 10 devices can work on a jobsite without signal interference

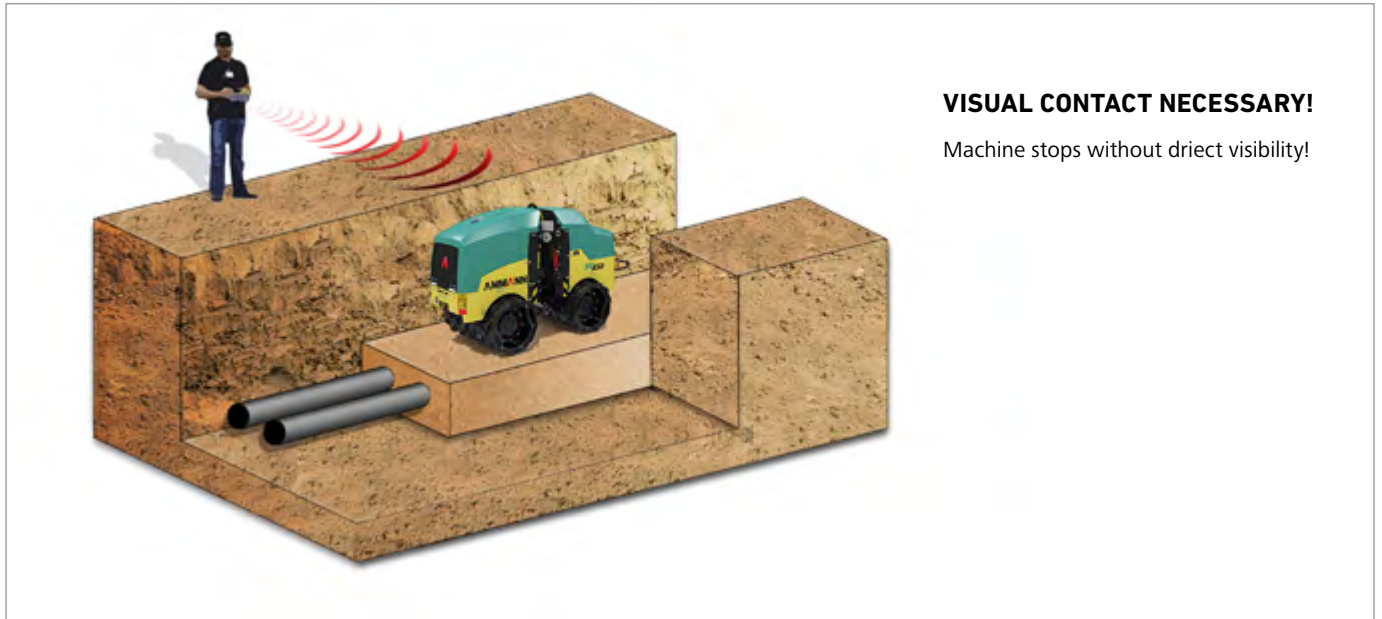
SAFETY FEATURES

- Visual contact necessary
- Short/far distance turn off
- Perfectly positioned with no dead angles
- Fully compliant with machine directives

The roller excels on small and medium-sized compaction jobsites, road construction projects and industrial sites.



1. REMOTE CONTROL ARR 1575, RAMMAX 1575
2. REMOTE CONTROL ARR 1585, RAMMAX 1585
3. ARR 1575



**HIGHEST OPERATION SAFETY BY
INFRARED-REMOTE CONTROL**

- Visual contact necessary
- Short/far distance turn off
- Transmission safety angle horizontal and vertical

4. RAMMAX 1575
5. RAMMAX 1585

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^{force}, ACE^{pro} and ACE^{plus} 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.”**

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.

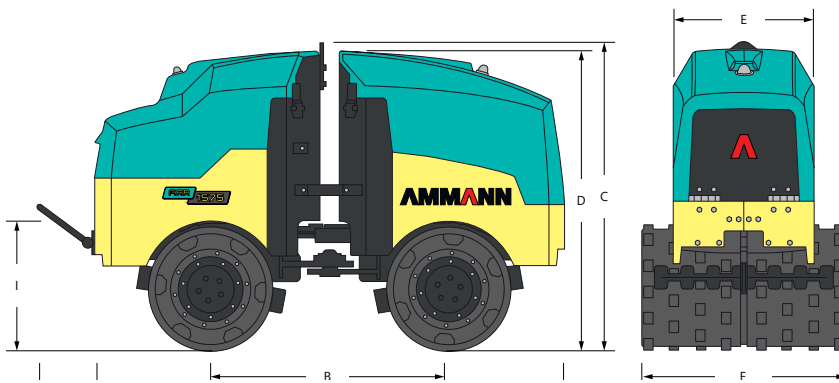


DIMENSIONS

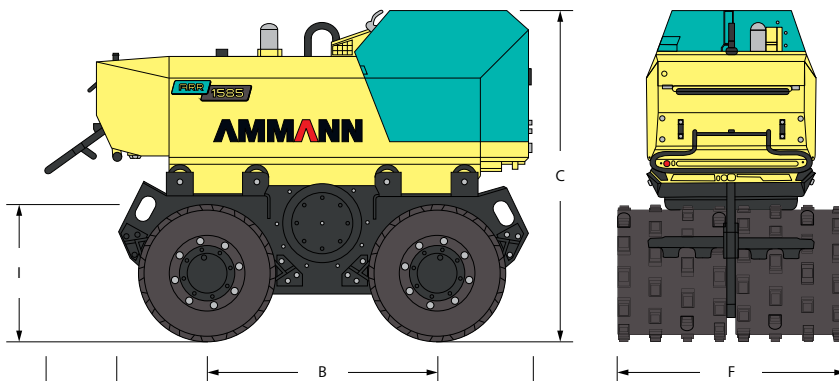
TRENCH ROLLERS

DIMENSIONS

	ARR 1575	RAMMAX 1575	ARR 1585	RAMMAX 1585
A MACHINE LENGTH	1980 mm (78 in)	1980 mm (78 in)	1520 mm (59.8 in)	1520 mm (59.8 in)
B WHEELBASE	1000 mm (39.4 in)	1000 mm (39.4 in)	850 mm (33.5 in)	850 mm (33.5 in)
C MACHINE HEIGHT	1317 mm (51.9 in)	1317 mm (51.9 in)	1200 mm (47.2 in)	1200 mm (47.2 in)
D MACHINE HEIGHT (HOOD)	1282 mm (50.5 in)	1282 mm (50.5 in)	–	–
E MACHINE WIDTH	601 mm (23.7 in)	601 mm (23.7 in)	–	–
F DRUM WIDTH	640/850 mm (25.2 / 33.46 in)	640/850 mm (25.2 / 33.46 in)	630/850 mm (24.8/33.46 in)	630/850 mm (24.8/33.46 in)
G MACHINE LENGTH	2227 mm (87.7 in)	2227 mm (87.7 in)	1780 mm (70.1 in)	1780 mm (70.1 in)
I DRUM DIAMETER	525 mm (20.7 in)	525 mm (20.7 in)	500 mm (19.7 in)	500 mm (19.7 in)



ARR 1575



ARR 1585

SPECIFICATIONS

TRENCH ROLLERS

MACHINES

	ARR 1575	RAMMAX 1575	ARR 1585	RAMMAX 1585
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MISCELLANEOUS

FUEL TANK CAPACITY	28 l (7.4 gal)	28 l (7.4 gal)	22 l (5.71 gal)	22 l (5.71 gal)
HYDRAULIC OIL CAPACITY	16 l (4.2 gal)	16 l (4.2 gal)	60 l (15.85 gal)	60 l (15.85 gal)

COMPACTION FORCES

FREQUENCY	40 Hz (2400 VPM)	40 Hz (2400 VPM)	30 Hz (1800 VPM)	30 Hz (1800 VPM)
AMPLITUDE	1.1 / 0.6 mm (0.04/0.02 in)	1.1 / 0.6 mm (0.04 / 0.02 in)	2.4 mm (0.09 in)	2.4 mm (0.09 in)
CENTRIFUGAL FORCE I	75 / 36 kN	75 / 36 kN	86 kN	86 kN

ENGINE

MANUFACTURER	Yanmar 3TNV80F	Yanmar 3TNV80F	Hatz 2 G 40	Hatz 2 G 40
POWER ACC. ISO 14396	14.6 kW (20 HP)	15.1 kW (20 HP)	13.4 kW (18.5 HP)	13.4 kW (18.5 HP)
ENGINE COMPLIES WITH EMISSION REGULATIONS	U.S. EPA Tier 4 Final	EU Stage IIIA, U.S. EPA Tier 4 Interim	U.S. EPA Tier 4 Final	EU Stage IIIA, U.S. EPA Tier 4 Interim
MAXIMUM TORQUE	68.4/1800 Nm/rpm	67/1800 Nm/rpm	50/2600 Nm/rpm	50/2600 Nm/rpm
NO OF CYLINDERS	3 / water cooling	3 / water cooling	2 / air cooling	2 / air cooling
DRIVE SYSTEM	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic

WEIGHT & DRIVING CHARACTERISTIC

	640/850 mm (25.2/33.46 in)	640/850 mm (25.2/33.46 in)	630/850 mm (24.8/33.46 in)	630/850 mm (24.8/33.46 in)
OPERATING WEIGHT	1340/1440 kg (2950/3170 lb)	1340/1440 kg (2950/3170 lb)	1410/1480 kg (3108.5/3262.8 lb)	1410/1480 kg (3108.5/3262.8 lb)
OSCILATION ANGLE	± 7°	± 7°	–	–
WORKING SPEED	1.4 km/h (0.9 MPH)	1.4 km/h (0.9 MPH)	0.96 km/h (0.6 MPH)	0.96 km/h (0.6 MPH)
TRAVEL SPEED	2.8 km/h (1.7 MPH)	2.8 km/h (1.7 MPH)	2.1 km/h (1.3 MPH)	2.1 km/h (1.3 MPH)
CLIMBING ABILITY	30 %	30 %	55 %	55 %
TURNING RADIUS INNER	1540/1440 mm (60.6/56.7 in)	1540/1440 mm (60.6/56.7 in)	0 mm (on spot)	0 mm (on spot)
TURNING RADIUS OUTER	2190/2290 mm (86.2/90.2 in)	2190/2290 mm (86.2/90.2 in)	–	–

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

