LIGHT COMPACTION

TRENCH ROLLERS

TRENCH ROLLER SERIES

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.

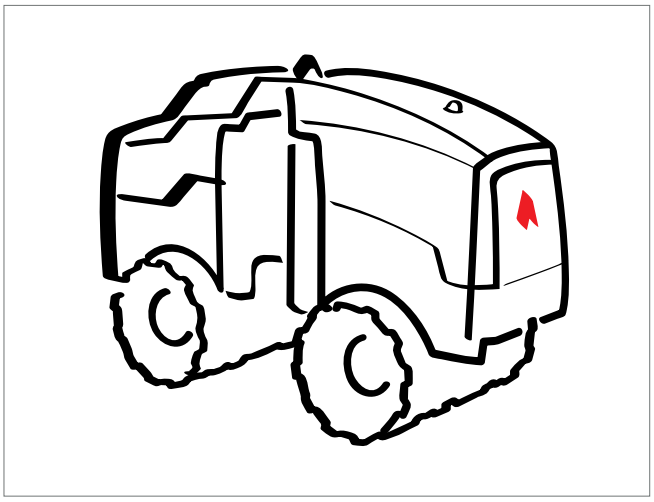
- Manoeuvrable, with 360° on-spot turning
- Strongest machine on the market
- No lubrication points or V belts
- Central position of the eccentric shaft
- Central lifting hook
- Proven machine concept that brings deeper compaction impact
- Several control versions: IR, manual, cable – or a combination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

VISUAL CONTACT NECESSARY!

Machine stops without driect visibility!

4.

5.

HIGHEST OPERATION SAFETY BY INFRARED-REMOTE CONTROL

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

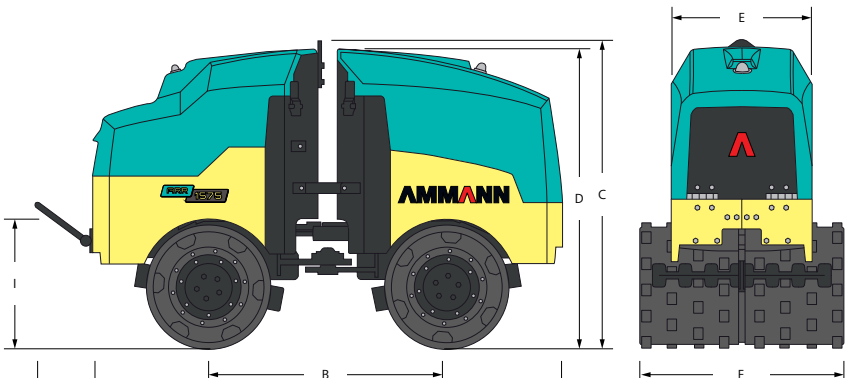
4. RAMMAX 1575
5. RAMMAX 1585

DIMENSIONS

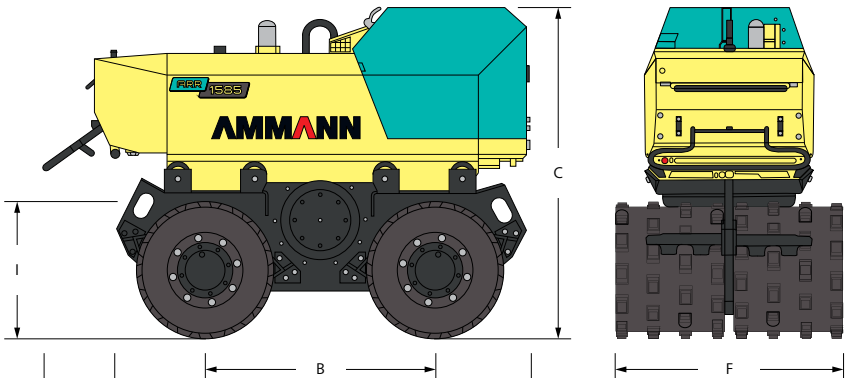
TRENCH ROLLERS

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

FUEL TANK CAPACITY	ARR 1575	RAMMAX 1575	ARR 1585	RAMMAX 1575

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)	–	–