

JOB REPORT

MACHINES



LAYS SOLID FOUNDATION

AMMANN ARS 200 SOIL COMPACTOR

Hens NV turned to the powerful Ammann ARS 200 Soil Compactor and the technologically advanced Ammann Compaction Expert (ACE) during a recent rail widening project.

The job called for expanding the existing Ghent-Bruges rail line in Belgium. Two new tracks were placed for a length of 16 km. The upgrade will provide several benefits, including separating slower freight and local passenger convoys from the higher-speed, express passenger trains.

Hens NV – a leading Belgium earthmoving, roadbuilding and demolition company – was hired to prepare the base on which the steel rails were placed.

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AMMANN COMPACTORS PASS THE TEST AMMANN ARS 200 SOIL COMPACTOR

The performance:

To create the rail line foundation, 0/80 mm crushed limestone was placed, leveled and compacted by the single-drum roller.

The ARS 200 was equipped with ACE^{force}, which prevents unnecessary roller passes by supplying the knowledge crews need to move on when compaction is completed. It also ensures even, homogenous compaction.

After tests confirmed proper compaction, a 25-cm layer of 0/32 mm crushed limestone was added. The stone was placed, leveled, graded and sprayed with water to reach the proper moisture level.

Crews quickly achieved the final goal, which was creating a layer that is 20 cm thick and has compaction of 98% based on the French classification system.

Comments:

Here are some of the comments from operators who ran the compactor:

- The ARS 200 was chosen to handle the bulk of the work because of its power and a vibratory system that brings industry-leading compaction force to the jobsite.
- The roller is powerful and, combined with the ACE^{force} absolute compaction measuring system, is ideal for such work.
- The operator ensures he has the highest homogenous compaction possible by looking at the ACE display while operating the machine.
- The system is easy to monitor and enables comfort. The straightforward and logical layout of the dashboard, switches and lever, combined with the rotating seat, makes the roller very comfortable and relaxing to drive.

Technical details:

Operating weight: 19 750 kg

Maximum weight: 23 170 kg

Drum width: 2130 mm

Frequency I: 23–27 Hz

Frequency II: 30–34 Hz

Amplitude I: 2 mm

Amplitude II: 1 mm

Centrifugal force I: 275–375 kN

Centrifugal force II: 233–300 kN

Engine: DEUTZ TCD 6.1 L6 – 160 kW (215 HP)

Werner Hellemans

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