

The all-rounder for earth work  
**311**





## Mastering every slope



## Durable engine technology

The compactors of the Series 311 are true classics for earth work because they combine modern design with proven engineering. They put their capabilities to the test day in, day out, in every corner of the world.

One of their outstanding features is their climbing ability. Depending on the model and configuration, they can scale inclines up to 54 % (drum drive), compacting extremely efficiently as they go.

### Efficient and economical

Robust 4-cylinder Cummins diesel engines in the Series 311 compactors provide ample power with which to drive all components. At the same time, they have adequate reserves for efficient compaction, even under extreme conditions. They comply with the CEVBS III requirements - that means low exhaust emissions and low fuel consumption.

Intelligent airflow enables the rollers to be operated even in high ambient temperatures. A supplementary fuel filter can also be installed. It eliminates excess water from the diesel fuel, ensuring reliable operation.

### Great compaction performance

The compactors of Series 311 bring enormous compaction force to the construction site. Their static linear load is every bit as impressive as their centrifugal force.

Not forgetting that the compactors can even master slopes up to 54 % (drum drive) effortlessly.

Ingenious power train concept provides a climbing ability in excess up to 54 % (drum drive).



The rear axle with limited slip differential prevents wheelspin.

The 3-point articulation ensures uniform weight distribution between the front and rear sections and thus outstanding traction even in rough terrain.



## Quickly done: daily maintenance



The few maintenance tasks on the Series 311 compactors are quickly done because the well-illuminated engine compartment is very low, making it readily accessible for the workshop technicians. The engine hood provides another benefit: thanks to the cleverly selected position of the pivot point, it can be opened wide, even in restricted headroom situations. Moreover, all maintenance points and the battery are easily accessible on one side of the machine.

### Solutions for value retention

#### WIDOS (optional)

WIDOS covers the complete spare parts catalogue, all instructions, hydraulic, electrical and hose system plans, machine data and documentation, safety instructions, component pictures and service documentation in numerous languages - on paper and CD.



## The all-terrain Masters



The HAMM 3-point articulation is the key to an exceptionally favourable weight distribution, enormous driving stability and supreme traction.

### Optimum handling characteristics

The benefits of the 3-point articulation can be seen every day in many situations on the construction site. One plus factor is the exceptionally favourable weight distribution. It makes for enormous driving stability and ensures outstanding traction, even in rough terrain.

Another aspect becomes apparent when compacting uneven ground. Here, the articulated joint guarantees unrivalled driving comfort because it absorbs shocks extremely effectively. In addition, any tendency of tipping in curves is greatly reduced - an important safety factor. And last but not least, the 3-point articulation enables outstanding directional stability.



# Overview of the technical highlights

- 1 CANOPY**  
Sunshade and rain canopy as standard equipment for more comfort.
- 2 EASE OF OPERATION**  
Vibration-isolated operator's platform with a comfortable, individually adjustable driver's seat. Agile roller with direct steering means less steering work for the operator.
- 3 3-POINT ARTICULATION**  
Outstanding off-road mobility, absorbs shocks. Unrivalled driving stability, high resistance to tipping and top-class directional stability made for safe maneuvering even on rough terrain.
- 4 ENGINE TECHNOLOGY**  
Robust, water-cooled 4-cylinder engines. Comply with the requirements of CEV BS III. Highly fuel efficient, has a low noise level and provides environmentally friendly operation. Supplementary fuel filter cum water separator.
- 5 ENGINE SAFETY**  
Safety alarm and indication of high cooling water temperature in event of low lubricant oil pressure.
- 6 OIL AND WATER COOLER**  
Efficient oil and water cooling. The volume flow of cooling air adapts to the required cooling capacity. This reduces both power consumption and noise emissions.
- 7 SIMPLE MAINTENANCE AND SERVICING**  
All daily maintenance points are located in readily accessible positions on the same side of the machine - the most important prerequisite for fast checks.

**VISIBILITY**  
Safety and high compaction quality thanks to the outstanding overview of the machine and surrounding construction site from any sitting position.

**ROBUST ENGINEERING**  
The intelligent design has proved its worth for many years all over the world and stands out for its robust execution.

**3-POINT ARTICULATION**  
Ensures optimum driving comfort as well as outstanding traction and off-road mobility, absorbs shocks and enables safe manoeuvring, even on rough terrain.

## SIMPLE MAINTENANCE AND SERVICING

All daily maintenance points are located in readily accessible positions on the same side of the machine - the most important prerequisite for fast checks.



**ICS**  
INTELLIGENT  
COMPACTION  
SYSTEM



**CLIMBING ABILITY**  
The ingenious power train concept provides great climbing ability. prerequisite for fast checks.

- 8 CLEAR INFORMATION DISPLAY**  
Operator's display designed with clear symbols ensures easy operation, comprehensibly shows the state of the machine and indicates fault signals. Machine equipped with cover to prevent vandalism as part of standard scope of supply.
- 9 LARGE CAPACITY FUEL TANK**  
Large capacity fuel tank permits longer operation and fewer refueling stops.
- 10 DUAL FREQUENCY**  
Two frequencies enable wide variety of soil to be compacted.
- 11 WORKING LIGHTS**  
Front and rear working lights and a tail lamp ensure optimum sight and visibility, even at night time or when working under poor lighting conditions.
- 12 DRUM**  
As a customized solution, the compactor can be equipped with or without drum drive. We offer a wide range of drums - Available with smooth drum and with padfoot drum. Drum module is designed to induce high static linear loads of up to 38.3 kg/cm, depending on type of drum.
- 13 AIR DUCT**  
Optimum design of air duct facilitates effective engine cooling without heating up the operator's platform, even at an ambient temperature of up to 55°C.
- 14 DUAL SCRAPER BAR**  
Dual scraper bars for smooth working conditions in both forward and reverse direction of operation are part of the standard scope of supply.
- 15 HAMM COMPACTION METER**  
HAMM Compaction Measurement for quick information on compaction results. Shows weak zones and helps to prevent extra passes. (Option)
- 16 INTELLIGENT COMPACTION SYSTEM (ICS)**  
Option. ICS minimizes the number of passes, records the output and prevents the danger of over compaction.

# 311

# Perfect overview

## Outstanding visibility

In addition, there is superb all-round visibility. This gives the driver a clear view of the drum at all times. The tyres and the space behind the roller are also fully visible because the engine hood has a slimline, sloping shape and the exhaust pipe is positioned so as not to interfere with the all-round view.



The Series 3000 offers ergonomically optimised workspaces as standard. They allow roller drivers to work with total concentration for many hours at a stretch.

## Ergonomically optimised and comfortable

The Series 311 compactors offer operators plenty of space because every model has a large operator's platform, accessible from one side. Another practical and comfortable feature is the driver's seat, which can be moved forwards and backwards. Here, every driver is sure to find his ideal working position.

## Clear cockpit overview

In terms of operation, drivers of Series 311 compactors have it really easy: everything is clearly laid-out and self-explanatory.

Drive control is via two drive levers. The activation switch for the vibration is also located on the drive lever, so that the two most frequently used functions can be controlled with one hand. The dashboard is notable for its unambiguous, internationally understandable marking and labelling. Here, HAMM has dispensed with language, using clear symbols instead. As a result, these compactors can be operated entirely without language skills and yet always with comprehensive information on the current operating status of the machine – an important prerequisite for high-quality ground compaction.

Unobstructed view of the drum.

Unobstructed view to the rear with no intrusive exhaust pipe.

Comfortable driver's seat, individually adjustable for height.





# 100 years of innovation & experience



Wirtgen India:  
Your partner for road and mineral technologies



It was in 1911 when Hamm developed the first road compaction equipment with a diesel engine - since then our innovative team has been designing trend-setting machinery. Today, HAMM is the world's major producer of asphalt rollers and soil compactors.

HAMM is famous worldwide for powerful and user-friendly compaction machines for a wide variety of jobs associated with road construction and earth works. Moreover, Hamm rollers are convincing because of their ergonomic and innovative design. HAMM has been awarded a total of 20 design prizes for all its innovations.

Wirtgen India, a 100% subsidiary of the Wirtgen Group, has maintained a strong presence in India since 1995, with 22 local Sales and Service offices.

We offer a broad range of services in all areas of road construction and refurbishment. With passion and dedication our highly motivated team ensures your success at the construction site.

Market-leading products and top service with tried and tested quality standards give you the confidence you need in your fiercely competitive environment. The Wirtgen Group's successful brands of long standing will safely keep you on the road to success.



Serie HD



Serie HD CompactLine



Serie GRW 15



Serie HD+



Serie 3000

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