



Compact electric tandem rollers

# HD COMPACTLINE SERIES

HD 10e - HD 12e



# COMPACT WITH ZERO LOCAL EMISSIONS

Electric tandem rollers for asphalt construction and earthworks

Founded in 1878, HAMM has focused on the manufacture of rollers for road building since the beginning of the 20th century. From that time on, HAMM has been the driving force and trendsetter in the industry. Many technologies and solutions that have become the standard in the compaction sector were developed by HAMM.

The fully electric, articulated compact rollers in the HD CompactLine series are true all-rounders for asphalt construction, earthworks, and landscape gardening. They compact crushed rock, gravel or sand to exactly the same high quality as carriageways made from standard and special asphalts.

With their extremely compact shape, they also compact efficiently in narrow spaces. For example, in urban areas or on narrow paths. The low height also allows for compaction in halls, in parking decks and anywhere where the ceiling height is restricted. Thanks to their excellent gradeability, the rollers in the HD CompactLine also master challenging tasks such as compaction on steep ramps with ease.

The eight fully electric models are available as vibration, oscillation and combination rollers with drum widths of 1.00 m and 1.20 m. They all work with zero local emissions, and the models with oscillation are exceptionally quiet.



## HAMM PRODUCT RANGE

### ARTICULATED TANDEM ROLLERS

- > Drum width: 800 - 2140 mm
- > Operating weight: 1.5 - 14 t

### PIVOT-STEERED TANDEM ROLLERS

- > Drum width: 1500 - 1680 mm
- > Operating weight: 7 - 9 t

### COMPACTORS

- > Drum width: 1370 - 2140 mm
- > Operating weight: 5 - 26 t

### PNEUMATIC-TIRE ROLLERS

- > Width over tires: 1127 - 1830 mm
- > Operating weight: 4 - 27 t

# OVERVIEW OF THE HIGHLIGHTS

## Perfectly equipped

### 01 Fully electric drive

- > Sustainable overall concept
- > Permanently installed Li-ion battery
- > Auto stop mechanism as standard
- > Enough battery capacity for a typical working day

### 02 Compacting with zero local emissions

- > Quiet electric motors instead of a diesel engine
- > 48 V system
- > High level of efficiency thanks to synchronous motors

### 03 Operation and comfort

- > Language-neutral, simple operation
- > Ergonomically optimal working conditions
- > Great freedom of movement for all drivers
- > Great driving and handling characteristics
- > Operated in exactly the same way as diesel-powered models

### 04 Visibility

- > Safe and high-quality compaction thanks to the perfect view of the drum edges, the area around the machine, and the construction site
- > Great illumination in the dark

### 05 Compaction

- > The 3-point articulation and large drum diameters allow for homogeneous compaction
- > Great compaction power thanks to the high linear load
- > Even small areas can be compacted to a high standard of quality

### 06 Water-sprinkling system

- > Reliable water system for constant sprinkling
- > Easy to fill and drain

### 07 Transport and safety

- > Rapid loading and unloading via a central lifting point
- > Safer transport thanks to numerous tie-down points

### 08 Maintenance and service

- > Extremely simple and fast maintenance
- > Large filler neck for water tank
- > All electric components are maintenance-free



- > Ideal rental machine
- > Outstanding design



HAMM SUSTAINABILITY describes innovative technologies and solutions which are consistent with the sustainability objectives of the WIRTGEN GROUP.

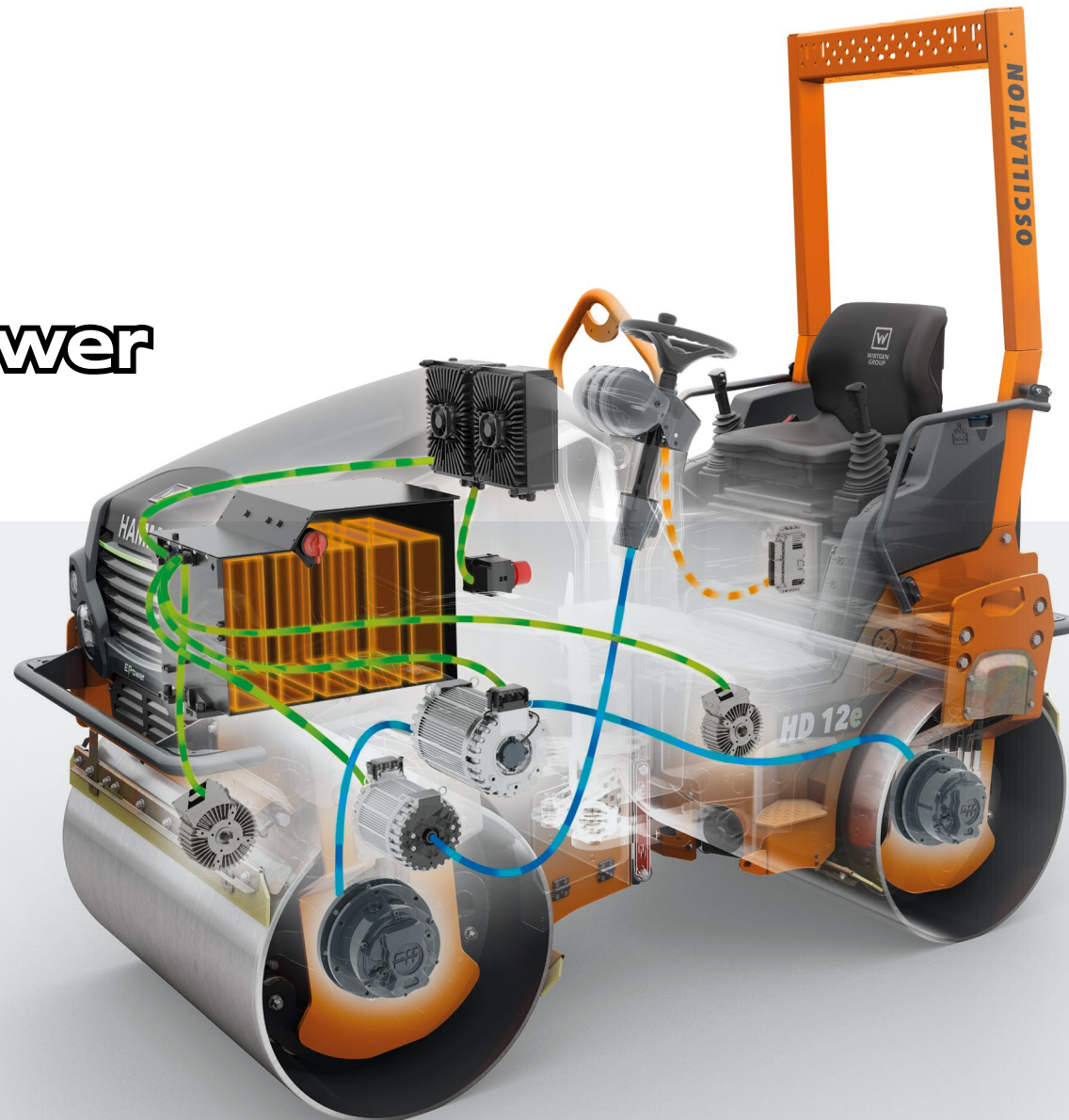
# ZERO-EMISSION AND QUIET COMPACTING

Low energy demand thanks to a high level of efficiency

With eight fully electric models in the 2.5 t class, HAMM is marking another milestone in compaction technology. The e-rollers are operated in exactly the same way as the other models in the HD CompactLine. A major benefit is that,

thanks to the electric drive, the HD 10e model (drum width: 1.00 m, operating weight: 2.5 t) and the HD 12e model (drum width: 1.20 m, operating weight: 2.7 t) work on construction sites with zero local emissions.

**E-POWER**



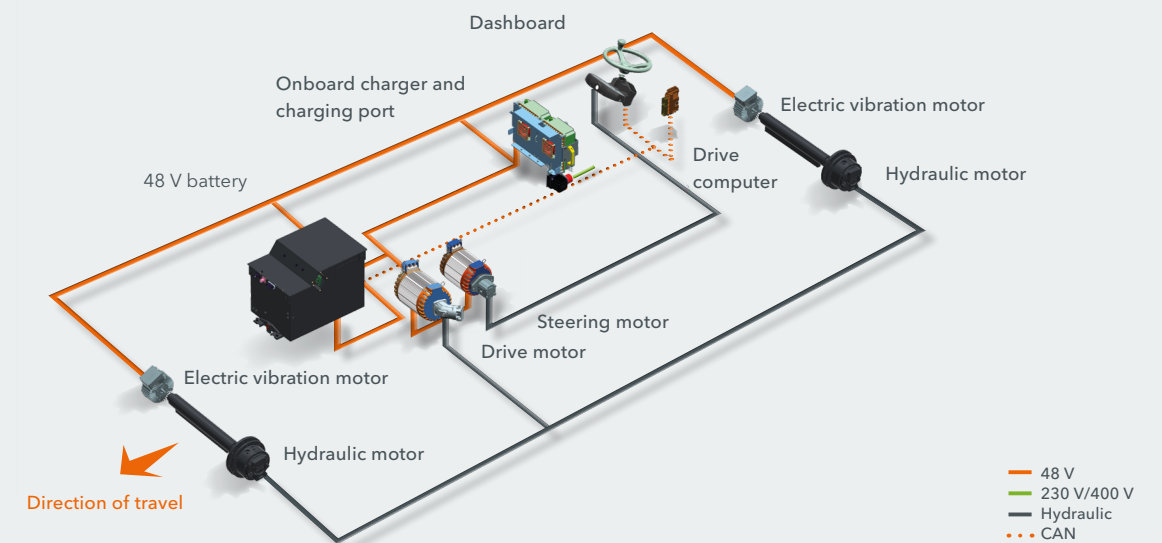
## Li-ion battery delivers energy for all drives

One Li-ion battery with a capacity of 23.4 kWh provides the energy for the travel, steering, and vibration or oscillation drives via a 48 V system (low-voltage system). Staff do not require any specialist training or qualifications to operate the low-voltage system.

## Energy-saving drive concept

The vibration or oscillation units are driven by electric means only, while the electrohydraulic components have been completely redesigned and require very little energy. These measures result in an efficiency level that is around twice as high as comparable rollers with combustion engines. This means that the e-rollers have a much lower energy demand. Consequently, when combined with the powerful battery (23.4 kWh), there is enough energy for a typical working day on board.

All e-components offer impressively high torque right from the start. The concept ensures the power is always available to deliver peak performance on demand. Furthermore, a large portion of the braking energy is fed back into the system by means of regeneration.



# SUSTAINABLE OVERALL CONCEPT

Enough energy for a whole working day on board

## Rapid charging

The battery is dimensioned for operation in ambient temperatures of up to 45 °C and provides enough energy for a typical working day. It can be charged in two ways - either via a rapid-charge plug (400 V, CEE) or using a standard plug with earthed adapter (230 V).

With the rapid-charge plug (400 V), it takes around 4 hours to charge the battery from 0% to 100%. A suitable rapid charger (option) is integrated into the design of the machine - meaning that it is always on board if required, but is also simple to remove. Using a standard plug with earthed adapter (230 V), it takes around 7.5 hours to charge the battery from 0% to 100%.

## Sustainable overall concept

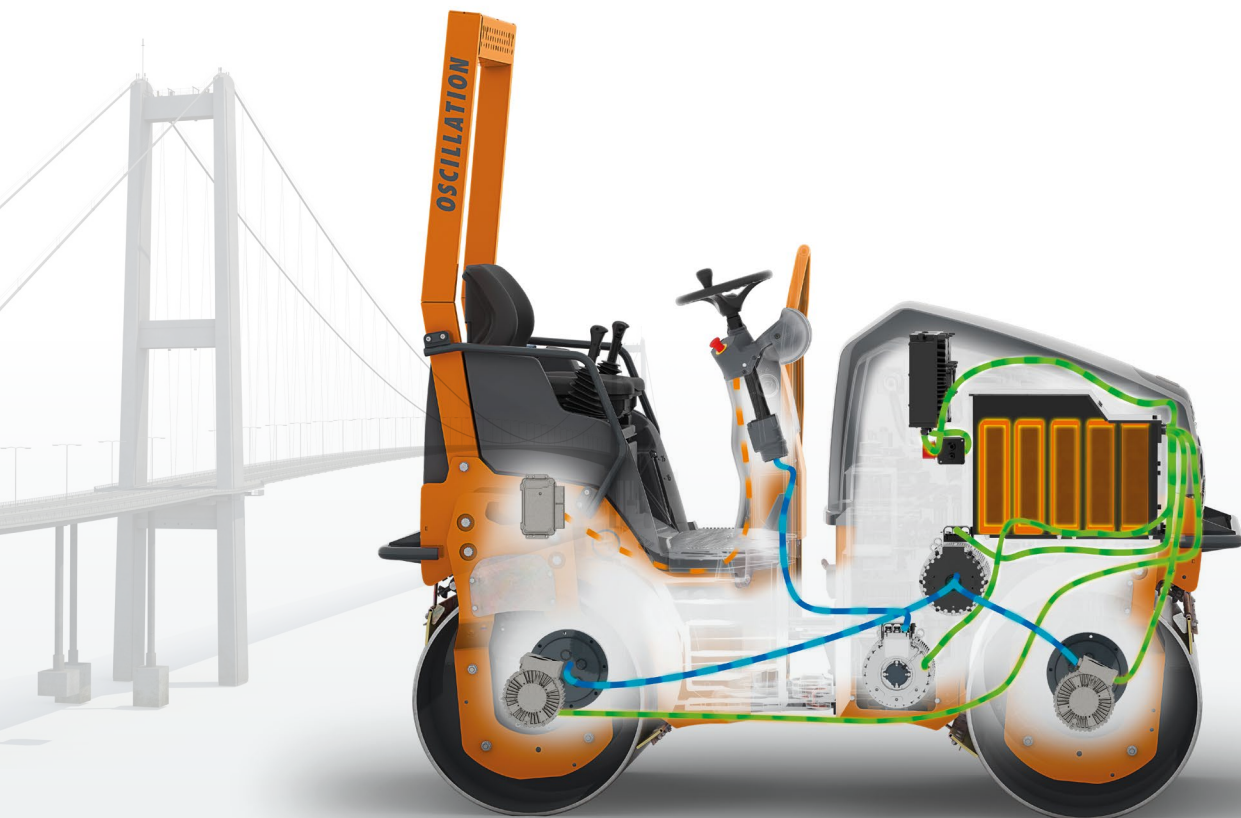
HAMM has fine-tuned every aspect of the e-rollers to preserve resources. For example, the models feature an auto stop mechanism as standard. This deactivates all functions when the machine is idling, saving precious energy. There is also the option to work in ECO-Mode. In this mode, the control limits the driving speed to 5 km/h. This also reduces energy consumption, as does the LED lighting that is fitted as standard.

## Efficient steering

The innovative steering control also helps to conserve energy because it uses no energy at all in the parking position. The steering motor does not switch on until the electric driving lever is actuated. Then the roller steers with sensitive responsiveness and an adaptive energy supply with no additional effort.

## HAMMTRONIC on board

The HAMMTRONIC machine management system monitors and controls the components of the rollers that work with zero local emissions. Combined with the electric driving levers, this makes the machine extremely easy to control with precision. Speed ramping is also implemented to ensure smooth accelerating and braking maneuvers.



## HAMM > COMBINATION E-ROLLERS WITH OSCILLATION



### Zero local emissions and particularly quiet

Four of the e-models feature oscillation drums, two of which are combination rollers. This is where the quiet oscillation meets with the quiet e-drive. The rollers provide exceptionally quiet compaction, work with zero local emissions, and cause very few vibrations in the surrounding area. They are therefore ideal for compacting in noise-sensitive and vibration-sensitive areas, such as near hospitals or historical buildings.

# MAXIMUM COMFORT

Optimal working conditions for first-class compaction

## Rollers with the feel-good factor

The rollers in the HD CompactLine offer a comfortable seating position with great freedom of movement. The seat can be adjusted lengthwise and there is always enough space for your arms. In addition, to ensure comfortable work and safe access, both sides are equipped with armrests. There is also a storage compartment for documents and personal items. Moreover, the machine's quiet operation thanks to its electric drive means that it is very pleasant for the driver and people in the surrounding area.

## Comfortable workstation

The driver's seat, steering column, armrest, driving lever, and tread plate are mechanically isolated from the frame. This means that barely any vibrations are transferred to the driver's seat. This makes working on HD CompactLine rollers comfortable, even during long operating intervals. In combination with the 3-point articulation, which provides effective shock absorption, the rollers in the HD CompactLine offer first-class driving comfort.

## Quiet operation

thanks to the electric drive

## USB charging socket

and 12 V socket as standard

## Comfortable driver's seat

available in many variants

The footwell of the operator's platform offers plenty of space – even for long legs.



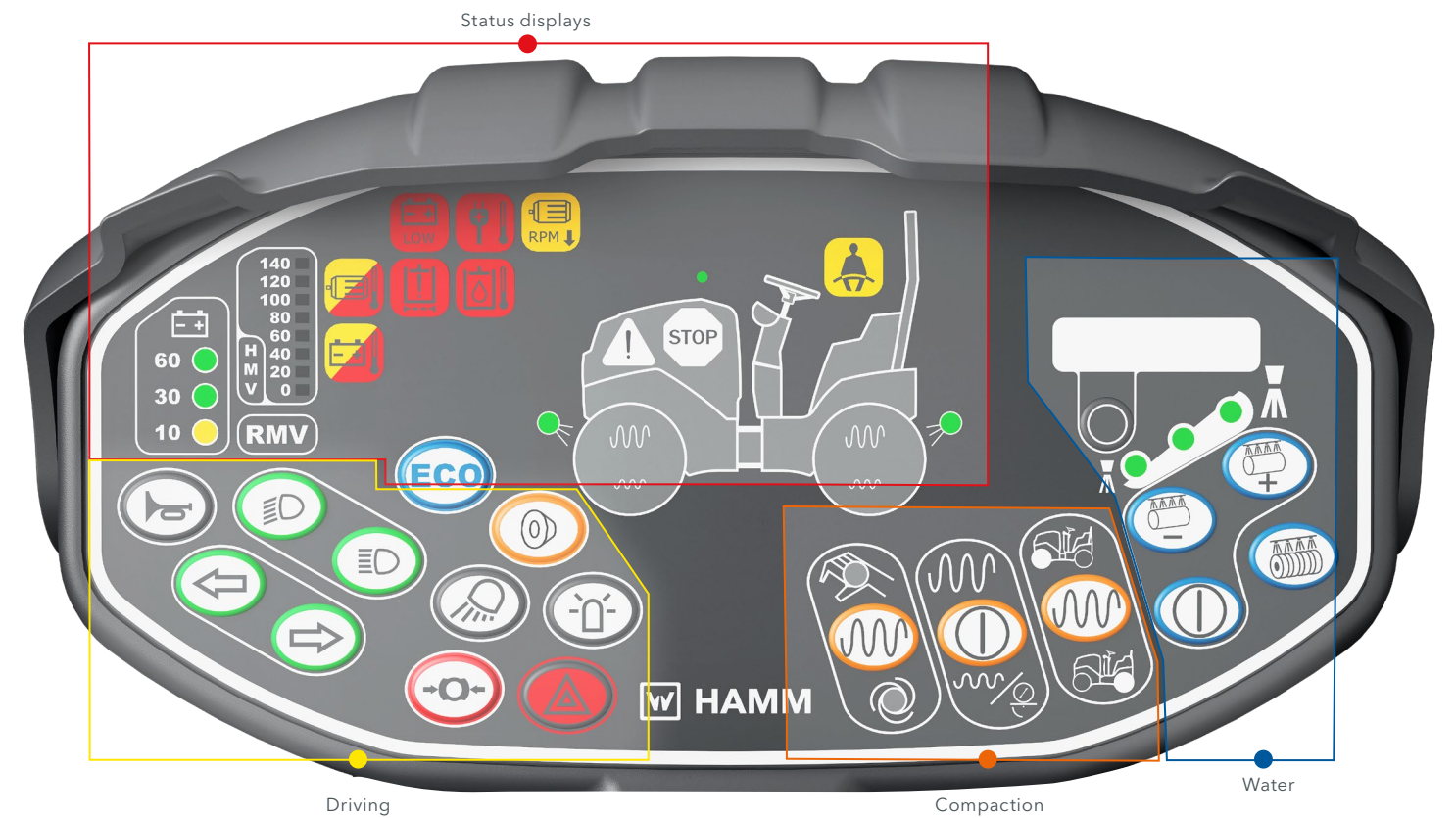
# CLEAR AND SIMPLE

Clear and structured, and easy for everyone to understand

## Operation: Straightforward and intuitive

Operation of HD CompactLine rollers is extremely easy and can be mastered in a matter of minutes. Accurate labeling, straightforward symbols, and colors clearly display the functions of the operating elements. It is therefore immediately clear, even to new personnel, how to operate the rollers. No language knowledge is necessary, meaning that the drivers can very quickly carry out compaction tasks to a high level of quality.

The electric tandem rollers are operated in virtually exactly same way as the diesel-powered versions. This makes it extremely easy to switch between the models.



- 01 Dashboard**  
 > Clear dashboard  
 with language-neutral operation

- 02 Vandalism protection**  
 > Robust, lockable flap  
 above the dashboard effectively  
 protects against vandalism

- 03 Two driving levers**  
 > Two driving levers for effortlessly  
 operating the drive control on  
 both sides, as standard

- 04 Armrests**  
 > Help with climbing into the machine  
 > Available with and without padding

- 05 ROPS**  
 > Rigid or folding ROPS  
 > With protective roof (metal or  
 tarpaulin) depending on the version

# EVERYTHING IN VIEW AT ALL TIMES

Drum edges and construction site under control



## Great visibility, even at night

The electric tandem rollers in the HD CompactLine can be equipped with work spotlights on the ROPS bracket. The durable, extremely bright LED lights guarantee great visibility on construction sites at night or in tunnels. In addition, powerful additional drum edge lighting can be added.



Elevated side panels provide plenty of side clearance when working alongside curbs.

## Good side clearance as standard

The electric tandem rollers in the HD CompactLine series offer extremely good side clearance thanks to their inwardly offset drum suspensions. Moreover, the drums that are suspended on both sides can work with a track offset of 50 mm. As a result, compaction is possible close to walls, curb edges, and other boundaries.

## Wasp waist for great visibility

One distinguishing feature of the HD CompactLine series is its wasp waist. It guarantees an unobstructed view of the drum edges, as well as the surroundings in front of and beside the machine. As with the diesel-powered variants, there is also perfect visibility with the electrically powered models. The intelligent arrangement of the battery, converter, and all other electrical components enable the engine hood to take this special shape. This results in excellent visibility and many other advantages.



Clear view of the drum edges - thanks to the wasp waist!



# GREAT COMPACTION FORCE

Intelligent solutions in a compact design

## Large drums

Large drum diameters ensure high compaction quality because they actively prevent the formation of beads and dents. The success of the HD CompactLine is, in part, thanks to this, since its drums are considerably larger than the comparable rollers in this class. The HD CompactLine impresses accordingly with great work results.

## Leading when it comes to compaction force

The HD CompactLine also impresses when it comes to compaction force: For dynamic compaction with vibration, it achieves considerably higher centrifugal forces than other models in this market segment. In addition, all models have a high static linear load.

## Measuring the compaction progress

HCM (HAMM Compaction Meter) and HTM (HAMM Temperature Meter) offer operators valuable assistance: The HCM helps to assess whether a surface needs further compaction or not. This minimizes the number of double passes and prevents over-compaction. The HTM displays the current asphalt temperature on the dashboard.



## All compaction types are possible

The electric rollers in the HD CompactLine series are available with vibration and oscillation drums, and also as a combination roller with sets of wheels. The following versions are available:

### > Tandem rollers with two vibrating roller drums (VV)

Both drums can vibrate separately. In addition, the vibration frequency can be changed at the touch of a button.

### > Tandem roller with one vibrating roller drum and one oscillation drum (VO)

HAMM is the only manufacturer in the world to offer oscillation drums in the compact segment. The same applies to the electrically powered models. As a result, this gentle, low-noise and efficient technology can also be used on small construction sites.

### > Combination rollers with vibration (VT)

The combination rollers are equipped with a vibrating roller drum on the front axle and a set of wheels on the rear axle.

### > Combination rollers with oscillation (OT)

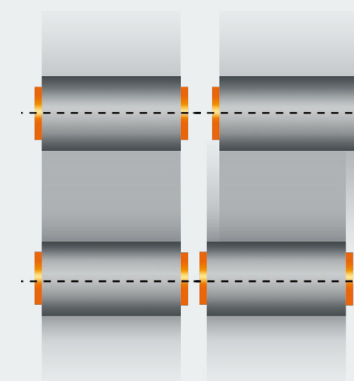
The combination rollers are equipped with an oscillation drum on the front axle and a set of wheels on the rear axle. In this configuration, they compact particularly quietly and with minimal vibrations.



## Even weight distribution for quality results

The 3-point articulation distributes the weight evenly over the front and rear drums or axles. This contributes to outstanding directional stability, impressive stability when cornering, as well as a high level of safety against overturning. This also prevents deformation of the asphalt. The result: A high level of safety and very smooth asphalt surfaces, even in tight curves.

## HAMM > MANEUVERABILITY RIGHT UP TO THE EDGE



### Maneuverability right up to the edge

HD 12e models, a track offset by 50 mm to the right-hand side ensures easy handling. In particular, the compaction up to the edge, right up to boundaries and obstacles, is therefore possible.

**3-point articulation**  
for even weight distribution

**High quality compaction**  
even across small areas

**Ample lateral clearance**  
thanks to raised side panels

# IMPRESSIVE WATER MANAGEMENT

Well-conceived down to the last detail



## Always ready

A functioning water-sprinkling system is essential for high-quality compaction. In the HD CompactLine, the water volume is set easily on the dashboard. A foot pedal can be used to activate an additional sprinkling boost.

To ensure that the nozzles on the spray bars are always ready for use, the water in the HD CompactLine is filtered three times: With a self-cleaning water filter on the fuel filler cap, a filter on the filler neck, and separate filters upstream of the spray nozzles.

**3-fold filtering**  
for reliable water sprinkling

**Adjustable water volume**  
in three levels via a button on the dashboard

**Foot pedal**  
for fast additional sprinkling

## Quick and easy checking and draining

Checking the filters and draining the tank quickly are among the most important tasks when it comes to the water system. HAMM has practical solutions for both.

The large, self-cleaning water filter can be checked in seconds because it is located directly behind the fuel filler cap. The central water tank outlet is located at the lowest point of the

machine, beneath the driver's seat. This position allows for complete draining. One single manual operation is all it takes to completely drain the water tank in the rear vehicle.



For the edge pressing and cutting device, there is a separate sprinkling system. It can be activated from the operator's platform via a switch. It is extremely quick and easy to replace pressing rolls and cutting wheels - undo the central screw, replace the parts, and you're done!

# EASILY GET FROM A TO B

Transported quickly

## Rapid loading and unloading

HAMM has ensured simple loading of the rollers. Plenty of easily accessible tie-down points enable quick and secure fastening of the rollers to the transport vehicle. Unloading them on the construction site is also a breeze.

A special feature is that all electric tandem rollers can be loaded using the central suspension point. This also allows them to be lowered into narrow trenches or structures for compacting there.



## Folding ROPS

The ROPS bracket offers the drivers a high level of safety. The bracket with easy-to-operate folding mechanism is available as an option. This makes the roller small for transport. This helps to promote maximum possible flexibility.

## Numerous safety features

The HD CompactLine series rollers offer a high level of safety. The drivers therefore intuitively find handholds wherever they need them as they enter the machine. When driving and compacting, the view of the construction site is always excellent, thanks to the machine design and lighting.

The seat belt for the driver is provided as standard. There is also an optional seat belt monitoring device. It automatically issues a warning if the seat belt has not been fastened.

For the safety of the machine and reliable operation, HAMM has also integrated a robust, lockable cover on the dashboard. It protects effectively against vandalism and damage that may prevent safe operation.

As an option, the rollers can also be equipped with a back-up alarm. It automatically warns the environment when the machine is driving backwards.

# CONVENIENT CHECKS

All service points on one side

## High-speed maintenance

Daily maintenance of the HD CompactLine rollers is not only simple but can also be completed very quickly. The extensive electrification reduces the oil volume by more than 70% and there are very few wear parts on board that need to be greased.

All electrical components in the e-rollers are completely maintenance-free. This means there are refreshingly few service points on the e-rollers compared with the diesel counterparts. In addition, the battery does not need to be replaced during the entire service life of the machine.

## Everything within easy reach

The few maintenance points are clearly identifiable under the wide-opening engine hood, and are readily accessible without the need for tools. Checking and replacing the filters is therefore very easy. It is also convenient to replenish hydraulic oil via a large filler neck. Furthermore, the central electrical system is located in the steering column. This enables speedy servicing and very simple maintenance.



**01 Engine hood**  
Opens wide, making checks effortless

**02 Charging sockets**  
Two easily accessible plugs on board:  
> Rapid-charge plug (400 V, CEE)  
> Standard plug (230 V, earthed adapter)

**03 Filter**  
Checking and replacing the hydraulic oil filters is extremely easy

**04 Water tank**  
Generously proportioned, easy to fill

**05 Central electrical system**  
Easily accessible in the steering column



## Ideal for rental use

The intuitive operation of HD CompactLine rollers is also important in terms of safety and economic viability. It enables safe and productive compaction right from the start. Machine rental companies, too, appreciate this advantage because HD CompactLine rollers are not only small and productive, but also exceptionally easy to handle.



## Design

Since the 1980s, HAMM has considered design to be a crucial element in product development. And this has proven to be a successful move, as illustrated by the fact that HAMM has, to date, won 40 international design and innovation awards, making it the front runner in the construction industry.



## Environmental protection at every stage

The e-rollers from HAMM impress on the construction site thanks to their low energy consumption because they have been fine-tuned to preserve resources. HAMM AG's main plant is certified in accordance with ISO 14001, meaning that is constantly striving to reduce emissions and the use of resources even in the production of rollers.

# OPTIONS FOR EVERY EVENTUALITY

Tailored for all applications and regions

**HAMM has thought of everything. Every road construction company will find the right equipment to meet its needs in the extensive list of options.**

## ROPS

Available with FOPS level I protective roof (metal) or folding with or without protective roof.

## Edge pressing and cutting device

For all models of 2.5 t and above. Clearly visible. For precise delineation of the paths. With track indicator on request. Pressing rolls and cutting wheels in many sizes and diameters; extremely easy to replace.

## Folding scrapers

Clean the drums. Can be folded up using the foot lever. Additional protective guards guide water out of the sprinkling system to the drum.

## HCM (HAMM Compaction Meter)

Compaction measurement device. Determines the rigidity during dynamic compaction. Helps to assess whether the substrate needs further compaction or not. Minimizes the number of double passes, prevents over-compaction.

## HTM (HAMM Temperature Meter)

Measures the asphalt surface temperature and displays it on the dashboard.

## Drum edge lighting

Powerful LED lighting. Offers safety when working in the dark.



Drum edge lighting



Thermal apron



Protective roof

# YOUR WIRTGEN GROUP CUSTOMER SUPPORT

Service you can always rely on.

Place your trust in our reliable and fast support during the complete life cycle of your machine. Our wide service offer includes suitable solutions to meet all of your challenges.



## Service

We keep our service promises - with fast and simple assistance both on the building site as well as in our professional workshops. Our Service team has received expert training. Thanks to special tools, repair, care and maintenance work is completed quickly. Upon request, we can support you with tailored service agreements.

> [www.wirtgen-group.com/service](http://www.wirtgen-group.com/service)



## Spare parts

Original parts and accessories from WIRTGEN GROUP can ensure the high reliability and availability of your machines long term. Our experts will be glad to advise you on application-focused wear part solutions. Our parts are available worldwide, at any time and are easy to order.

> [parts.wirtgen-group.com](http://parts.wirtgen-group.com)



## Training

Staff responsible for the WIRTGEN GROUP's product brands are specialists in their areas and have decades of application experience. Our customers also greatly benefit from these experts. In our WIRTGEN GROUP training courses, we gladly pass on our knowledge to operators and service personnel.

> [www.wirtgen-group.com/training](http://www.wirtgen-group.com/training)



## Telematics solutions

Construction machines with leading technology and perfected telematics solutions work hand-in-hand in the WIRTGEN GROUP. The Operations Center\* - the platform for digital solutions for process, machine and service optimization - allows you not only to simplify maintenance planning for your machines but also to increase your productivity and cost-effectiveness.

> [www.wirtgen-group.com/telematics](http://www.wirtgen-group.com/telematics)

\* John Deere Operations Center™ (formerly WITOS) is currently not available in all countries. Please consult your responsible branch or dealer if you have any questions in this area.

# TECHNICAL DATA AT A GLANCE



## HD COMPACTLINE SERIES ELECTRIC TANDEM ROLLERS AND COMBINATION E-ROLLERS

Basic data						Drums/variants			
Machine model	Weight class (t)	Drum width (mm)	Battery	Battery capacity	Max. working width (mm)	VV	VO	VT	OT
<b>Zero-emission machines</b>									
HD 10e	2.5	1000	48 V Li-Ion	23.4 kWh	1050	•	•	•	•
HD 12e	2.5	1200	48 V Li-Ion	23.4 kWh	1250	•	•	•	•

VV Vibration at front - vibration at rear  
VO Vibration at front - oscillation at rear

VT Vibration at front - set of wheels at rear  
OT Oscillation at front - set of wheels at rear

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