

Precise and productive

HX SERIES

HX 70i - HX 90i



READY FOR BIG JOBS

High-quality and cost-effective compaction

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 tandem rollers in the HX series are the right choice wherever power and quality are required. They achieve high area outputs on large construction sites, but are also impressive in the most demanding tasks, such as compaction in curves, at kerbs, in re-compaction or final compaction after edge pressing. They do all of this with exceptional precision. This is possible thanks to the pivot steering with extremely large turning angle, a very large track offset and four steering modes.

The split vibrating roller and oscillation drums also guarantee quality. They actively prevent cracks and bulges from forming in the asphalt. Another highlight of the HX series is the automatic reversing with electrically adjustable seat operating unit. It brakes and accelerates the rollers quickly, yet smoothly. The seat also turns automatically in the direction of travel when reversing. This is unique in the market. It produces first-class surfaces and ensures comfortable, ergonomic operation with top safety.



HAMM PRODUCT RANGE

TANDEM ROLLERS, ARTICULATED

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

TANDEM ROLLERS, PIVOT-STEERED

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

SOIL COMPACTORS

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

PNEUMATIC-TYRE ROLLERS

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

OVERVIEW OF THE HIGHLIGHTS

Perfectly equipped

01 Operation and comfort

- > Comfortable seat operating unit, rotatable and adjustable sideways
- > Heating and air-conditioning system with excellent fresh air supply
- > Safe, intuitive operation thanks to clear, language-neutral operating elements

02 Visibility

- > Fully glazed panoramic cabin
- > Viewing pane in the floor for a view of the drums
- > Energy-saving, bright LED lighting
- > Coming Home function
- > Camera system

03 Compaction

- > Split vibration and oscillation drums
- > Homogeneous weight distribution

04 Driving and steering

- > Intelligent drive control with automatic reversing
- > Precise pivot steering with four steering modes
- > Extremely large track offset
- > Small turning circle
- > High gradeability

05 Water-sprinkling system

- > Large tank volume for long working periods
- > Sprinkling with precision adjustment
- > Easily accessible spray nozzles
- > High operational safety

06 Engine technology

- > ECO mode
- > Automatic engine stop
- > Engine operation with diesel and HVO fuel
- > Modern exhaust gas after-treatment

07 Digital construction site

- > Smart Compact
- > Smart Doc
- > JD Link
- > Process data interface



- > Environmentally friendly operation
- > Outstanding design
- > HAMMTRONIC intelligent control system
- > Smart Compaction



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

XXL WORKSTATION

Plenty of space for good work

Easy Drive: Super simple, super user-friendly

Drivers reach their workstation, the panorama cabin of the HX series, via a wide ascent with large steps. There, the journey continues in comfort thanks to Easy Drive, as all models in the HX series are equipped with an Easy Drive operator's platform. This operating concept means intuitive operation thanks to clear user guidance and an ergonomically optimised, comfortable working environment.

The sophisticated interior design was developed by HAMM in the course of an extensive research project in collaboration with universities, ergonomics specialists and roller operators from different countries. The results speak for themselves: The seat operating unit can be adjusted perfectly, enabling drivers of different heights and builds to find an ergonomic sitting position.

Comfort meets ergonomics

The driver's seat can be rotated and moved sideways to the edge as standard, the height and springing are adjustable. The comfortable seat can be supplied with a backrest extension and fabric covers. It also has two armrests. The steering column can be tilted to make it particularly easy to enter and exit. In short: This comfortable workstation offers optimal conditions for concentrated working.

Furthermore, the HX series offers numerous pleasant details. For charging devices such as mobile phones and cool boxes, there is a USB charging port (5 V) and two 12 V sockets, plus plenty of storage space, a coat hook, several cup holders and various fresh air nozzles. A mobile cool box and a lunch box holder can also be provided upon request.

01 Steering column

- > The tilt can be adjusted in fine increments
- > Can be tipped forwards to get in and out easily

02 Ventilation and heating

- > Air outlets for agreeable temperature control and supply of fresh air
- > Ventilation slots for fast de-icing
- > Wide-opening windows (top 180°, bottom 85°)
- > Heating as standard, air-conditioning system optional

03 Operator's platform

- > ROPS cabin with split doors
- > Operator's platform with ROPS and handrail

04 Driver's seat

- > Can be moved laterally mechanically or electrically (option)
- > Can be rotated 90° to each side
- > Electrically rotatable by 350° (option), with automatic seat reversal



Panoramic cabin
spacious, with a lot of headroom

Multifunction armrest
height-adjustable, optionally foldable

Comfortable step
on all sides

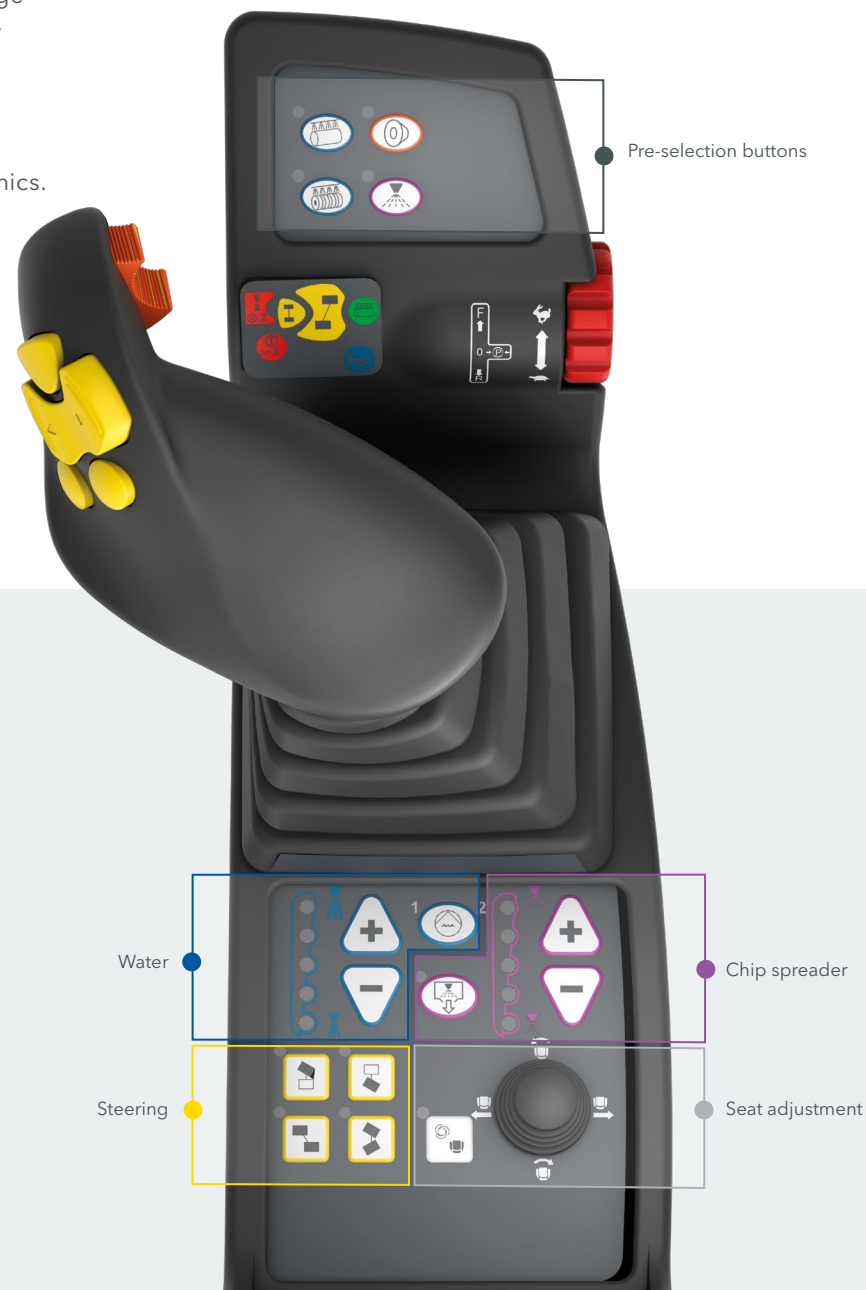
SIMPLY FOLLOW YOUR INTUITION

Work safely and efficiently

Brilliantly user-friendly

The straightforward operation is one of the hallmarks of the HAMM rollers. One of the key elements: No language knowledge is needed to understand the displays. Clear symbols and the logical layout are a major contribution to intuitive operation.

The HX series also impresses when it comes to ergonomics. For example, the seat in the tandem rollers is permanently attached to the steering column including the dashboard. As a result, all of the displays remain within the driver's field of vision in any sitting position.

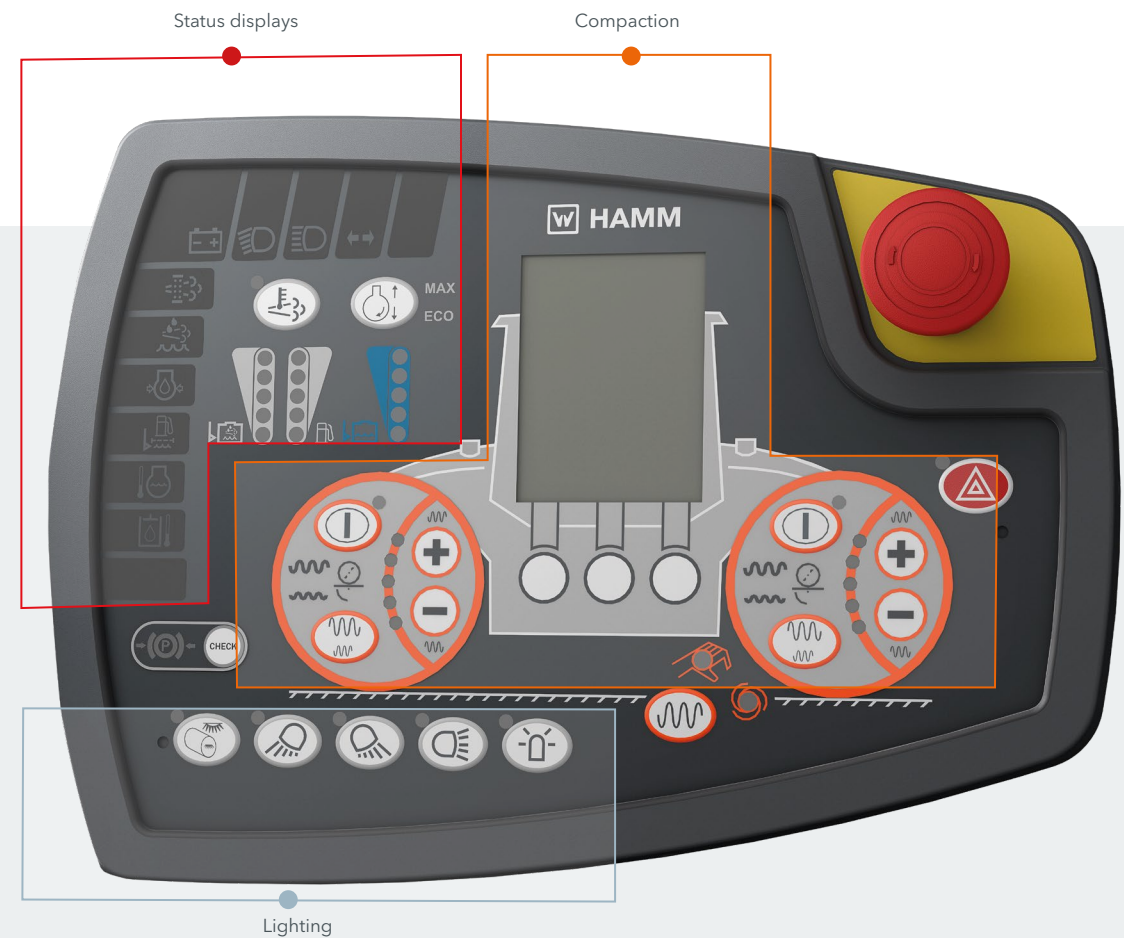


The Easy Drive operator's platform is comfortable, spacious and ergonomically optimised.

Clarity on the multifunction armrest: The pre-selection buttons are located at the top while the buttons for setting the functions are located at the bottom.

The roller is controlled via a steering wheel. The most important buttons are located on the joystick and are all directly visible. The important buttons are positioned on the armrest in such a way that they are visible to the driver at all times. The more frequently an element is used, the closer the button or switch is positioned in relation to the joystick.

On the dashboard, the elements are grouped into functional units and colour-coded. These colours can also be found on other HAMM rollers. This makes operation easier, since the same applies for all HAMM rollers: Same colour = same functional group.



The dashboard next to the steering wheel contains status and parameter displays as well as infrequently used buttons.

CLEAR FIELD OF VISION IN ALL DIRECTIONS

Including a view of the drum

Unrivalled field of vision

The operator's platform in the HX series offers the driver a perfect view of the entire working environment from the panoramic cabin with all-round glazing. From the edge of the cabin or operator's platform, they also have an excellent view of the drum edges and the edge pressing and cutting device.

Thanks to wide viewing panes in the cabin floor, the driver also has an exceptionally good view of the drums. The windows can be folded for cleaning.



Panoramic cabin
all-round glazing

Fresh air nozzles
guarantee clear windows

Windscreen wiper
with interval switching

Ready to go - by day or night

See and be seen - important criteria for quality and safety when working at night. There are bright halogen or LED lights on the frame of the roof or cabin of the HX series for this purpose. They illuminate an extensive area around the roller, thus enabling work to be carried out just as accurately and safely after dark and in tunnels as it is in daylight. A folding stainless steel protective roof (option) protects the lights on the frame from damage. On request, additional LED lighting of the drum edges and the drums guarantees optimum illumination.

A small but subtle detail: The interior lighting on the HX automatically switches off when the doors are closed. This ensures pleasant viewing conditions for the driver, as does the less bright, reddish ambient lighting that is provided as standard in the cabin.

At the end of the working day, the Coming Home function (option) provides additional safety: After switching off the machine, the light remains switched on for a brief period before the spotlights are deactivated automatically. The illuminated area around the roller makes it easier for drivers to find their way back in the dark.

Always in the right direction

The pivot steering works with exceptional precision in every situation. The very large angle of rotation results in a large, freely adjustable track offset. This allows the working width to be almost doubled in relation to the drum width.

The HX series can be steered in four ways. Furthermore, the driver is supported by a speed-dependent resistance for steering and steering stop.

Single-axle steering:
Only the front or rear axle turns.

Analogue steering:
Both drums turn simultaneously in opposing directions. This results in a very small turning circle.

Diagonal steering:
Both drums turn simultaneously in the same direction, resulting in extremely fast lateral track offset.



The cabin doors, which are framed all-round, are split. On both sides, a large window can be opened 180° wide.



On request, the driver's seat can be electrically operated, allowing it to be moved and swivelled by up to 350°.

MASTERS THE MOST DEMANDING OF TASKS

Top quality in every layer

Intelligent drive control included

The perfect interplay between the pivot steering, an intelligent drive control system, the vibration or oscillation drives and the powerful water-sprinkling system is the key to outstanding compaction. All of this is combined with the homogeneous weight distribution in the HX series. The rollers therefore compact to a very high quality even in tight curves, on construction sites in confined conditions or on roundabouts.

The drive is conveniently controlled via the joystick and steering wheel. A preselection of the maximum speed is part of the standard equipment, as well as an automatic reversing. It guarantees gentle braking and acceleration. All of these are the perfect prerequisites for first-class surfaces. Where speed is of the essence, the HX series also scores highly with a high final speed of 11 km/h.



Pivot steering

Vibration and oscillation

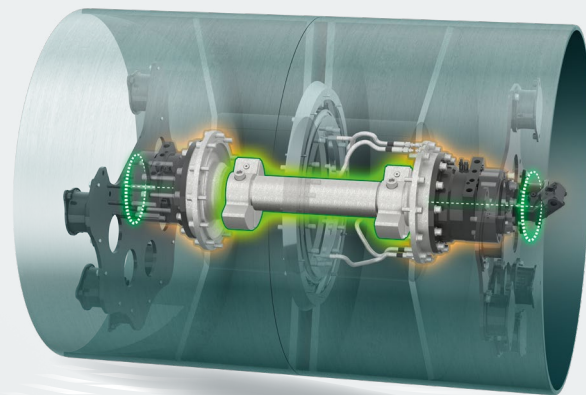
The rollers compact the asphalt using their weight, which acts on the foundation layer during the double pass. If the drums are caused to vibrate at the same time, the compaction effect increases significantly. This is exactly what happens during compaction with vibration and oscillation.

Vibration

During vibration, the drum performs a fast, circular movement. This results in the compaction energy being directed vertically into the substrate, achieving a powerful depth effect.

Oscillation

During oscillation, the drum performs a rapidly alternating forwards/backwards rotational movement. This introduces the compaction energy tangentially to the front and back and into the substrate. In contrast to a vibrating roller drum, it acts dynamically on the substrate all the time. It is always in contact with the ground. This also results in constant static compaction using the machine weight.



Split vibrating roller drum

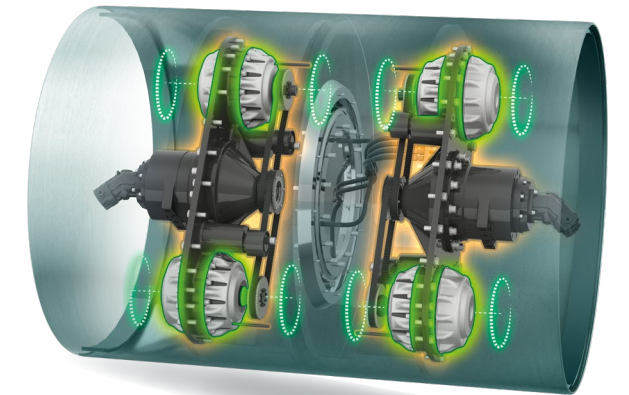
Efficient and cost-effective compaction with oscillation

- > High level of compaction power
- > Fewer passes required
- > No over-compaction
- > Homogeneous, level carriageways
- > Dynamic compaction, even in vibration-sensitive areas
- > Efficient, even at low asphalt or ambient temperatures
- > Low noise level and reduced vibrations
- > Maintenance-free



Split drums for tandem and combination rollers

For maximum quality, there are split vibration and oscillation drums for all HX series models. The reason: Compaction with split drums is particularly effective in preventing material displacement and cracks. Both halves of the drum rotate at different speeds during cornering, so that homogeneous surfaces without cracks are produced even in tight curves.



HAMM is the only roller manufacturer in the world to offer split oscillation drums.

HAMM > VARIETY OF DRUMS

The HX series rollers are available in the following versions

- | | |
|-------|--|
| VV | Two non-split vibrating roller drums |
| VV-S | Two split vibrating roller drums |
| VO-S | Oscillation drum and split vibrating roller drum |
| VS-OS | Split oscillation drum and split vibrating roller drum |
| VT-S | Split vibrating roller drum and set of wheels |

POWERFUL WATER SYSTEM

Large tanks and reliable system

Additive sprinkling: Precise and economical

With an intelligent solution, HAMM ensures economical and, at the same time, precise use of the additive in the combination rollers of the HX series: The concentrate is located in a separate tank. The additive is only mixed in automatically as required during compaction.

Premixing is no longer required, meaning that there is no longer any risk of decomposition. The dosage can be specified separately for each drum. This means that the drum and set of wheels can be actuated separately and sprayed specifically with or without additive. This prevents cooling from happening too quickly, for example, when compacting low-temperature asphalt.



Quality factor: Water-sprinkling system

The rollers in the HX series are equipped with two large tanks at the front and rear. This allows them to be highly productive and reliably sprinkle the drums. Optimal availability is guaranteed by very efficient three-fold filtering of the water.

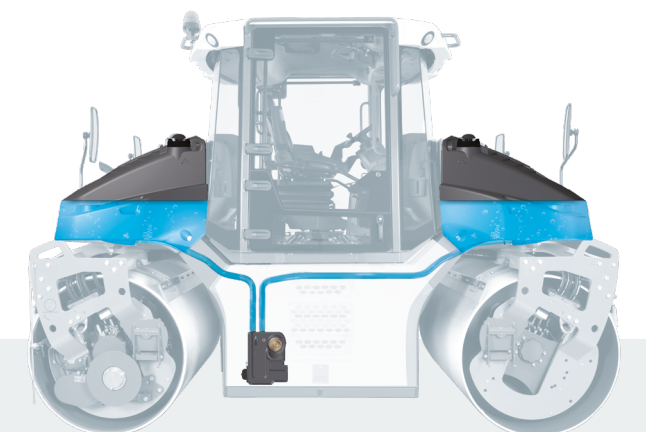
The tanks can be filled quickly and safely via central pressure refuelling. A connecting pipe between the tanks ensures even filling and weight distribution.

Economical and safe

The sprinkling system works with two pumps to ensure that water is always supplied to the drums, even if one pump should fail. A further pump is provided for supplying the edge pressing and cutting device. It is activated separately, which reduces water consumption.

Easy maintenance

An easily accessible spray bar with up to six nozzles is located on each drum. A stainless steel cover (option) prevents the water from being blown away. The spray bars and the individual spray nozzles can be easily installed and removed.



Automatic water supply

depending on the working speed

Rapid filling

via central pressure refuelling

Separate sprinkling

for the drum and set of wheels

Water quantity

can be adjusted in five stages from the operator's platform

EFFICIENT ENGINE CONTROL

Thrifty and quiet

Low-emission engines

State-of-the-art water-cooled four-cylinder diesel engines give the HX series rollers clean power. In all models, your exhaust gas after-treatment complies with the applicable regional regulations. Furthermore, the engines are approved for operation with diesel and HVO fuels. At the same time, large fuel tanks allow for long working intervals.

HAMMTRONIC as standard

The electronic machine management for monitoring all engine and driving functions automatically adjusts the travel drive, vibration and/or oscillation and the engine speed to the prevailing operating conditions. This significantly reduces fuel consumption as well as exhaust gas and noise emissions.

Economical thanks to the automatic engine stop

The automatic engine stop (option) automatically switches the engine off after an extended period of inactivity. This reduces diesel consumption and avoids unnecessary noise emissions. Furthermore, the DPF needs to be regenerated less frequently and the number of operating hours is reduced. All of this guarantees a high level of acceptance with low operating costs.

Optimised fuel consumption without loss of power

When starting up, the engine management automatically sets the rollers in the HX series to ECO mode at a lowered speed of 1500 - 2000 rpm. In conjunction with the HAMMTRONIC control, the fuel consumption is reduced along with the exhaust gas and noise emissions. Nevertheless, the compaction power is constantly high; among other things, this is ensured by the powerful hydraulic system.



EQUIPPED FOR THE DIGITAL CONSTRUCTION SITE

Ready for the construction sites of tomorrow

Digital-ready

The rollers in the HX series are "digital-ready". With interfaces and corresponding hardware, they are prepared for the applications, quality and communication requirements of the construction sites of the future.

For this purpose, a standardised process data interface can be integrated on the operating platform. This allows the rollers to communicate with HAMM's own and other digital applications.

Always informed

The JD Link telematics system visualises the performance data of the rollers in a compact overview in real time. In addition to live data such as consumption data or engine load, working times, position data, error messages and service intervals can also be called up at any time and from any location. Furthermore, diagnostics codes allow for predictive maintenance planning.

Smart Compaction

Digital solutions for improved compaction


HAMM brings together modern assistance systems and other solutions for the measurement, documentation and analysis of compaction processes under the name "Smart Compaction".

Smart Doc

The app compiles data from the machine control system and the smart receiver (GNSS receiver). In this case, "compaction maps" show at a glance the areas which have already been sufficiently compacted, and those which require further compaction. Furthermore, Smart Doc can document the compaction for the continuous compaction control (CCC).


Smart Compact

The Smart Compact assistance system analyses compaction and weather data, and helps operators select compaction parameters: It automatically determines whether the compaction should be static or dynamic and sets the appropriate amplitude.

 Smart Doc - The quality assurance



The data exchange between the machine control system, the Smart Doc app and the Smart Receiver takes place via Bluetooth.

 Smart Compact - The compaction assistant



A monitor on the dashboard displays the current settings and information about the compaction.

IMPRESSIVE SERVICE CONCEPT

User-friendly, simple and fast

Efficient service

To ensure fast and thorough servicing, HAMM uses the WIRTGEN GROUP's WIDIAG service diagnostics tool. The interface for this system is easily accessible in the multifunction armrest.

The HX series rollers can be equipped with the JD Link telematics system for remote diagnostics and efficient fleet management.

Maintenance quickly completed

Long maintenance intervals and few maintenance points are good indicators of mature technology. They can also be found in the HX series. During routine service and maintenance, the rollers stand out thanks to their ease of access to vital points, a wide-opening engine cover and central lubrication points (option) for easy lubrication of the live rings and steering cylinders.

Overall, maintenance is quick and easy with the HX series. This is the best way to ensure that the roller is serviced on a regular basis!

01 Service flap

- > Wide-opening
- > Easy access to filters and dipsticks

02 Servicing access

- > Folding step on the drums
- > Easy filling

03 Scraper

- > Can be easily replaced

04 Temperature sensors

- > Easily accessible under the engine compartment

05 Water tanking

- > Filling from above or via central pressure refuelling (min. 1 bar)
- > Filler neck for pressure refuelling in the engine compartment
- > Connection to hydrant possible
- > Lockable tank cover (option)

06 Water system

- > Central drain for easy draining
- > Easily accessible water filter
- > Water tap as standard

07 Filler neck

- > Filler neck for water, diesel and AdBlue on the same side



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

On the construction site, HAMM rollers are impressive thanks to their low fuel consumption. What's more, most models can not only be operated with diesel, but also with non-fossil fuels. HAMM AG's main plant is certified in accordance with ISO 14001, meaning that HAMM is constantly striving to reduce emissions and the use of resources even in the production of rollers.



HAMMTRONIC

The HAMMTRONIC electronic machine management system monitors all engine and driving functions. It automatically adjusts the travel drive, the vibration or oscillation drive and the engine speed to the current operating conditions. This reduces fuel consumption as well as exhaust and noise emissions.



Easy Drive

Intuitive operation is at the heart of the Easy Drive operating concept. It is easy to learn and employs the same operating logic in all Easy Drive rollers in which it is installed. In addition, the ergonomically optimised operator's platforms ensure the driver always adopts a healthy posture and seating position.



Smart Compaction

With Smart Compaction, HAMM has brought together all the key elements required for digitally supported compaction. The systems record relevant parameters as well as position data and use graphs to display work progress. The data can also be exported into a variety of formats for analysis and documentation.

OPTIONS FOR EVERY EVENTUALITY

Tailored for all applications and regions

HAMM has thought of everything. Thanks to numerous additional options, the rollers can be precisely adapted to the requirements.

Automatic engine-off function

Automatic engine cut-off after an extended period of inactivity. Saves fuel and hence operating costs.

Edge pressing and cutting device

Clearly visible. For precise delineation of the paths. With track indicator. Pressing rolls and cutting wheels in many sizes and diameters. With sprinkling as standard (can be activated from the operator's platform).

Chip spreader

Modern disc spreader (HDS) and precision spreader (HLS). Can be connected via an adapter plate. With LED lighting and tarpaulin. Rapid mounting/dismounting: Operation via the joystick on the multifunction armrest. Optionally with lifting and parking device.

HCM (HAMM Compaction Meter)

Evaluates the rigidity when compacting asphalt. Display of the corresponding HAMM Measurement Value on the dashboard.

HTM (HAMM Temperature Meter)

Measures the surface temperature of the asphalt using sensors below the engine compartment. Single or double version. Display on the dashboard.

Four working lights

A total of four lights on the front and rear of the cabin/protective roof. Halogen (standard) or LED (optional).

LED lighting for drums

Separate lighting for drums and drum edges.

Telematics interface

Standardised interface for the transmission of machine data.

Process data interface

For easy export of the process data (continuous compaction control) in common documentation systems.

Smart Doc

Compaction control app for smartphones and tablets. Supports the driver by graphically displaying the compaction status.

Smart Compact

Assistance system to support the driver. Automatically sets the compaction type (static or dynamic) as well as the appropriate amplitude and frequency.

Thermal apron

Protect tyres against cooling down and accelerate their heating. Easy mounting.



Disc spreader



Line spreader



Edge pressing and cutting device

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 uncomplicated assistance both on the building site and 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



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



Spare parts

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

> parts.wirtgen-group.com



Telematics solutions

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

> www.wirtgen-group.com/telematics

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

TECHNICAL SPECIFICATIONS OVERVIEW



HX SERIES

		Basic data			Drums/variants				
Machine model	Weight class (t)	Drum width (mm)	Engine power (kW)	Max. working width (mm)	VV	VV-S	VO-S	VS-OS	VT-S
Machines in accordance with the EPA Tier 4 / EU Stage V exhaust emission standard									
HX 70i	7	1500	55.4	2770		•	•	•	•
HX 90i	9	1680	74.4	3050	•	•	•	•	•

VV Non-split vibration at front - non-split vibration at rear
 VV-S Split vibration at front - split vibration at rear
 VO-S Split vibration at front - non-split oscillation at rear

VS-OS Split vibration at front - split oscillation at rear
 VT-S Split vibration at front - set of wheels at rear

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