

The asphalt professionals

# HD SERIES

HD 99i - HD 109i





# ECO-FRIENDLY AND POWERFUL TANDEM ROLLERS

Efficient compaction in asphalt and earthworks

Founded in 1878, HAMM has focused on the manufacture of rollers for road construction since the beginning of the 20th century. In 1911, HAMM developed the world's first road compaction equipment with a diesel engine. 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. Moreover, HAMM rollers are sought after thanks to their ergonomic and innovative design. Over the past 25 years, HAMM has been awarded almost 40 design and innovation prizes.

The HD series tandem rollers are famous worldwide for their powerful and user-friendly compaction. They cover a wide variety of jobs associated with road construction and earthworks. They compact gravel or sand just as well as standard and special asphalts.

All models of tandem roller in the HD series are double-drum vibrating rollers. They come with an articulated joint that ensures good directional stability, high stability when cornering and a high level of driving comfort. For special compaction applications, the rollers can be tailor-made with special equipment and many convenience and safety solutions.



## HAMM PRODUCT RANGE

- TANDEM ROLLERS**
  - > Drum width: 1,680 mm
  - > Operating weight: 9 – 10 t
- SOIL COMPACTORS**
  - > Drum width: 2,140 mm
  - > Operating weight: 11 – 13 t



# OVERVIEW OF THE HIGHLIGHTS

Perfectly equipped

## 01 Operation and comfort

- > Simple operation
- > State-of-the-art dashboard, lever and seat
- > Intuitive, language-neutral and safe operation
- > Ergonomic, comfortable and spacious operator's platform



- > Environmentally friendly technologies
- > Outstanding design

## 02 3-point articulation

- > Even weight distribution
- > First-class directional stability
- > Outstanding driving stability even on uneven ground

## 03 Engine technology



- > Future-proof and eco-friendly
- > CEV Stage IV engine technology
- > Reliable and fuel-efficient John Deere engine

## 04 Visibility

- > Outstanding overview of the machine and construction site
- > Powerful LED working lights for excellent visibility, even in poor conditions

## 05 Water-sprinkling system

- > Powerful water-sprinkling system
- > Perfectly visible spray bar

## 06 Maintenance and servicing

- > Wide-opening doors for easy maintenance
- > All standard filters accessible from the ground



**HAMM**  
SUSTAINABILITY

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



# EQUIPPED FOR COMFORT

Excellent working conditions

**Swivelling driver's seat**  
can be turned by 45° to either side.

**Canopy as standard**  
can be manually retracted for transport in no time.

**Bottle holder**  
directly beside the driver's seat

**USB connection**  
and 12 V socket at the operator's platform



**Ergonomic and spacious operator's platform**

The HD series tandem rollers offer drivers an excellent working environment with plenty of space at the vibration-insulated operator's platform. Steps are provided on both sides. The comfortable driver's seat can be moved forwards and backwards, ensuring that every driver can achieve the ideal working position.

The dashboard, steering column and drive lever are linked with the driver's seat in a seat-operating unit. This means that the driver always has the dashboard in view, even when the seat is swivelled.

And, of course, there are compartments for storing the machine documentation and personal items.



# CLEAR AND EASY

By professionals, for professionals

**01 Protective roof**

> Standard equipment for increased comfort. The protective roof with handrails can be manually retracted for transport in no time.

**02 Step**

> Convenient access from both sides.

**03 Vandalism protection**

> Dashboard cover to prevent vandalism is included in the standard scope of supply.

**04 Compaction parameters**

> The operator can choose between two frequencies and two amplitudes. This enables a wide variety of asphalt mixes and gravel to be compacted.



The operator's display, designed with clear symbols, ensures easy operation - without the need for any language skills. The display clearly shows the machine's status and indicates fault signals.

**Intuitive and language-neutral**

HAMM makes life easy for roller drivers: Other than the steering wheel and the drive lever, there is just one clearly laid-out dashboard on the steering column. The drive is controlled via a single drive lever. The activation switch for vibration is located on the drive lever, so that the two most frequently used functions can be controlled with one hand.

The switches on the dashboard are grouped together in a logical arrangement, so that the functions are discernible at a glance without any need for explanation.

**Clear design - quality compaction**

The dashboard shows the driver all of the status displays that are of importance for operation. They are explained using simple, internationally understandable symbols. The driver is therefore always fully informed about the current operating status of the machine - an important prerequisite for the high-quality compaction of asphalt surfaces.

**Always the right engine speed**

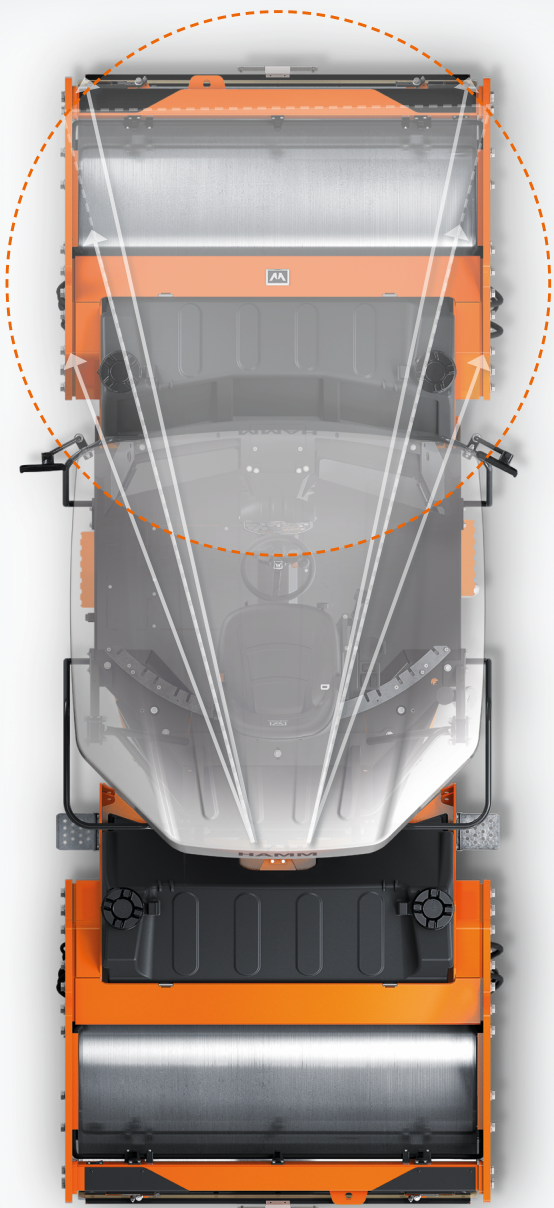
During operation, the operator can choose between three preset engine speeds for idling, transport and compaction. This means that there is always sufficient power available in working mode in order to operate the compaction units at the appropriate frequency. The compaction can therefore always be of a high quality.





# QUALITY COMPACTION

Unobstructed view for safe, complete and high-grade works



**Good visibility for safe and high-quality compaction**  
The HD series tandem rollers provide remarkably good visibility from the large operator's platform. Drivers see everything in the immediate working area around the roller as well as in the general environment of the construction site. The drums and the sprinkling system are always in their field of vision. The good visibility therefore ensures high-quality compaction and a high level of safety.

**Powerful LED lights**  
The HD series tandem rollers are equipped with LED lights with low-beam and high-beam function at the cross member. The front and rear working lights are LED lights as standard. The lighting system allows for optimum visibility, even at night or when working under poor lighting conditions.

**Compaction right up to the edge**  
Elevated side panels give ample side clearance when working alongside kerbs, and enable compaction right up to the edge.

Moreover, as an option, the drum tracks can be offset up to 100 mm to the right or left. This function is available in all driving situations. It enables complete and thorough compaction right up to the edge. When re-rolling and finishing, the wider working width ensures a high surface quality and enables compaction with an increased working width

**Adjustable frequency and amplitudes**  
In vibration mode the operator can choose between two amplitudes. With the right machine setting, the compaction energy is optimally adjusted to the various asphalt and crushed rock layers

**Small turning circle for maximum agility**  
The HD series articulated tandem rollers can compact swiftly even in tight curves thanks to their extremely small turning circle - under 4 m, depending on the model.

**Precise steering, safe driving**  
The 3-point articulation in the HD series tandem rollers offers drivers exceptionally good driving stability and steering characteristics, providing unrivalled directional stability with great driving comfort.

**Even weight distribution**  
In addition, the 3-point articulation ensures uniform weight distribution over the front and rear sections, even at full steering lock. This results in very smooth asphalt surfaces because asphalt movement and lateral deformations are prevented from the outset. As another advantage, the risk of tipping when cornering is significantly reduced thanks to the 3-point articulation.



The special kinematics of the 3-point articulation ensure even weight distribution, first-rate directional stability and outstanding driving stability.



# GREEN AND STURDY POWER TRAIN

Eco-friendly and efficient

**Meets CEV Stage IV standards**

The HD series rollers are powered by best in-class 3-cylinder John Deere diesel engines. They comply with the CEV Stage IV exhaust emission standards. The fuel-efficient engines come with green technology. John Deere consistently applies the ideal level of engine technology to optimise individual off-highway equipment performance.

**Fuel-efficient operation**

The engine is designed to meet emissions regulations while providing optimal performance and maximum customer value in every application. These engines have optimised RPM for travel and vibration mode, which saves fuel.

The efficient oil and water cooling is designed in such a way that the volume flow of cooling air adapts to the required cooling capacity. This reduces both power consumption and noise emissions.

**Emissions-control included**

John Deere engines are based on an optimised platform with a variety of emission-control components, such as a high-pressure-common-rail (HPCR) fuel system and a catalysed exhaust filter that contains a diesel oxidation catalyst (DOC) and a diesel particulate filter (DPF).

**Safe operation**

A large-capacity fuel tank permits longer operation and fewer refuelling stops. At the same time, damage is prevented by a safety alarm and indication of high cooling water temperature along with an engine cut-off in the event of low lubricant oil pressure.



# POWERFUL SPRINKLING SYSTEM

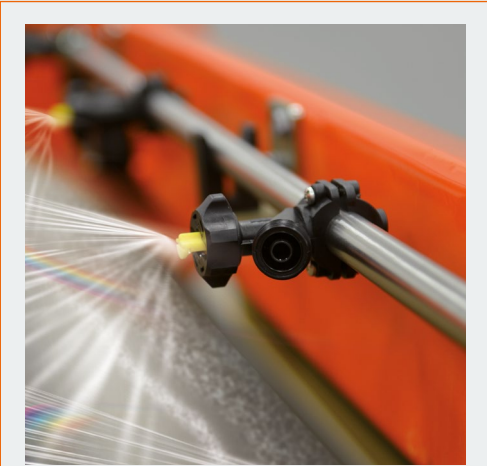
Large tanks, reliable construction

**Practice-proven water system**

The HD series rollers bring a very powerful water-sprinkling system to the construction site. This begins with the large water tanks. Their volume permits long working days without the need for refilling stops. The tanks are made of opaque PE in order to prevent algae formation.

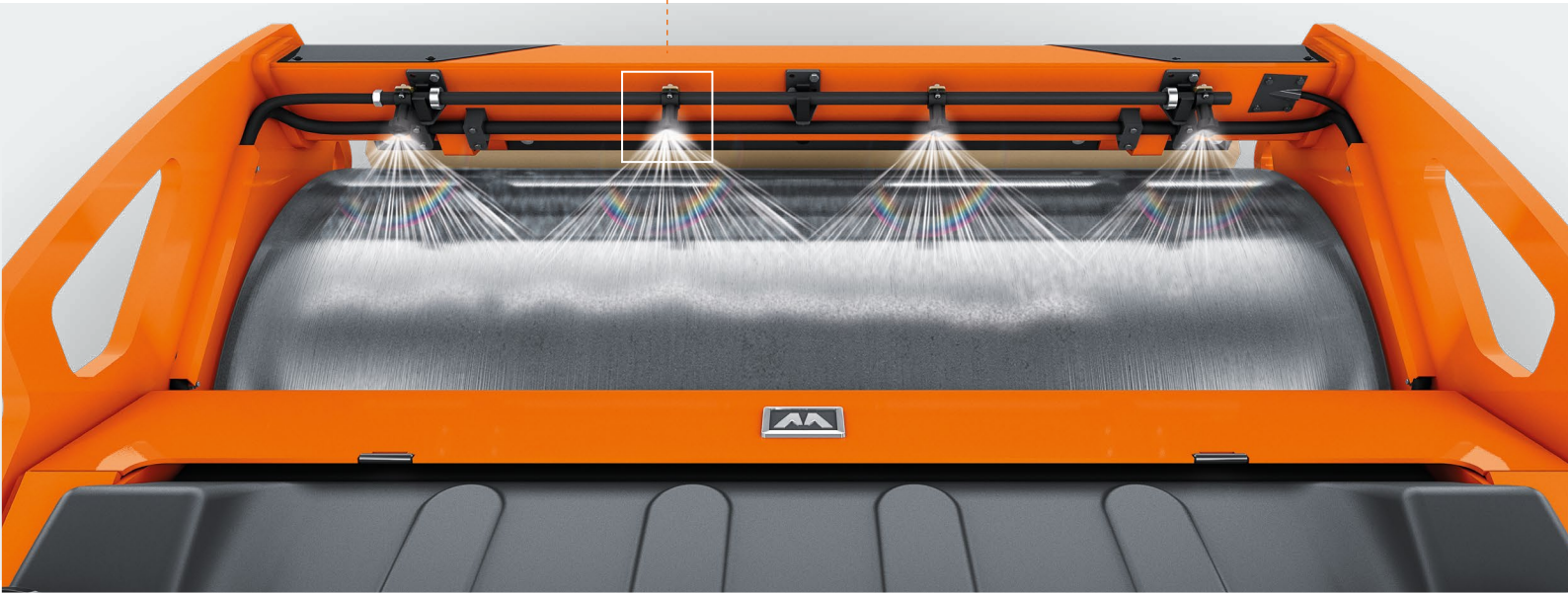
There is one spray bar per roller drum, arranged in such a way that the spray bars can be seen by the driver. A robust pump system ensures reliable sprinkling. Even in strong winds, spraying remains constant as the spray bars are shielded by the frame. The spray bars are mounted in an easily accessible position on the crossbeam. The bar and the nozzles can be removed for cleaning, replacement or frost protection in next to no time.

The water delivery intervals are preset on the dashboard. Furthermore, a foot switch enables the driver to supply additional water in a matter of seconds should the need arise.



The fine nozzles operate effectively, yet very economically. The open-top frame provides a clear view of the spray bar and spray nozzles.

The spray bar is mounted behind the cross member so that the spray pattern is unaffected by wind.





# EASY MAINTENANCE AND SERVICE

Efficient in every detail

### EASE OF SERVICEABILITY

The daily maintenance of the HD series rollers is not only simple, but can also be done quickly. This is because all standard filters can be easily accessed from the ground.

All service items and all engine-critical components are readily accessible via large doors in the engine compartment. The engine can be easily accessed via a large service flap in the operator's platform.

When it comes to replacing spare parts, WIRTGEN INDIA provides the parts needed – both quickly and reliably.



# PREPARED FOR EVERY SITE

Many options for countless applications

In their weight class, the HD series tandem rollers cover a huge spectrum of asphalt compaction applications. All models of tandem roller in the HD series are equipped with two vibration drums.

### 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.

### HTM (HAMM Temperature Meter)

HAMM Temperature Meter for measuring and displaying the asphalt surface temperature.

### Protective roof

Protective roof with handrails.

### Track offset

Hydraulically operated track offset (100 mm).

### Speed display

Enables easy compliance with compaction specifications.

### Rotating beacon

For enhanced safety. Equipped with LED.

### LED working lights

Available as two-fold working lights (rear) and four-fold working lights (rear and front).

### Additional water pump

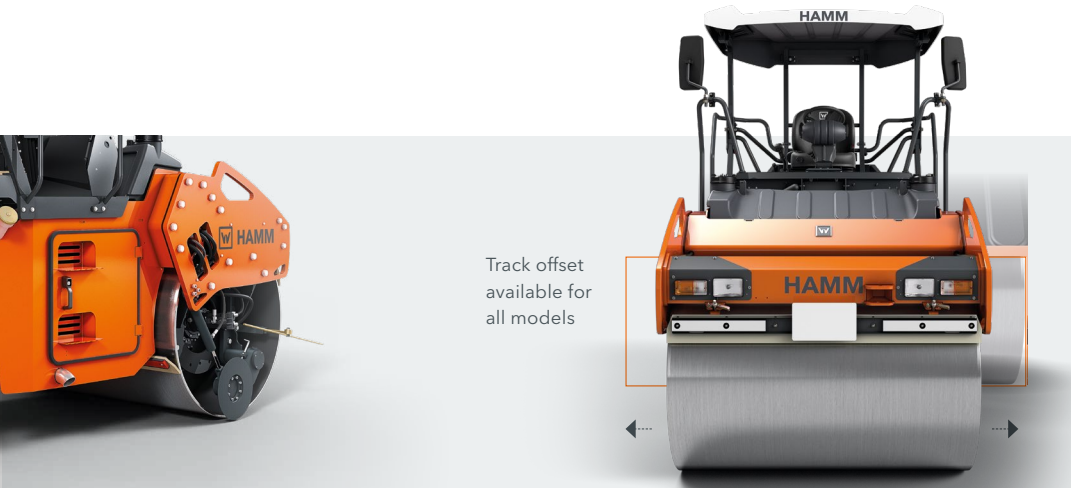
For the water-sprinkling system.

### Cold-start kit

For reliably starting at temperatures below -5 °C

### Intelligent Compaction System (ICS)

Minimises the number of passes, records the output and prevents over-compaction. Includes a temperature meter for measuring and displaying the asphalt surface temperature.





# 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](http://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](http://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.

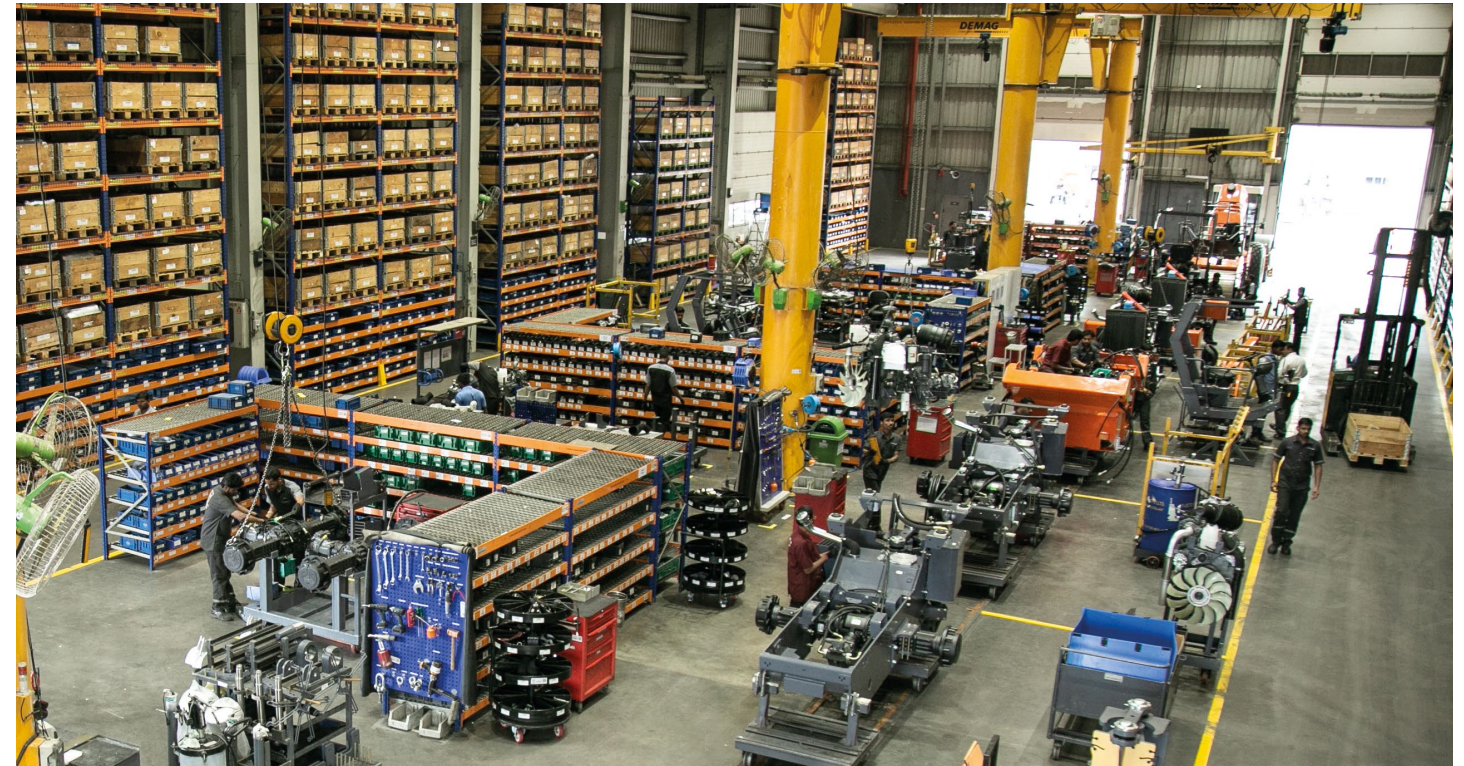
> [parts.wirtgen-group.com](http://parts.wirtgen-group.com)



## Telematics solutions

Construction machines with leading technology and perfected telematics solutions work hand-in-hand in the WIRTGEN GROUP. The Operations Center\* – the 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)



## Strong presence in India since 1995

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. Working with passion and dedication, our highly motivated team are on hand to ensure your success at the construction site.

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



## 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. In addition, HAMM constantly strives to reduce emissions and the use of resources during production of rollers in the factories.



## 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.

\* 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.



# OVERVIEW OF THE TECHNICAL DATA

HD SERIES					
Basic data					Drums / variants
Machine type	Weight class (t)	Drum width (mm)	Engine power (kW)	Max. working width (mm)	VV
Machines in accordance with exhaust emission standard CEV Stage IV					
HD 99i VV	9	1680	55	1780	•
HD 109i VV	10	1680	55	1780	•

VV = Vibration at front - vibration at rear





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