



®

DV SERIES

THINK FORWARD!





red dot
PRODUCT DESIGN
AWARD WINNER



DV

An entirely new driving and operating concept

„Think forward“ is the motto of our DV family of rollers. Three machines - each a champion in its weight class. One feature that they all have in common is HI-DRIVE - an intelligent driving and operating concept that once again shows HAMM leading the way in the construction of modern compaction machines.

Increased safety, economy and quality

The DV range of tandem rollers with fifth-wheel-type all-drum steering combines numerous innovations with proven technology such as Hammtronic, and is precisely tuned to the needs of the driver. As a result, these tandem rollers provide increased compacting power per unit area together with greater safety and exceptionally economical operation - whilst of course ensuring maximum quality.

Hammtronic for more effective and economical compacting

The Hammtronic electronic machine management system monitors all important engine and vehicle functions, thereby enabling optimal compacting results to be obtained without sacrificing economical operation. Maximum productivity, quality and service life are achieved.



HAMMTRONIC



Comfortable driver's seat with integrated joystick and display

The driver's seat with its two comfortable armrests is also the operator control centre. Consequently, all the important controls for compacting or for adjusting the working position, e.g. seat rotation and cab lateral offset, are located directly on the seat in easily accessible and

clearly arranged positions. Due to the use of unambiguous pictogram symbols, the function of each switch is easy to understand. The display and joystick are also deliberately separated from each other, in order to maintain a free view over the drum.

Spectacular free view

The desire for a genuinely free view over the drums prompted the engineers at Hamm to pioneer new concepts in chassis design. The result is a machine frame that is entirely free of structural elements in the area between the driver's cab and the drums. Consequently, for the first time, the driver can keep a constant eye on water sprinkling and also immediately verify the result of compacting. Both of these features enhance the quality of compaction.



Free view over the drums

Perfect outlook for optimal compaction

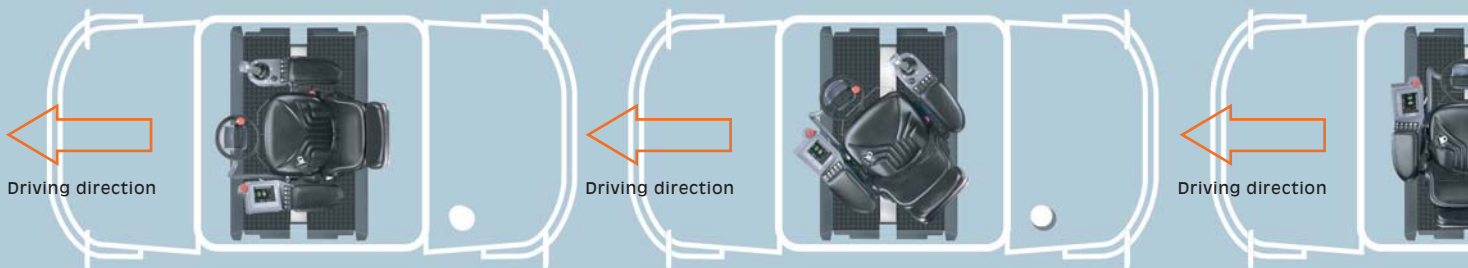
The rollers of the new DV series have the advantage of a unique free view concept. In other words, the driver always has a clear view of the construction site and in particular an unobstructed view directly over the drums - both day and night. This fundamentally new machine design with its unique open chassis and generously dimensioned panoramic cab provides dreamlike conditions for comfortable and efficient working.

Wide all-round view of the construction site

Free view over the drums



Electrically adjusted infinitely variable sliding and rotating driver's seat



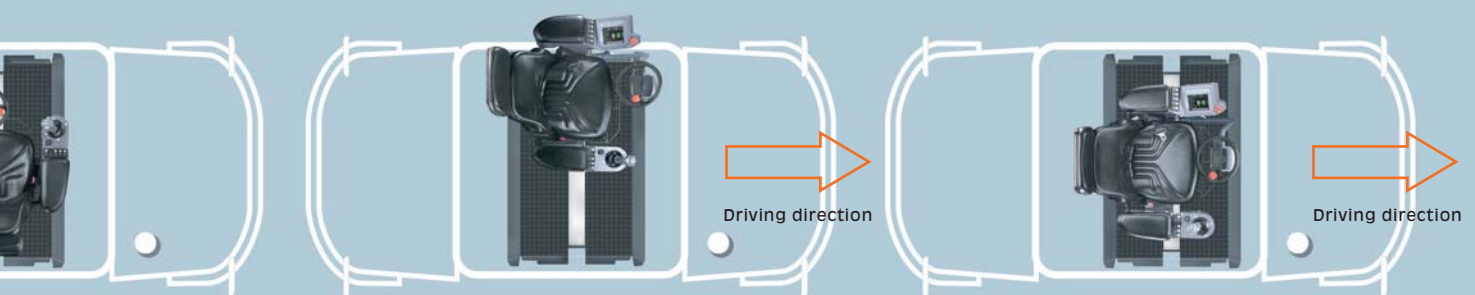


Unique night-time illumination

16 headlamps illuminate the entire work area. This unique concept provides dazzle-free visibility conditions, as in daytime

Electrically adjusted infinitely variable sliding and rotating driver's seat

During compacting operations, inside the high-comfort cab, the driver can at any time freely rotate the infinitely variable driver's seat through more than 360° at the touch of a button. Since the seat can always be swivelled to the desired position, any discomfort is avoided in all driving situations, in particular when reversing. This system preserves health and is comfortable and safe.



HI-DRIVE

6



2 equipment variants

- Joystick HI-DRIVE with steering and ground drive function + i-dot (mini steering wheel) for precise steering manoeuvres
- Joystick HI-DRIVE with ground drive function (drive lever) + steering wheel for direction control (the steering wheel can be folded out of the way when climbing in and out of the cab)

Easy handling thanks to HI-DRIVE

To change direction, the driver simply moves the joystick in the desired new direction, and the intelligent HI-DRIVE system does the rest.

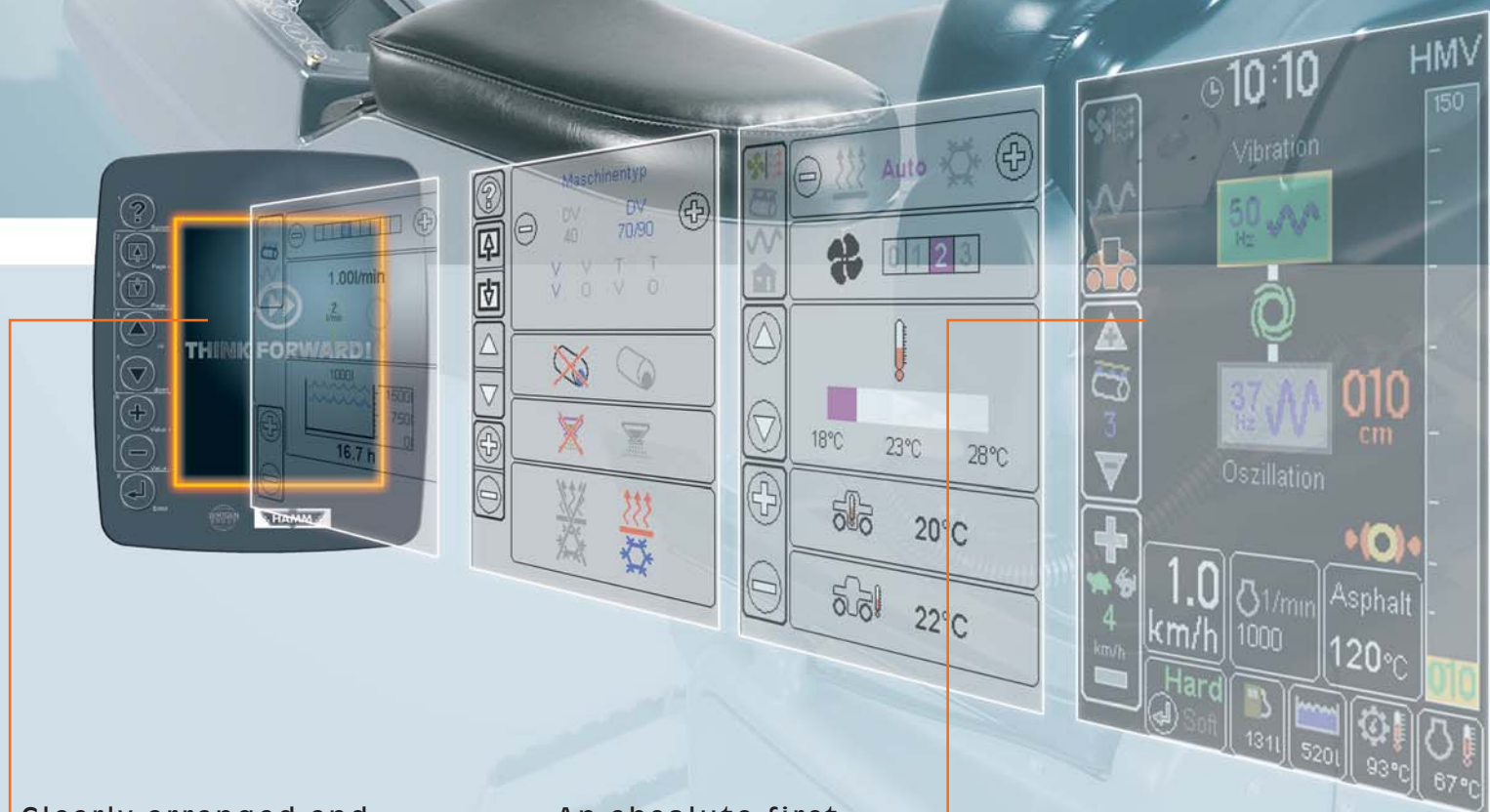
The direction of travel, and therefore the steering control direction, is now always crystal clear to the operator.



SINGLE-handed driver operation

A key component of our new HI-DRIVE operating control concept is the intelligent multi-function joystick that makes driving the machine a real pleasure. The unique feature of this system is that its control direction always automatically corresponds to the direction of travel of the roller - irrespective of the seat position.

For the machine driver, this innovative design provides a convenient support that also decisively improves safety. Even when the seat is rotated, the movement of the drive lever continues to correspond to the direction of driving of the machine.



Clearly arranged and easy-to-use display at the driver's seat

A display is mounted directly on the driver's seat of the DV tandem rollers. The screen, which is clearly lit by both day and night, shows the driver at all times all the relevant operating states and settings of the machine.

The screen displays and operating controls are very clearly arranged and easy to follow.

The input menus are simple to use, and all the compaction parameters, such as frequency selection, water feed rate for water sprinkling and maximum drive speed, can be rapidly set.

An absolute first – independent frequency and amplitude control for each drum

The frequency and amplitude of vibration can now be set for each drum individually. This feature enhances flexibility, increases performance and is unique to HAMM.



Everything under control with just 4 buttons



Side views

Electrically adjustable lateral position of the high-comfort cab

Since the lateral position of the high-comfort cab can be electrically adjusted to the left or right, the driver can carry out even the most awkward of precision operations with the DV roller whilst remaining comfortably seated. And of course this feature also enhances the monitoring of the compaction result

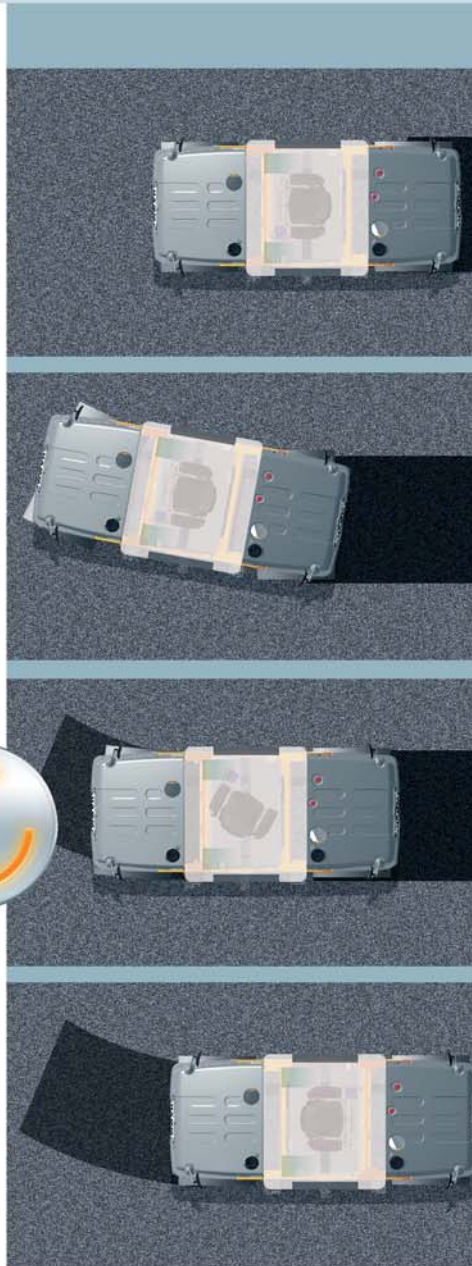


This lateral cab adjustment facility is part of our unique free view concept. The panoramic cab can travel up to 30 cm beyond the machine frame on either side. This feature gives drivers entirely new perspectives over their work area.

For the first time, despite being enclosed in the cab, the driver has a clear view of the edge of the drums and the edge of the kerb. With these practical aids, the driver can now really enjoy using the other benefits of the comfortable workspace, such as the air conditioning.

Practical and safe reversing on the construction site.

THINK FORWARD!
We are always thinking forward and driving ahead.



The DV tandem roller drives right up to an asphalt paver...

...while gradually braking in front of the paver, the driver gently steers into position. This prevents any indenting of the asphalt surface.

When turning the machine round, the driver's seat is automatically swivelled to face the opposite direction, and the machine slowly starts up again.

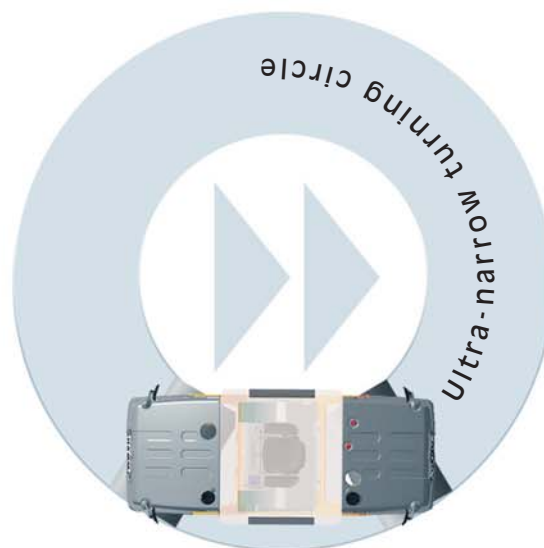
The drum that is now at the rear automatically returns to the 0 position, and the machine accelerates back up to operating speed.

There is no going back!

Until now, compactor drivers would drive forwards for half the time and in reverse for the other half. With us, "reverse" no longer exists!

Thanks to our newly developed, innovative HI-DRIVE operating and driving concept, the driver of the DV roller is always facing forward - irrespective of the direction in which the machine is driving.

This feature considerably improves safety on the construction site. The driver's workload is lessened, whilst area coverage is increased and the compaction result is optimised.



Exceptional working width and comfortable seating position in crabbed steering mode



Maximum crabwise position

In addition to the exceptionally wide offset of the two drums, the new tandem roller has an extra benefit: The infinitely variable electrically swivelled driver's seat enables the driver to adjust the seating position to face the direction of driving even in crabbed steering mode.

THINK FORWARD!



Big hatch, with a lot behind it

Rapid and simple maintenance thanks to easily accessible engines. The engine block can also be lowered.



Diesel consumption



HAMMTRONIC

The Hammtronic engine management system ensures, among other things, that the diesel engine always operates at the optimal speed for every load. This preserves the engine and ensures low diesel consumption and particularly low noise. Moreover, water sprinkling, vibration/oscillation and ground drive are optimally controlled.

Extremely quiet machine

Low fuel consumption and low noise level thanks to Hammtronic



DV

Increased safety through optimal all-round view

Water sprinkling with double spray bars that are individually adjustable in multiple steps, combined with two pumps for economical and efficient operation.



DV 40 70 90

Think Forward!



TECHNICAL DATA

DV 40 VV DV 40 TV DV 70 VV DV 70 VO DV 70 TV DV 70 TO DV 90 VV DV 90 VO DV 90 TV DV 90 TO

| Weights | | | | | | | | | | |
|---|---------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Operating weight with driver's cab kg | 4.130 | 3.880 | 7.865 | 7.865 | 7.535 | 7.535 | 9.575 | 9.410 | 8.885 | 8.735 |
| Static linear load front/rear kg/cm | 17,4 / 17,0 | 17,0 | 26,5/26,0 | 26,5/26,0 | 26,3 | 26,3 | 29,0/28,0 | 28,9/27,1 | 28,0 | 27,1 |
| Dimensions | | | | | | | | | | |
| Overall length/height mm | 3.310 / 2.610 | 3.310/2.610 | 3.890 / 2.920 | 3.890 / 2.920 | 3.890 / 2.920 | 3.890 / 2.920 | 4.100 / 2.980 | 4.100 / 2.980 | 4.100 / 2.980 | 4.100 / 2.980 |
| Operating width mm | 1.200 | 1.200 | 1.500 | 1.500 | 1.500 | 1.500 | 1.680 | 1.680 | 1.680 | 1.680 |
| Oper. width in crabbed steering mode mm | 2.300 | 2.290 | 2.750 | 2.750 | 2.710 | 2.710 | 2.990 | 2.990 | 2.960 | 2.960 |
| Turning circle radius, inner, mm | 2.240 | 2.240 | 2.505 | 2.505 | 2.505 | 2.505 | 2.590 | 2.590 | 2.590 | 2.590 |
| Vibration | | | | | | | | | | |
| | front/rear | | front/rear | | front | | front/rear | | front | |
| Frequency Hz | 48/55 | 48/55 | 42/50 | 42/50 | 42/50 | 42/50 | 42/55 | 42/55 | 42/55 | |
| Nominal amplitude mm | 0,65/0,40 | 0,65/0,40 | 0,61/0,42 | 0,61/0,42 | 0,61/0,42 | 0,61/0,42 | 0,62/0,41 | 0,62/0,41 | 0,62/0,41 | |
| Oscillation | | | | | | | | | | |
| | | | rear | | rear | | rear | | rear | |
| Frequency Hz | | | 36 | 36 | 36 | 36 | 42 | 42 | 42 | |
| Tangential amplitude mm | | | 1,3 | 1,3 | 1,3 | 1,3 | 1,37 | 1,37 | 1,37 | |



Equipment

All types

- Large panoramic driver's cab with free view concept and unobstructed view over the drums
- Joystick HI-DRIVE with graphical monitoring and information display (alternatively with fold-away steering wheel)
- Hamtron Electronic Machine Management
- Large maintenance doors on both sides and engine lowering system

DV 70/90

- Cab position laterally adjustable to either side
- Electrically adjustable comfort seat, with controls for both in-line adjustment and for swivelling by more than 360°
- Seat automatically revolved to face the direction of travel
- Frequency and amplitude individually adjustable for front and rear drums
- Double water sprinkling with 2 pumps and 4 spray bars

DV 40

- Manually adjustable seat in-line and up to 60° swivelling
- Pressurised water sprinkling with 1 pump and 2 spray bars

Models

DV 40

The DV 40 is the only tandem roller of the 4-ton class to have fifth-wheel-type all-drum steering. It is the smallest member of our DV range but is big in performance. Its particular advantages include an extra-large drum offset in crabbed steering mode. It is ideal for both small and large jobs on all types of construction site, and its high performance per unit area ensures low-cost compacting.

DV 70

In the DV 70, our roller for the 7-ton class, the benefits of HI-DRIVE, our revolutionary operating and driving concept, come fully into play. The driver enjoys dreamlike working conditions with the electrically adjustable driver's seat that can be rotated more than 360° as well as adjusted in-line, the laterally adjustable panoramic driver's cab with its outstanding all-round visibility, the free view of the drums and the innovative joystick control.

DV 90

The compact DV 90 is tuned for power. With a weight of 9 tons and an engine power of 74 kW, it is always there when large areas need to be compacted. Like the DV 70, it is equipped with our newly developed HI-DRIVE operating and driving concept, thereby providing not only outstanding productivity but also a massive increase in safety.

Subject to technical change + modified equipment options





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