Heesemann
WORLD OF SANDING.

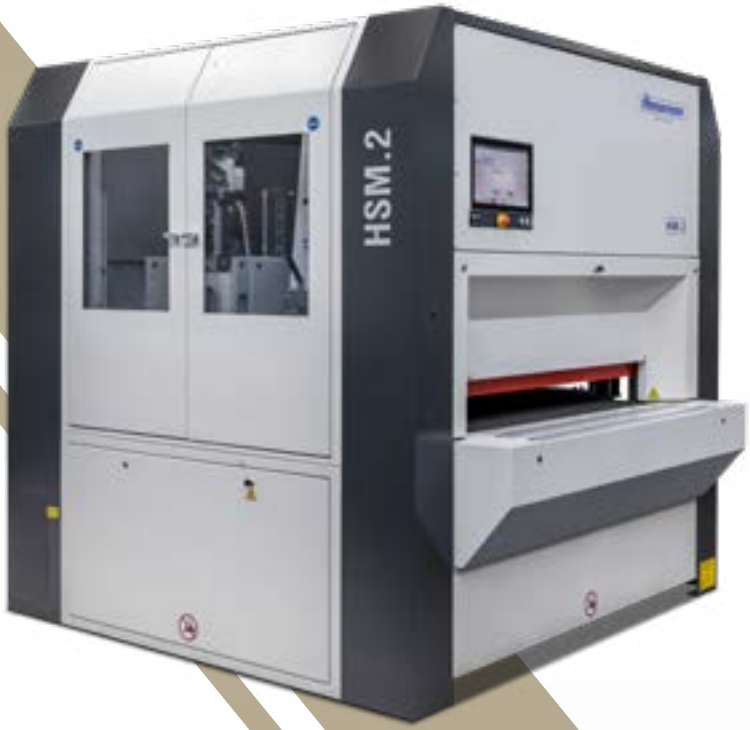
HSM New Edition

The surface sanding machine

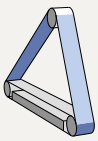
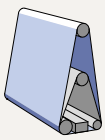
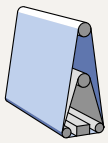
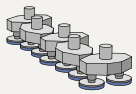
The HSM New Edition is the automatic surface sanding machine for **small** and **medium-sized craft and industrial** companies. Whether effect sanding, cross sanding, lacquer or high-gloss sanding, whether panels, solid wood or veneered workpieces - the Heesemann HSM New Edition is the optimally matched sanding machine for the craft! In its standard configurations with two, three or four units, the HSM New Edition is ideally prepared for all typical applications.

- Normal production volumes
- Working width: 1.350 mm
- Working from above

TECHNICAL DATA
HSM NEW EDITION



Units

							
	Longitudinal sanding roller (Lw)	Cross sanding unit (Q)	Longitudinal sanding unit with pressure segment belt and calibration roller (Ldk)	Longitudinal sanding unit with calibration roller (Lk)	Longitudinal sanding unit with pressure segment belt (Ld)	Planetary head unit DB-S	Brush unit (B)
Sanding belt dimensions (L x W mm)	2.620 x 1.350	4.800 x 150	2.620 x 1.350	2.620 x 1.350	2.620 x 1.350	10 disc brushes Ø 150 mm	
Ø Contact roller (mm)	Steel: 200 Ruber: 250						200
Drives Performance / Belt speed in m / s	22 kW	15 kW 2 - 20 m / s	15 kW 1,8 - 18 m / s	15 kW 1,8 - 18 m / s	15 kW 1,8 - 9 m / s	Satellite-rotation: 1,5 kW FU ± 60 - 300 min^{-1} Disc rotation: 5,5 / 7,5 kW FU ± 260 - 1.300 min^{-1}	5,5 kW
Connection diameter (mm)	Ø 180	Ø 160	Ø 160	Ø 160	Ø 160	Ø 160 (2x)	Ø 160
Extraction value (m^3 / min)	30,5	24	24	24	24	24	24
Recommended Air velocity (m / s)	20	20	20	20	20	20	

Machinery base working height 880 mm / working width 1.350

W 2.260 **H** 2.250	**Length** (mm)	**Weight** (kg)	**Feed speed** (m / min)	**Vacuum** (kW m^3 / min)
2-Units	approx. 1.960	approx. 4.000	3 - 15	2,2 11
3-Units	approx. 2.510	approx. 5.500	3 - 15	
4-Units	approx. 3.130	approx. 6.000	3 - 15	

Subject to technical modifications.

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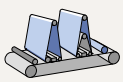
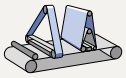
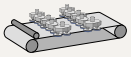
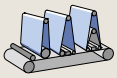
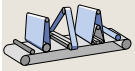
STANDARD MACHINES: HSM NEW EDITION

	MACHINE TYPE							
	HSM .2 New Edition				HSM .3 New Edition			
VARIANT	 Lk-Ld	 Q-Ldk	 Ldk-DBS	 DBS-DBS	 Lw-Lw-Ld	 Lw-Lk-Ld	 Lw-Q-Ld	 Q-Ldk-DBS
CALIBRATION	●○○	●○○	●○○	○○○	●●●	●●●	●●○	●○○
WOOD SANDING	●●○	●●○	●●○	●○○	●●○	●●○	●●●	●●○
VENEER SANDING	●●○	●●●	●○○	●○○	●○○	●●○	●●●	●●●
LAQUER SANDING	●●●	●●●	●●○	●●○	●○○	●●●	●●●	●●●
HIGH GLOSS	○○○	●●○	○○○	○○○	○○○	○○○	●●○	●●○
STRUCTURING	optional	optional	●●○	●●○	optional	optional	optional	●●○
3D/ BRUSHING	○○○	○○○	●●●	●●●	○○○	○○○	○○○	●●●
EFFECT SANDING	●○○	●●○	●●○	○○○	●○○	●○○	●●○	●●●

					HSM .4 New Edition			
Q-Lk-Ld	M-Lw-Lk	Lw-Ld-DBS	Lk-Ld-DBS	Ldk-DBS-DBS	Lw-Lw-Lw-Ld	Lw-Lk-Ld-DBS	Lw-Q-Ld-DBS	Q-Lk-Ld-DBS
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optional	optional	●●○	●●○	●●○	optional	●●○	●●○	●●○
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DISC BRUSH
UNIT DB-S

The DB-S consists of 5 satellites (6 satellites for a sanding width of 1,600 mm) and each satellite holds two disc brushes with a diameter of 150 mm. The direction and speed of rotation of the satellites and discs can be adjusted independently for maximum application flexibility and performance.

Different discs can be used depending on the specific application. Plates with sanding strips for processing three-dimensional workpieces, for breaking edges or for intermediate paint sanding, discs fitted with Anderlon or stranded wire for structuring or sanding pad plates for sanding and finishing the surface.

The disc brush unit produces a flawless surface. As such, the DB-S can also serve as the final unit of a sanding machine. This delivers a perfectly homogeneous surface. In addition to wood, the DB-S can also be used for sanding paint, solid surface materials or plastics.

The DB-S can be pulled out of the side of the machine on integrated rails, enabling easy tool or application changes and free access to all of the discs. Using the quick-release fasteners, the tools can be changed in only a few minutes.

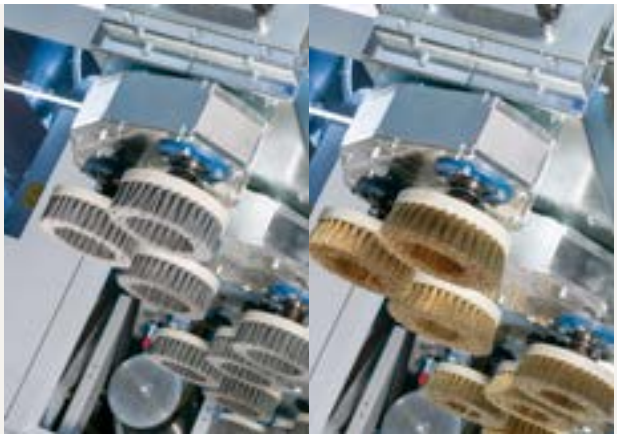
Different Disc Brushes can be used depending on the application

Grinding strips:

- Machining of three-dimensional workpieces
- Edge breaking
- Intermediate lacquer sanding

Anderlon or stranded wire:

- Structuring and texturing



Sanding pads:

- Grinding and finishing the surface

For easy mold or application changes, the DB-S can be pulled out of the side of the machine on integrated rails. All platens are thus freely accessible. Thanks to **quick-release fasteners**, this can be done within a few minutes.

QUICK CHANGE
BRUSH UNIT

Barrel brush head | 3D finish

- Fine sanding of wood and wood-based materials, as well as painted surfaces
- Refine the sanding patterns of upstream processes
- Suitable for machining three-dimensional workpiece surfaces

Structuring brush Anderlon

- Ideal for light to medium structuring of hard wood and softwood

Structuring brush Stranded wire

- Ideal for intense structuring of hardwood and softwood

Glazing brush

- Recommended for smoothing and highlighting pores on lacquered surfaces

APPLICATION AREAS
EFFECT SANDING

Individual effects for creative customer solutions

Incredible sanding effects can be achieved using a Heesemann surface sanding machine equipped with at least one cross and one longitudinal sanding unit. These are a few of the possibilities:

Sawed surfaces

A Heesemann cross sanding unit and a very coarse sanding belt can create extraordinary saw surface structures on veneered workpieces in a continuous process.

Vintage Look

A Heesemann longitudinal sanding unit can be used to create a „vintage look“ on workpieces with two different coats of paint. Heesemann has developed a special sanding program to achieve an intentionally irregular surface effect on workpieces with a dark primer and a lighter topcoat.

Planing

A Heesemann longitudinal sanding unit in combination with highly flexible sanding belts, a special steel plate and a special sanding program can produce random depressions on the surface of workpieces to create a planed look.

OUR
MACHINE STANDARDS

IPC with touchscreen

All Heesemann machines are equipped with a powerful and highly flexible industrial PC as standard. All frequently used settings are clearly displayed graphically on a single screen page. In addition, this industrial PC offers a wide range of applications via standard interfaces for storage media and for remote diagnostics.

Intuitive HMI operation

The optional HMI package equips your Heesemann with LED strips on the infeed and outfeed. The LEDs have two key functions: Firstly, the strips utilize simple color symbols to indicate where to insert the workpiece in order to optimize wear on the sanding belts. The control system utilizes various parameters that the operator can adjust. This process immediately and significantly reduces your tooling costs by ensuring more even belt wear. Secondly, the LED strips also display warnings or errors, enabling the operator to identify error messages from a distance.

Optionally, you can also equip your machine with an additional camera. This provides the operator with a live view of the outfeed via the terminal and the operator can react immediately if a workpiece blocks the outfeed, for example. The HMI package gives you an additional measure of control and helps to sustainably improve the profitability of your processes.

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ENERGY MANAGEMENT SYSTEM (EMS)

Benefits for the environment and users

With Heesemann's EMS energy-saving system our environment and users benefit equally: Decreasing energy consumption reduces both the burden on the environment and your costs.

When no workpieces enter the machine, the drive motors in the units reduce speed. This significantly reduces the energy consumption of the machine depending on the workload. When new workpieces are run in, all motors are quickly started up again.

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