



green GLUING

DUERO

Multi-Bead Application Head for Mattresses
robust | resilient | versatile

HIGH-QUALITY MATTRESS GLUING

Designed for Harsh Conditions

The conditions in automatic mattress production are pretty harsh for an application head. A lot of movement means significant stresses and strains for the application heads, which they have to withstand. That's why the Duero multi-bead application head is built to be robust and resilient. Proven, durable components make it reliable and low-maintenance.

Lengthwise and Crosswise with Just One Application Head

Do you want to apply adhesive beads to mattresses lengthwise and crosswise? Duero can do both. The jetting elements can be mounted on two sides of the application head and actuated job-specifically. So it is no problem to drive first crosswise and then lengthwise, and thus apply the adhesive for gluing the frame, for example. This means you are also ideally equipped for **just-in-time mattress production**.

Strong Adhesion for Frame and Mattress Core

The same application head you use for frame gluing can also be used to glue the mattress core. The Duero is designed for large flow rates and, with its multiple-bead application, ensures reliable adhesion to various textile materials.

An Application Head with Many Faces

Depending on the desired adhesive pattern, bead spacing, and adhesive volume, you select the multiple application heads that are suitable for your application. This is possible because the Duero offers several variants with different bead spacings and nozzle diameters.

What's special about it: One application head supplies up to 20 nozzles with liquid hot-melt adhesive via four jetting elements – definitely a cost saving compared to a number of application heads, which in turn are supplied via different hoses. Multiple-bead application is always beneficial where large areas require a lot of adhesive for strong adhesion.

Your Advantages

- Robust design withstands jerky movements
- Suitable for just-in-time mattress production
- Efficient frame gluing in the longitudinal and transverse direction with the same application head
- High-volume jetting elements for high-quality gluing
- Variants with different bead distances and nozzle diameters to suit your application



Duero: Variant with two jetting elements, mounted on one side



Duero: Variant with four jetting elements, mounted on two sides



Side padding gluing

TECHNICAL DATA

Operating temperature	20 to 200 °C
Adhesive pressure	max. 100 bar
Adhesive type	Thermoplastic hot-melt adhesives
Adhesive viscosity	500 to 7,500 mPas
Nozzles	M4 screw-in nozzles
Nozzle diameter	0.5 to 2.0 mm, others on request
Compressed air connection	5 to 6 bar, unoiled, cleaned acc. to ISO 8573-1 Class 4
Supply voltage	200 - 240 VAC, 50/60 Hz*
Attachment	12 mm shaft diameter or M5 thread
Sound pressure level	< 70 dB(A)
Degree of protection	IP42

* Power is supplied by the basic unit