

# Universal™ MiniBead Nozzles

Improve bond strength and product quality in hot melt adhesive applications.

## Universal MiniBead nozzles:

- Produce uniform fine-line bead patterns
- Provide high bond strength at low add-on rates
- Deliver leak-free operation



Universal MiniBead nozzles produce fine-line hot melt adhesive beads and comprehensive coverage for strong bonds in continuous and intermittent operations. Controlled deposition at low add-on rates provides uniform patterns with tight edge control to improve quality in product assembly, nonwovens and specialty packaging applications.

Bead inserts dispense a series of linear adhesive patterns. A range of insert orifice sizes accommodates different flow rates and viscosities. To meet specific bonding requirements and minimize adhesive usage, sizes can be mixed and matched for the best combination of flow in center and outer nozzle edges.

Full and partial-width nozzles provide the flexibility to tailor coverage. Non-handed partial-width nozzles orient left or right, reducing inventory demands.

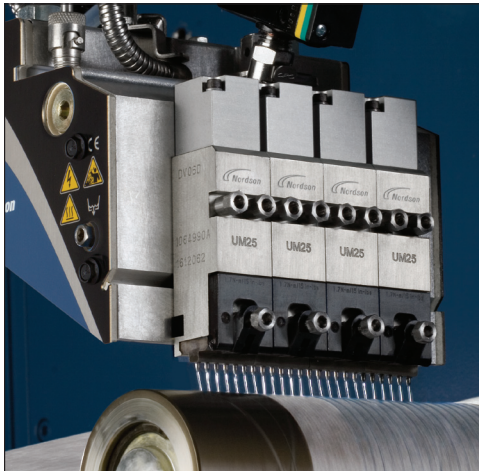
Nozzles are compatible with Universal series modules. These include UM22 and UM25 modules for less demanding intermittent operations, Speed-Coat® module for high-speed intermittent lines, UM50 module for continuous operations, high-speed electrically actuated E400U module, and UM3 module for metering applications.

A serviceable, surface-mounted elastomeric o-ring prevents leaks. The patented Universal module screw applies uniform nozzle clamping for a positive hydraulic seal and thorough heating. Nozzles are easily cleaned and withstand repeated handling. Common Universal parts minimize inventory costs and simplify service.

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## Specifications

Module Compatibility	All Universal modules
Bead Insert Orifice Sizes	0.30, 0.36, 0.41, 0.46, 0.53, 0.76 mm (0.012, 0.014, 0.016, 0.018, 0.021, 0.030 in.)
Minimum Bead Insert Spacing	3 mm center to center 1.5 mm center to outer nozzle edge
Nozzle Widths	22 and 25 mm
Adhesive Viscosity	1,000 to 15,000 centipoise
Operating Temperature	70° to 205° C (160° to 400° F)
Maximum Hydraulic Flow	100 grams per minute per nozzle at 10,000 centipoise
Adhesive Flow	2.5 to 25 grams per minute per orifice
Working Hydraulic Pressure	13.8 to 55.2 bar (200 to 800 psi)
Maximum Hydraulic Pressure	89.6 bar (1300 psi)



Mix and match bead inserts to meet required pattern compression and bond strength.



The UM50 module for continuous operations accepts two MiniBead nozzles in full or partial widths for pattern versatility.



Nozzles detach easily without removing modules.



Nozzle inserts are quickly installed or removed with a convenient tool.

**For more information, speak with your Nordson representative or contact your Nordson regional office.**

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