# The Freedom™ System Integrated Hot Melt Packaging Solution

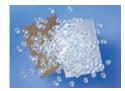




# The Packaging System that Pays You Back

### Freedom from ...





Henke

- Henkel Technomelt® Freedom-certified adhesives are less affected by raw material supply issues
- Optimized formulations minimize the dependence on critical raw materials
- Based on an innovative polymer platform
- High performance adhesives designed to optimize Freedom solution performance



#### ... Manual Adhesive Filling

- Uninterrupted production
- Adhesive pellets shaped to promote efficient transfer from fill system to melter, without agglomeration or clogging
- Closed system keeps out dirt, dust and debris
- Minimizes exposure to molten adhesive
- Prevents bending and lifting injuries associated with manual filling
- Reduces operator involvement and labor costs



## ... Confusing Controls and Diagnostics

- Minimizes troubleshooting and downtime
- Component I.D. functionality provides part and serial numbers and installation dates
- Displays diagnostics, alerts and fault messages in simple text
- Reduces need for training and skilled operators
- Intuitive, touch-screen interface
- Choice of languages





- Superior adhesive temperature stability means less char
- Tankless melting further minimizes/eliminates adhesive degradation and char
- Prevents clogged filters, applicators and nozzles associated with conventional tanks
- Minimizes time-consuming maintenance and lost production
- Self-cleaning MiniBlue® II SureBead® applicators dissipate nozzle debris



## ... Parent Machine Mounting and Integration Limitations



- footprint and mountingAttaches almost anywhere with
- standard mounting bracket

  Controls can be placed at eye lev
- Controls can be placed at eye level with fixed or moveable mounting stands
- Allows conventional bench-top mounting on flat surfaces
- Eases hose routing with smaller diameter, energy saving hoses





- Melts only the adhesive you need
- Saves adhesive from spilling and overfilling
- Excellent tack and bond strength lets you use one adhesive for multiple applications and packaging substrates
- Superior bonding reduces consumption and waste
- Eliminates traditional system flushing
- Intermittent bead dispensing capability enables significant adhesive use reduction

## The Freedom Equipment



### Additional Features

- Eliminating melter tanks reduces energy use by up to 50%
- Increases productivity melts and delivers Freedom-certified adhesives in up to 70% less time
- Energy-saving smaller diameter hoses
- Integrated hose mounts prolong hose life by eliminating sharp bends and compression
- Freedom MiniBlue II pneumatic applicators provide industry-best service life
- Freedom applicators' insulated covers reduce energy use up to 38%
- Unique chemistries reduce adhesive use and waste

#### A range of Technomelt® Freedom-Certified Adhesives

#### Designed to work hand and hand with Freedom equipment

Freedom-certified adhesives including:	Application	Viscosity (Brookfield)	Open time	Optimal processing temperature
The "Cool" Solution	Low application temperature	930 cps @ 275F 625 cps @ 300F	Medium	275F – 300F
The "Next Generation" Solution	Multi-purpose, high heat resistance, new hot melt generation	1,470 cps @ 325F 1,030 cps @ 350F 750 cps @ 375F	Long	325F – 375F
The "All arounder" Solution	Multi-purpose, high heat resistance	1,185 cps @ 325F 820 cps @ 350F 595 cps @ 375F	Long	325F – 350F

#### Freedom-Certified Adhesives Benefits



- Excellent Bond Strength
- ✓ Improved Efficiency
- High Bonding Quality
- High Thermal Stability
- ✓ Excellent Flow Behavior
- Sustainable Adhesive Solution

# Experience the Freedom System now!

Please contact your Nordson or Henkel representative to calculate your system payback. Get to know how the Freedom System can improve your packaging operation and how to achieve competitive advantage.



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