# Mayer ProHose U-Series Heated Hoses

Industrial electrically heated hot melt transfer hoses engineered for 100% mechanical, thermal, and electrical compatibility with UES hot melt bulk melters and automatic applicators.

UES 100% Compatible | 230V AC | Ni120 RTD | 160 BAR | 200°C / 250°C | 9/16-18 UNF

| VOLTAGE | TEMP SENSOR | MAX TEMP | WORK PRESSURE | FITTING SPEC | PROTECTION |
|---|---|---|---|---|---|
| 230 V AC | Ni120 RTD | 200 °C | 160 bar | 9/16-18 UNF | IP54 / IP65 |
| 50/60 Hz | ±0.5°C Linear | UHP3: 250 °C | Burst: 640 bar | JIC 37° Swivel | CE & Hi-Pot |

## HOSE ENGINEERING CONSTRUCTION & LAYER ANATOMY

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| **1. İç Akış Çekirdeği (Core)** | Smooth-bore, chemically inert virgin PTFE core. Eliminates adhesive charring and ensures laminar flow for PUR, EVA, and PSA. |
| **2. Basınç Takviye Örgüsü (Braid)** | High-tensile AISI 304 stainless steel wire braid. Ensures zero volumetric expansion and maximum burst protection under dynamic pulsing. |
| **3. Spiral Isıtma Rezistansı (Heating)** | PTFE-insulated nickel-chrome spiral heating element. Delivers uniform heat flux with ±2°C accuracy preventing cold spots along the line. |
| **4. Çok Katmanlı Termal İzolasyon** | Multi-layer aramid fleece and siliconized fiberglass thermal barrier. Maximizes energy retention and keeps outer sheath safe to touch. |
| **5. Dış Koruma & Uç Başlıkları** | Abrasion-resistant PA braided sleeve or impact-absorbing PUR corrugated conduit with heavy-duty elastomer strain-relief end caps. |

## TECHNICAL SPECIFICATIONS & OPERATING LIMITS

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| **Compatible Systems** | UES hot melt melters, automated applicator heads, modules, and manual handguns |
| **Internal Diameter** | DN8 (5/16" - 8 mm nominal flow channel) |
| **Electrical Connector** | UES standard heavy-duty industrial multi-pin locking connector |
| **Min. Bend Radius** | 90 mm (high flexibility for reciprocating and automated packaging lines) |
| **Heating Power** | Approx. 160 W per meter (uniform helical winding, zero cold spots) |
| **Dielectric Hi-Pot Test** | 2200 V AC Factory dielectric safety certified (Element to Ground) |

## UES COMPATIBLE AUTOMATIC HEATED HOSES – ORDERING & PART NUMBER LIST

| Length | Inner Dia. | Voltage / Sensor | Fittings | UES Part No (P/N) | Mayer Part Number |
|---|---|---|---|---|---|
| **0.60 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100260 | **MY-US-100260** |
| **1.20 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100261 | **MY-US-100261** |
| **1.80 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100262 | **MY-US-100262** |
| **2.40 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100263 | **MY-US-100263** |
| **3.00 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100264 | **MY-US-100264** |
| **3.60 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100265 | **MY-US-100265** |
| **4.80 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100266 | **MY-US-100266** |
| **6.00 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100600 | **MY-US-100600** |
| **7.20 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100267 | **MY-US-100267** |
| **9.00 m** | DN8 (5/16") | 230V / Ni120 | 9/16-18 UNF | 100268 | **MY-US-100268** |

## OPERATIONAL, MECHANICAL INSTALLATION & SAFETY GUIDELINES

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| **• Kıvrılma Yarıçapı (Rmin)** | The hose must never be bent sharper than the rated minimum bend radius. Over-bending causes irreversible kinking of the PTFE core. |
| **• Torsiyon Önleme** | Torsion is strictly prohibited. Always use a counter-wrench on the hex fitting during tightening to prevent internal core twist. |
| **• Askı & Balanser Desteği** | In robotic and moving installations, support hoses with articulated energy chains, spring balancers, or protective saddles. |
| **• Elektrik & Termal Güvenlik** | Disconnect electrical power before connecting plugs. Verify protective earth (PE) continuity. Gradual heating ramp-up is recommended. |