# Mayer ProHose B-Series Heated Hoses

High performance electrically heated hot melt hoses fully compatible with Bühnen tank units, automatic applicators, and manual guns with precision PT100 sensors.

**Bühnen 100% Compatible** | **230V AC** | **PT100 RTD** | **DN8 & DN13** | **80-160 BAR** | **200°C / 250°C**

| VOLTAGE | TEMP SENSOR | OPERATING TEMP | WORKING PRESSURE | NOMINAL BORES | PLUG CONNECTOR |
|---|---|---|---|---|---|
| **230 V AC** | **PT100 RTD** | **200 °C** | **80 – 160 bar** | **DN8 & DN13** | **Bühnen Standard** |
| 50/60 Hz | Platinum RTD | UHP3: 250 °C | UHP3: 280 bar | DN6–DN25 Ops. | IP54 Rated |

## 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. |

## BÜHNEN COMPATIBLE DN8 (5/16") & DN13 (1/2") HEATED HOSE PART LIST

### DN8 Standard Series (160 bar / 200°C)

| Length | Bühnen P/N | Mayer Part Number |
|---|---|---|
| **1.2 m** | BHN-081200 | **MY-BHN-081200** |
| **1.5 m** | BHN-081500 | **MY-BHN-081500** |
| **1.8 m** | BHN-081800 | **MY-BHN-081800** |
| **2.4 m** | BHN-082400 | **MY-BHN-082400** |
| **3.0 m** | BHN-083000 | **MY-BHN-083000** |
| **4.5 m** | BHN-084500 | **MY-BHN-084500** |
| **6.0 m** | BHN-086000 | **MY-BHN-086000** |
| **7.0 m** | BHN-087000 | **MY-BHN-087000** |

### DN13 High-Flow Series (110 bar / 200°C)

| Length | Bühnen P/N | Mayer Part Number |
|---|---|---|
| **1.2 m** | BHN-131200 | **MY-BHN-131200** |
| **1.5 m** | BHN-131500 | **MY-BHN-131500** |
| **1.8 m** | BHN-131800 | **MY-BHN-131800** |
| **2.4 m** | BHN-132400 | **MY-BHN-132400** |
| **3.0 m** | BHN-133000 | **MY-BHN-133000** |
| **4.5 m** | BHN-134500 | **MY-BHN-134500** |
| **6.0 m** | BHN-136000 | **MY-BHN-136000** |
| **7.0 m** | BHN-137000 | **MY-BHN-137000** |

## 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. |