

The P-80 plasma cutting torch nozzle is a core consumable part designed for air plasma cutting machines operating between 80A and 100A. The specific reference to H7 typically designates either a high-grade manufacturing tolerance standard or a vendor-specific part series ensuring a tight, high-precision fit into the torch head.

Key Specifications & Features

- **Operating Current:** Optimized for heavy-duty **80A to 100A** cutting cycles. [[1](#), [2](#)]
- **Material Composition:** Built using premium **red copper** for high thermal conductivity, often featuring a hafnium or zirconium wire embedded inside the matching electrode. [[1](#), [2](#), [3](#)]
- **Cutting Performance:** Provides narrow slits, a smooth incision profile, and minimal thermal deformation on sheets up to **40mm thick**. [[1](#), [2](#)]
- **Common Orifice Sizes:** Available in different tip diameters depending on your target metal thickness:
 - **1.1mm / 1.3mm:** Best suited for lower-amperage, fine, precision cuts on thinner metal.
 - **1.5mm / 1.7mm:** Engineered fo