BAND-IT®

ENGINEERED FASTENING SOLUTIONS

SOLUTIONS FOR CDUS & IN-RACK MANIFOLD ASSEMBLIES

BAND-IT's Solutions for Data Center Thermal Management

When fabricating in-rack or CDU hose assemblies used in high-flow and distribution lines, the choice for your fastening method should ensure protection against the most common failures; leak paths, loosening over time, and serviceability constraints. These issues directly impact uptime, pressure stability, and long-term durability.



While traditional clamping methods like pinch ear clamps, worm gear clamps, and crimped ferrules are familiar, widely available and somewhat reliable, they have their downfalls.

- Pinch Ear: Uneven compression, tough to rework, bulky, creates snag risks.
- Worm Gear: Inconsistent installs and protruding hardware that can interfere in tight racks.
- Crimped Ferrules: Require specialized tools and offer low flexibility for in-house maintenance.

BAND-IT's Junior® Smooth ID Clamp avoids all these risks in dense, vibration-sensitive liquid cooling environments. Low profile, repeatable installation, and leak resistance are key characteristics needed in liquid cooling.

BAND-IT Junior® Smooth ID Clamps provide:

- A smooth interior that minimizes leak paths (ideal for thin- wall hoses)
- Excellent vibration resistance
- Repeatable, tool-controlled installations
- No bulky hardware or snag-prone prone features



BAND-IT also offers hydrostatic test-based clamp performance data to guide consistent, validated selection.

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INSTALLATION TOOLS FOR LIQUID COOLING LINES

High-Efficiency OEM Production with the IT5000 Pneumatic Tool

For high-volume OEM manufacturing environments, BAND-IT's IT5000 delivers fast, repeatable, and precision-controlled 3/8" BAND-IT Junior® Smooth ID Clamp installations.



The IT5000 Provides:

- Simple, consistent tensioning for secure sealing of coolant lines.
- High-throughput cycle times ideal for high volumes.
- Ergonomic design for ease of use by hand, pair with a tool balancer for reduced physical burden.

This ensures each clamp installed on a liquid-cooling system meets exacting OEM reliability and performance standards.

Easy On-Site Installation with the Pok-It II Tool

For field installations or service work, the Pok-It II offers a compact, lightweight, and highly reliable hand tool for installing 1/4"-3/8" BAND-IT Junior® Smooth ID Clamps.



The Pok-It II Provides:

- Simple, ergonomic operation for quick tightening and cutoff.
- Same secure connections that withstand vibration, temperature swings, and coolant exposure.
- Portability for technicians working in confined or distributed installation environments.

This makes the Pok-It II the preferred tool for technicians performing small-hose fabrication on-site, routing, or integrating cooling lines in CDUs and racks.



In the end, if uptime, reliability and service-ready performance matter, BAND IT delivers fastening solutions engineered to meet the demands of modern liquid cooled data center environments making it the clear choice for CDU and in-rack system designers who refuse to compromise.

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