

ADHESIVE ASSEMBLY SOLUTIONS MATTER

While the latest advances in robotics and automation dominate industry discussions, the success of any machine build still depends on the integrity of its assembled components, as Paul Nelson, Sales & Marketing Director at Bondloc UK, explains here.

Machine builders are under pressure to deliver equipment that is stronger, more efficient and more reliable. Whether designing automated production lines, packaging equipment, material handling systems, pumps, valves, motors, or industrial machinery, engineers must balance performance, durability and ease of maintenance.

At the same time, equipment is becoming more compact, lighter, more automated and more energy efficient, while end users demand longer service life and reduced downtime. These challenges are driving manufacturers to look beyond traditional design approaches and consider how assembly methods contribute to overall machine reliability.

While advances in controls, robotics and automation often dominate industry discussions, the success of any machine still depends on the integrity of its assembled components. Every fastener, bearing, shaft and sealing surface represents a potential point of failure if not properly secured during assembly.

Vibration remains one of the most common causes of mechanical issues in industrial equipment. Over time, repeated movement can loosen threaded fasteners, leading to misalignment, increased maintenance costs, unplanned downtime, and, in some cases, equipment failure. Preventing these issues is a critical part of improving productivity and reducing lifecycle costs.

Today, many manufacturers view threadlocking, retaining, sealing and bonding technologies as front-line engineering tools rather than simply maintenance products. By helping secure assemblies and protect critical components, these solutions play an important role in improving machine performance and longevity.

The growing adoption of predictive maintenance and condition monitoring has reinforced this need. Advanced sensors can identify potential problems, but they cannot prevent failures caused by loose fasteners, corrosion, shifting bearings, or leaking flanges. Reliability begins with the physical assembly itself.

As machinery becomes more sophisticated, engineers are increasingly looking for suppliers who can do more than provide products. They need partners that can help solve assembly challenges, recommend the right technologies for specific applications, and who will support



Bondloc Threadlocker Application

evolving machine designs with proven solutions that improve reliability and performance.

For example, machine builders frequently use threadlockers to help prevent vibration-related loosening in motors, drives, gearboxes, pumps and conveyor systems. Retaining compounds are commonly applied to bearings, bushes and cylindrical assemblies where precise fit and long-term stability are critical.

Bondloc's range of UK produced threadlockers, retaining compounds, gasket sealants, RTV sealants are designed to support these assembly challenges, helping manufacturers improve reliability, reduce maintenance requirements, and protect critical equipment throughout its service life.

As machine designs evolve to meet new demands, innovative bonding, sealing, retaining and threadlocking technologies will remain an essential part of building the next generation of industrial equipment.

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