

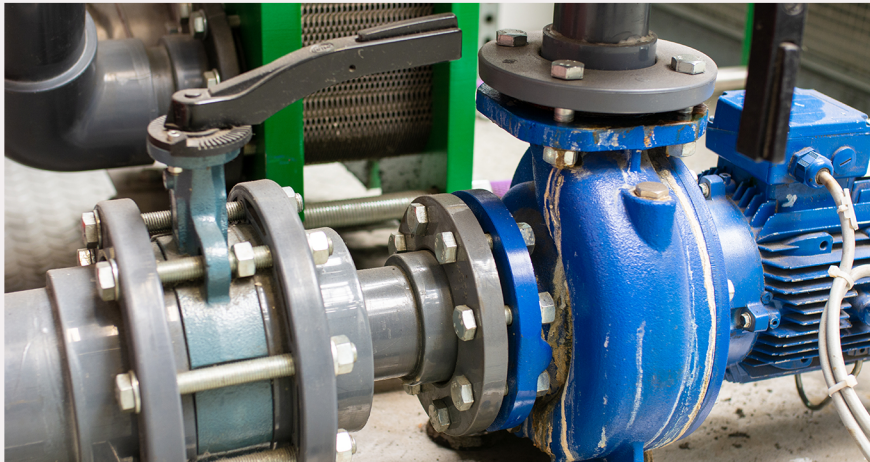
LOCTITE[®]

PUMP MANUFACTURER INCREASES STRENGTH OF CYLINDRICAL ASSEMBLY USING LOCTITE[®] RETAINING COMPOUNDS

LOCTITE[®] 638[™] RETAINING COMPOUND



Henkel Adhesive Technologies



Customer Challenge

A submersible pump manufacturer in India had a problem with insufficient strength using a competitive retaining product to hold the rotor of an electric motor onto the shaft. A retaining compound was needed to secure the rotor and reduce process steps.

Henkel Solution

A LOCTITE[®] expert came in and recommended LOCTITE[®] 638[™]. After cleaning the parts, the manufacturer applies LOCTITE[®] 638[™] to the inside of the rotor. Another bead of material is applied to the shaft in a spiral pattern that is spread evenly over the shaft by hand. The rotor is then aligned over the shaft and a hydraulic press is used to facilitate the assembly. The strength of the LOCTITE[®] 638[™] final assembly eliminates the need for welding the rotor to the shaft.

Results

LOCTITE[®] 638[™] eliminated two process steps to shorten assembly times. LOCTITE[®] cures quickly without heat and has 4 times the shear strength of welding, eliminating a production step. Overall pump performance quality is dramatically increased while assembly costs are reduced.

