

Application: Preparation for Composite and Alloy Bonding

Description: Blasting parts with abrasive slurry in the *Wet Tech Process*. This creates a clean, even etched finish with no media embedded in the surface. Wet Technologies leads the way in developing wet slurry systems used to prepare composites for bonding. High quality anchoring patterns are achieved using the Wet Tech Process. Different composites exhibit special requirements based on weaves, resins, hardness, and matching surfaces. Wet Technologies has developed processes and equipment for high demand composite bonding applications with customers such as **Bell Helicopter, The Boeing Company, The National Institute for Aviation Research, Spirit, Sikorsky Helicopter**, and others in the industry.

Advantages:

- **Quality** of the finish can be strictly controlled
- **Even and repeatable surface etching** with depths and patterns to match the material.
- No water absorption
- Bond strengths can be drastically increased compared to dry blast, peel ply, and chemical techniques.
- In addition, bonds between composites and metals such as aluminum and specialty alloys are maximized using the same approach.
- The water/abrasive mixture cushions the process and **Eliminates Embedded Abrasive**.
- The **Wet Tech Process** is **Dust Free**- equipment can be installed in a clean environment.
- **Blast, Rinse, and Dry** surfaces in **One System**, ready for bonding and autoclave.
- The **Wet Tech Process** is **Closed Loop**, nothing goes down the drain!



Bond Prep Equipment: All stainless construction, Batch Loaded, In-Line, Manual and Semi-Automated, depending on production rates and budget. We can perform part testing in our lab, or through our local distributor. See machines and more information at our website below. **Video footage of this application is also available!**

High Volume Liquid Abrasive and High Pressure Water Surface Finishing Systems