

**APPLICATION NEWS- Proven applications for the Wet Tech process**  
Bulletin 804A

## Parts: Medical Implants – Profiling and Blending

**Description:** Medical implants require special profiles that are consistent for mating with bone re-growth. Dust and surface cleanliness along with imbedded dry abrasive in the manufacturing environment are traditional hurdles.

### Application A. Creating a rough, high Ra profile

The Wet Tech high volume slurry process uses a high concentration mixture of water and coarse abrasive delivered from a single manual or a series of nozzles flow over the desired masked portion of the part.



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### Application B. Matting for cosmetic appearance

Utilizing round or angular media, a matt finish with a low Ra profile can be achieved. This is also used for surgical tools



### Application C. Deburr and Lap

The first pass over the part uses high assisted air pressure to accelerate the slurry. This method can wear or knock off the burr. In the next pass, the pressure is reduced, allowing the slurry to buff, lap, or smooth the just deburred finish.



### Advantages:

- **Quality** of the finish can be strictly controlled
- 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.
- Capabilities to **Blast, Rinse,** and even **Dry** parts in **One System**
- The **Wet Tech Process** is **Closed Loop, nothing goes down the drain!**

**REPLACES Dry Blast** or **hand deburring** along with **Vibratory Finishing Equipment**, while able to get into tight corners and through holes.

**Savings:** Multiple steps and handling. Wet Technologies equipment can be placed near sensitive machining centers, thereby providing options for plant layout and work flow.

## High Volume Liquid Abrasive and High Pressure Water Surface Finishing Systems