

Union Process Builds DMQX-Mill With Feeder System and Automated PLC Controls

Written by Australian Business

AKRON, OH, September 13, 2013 **/24-7PressRelease/** -- Union Process, Inc., known globally as a manufacturer of particle size reduction and dispersing equipment as well as related services for a broad range of research and industrial applications, has manufactured and delivered a complete PLC-controlled milling system for processing silicon.

The DMQX-10 milling system initiates the process cycle by delivering liquid to the premix tank. Dry powder is then delivered via vacuum transfer and metered into the tank using a volumetric feeder.

The raw materials formulation is monitored using load cells mounted beneath the pre-mix tank. The process cycle is then started, and the material is milled to specification.

Once the milling step is complete, the slurry is automatically pumped to a dryer where the material is dried and the liquid is recovered and recycled for the next process cycle.

The entire process is controlled by an integrated PLC with user friendly touch screen interface. The DMQX-10 particle size reduction equipment provides consistent and efficient sub-micron grinding with minimal operator intervention.

The DMQX-10 Mill is configured for metal-free grinding featuring a removable zirconium oxide grinding chamber and specially designed agitator disks. The DMQX-10 is driven by an explosion-proof 20 HP motor and variable frequency drive.

[Union Process](#) is the inventor and developer of Attritor technology and manufactures a wide range of particle size reduction equipment, including wet and dry grinding mills as well as the DMQX Bead Milling System.

Attritor is a registered trademark of Union Process, Inc.