

**For Immediate Release**

**Contact:**

Mrs. Christy Lincoln

United Grinding Technologies

937/847-1253

Robin Bergstrom

859/689-9551

**United Grinding Announces Kickoff of CAREview™ Equipment Monitoring**

MIAMISBURG, OH — United Grinding Technologies (UGT) announces the launch of CAREview™ Version 1.0, a revolutionary means of equipment and production monitoring. The hope is to have as many as 12 beta sites using the system by year end, 2011. Version 1.0 is focused on monitoring and alerts for the customer and for UGT. The controls for Version 1.0 include Fanuc 0i and Fanuc 31i, which cover Studer, Walter, Blohm and Mägerle machines.

**How it works**

“Cloud computing” is described as on-demand access to virtualized IT resources that are housed outside of your own data center. Cloud computing has many advantages, with no longer needing to purchase servers and storage certainly not the least of which. The cloud is even becoming a disaster recovery strategy for many companies. How it works in the case of CAREview™ is data gets sent from customer machines that are hooked up to the cloud, in turn providing real-time analytics, proactively driving predictive and preventive service, and dramatically decreasing downtime costs and emergency repairs to the equipment. CAREview™ also features mobile capabilities, resulting in on-demand visibility from anywhere, anytime with a web enabled device.

“We have a software interface in the machine control that reads addresses that we (UGT) program,” explains Joseph Szenay, Assistant General Manager, United Grinding Customer Care. “These addresses are then sent out to the cloud (actually a huge data farm that’s very much on terra firma). The data farm has an IP address that we assign per machine, per customer. The customer can then log in with

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any Internet connection using the IP address, and the Dashboard View of his machine will automatically appear via the Internet.”

The Dashboard view shows the customer the real-time activity of his machine: Is it running? Is it in E-stop? Is it idle? Is it making parts? The Dashboard View gives the customer a live snapshot of what his machine is doing. Then should he wish, he can drill down and check a “tagged” component to see when and if things might have changed. For example, the customer may see that he’s only made 454 parts instead the programmed 500 parts. Why the difference? It’s possible with CAREview™ to drill down and see that the operator on third shift, based on the time stamp, turned the feed rate override down 50 percent for an hour.

“We set the “tags” on the machine which are part of the Input/Output of the machine,” says Szenay. “We have a wide range of tags that we can monitor, and the customer can decide which ones he wants to see.”

### **Benefits**

On Version 1.0, a customer will have the Dashboard View. He’ll be able to see if his machine is running or if it’s idle. If it’s running parts, he’ll be able to see how many parts it’s run, even how many times the doors open and close. The Production View is for manufacturing engineers (MEs) that run a line of machines. The ME doesn’t have to go out on the shop floor to get machine information; he can be on vacation and pull this up on his iPad and say, “Okay, today they ran 400 parts, and I’ve had ‘x’ amount of idle time.” CAREview™ is set up so that he can customize the Production Reports so he sees only what he wants to see. He can see if the machine is running or not, and nothing more — if that’s what he wants. He can see a graphed chart of the last 24 hours to check how long the machine sat in E-stop, how much it sat idle and how many hours it actually ran. It is specifically tailored for each customer depending on what they want to see.

“We can do customized reports for customers, so they can take any production activity and export into Excel or other forms of output,” Szenay says. “The types of reports they can receive is almost limitless — anything we can see, we can write a report on — for the last year, the last month, the last hour.

“ Generally, the ME is interested in production information. He doesn’t need to see what a grinding spindle, axis motor temperature, or amperage draw is. All he wants to know is how close he is to the ‘x’ number of parts he needs from this shift and next. Maintenance people want to see trending over time of these other data points, and CAREview™ can make a complete back up of the control every five minutes, if that’s the customer wants. If the company had a power outage, we’ve got a backup of up to

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five minutes before the power went out. They can then pull that data down and reload the machine and be back running in 20 minutes.”

Another area of application is in power consumption reports. “Our customers on their RFQs are asking questions about power consumption,” says Szenay. The release of Version 2.0 later in the third or fourth quarter of 2011 will address the servo motors, drives and grinding spindles for this purpose. We can show them which machine components are drawing more than others. We can look at a spindle motor that started out drawing 10 amps and now all of sudden it’s drawing 15 amps. What’s going on? Real analytics, trending over time and proactive or predictive maintenance will become possible with CAREview™.”

### **Is Cloud Computing safe?**

UGT in Miamisburg is the controlling “hub” for all this data activity, and as such they basically decide who can get on the system and who cannot get access.

“The fact is,” says Szenay, “the data that we actually send out at 128 bit encryption is zeros and ones. Nobody would be able to know what those zeros and ones mean. When the zeros and ones hit the data farm, we convert them into what they actually mean. We only send *out* from the customer machine — we never go back in. We can’t go into the machine from the outside. It only sends out — as encrypted zeros and ones. Even if someone obtained access to the data farm, they still wouldn’t know what the data meant.”

End

For more information contact United Grinding at 937/847-1255 or visit [www.grinding.com](http://www.grinding.com).