

INDUSTRY NEWS



Smart Manufacturing Solutions from Caron Engineering!

Turpin Sales & Marketing is proud to announce the introduction of a new innovative company we are representing, Caron Engineering. They specialize in shop efficiency and smart manufacturing solutions.

At Caron Engineering, their mission is to transcend the industry standard by developing advanced sensor and monitoring technology to optimize performance, productivity, and profitability for the machine tool industry.

It is their goal to provide leading smart manufacturing solutions to reduce cycle times, promote unattended operation, drive down tooling costs, and minimize expensive damage to machines and work-holding. They are in the business of developing "Adaptive Solutions for the Future of Manufacturing".

Caron Engineering offers "Smart Manufacturing Solutions"

- Tool wear and breakage detection
- Automated tool wear compensation
- Adaptive control feed rate optimization
- Machine health and condition monitoring
- Tool management and process automation

TMAC – Tool Monitoring Adaptive Control



TMAC 3.0 is a real-time tool wear and breakage detection system. This new version has a browser-based user interface for remote access to live monitoring and system control from any network connected device.

- Optimized machine tool cutting
- Real-time Tool Wear Detection
- Reduce Cycle Time with Adaptive Control
- Remote System Access
- Multi-Channel Monitoring
- Sensors
- Signature Analysis
- Bearing Analysis
- Data Viewer and Event Log
- High Speed Data Processing

ToolConnect – Tool Data Management System



ToolConnect eliminates human error and reduces setup time by automating the transfer of tool presetter data to (and from) the CNC control. ToolConnect reads and processes RFID and 2D barcode data, and updates offsets automatically; no operator data-entry or interaction with the CNC control needed! Cont. on page 2.

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AutoComp – Error-Free Tool Offset Control

AutoComp, tool wear compensation software, processes electronic gauge data and automatically calculates and compensates tool offsets in the CNC control. AutoComp is a Windows based software application that eliminates human error by processing measurement data from almost any electronic gauging device.

AutoComp reads the part measurement file and automatically calculates and updates tool offsets in the CNC control. No manual data entry needed!



DTect-IT – Machine Condition Monitoring System

DTect-IT combines high precision sensor technology with advanced analysis capability to monitor, detect, and (depending on the application), correct anomalies occurring in the machining process. Using sensors for vibration, strain, high-precision power, and/or analog (connecting any sensor with a 0 to ± 10 VDC

signal), the user can monitor specific parameters to alarm and signal the NC when irregularities are present. All monitoring data is recorded and accessible in the historical viewer to analyze and trend monitored data over time.



Smart Light – Know what your machines are doing

Caron Engineering's (CEI) Smart Light System Controller and configuration software is compatible with all Fast Process Data (Balluff) Smart Lights. With easy to use, colorful screens, the user can preconfigure recipes for basic light outputs, or use direct set protocol for advanced control of the light stack to dynamically change the light.

Blum-Novotest – In-Process Measuring and Testing Technology

- Laser Measuring Systems
- Tool Setters
- Touch Probes
- DIGILOG Scanning Probes
- Bore Gauges
- Surface Roughness Gauges

Caron Engineering is an authorized distributor of Blum-Novotest products. Blum-Novotest provides measuring systems for automated tool setting along with spindle probe systems for workpiece setting and inspection applications in machine tools. These devices are integrated into your CNC machine for increased automation of job setup and monitoring of the manufacturing process.

Visit www.caroneng.com for more information.

Please contact Turpin Sales & Marketing with any questions or for more information.

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