

Remote Monitoring System

Chevalier's exclusive intelligent Machine Communications System™ (iMCS) is a comprehensive remote monitoring system that connects clients with Chevalier through international communications protocol (MTConnect / OPC UA / umati) to compile performance data, remote machine monitoring, alarm history, maintenance, data analysis and overall equipment effectiveness (OEE).

iMCS software is user friendly, IoT ready and specifically designed for an end-user's analytic needs. This level of monitoring fosters a greater understanding of production assessment that leads to streamlining and maintaining operations for greater efficiency and productivity.

Concept Map

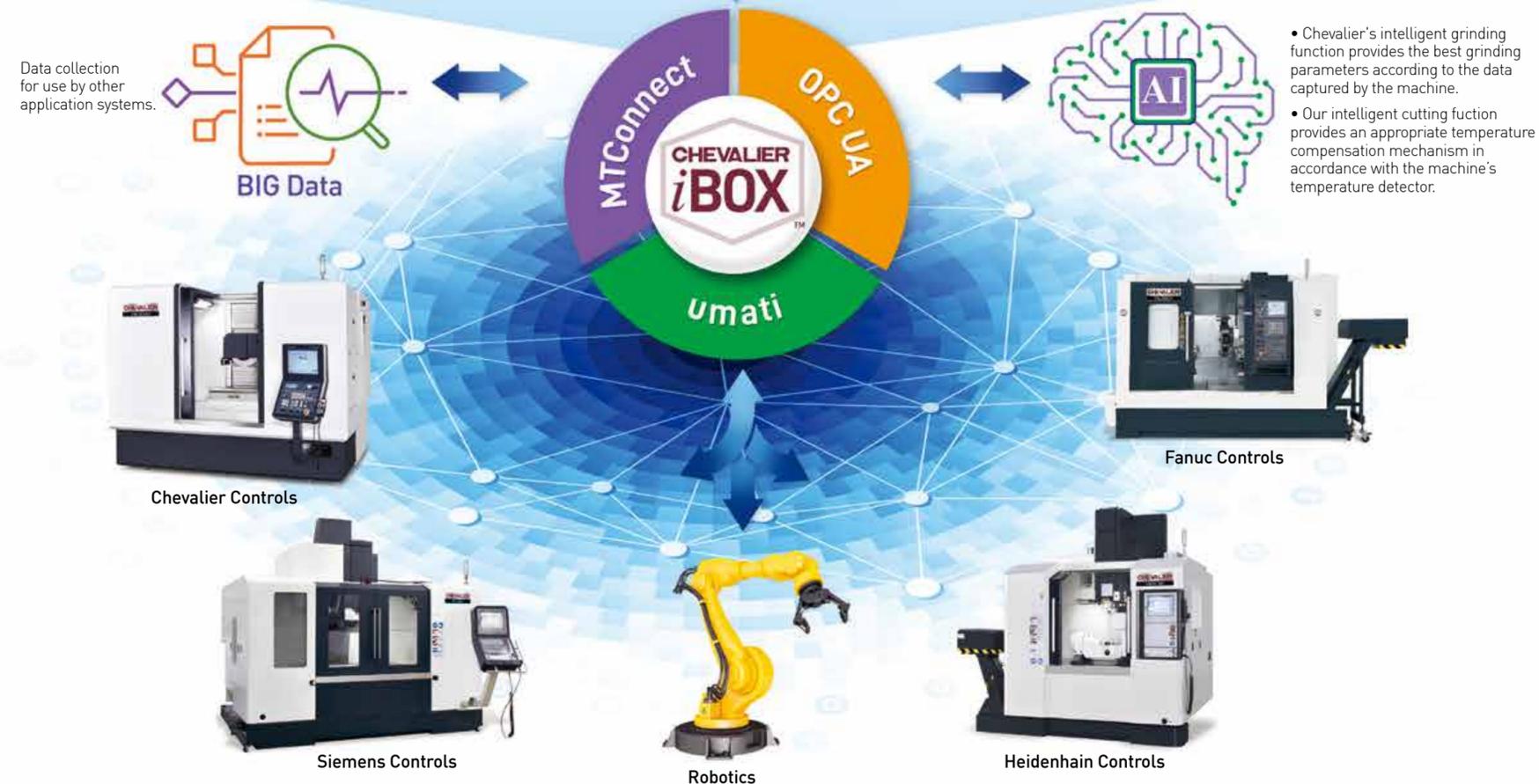
Application Platform

This application is for visualizing information, big data analytics and forecasting. Chevalier provides various application platforms for customers according to their needs: CiFactory by Chevalier, StateMonitor by Heidenhain, MT-LINKi by Fanuc, SkyMars by Chevalier and other compatible application platforms.



Data collection

To perform data collection and translation of information among these various communication protocols, Chevalier's iBOX™ integrates with IoT functions to connect machines through these protocols: MTConnect, OPC UA or umati regardless of the control — Chevalier, Fanuc, Siemens, Heidenhain, and other various controls.

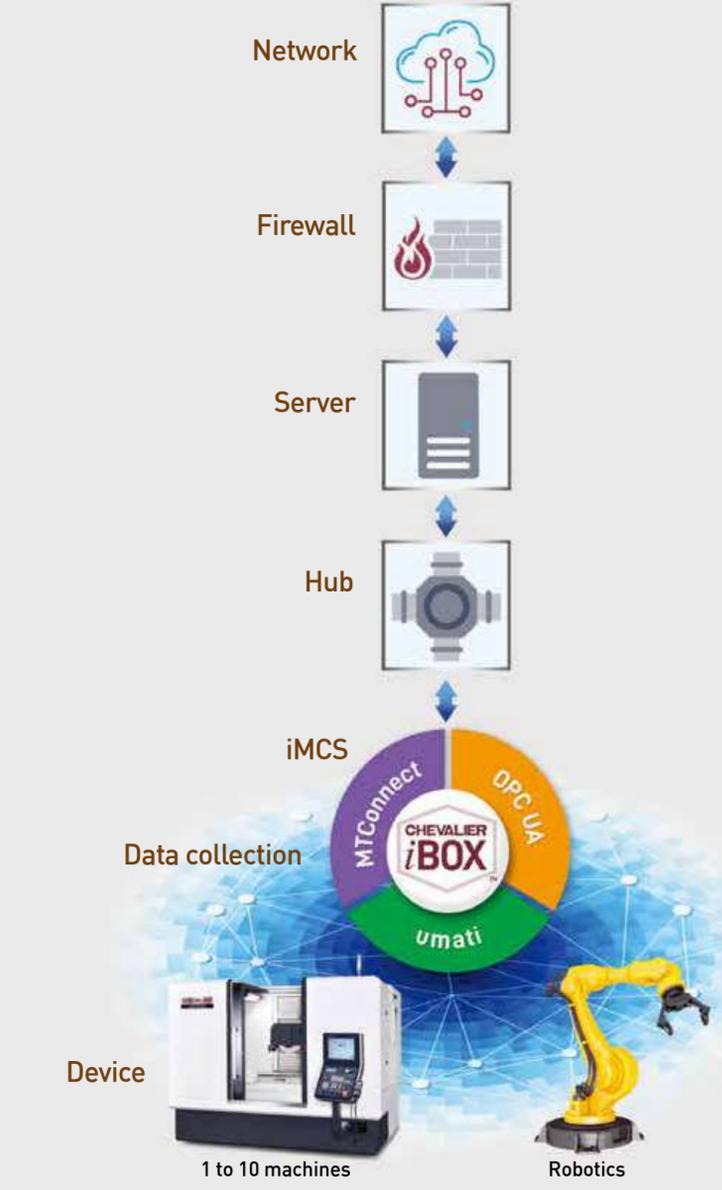


- Chevalier's intelligent grinding function provides the best grinding parameters according to the data captured by the machine.
- Our intelligent cutting function provides an appropriate temperature compensation mechanism in accordance with the machine's temperature detector.

iMCS Features and Benefits

- Machine status** - Monitoring of machine condition and real-time machine data
- Utilization** - Statistical analysis of all machine conditions
- Program transfer** - Transfer of files seamlessly between CNC controls and management center
- Diagnosis** - Assessment of machine system and components through on-line system diagnostics
- Maintenance** - Preprogrammed service and maintenance recommendations
- Production** - Real-time production management with data collection statistics

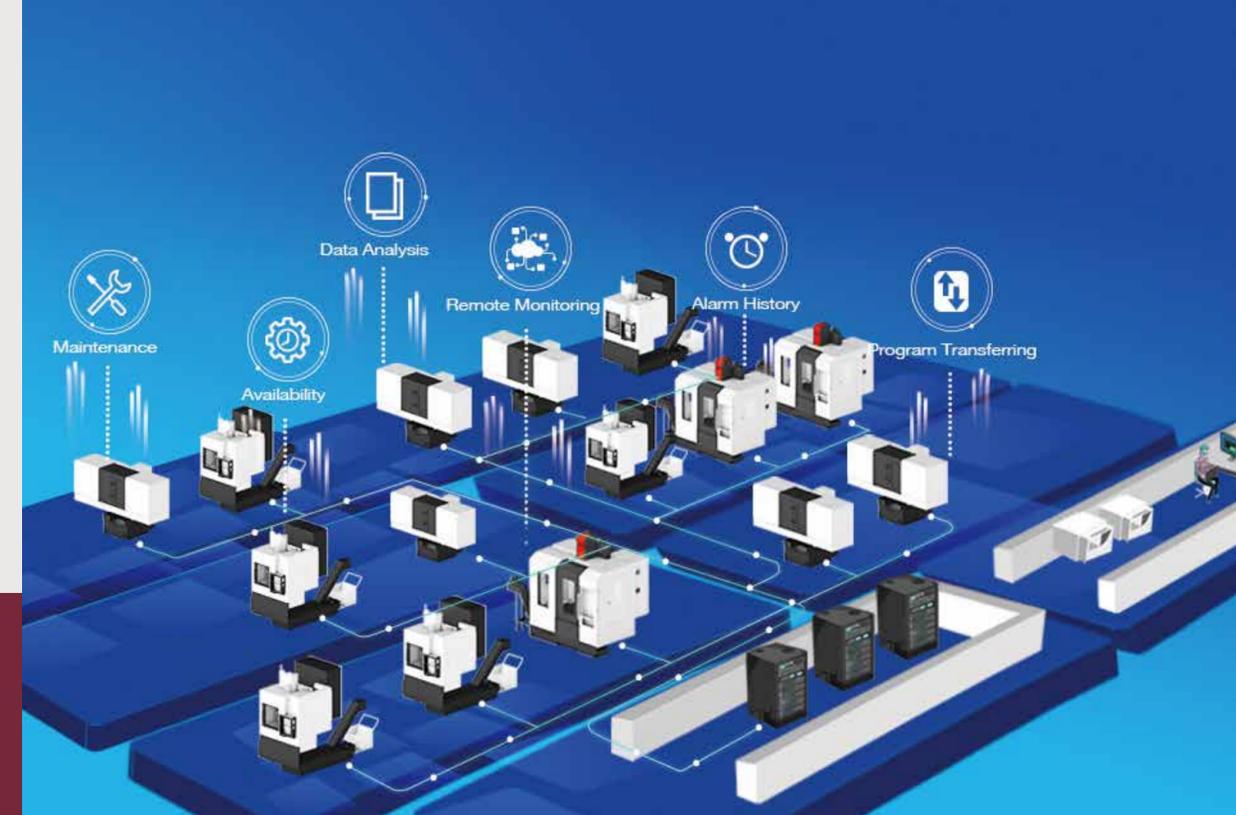
Hardware



Chevalier iBOX

The iBOX has the ability to connect to existing machinery in the factory. The general-purpose communication standards, such as MTConnect, OPC UA and umati protocols, are supported. Chevalier provides an open development environment in which production devices can be connected and converted into production data. A device layer includes machine, sensors, robots and other devices.

Connections	
iBOX	1-4
	1-7
	1-10



Grinding Machines

SMART Grinding Machines

Turning Machines

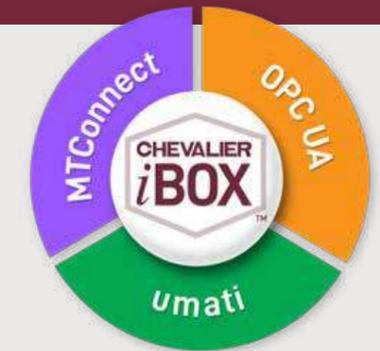
Milling Machines

A higher level of production assessment that leads to streamlining and maintaining operations



iMCS

Comprehensive CNC machine tool remote monitoring system



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We shape your ideas.™

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