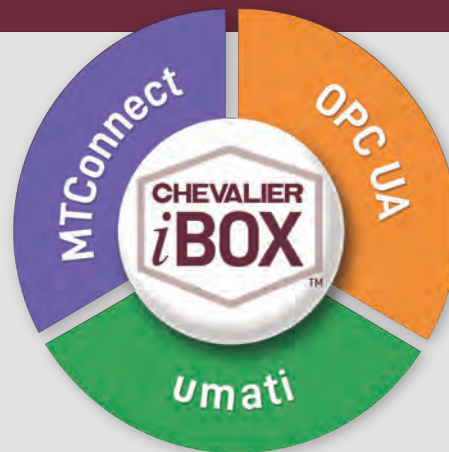


iMCS

iMachine Communications System



CHEVALIER[®]

Grinding / Turning / Milling

We shape your ideas.[™]

iMachine Communications System

Remote Monitoring System

Chevalier's exclusive iMCS is a comprehensive remote monitoring system that connects client's equipment and Chevalier machines through international communications protocol (MTCConnect / 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.



CiFactory - Chevalier



MT-LINKi -

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: MTCConnect, OPC UA or umati regardless of the control — Chevalier, Fanuc, Siemens, Heidenhain, and other various controls.

Device

All Chevalier machines function with iBOX connections. A machine's sensors send signals regarding temperature or vibration information directly to the iBOX for data collection. After data analysis, the message is transferred back to the machine's CNC control.

Data collection for use by other application systems.



Chevalier Controls



Siemens Controls

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



Fanuc

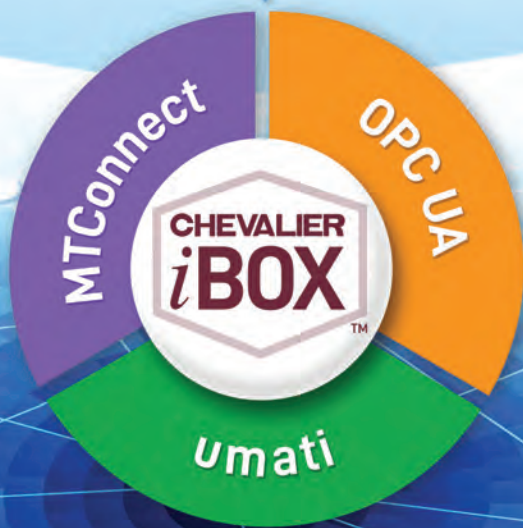


StateMonitor - Heidenhain



SkyMars - Chevalier

AND MORE



- 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.



Fanuc Controls

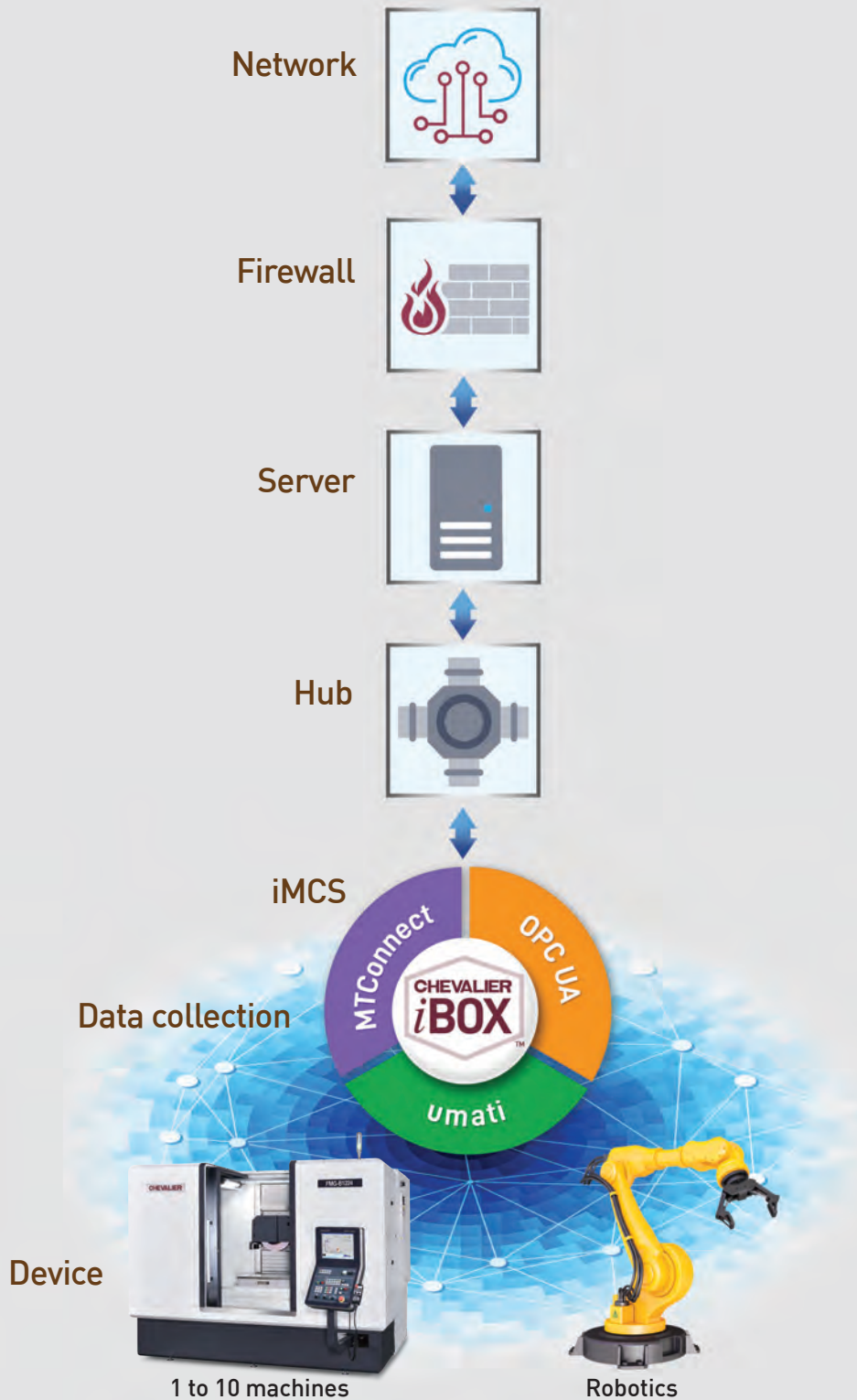


Robotics



Heidenhain Controls

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.

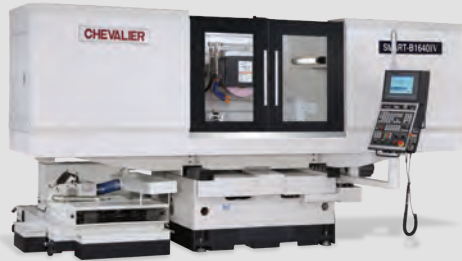
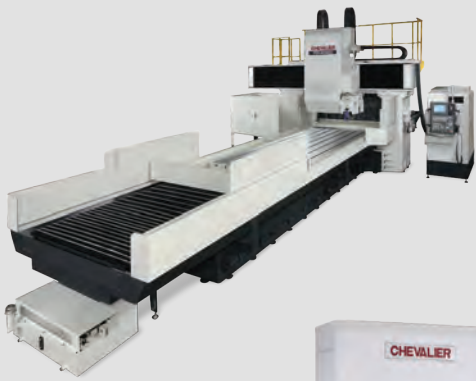


Connections	
	1~4
iBOX	1~7
	1~10



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





Grinding
Machines

SMART
Grinding Machines

Turning
Machines

Milling
Machines

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