

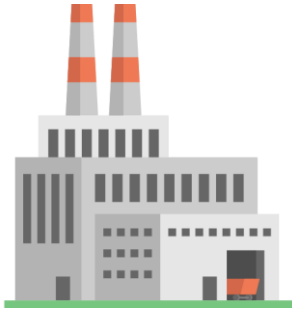


TECHNOLOGIES AND SOLUTIONS FOR

INDUSTRY 4.0



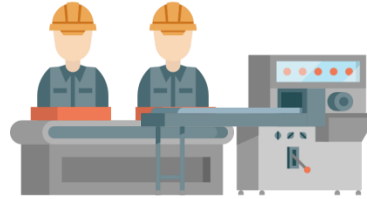
Industry 4.0



18th Century

Industry 1.0

Mechanical production.
Equipment powered by
steam and water.



19th Century

Industry 2.0

Mass production assembly
lines requiring labor and
electrical energy.



20th Century

Industry 3.0

Automated production
using electronics and IT.



Today

Industry 4.0

Intelligent production
incorporated with IoT,
cloud technology and big
data.

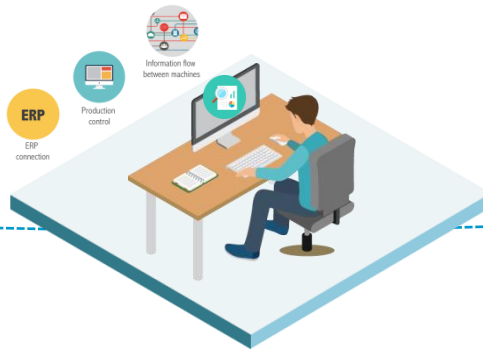
Prima Power Industry 4.0

Smart manufacturing at your fingertips



Intelligent machines & factories

Intelligent machines and automated factories collecting real-time and historical data through sensors and cameras



Smart software

Prima Power software is a comprehensive portfolio of modular software-based systems



Digital remote diagnostics & maintenance






Data-driven machine diagnostics and predictive maintenance services. Production performance analysis, monitoring of machines status and condition.



Smart Factory: Machine data-driven analytics

Prima Power machines are equipped with sensors and cameras continuously collecting data for improvements of production performance. Machine data is collected and analyzed in real time, allowing for things such as predictive maintenance, improved efficiency, performance and quality. Process is continuously monitored.

Data sources:

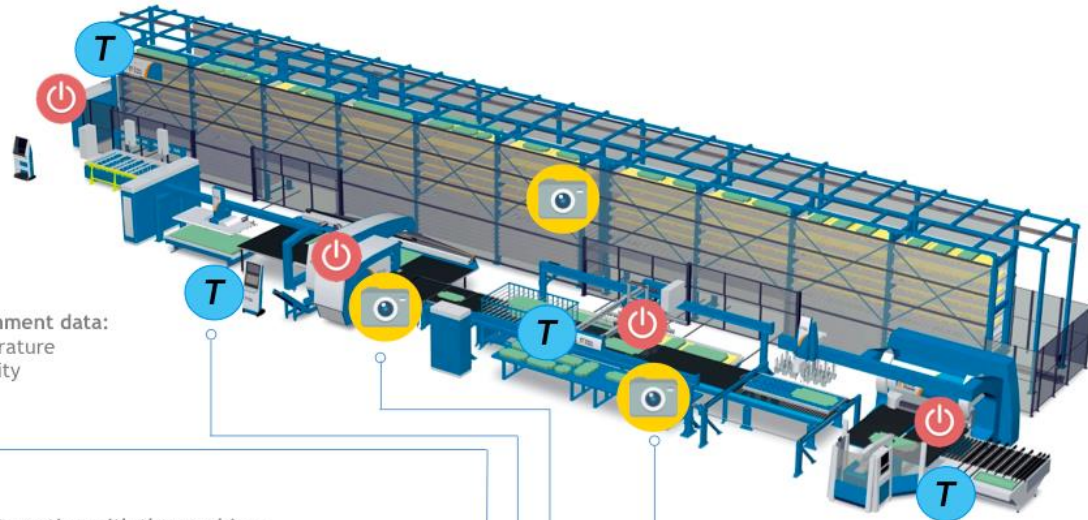
-  Machine controls
-  Tulus
-  Cameras
-  Environment
-  User



Environment data:
-Temperature
-Humidity



User interacting with the machine:
-Using manual buttons
-Using software
-Reporting performance issues




Fleet Management:
Central data collection

Smart Software: Maximizing sheet utilization

NC Express e³ is a part of Prima Power software family. NC Express e³ comes with a powerful nesting module for free-form and sheared parts. It can search for the best suitable sheet size, determine coil cut lengths and nest parts automatically common line for punching, laser and shearing machines. Automatic nesting saves your work time and brings material consumption down.




UP TO
99%
OF SHEET
UTILIZATION

Smart Software: From Orders to Product delivery

- * **Description:** Fully automated software operating sheet metal factory
- * **Benefits to customer:** Automated order management and reporting



Smart Software: Improve your production with Tulus® Performance and Tulus® Production Reportings

With Tulus® Performance Reporting you have all the necessary tools for viewing reports of machine status and analyzing production data. The software creates reports on machine efficiency and utilization and gives information where improvement is possible for production planning.

Detailed machine processing,
failure and idle times



Weekly machine
performance reports



Utilization & alarm
history data



Smart Software: Connectivity

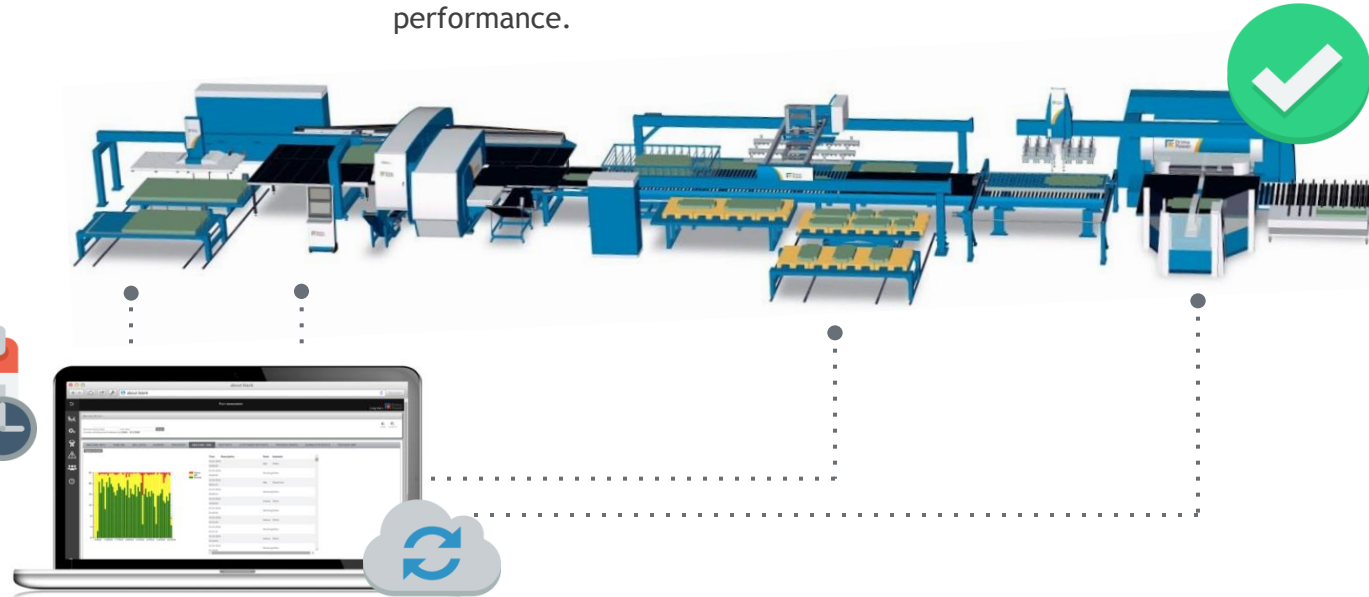
Machine connectivity

- * **Description:** Machine connectivity to a common software platform



Diagnostic & Maintenance: Condition monitoring & preventive maintenance

Prima Power Remote Diagnostics center continuously collects and monitors different machine parameters to ensure that machines are running efficiently. Machine sensors and cameras deliver valuable data to the Diagnostic Center. With the machine online data, Prima Power service team can get down to the root cause of the problem and instantly improve machine performance.





**ALL IN ONE
THE ONLY ONE**

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