MILACRON®

M·POWERED

MILACRON'S SUITE OF IIOT APPLICATIONS

Monitors your machine, on-line, 24/7, to make sure it always runs at its best.

APPLICATION PROGRAMMING INTERFACE ACCESS

APIs allow websites to grab information from databases and display it in another place, such as another website or an ERP/MES system. This can be used in several ways, publicly or privately. With the right setup, M-Powered's API tools allow you to easily display machine analytics onto displays across your factory floor.

APIs are private and secure. Instead of providing an open door, an API request may require a 'key' to obtain access to the requested information. If the key does not match, the API call is denied, and the information does not go through. Practically speaking, this allows the creation of customized data dashboards and informative Andon displays as needed using M-Powered's secure API calling system.

API Benefits

API's easily allow access to fast, reliable and secure shot by shot and minutely data for every connected machine in your fleet. M-Powered's advanced API suite provides access to productivity and operational data, costly downtime events and hundreds of process parameters with a few simple clicks. This data can be accessed programmatically to reduce barriers typically found when attempting to integrate asset data with plant-level systems.

Use this real-time data to support projects ranging from material ordering all the way down to automatic part rejection **to drive OEE and surpass the competition.**

DATA SECURITY

M-Powered gives you an unmatched level of security, integrity, expertise and application availability, all vital to the success of your business operations. The cornerstone of our security architecture is based on:

End-to-End Data Protection
Security of any data is guaranteed from the creation of the machine data, the transfer to the cloud, to the application and any API integration back into the computer system.

Managed Secure Network
Complete user administration autonomy with granular access rights based on corporate division, machine or user – role – all are fully customizable. All transactions are completely auditable, and there are no limits on the number of users.

Geolocation – Private & Dedicated Servers
Private and dedicated servers physically located in your chosen geography provide redundancy, backup and fail-over with 24/7 availability to your machine data, with unlimited data storage.

Compliance to International Security Standards
We constantly monitor and improve applications, systems and processes to provide a robust and secure solution. Certified to be in compliance with International Standard Organisation (ISO) 27001:2013, by DEKRA Certification B.V.

Information security
ISO/IEC 27001
www.dekra-seal.com
DEKRA certified

M-Powered maintains a secure connection for remote monitoring and access to equipment. While utilizing M-Powered hardware technology, your business is protected by the combined built-in security of a Virtual Private Network (VPN), firewall and other trusted protocols. M-Powered software isolates and silos each machine and your network for ultimate protection.

M-POWERED SECURE & PRIVATE CLOUD

M-Powered data centers around the world provide scalable, cloud-based data storage. These are home to our analytics, security and user administration and application modules that are accessible through web connections to registered and authenticated users.
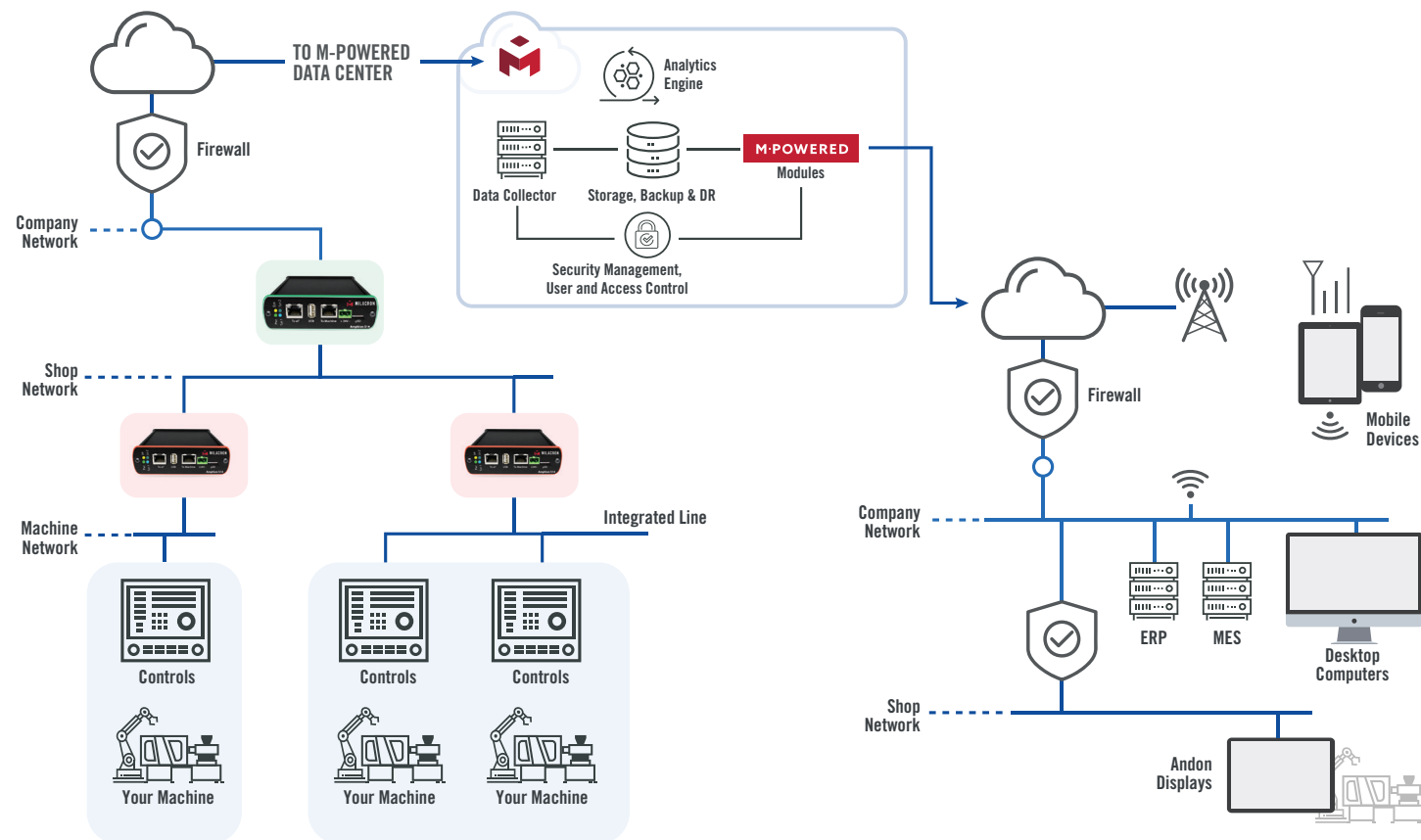
KEY CAPABILITIES

- **Certificate and key management,** provisioning of our edge devices with configurations and updates over our secure links
- **Seamless integration** with your backend systems such as ERP, MES, inventory management, or supply chain applications, through a host of open and flexible APIs
- **Provision of "Edge Analytics"** as well as custom integrated solutions to act on machine data in real-time, and data caching during network outages

AMPHION S14 HARDWARE

This plug-and-play IIoT edge device operates without complicated integration or development requirements over existing internet connections or via cellular links.

KEY FEATURES

- Secure VPN networks
- Edge Device with local caching
- Machine troubleshooting access
- Advanced access control features
- Data collection from devices
- Easy to set up and maintain hardware
- Cloud tools to manage network
- Secure subnets for machines

COMPATIBLE WITH

- ArcNet
- Control Net
- Data Highway +
- Ethernet
- Modbus
- OPC
- OPC-UA
- Profibus
- RS-232
- RS-422
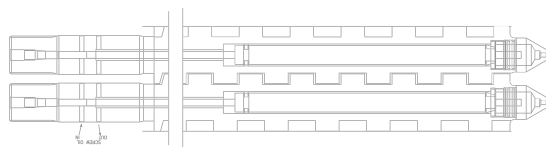- ... and many more

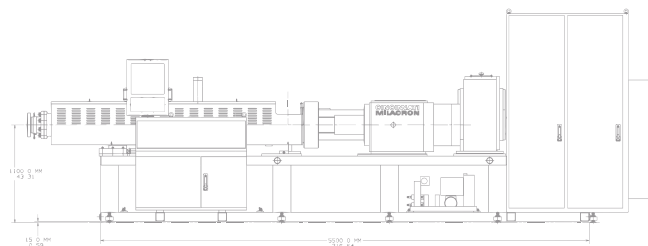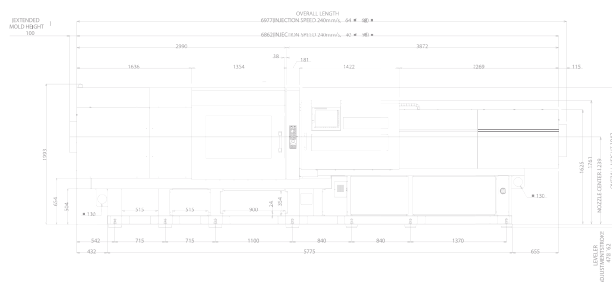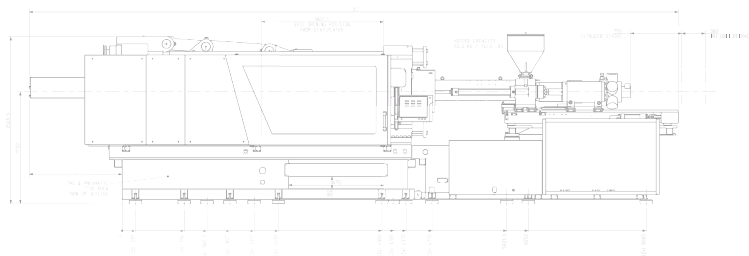### GREEN BOX AMPHION
Securely encrypts and consolidates all data generated on your site before it is transmitted to the data center via the Internet.

RED BOX AMPHION
Isolates each machine from other machines and everything else on your network. Interrogates your machines' controllers for status and data and can execute edge based filtering and analytics. Data is relayed to the green box while encrypted, or in plain text on your shop network, to allow you to monitor all data that is collected.