

DC Drive Solutions

We Engineer Uptime



AVTRON
INDUSTRIAL
AUTOMATION

Automation Since 1953



History

Avtron Industrial Automation has delivered reliable automation and control solutions since 1953.

Our products have a track record of durability and dependability in the most demanding applications.

We engineer solutions that deliver uptime

- High reliability drives and encoders
- Industry proven engineering services
- Start-up and commissioning services
- Multi-level diagnostics
- Professional training
- 24/7/365 support
- Specialty service contracts



Preserve Your Investment

Our backward compatible evolutionary drive designs keep your system from becoming extinct.

Avtron's core philosophy sets us apart from most other drive vendors who obsolete or completely replace their product offerings every 5 to 7 years. Our commitment to your investment is unparalleled in the industry.

Flexibility is Our Hallmark

Whether a new installation or an upgrade, we design systems to work the way you do. Decades of experience with industry standard controls and communications protocols means we deliver a drive system built around your specifications, not ours.



ADDvantage-32 Plus™

The ADDvantage-32 Plus family of DC drives

utilizes a common controller coupled with application rated SCR bridges to provide customers with a rugged, reliable and cost effective DC drive solution.

The ADDvantage-32 Plus DC Drive is the newest revision to the industry's longest continuously available drive. It is compatible with all ADDvantage-32 DC equipment.

Released in 1990 and still available, the ADDvantage-32 DC drive is the world's most reliable DC drive.

Our DC drives cover a wide range of horsepower with many control options available to support your specific application. The ADDvantage-32 platform is flexible enough for single section applications and is feature-packed for multiple motor system use.



Our backward compatible evolutionary drive design keeps your system from becoming extinct.

Enhanced Features of the ADDvantage-32 Plus

- USB port for memory stick parameter copy/paste/backup/restore
- ARC-Flash compliance with new remote mountable 4 line keypad display
- Expanded built-in 8 channel digital chart recorder with increased storage and faster sampling
- Fully time-stamped data in event FIFO
- Enhanced PLL performance provides reliable operation even when not running on grid power

Available I/O

- 6, 24 VDC digital inputs
- 4, Form-C contact digital outputs
- 6, 0 to +/10 VDC analog inputs
- 4, 0 to +/10 VDC analog outputs
- 2 quadrature pulse generator (encoder) inputs
- 1 buffered encoder output
- RS-485 serial interface
- Multi-protocol Ethernet interface
- Expanded digital I/O

NEW SYSTEMS

FLEXI



Standard Chassis Drives

- 5 - 300hp, 240 - 600V
- 10 - 550 amp
- Integrated motor field supplies up to 48 amps

Modular Drives

- 300 - 3,000hp
- 240 - 1,500V
- 1Ø, 3Ø, motor field supplies up to 500 amps

Mill Drives

- 500 - 10,000hp, 250/500/750V
- 6 and 12 pulse firing control with up to 48 parallel bridges
- Designs to meet all IEEE/IEC overload duty classes



ABILITY RETROFITS



Advanced Firing Module (AFM)

- Digital Front End drive upgrades
- 6 or 12 pulse LV and HV firing circuits
- Compatible with single/parallel/series bridge topologies
- Available with integrated motor field supply

Digital MG Set Controller (DMG)

- Stand-alone, three-phase generator field regulator
- Current rating from 10 - 500 amps
- 50 - 300 VDC nominal output w/up to 6:1 forcing
- Available with integrated motor field supply



Connectivity

Distributed Control

ADDvantage-32 based drive systems utilize Ethernet communications to integrate our intelligent drives with industry standard PLCs and HMIs.

Whether a new installation or an upgrade, we build systems to your specifications. With Avtron drive systems, the choice of PLC and HMI brand is always yours.

Multi-Vendor Support		
Rockwell Automation	General Electric	Modicon / Schneider
Ethernet IP™	Ethernet Global Data®	Modbus® TCP

Our vendor independent open architecture allows Avtron drive systems to blend into your existing control strategy.

- Reduces troubleshooting time
- Minimizes required system spares
- Reduces overall training cost
- Maximizes your investment in programming tools
- Reduces operator learning curve

Monitoring and Diagnostics

Locate and Classify Problems in Minutes

When faults occur and machines stop running, every minute means lost productivity. Avtron's monitoring and diagnostic tools provide rapid determination of fault location and severity so your team can take immediate corrective action.

**DRIVE
KEYPAD**

Fault FIFO
&
Signal
Analyzer

**ADDapt
WORKSTATION**

Multiple
Drive
Fault FIFO
& Signal
Analyzer

**PERFORMANCE
VIEW**

System Wide
Data Historian

PerformanceView™ ties it all together

Scalable Diagnostic System

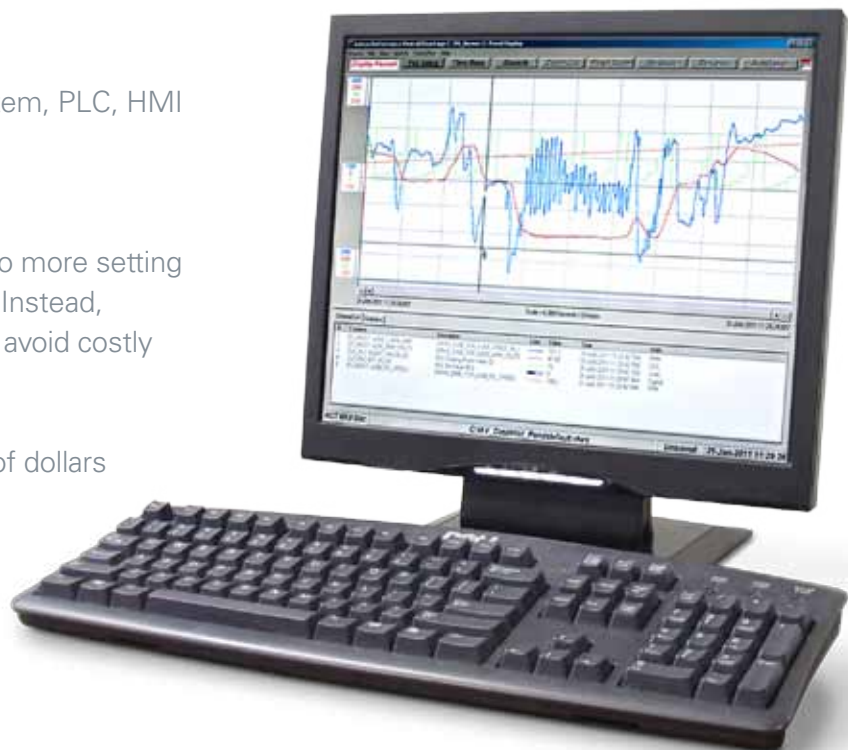
Gather data simultaneously from your drive system, PLC, HMI and process equipment.

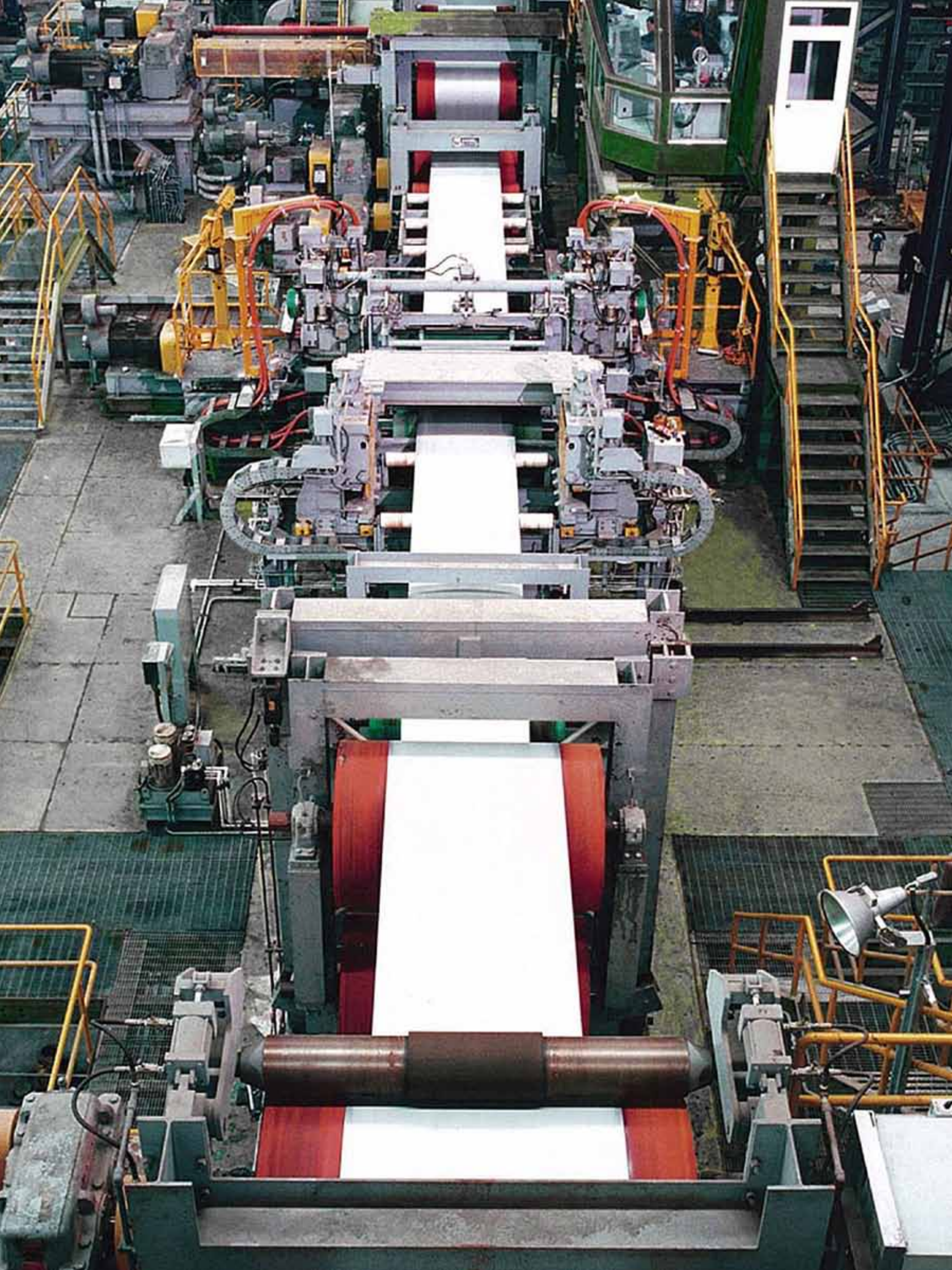
More Efficient Troubleshooting

PerformanceView is your 24/7/365 watchdog. No more setting up recording devices to catch the "next" event. Instead, identify the root cause after the initial event and avoid costly reoccurrences of problems.

PerformanceView customers save thousands of dollars

- Maximize production
- Improve performance
- Increase availability





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