



The power to drive industry



EATON

Powering Business Worldwide

About Cortina



Variable Speed Drives & Controls (VSD)
Variable Frequency Drives & Controls (VFD)
Kramer Drives & Controls
DC Drives & Voltage Regulators (AVRs)
High Current Rectifiers
Soft Starts
Power Electronics & HV Starters
SCADA Systems
Uninterruptible Power Supplies (UPS)
Bespoke Engineering & Systems Integration

As a pioneer of many industry firsts, Cortina has earned a reputation for innovation and excellence, challenging the limits of technology and pushing back the boundaries of power handling capabilities.

Cortina has an extensive design and development facility which has supported projects during the last 40 years. During this time the group has remained at the threshold of technology and on several occasions has pushed the boundaries to create opportunities for applications which were not previously considered possible. The combination of an experienced engineering team and sophisticated design aids help create these new opportunities for many projects.

The Team and their Expertise

Our design and engineering team has over 40 years of technical experience and resources to meet tomorrow's demanding requirement across a wide range of applications.

Water Utilities

Papermaking

Rubber & Plastics

Printing

Metal Finishing

Building Control

Oil & Petrochem

Material Handling

Mining

Steel & Welding

Marine & Defence

System Integration

DC Drives & Automatic Voltage Regulators (AVRs)



Our AVR controllers and static exciters have been installed on alternators from 25kVA capacity systems up to 30MVA in the oil and gas sector.

They are programmable and external comms links are provided for all operational and historical data to interface with station systems to make optimal use of available generating capacity.



Variable Speed Drives & Control Systems

Cortina has extensive experience in the engineering and supply of variable speed drives and associated control systems over a wide spectrum of industries including Water, Papermaking, Oil & Petrochem, Material handling, Metal Industries, Rubber and Plastics, Mining, and Marine.

For over 40 years Cortina variable speed drives and associated control systems have been keeping industry on the move.

Whether the process requirement is for high power pumping in the water and chemical industries, or accurate speed control of multi section machines in the paper and steel industries, Cortina are at the forefront of drive technology providing positive solutions to the ever more demanding needs of industry today.

Our drives and control systems are designed for reliability and ease of use and include many practical features to minimise plant downtime, thereby increasing process profits whilst reducing cost.



Kramer Drives and Controls

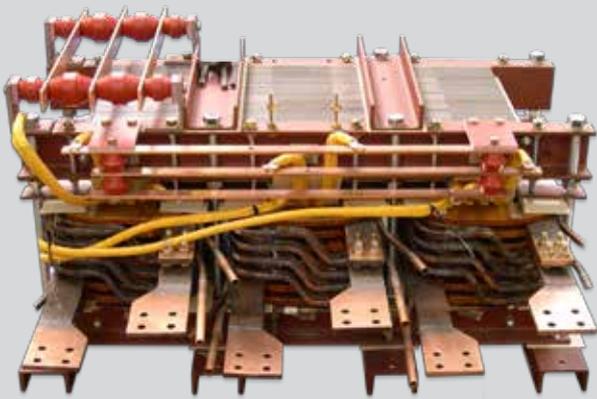
Cortina Improved Static Kramer (ISK) is a highly efficient means of speed control of wound rotor motors typically in the 500kW to 10MW range. It is particularly suited to centrifugal loads such as pumps and fans. The very low losses and harmonic content is a distinct advantage over other speed control systems.



High Current Rectifiers



Cortina specialise in the manufacture of Variable voltage and current thyristor rectifiers or fixed voltage diode rectifiers, for anodising, welding and plating applications.



Soft Starts



High Voltage MEGASTART Supply Voltage: 3.3kV, 6.6kV, 11kV
Cortina's MEGASTART range of controllers ensure the 'soft' starting and stopping of large three phase induction motors without excessive current peaks, motor heating or mechanical shocks. This is of particular importance in large machines where, because of powers in the MegaWatt range, the energy absorbed by the motor windings and shock torques in the mechanical parts of substantial proportions adversely affect machine and equipment life.



Power Electronics & HV Starters

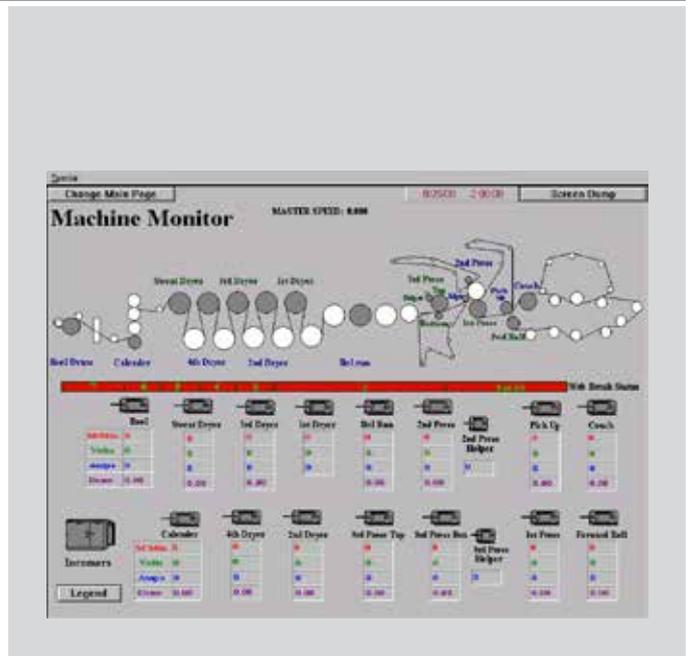
Diverse applications - innovative solutions



SCADA Systems

PLC Controllers and Software

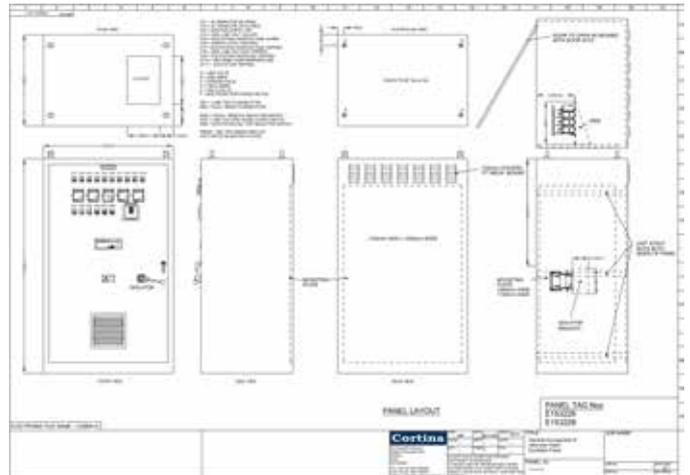
Cortina offers full PLC software services both as a part of our drive systems, and also as a software development house. Our in house software development team meet the control needs for effective industrial process control and information services. We are able to offer comprehensive software services including: SCADA, networking, telemetry, interfacing, millwide systems, fully automated process, management information systems and full software documentation.



Bespoke Engineering & Systems Integration



Cortina often works closely with other Eaton divisions to manufacture bespoke solutions for all areas of industry. From custom enclosures incorporating lighting control systems for energy management in large commercial buildings, to uninterruptible power supplies (UPS) for integrated building management systems.



Support

Throughout the organisation personnel are working to ensure that industry has the products, quality and, most importantly, support whenever and wherever they are needed. Our support services provide a fast and efficient response to a breakdown, and also minimise process downtime by means of regular routine inspection visits.

Our service contracts are tailored to meet the specific needs of our customers and we provide a full 24 hour call out service. Response times can be arranged which will best suit the requirements of the individual customer.

On-site Commissioning

Undertaken by our experienced engineering team we ensure the full integration of new machinery with the established manufacturing environment and communications protocol.

Recommended Spare Parts List

Cortina engineers undertake a comprehensive assessment and will recommend a list of adequate spares to be held on site with the equipment. In addition we evaluate the delivery times of all bespoke components to ensure that second line spares availability is compatible with the customer's needs.

Repair and Service Record

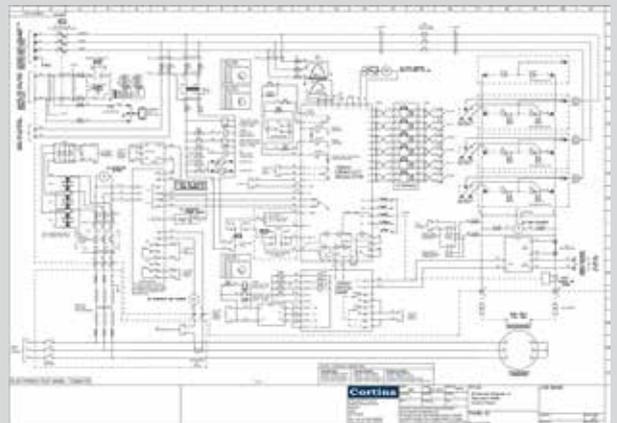
Cortina hold a complete repair and service record for all equipment we contract to support. A full and detailed report is provided after each service visit.

Structured Training Programmes

We offer project specific training on three levels. Basic training for the operation of equipment, more in-depth training allowing operators and technicians to run and service equipment supplied and a full training program for the customers to be able to operate, service and diagnose faults.

We offer complete project engineering services. Whether the project is for a stand alone drive or a complete multi-section control suite, our engineering staff work as a team to handle all aspects of the project efficiently and professionally.

From initial feasibility studies, design and build, through to complete system installation and commissioning, Cortina offer a full engineering service based upon years of drive and controls experience.



Eaton's electrical business is a global leader with expertise in power distribution and circuit protection; backup power protection; control and automation; lighting and security; structural solutions and wiring devices; solutions for harsh and hazardous environments; and engineering services. Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges.

Eaton is a power management company providing energy-efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power. A global technology leader, Eaton acquired Cooper Industries plc in November 2012. The 2012 revenue of the combined companies was \$21.8 billion on a pro forma basis. Eaton has approximately 102,000 employees and sells products to customers in more than 175 countries. For more information, visit www.eaton.com.

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