




We put all our energy
into saving yours

CG DRIVES & AUTOMATION

e m o t r o n

DEDICATED DRIVE

 | A CG Product

We understand your needs, from power supply to process

CG Drives & Automation is a part of CG; Crompton Greaves. A global specialist in the management and application of electrical energy. Focused on supporting the growing demand for a cleaner and energy efficient environment.





With a heritage of over one hundred years in the energy business, our mission remains high value energy offering. CG work with an urgency to deliver cleaner, greener and smarter global energy solutions with the aim to help the world efficiently use, reliably distribute, and effectively manage its energy needs.

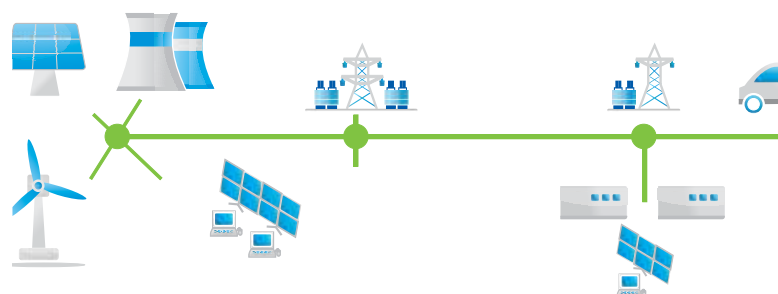


From generator to light bulb, all across the globe

With more than 15,000 employees across its operations in around 85 countries, CG provides electrical products, systems and services to power utilities, industries and consumers.

The company is organised into four business groups:

-  Power
-  Automation
-  Industrial - Drives & Automation is a part of this group
-  Consumer



4 Business Groups
Power, Automation, Industrial
and Consumer

15,000+ workforce in around
85 countries

Consolidated Revenues \$ 2.3 billion

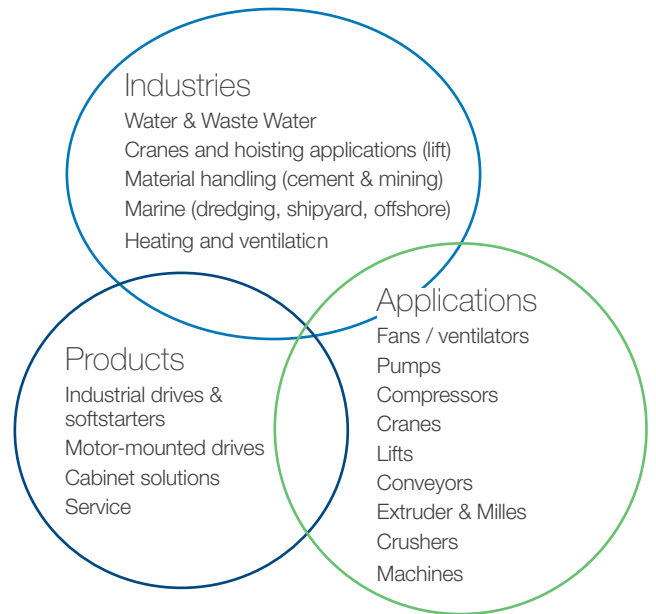
Global pioneer in the management and
application of electrical energy

Unique & diverse product portfolio
covering the entire value chain
of engineering offerings

Electrical products,
systems & services for power utilities,
industries and consumers.

We put all our **energy** into **saving** yours

CG Drives & Automation, formerly Emotron, has developed, manufactured and delivered efficient and reliable motor control equipment for more than 35 years. We offer energy efficient solutions, based on our dedicated drives. This ensure safe and cost-efficient operation of demanding industrial applications. We provide smart solutions to users, operators, system integrators and OEMs around the world, wherever there are demanding applications.



- Head office and production for Europe and rest of the world in Helsingborg Sweden
- Sales and service in Wernigerode Germany
- Sales and service in Bladel Netherlands
- Sales, service and production for Indian market in Mandideep in India
- Representative offices in Latin America, North America and China
- Qualified partner/distributor network world wide with technical service capacity
- Local service organisation world wide 7/24

Powering your world with robust and reliable solutions

CG Drives & Automation offers complete drive solutions that ensure safe and cost-efficient operation of demanding industrial applications. We provide smart solutions to users, operators, system integrators and OEMs around the world. Wherever there are demanding applications like cranes, water handling systems, material handling systems, marine solutions: our know-how creates robust, reliable and simple drive solutions. This results in lower operating costs and a longer service life.

Strong relationships

We use our personal commitment to make our solutions work according to your requirements. Saving energy is not just about your electricity bill – we let you put your own energy into your core business.

We build long-term relationships based on stability and strong ownership – as well as our excellent track record on delivering what we promise.

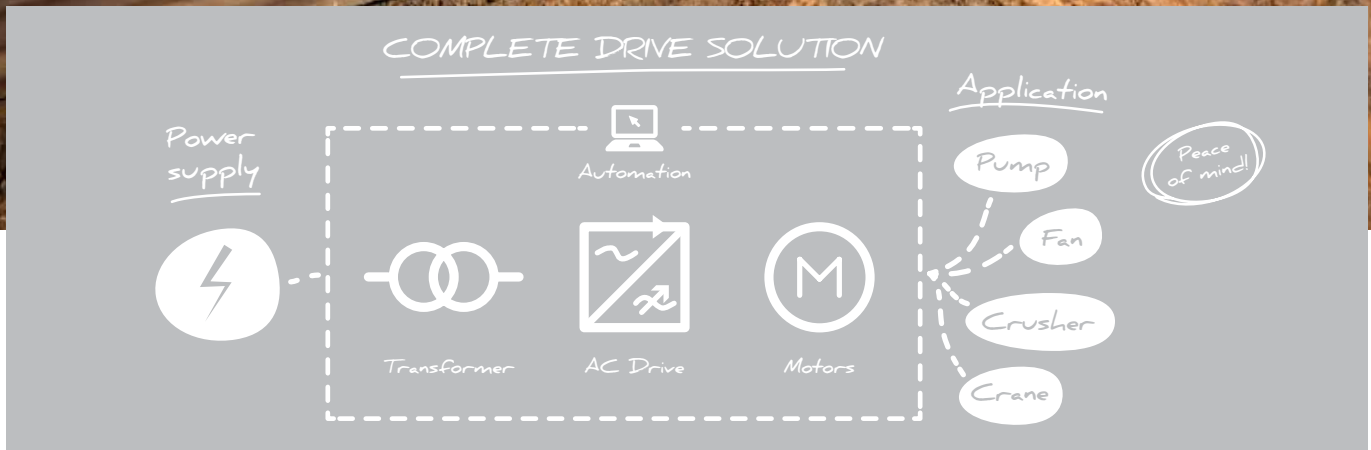
Simplicity and reliability

We use our know-how to create robust and reliable, yet simple drive solutions – resulting in lower operating costs and a longer service life. Our experience is based on decades of product development and thousands of customer installations – as well as recent advances in control technology.

Quality manufacturing

Our production plants in Helsingborg, Sweden and Mandideep, India carry out manufacturing, in-house assembly and testing with short lead times, even on customised solutions. We operate a global supply chain of components, under lean and flexible production methods that are ISO 9001 certified.





At CG Drives & Automation we use our know-how to create technical solutions that fit your requirements, and our personal commitment to make them work in practice – on your site, with your personnel.

Simplicity and reliability are keywords applying to our products and solutions, as well as the service and support that our committed professionals provide. This saves you energy in every sense of the word!

From design to commissioning and beyond

Saving energy is not only about lowering your energy bills. It is also about channelising your energy in the right processes. You can rely on us for optimising and adding efficiency to your operations. As a customer of CG Drives & Automation, you will benefit from an international network for support and service.



Complete drive solution

Creating a complete drive solution optimized for your process will give your industrial application the best total performance and give you peace of mind. We provide a complete solution where other companies need to add external equipment. This makes installation and commissioning not only easy but also cost-efficient.

We can deliver the engineering, automation, transformer, AC drive, motor and cabinets in an integrated solution with advanced functionality – optimized for your application, in consultation with your team. Our modular design philosophy lets us deliver complete solutions based on standard products – regardless of the application area – water handling, material handling, or cranes.

- ✓ Delivery of complete systems based on our Emotron products
- ✓ Drive, cabinet, motor, transformer
- ✓ Engineering, installation, commissioning, maintenance

Our contributions to sustainability

We put all of our energy into saving yours. This slogan isn't just our attitude. It reflects the core of our operations – improving energy efficiency to reduce electric energy consumption – and reducing the overall carbon footprint of industrial processes.

Our Emotron solutions save energy and reduce dependence on fossil fuels, thereby reducing environmental impact and contributing to sustainable operations. They also enable significant savings in kilowatt hours and carbon emissions, reducing costs for our customers and for society.

When you look at applications where we make a difference, you find us contributing to positive environmental impacts. For example, enabling oxygenation of wastewater in biological cleaning processes through variable speed drives; or doubling the pumping capacity of a municipal groundwater station while saving energy.

Our product portfolio

AC DRIVES



EMOTRON FDU 2.0 DRIVES

Full control and optimised operation

Emotron FDU helps you to save energy and draw maximum efficiency on your process. Enabled with modern concepts, these drives are cost effective and are a perfect choice for customised requirements.

Rated power	0.55-3,000 kW
Supply voltage	230-690 V, 3-phase
Rated current	2.5-3,000 A
Protection class	IP54
Approvals	CE, UL, DNV, GOST R



EMOTRON VFX 2.0 DRIVES

Full control with precision

The Emotron VFX 2.0 variable speed drive optimises your process and prevents damage and downtime. The combination of direct torque control, accurate speed control and efficient vector braking, makes it the ideal solution for all dynamic applications such as cranes, crushers, mills, mixers and centrifuges.

Rated power	0.55-3,000 kW
Supply voltage	230-690 V, 3-phase
Rated current	2.5-3,000 A
Protection class	IP20, IP21, IP54
Approvals	CE, UL, DNV, GOST R (DNV pending for IP20/21)



EMOTRON AFE

Cost effective and trouble-free operation

Emotron Active Frontend drives are available in two versions - Low Harmonic Drives and Regenerative Drives. Both are based on standard Emotron AC Drives, offering the same reliability, easy handling and advanced functionality. The drives are delivered as a complete solutions' package in IP54 classified cabinets.

Rated power	55-1,100 kW
Supply voltage	380-690 V

SOFTSTARTERS



EMOTRON CDU / CDX 2.0

Compact and intelligent

Integrating speed control will add considerable value to your pump enabling you to increase your turnover. Optimise your pump with a plug-and-play solution with built-in intelligence. You will benefit from simplified installation, energy savings and improved process reliability - all from a single supplier.

Rated power	3-22 kW
Supply voltage	380-480 VAC / 480-525 VAC, 3ph
Protection class	IP55
Approvals	Global standards



EMOTRON TSA SOFTSTARTERS

Starts, stops and protects

Emotron TSA softstarters take motors to a new level. Soft torque starting and intelligent load monitoring, real time clock, programming block, by-pass contactor gives low losses, in an all inclusive robust and compact design.

Supply voltages	200 – 525 VAC, 3-phase 50/60 Hz 200 – 690 VAC, 3-phase 50/60 Hz
Rated current	16 – 1800 A
Rated power	5.5 – 1800 kW
Control supply voltage	100 – 240 V
Ambient temperature	0 – 55 °C (40°C without derating)
Protection class	IP20, NEMA Type 1 (Up to 800 A) IP00, NEMA Open type (1000-1800 A)
Approvals	CE (UL, GOST R pending)



EMOTRON MSF 2.0 SOFTSTARTERS

More than just a soft start

Whilst traditional softstarters handle the most common start-up challenges, Emotron MSF 2.0 offers a lot more.

Start and stop sequences are optimised and the advanced braking techniques, increase productivity. Built-in monitor functionality protects your process from inefficiency, damage and downtime. Easy installation and set-up save time and money.

Supply voltage	200 – 690 V, 3-phase
Rated current	17 – 1,650 A
Rated power	7.5 – 1,600 kW
Protection class	IP20, NEMA 1 (up to 960 A) IP00, NEMA 0 (up to 1,650 A)
Approvals	CE, UL, GOST R

SHAFT POWER MONITORS



EMOTRON M20 SHAFT POWER MONITORS

Your shield against overload and damage

Emotron M20 shaft power monitors help you save time and money. They protect your pumps and other equipment against damage and inefficient processes. Early warning allows you to take preventive action. Unique features include measuring shaft power output and using the monitor as a sensor. The result: reduced maintenance and installation costs, extended equipment lifetime and increased reliability.

HEAT EXCHANGER DRIVES



EMOTRON EMX

Speed control of rotary heat exchangers

Emotron EMX drive systems are specially designed for speed control of rotary heat exchangers. They offer full control over a wide speed range and ensure efficient operation. Other benefits include unique built-in functionality and easy installation.

Emotron EMX-R
Complete drive system with integrated rotation sensor.
Emotron EMX-P
Compact control unit for stable temperature control.

MOTORS



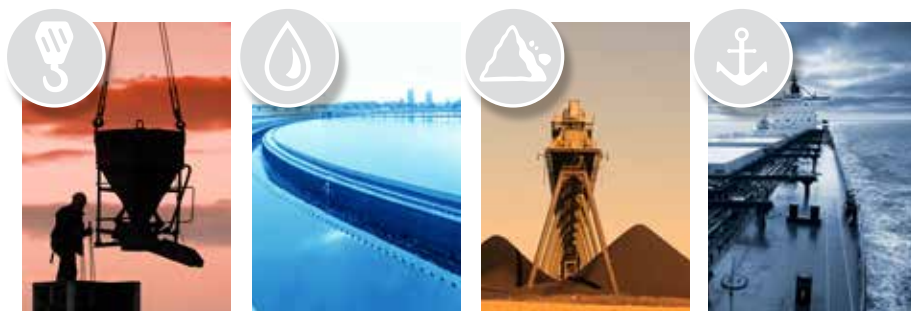
CG MOTORS

A wide range of standard motors

CG is one of the leading motor manufacturers, offering a wide range of standard motors in efficiency class IE2 and IE3 230-690V. Customised medium and high voltage motors are available on request.

CG motors are ideal for application in pumps, fans, compressors and cranes. CG has more than 130 years of experience in the manufacture of rotating electrical machines and offers complete solutions for your motor and generator applications.

SOLUTIONS



DRIVE SOLUTIONS

We offers complete drive solutions that ensure the safe and cost-efficient operation of demanding industrial applications. We provide smart solutions to users, operators, system integrators and OEMs around the world. Wherever there are demanding applications. Like for cranes, for water handling systems, for material handling systems and for marine and offshore systems.

- ✓ Delivery of complete systems based on standard products
- ✓ Drive, cabinet, motor, transformer
- ✓ Engineering, installation, commissioning, maintenance

For further technical information, visit www.emotron.com or see the Emotron technical catalogues and datasheets.

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DRIVE SOLUTIONS
EMPOWERED BY EMOTRON

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