We put all our energy
into saving yours
CG DRIVES & AUTOMATION
emotron
DEDICATED DRIVE
A CG Product

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

We are your preferred green-tech partner of energy efficient products and solutions.Devoted to innovation.Committed to quality and service. Always striving to push the limits.

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.

CG Drives & Automation has been developing, manufacturing and delivering efficient and reliable motor control equipment for more than 35 years. We offer optimized energy solutions for your needs based on our application know-how;

- Our smarter dedicated products which reflect robustness, ease of use and maximized connectivity
- Our faster, reliable, quality deliveries
- Our leaner approach to services in which we offer customization of products and proactive and integrated services

This ensures safe and cost-effective operation of demanding industrial applications. We provide smart solutions to users, operators, system integrators and OEMs around the world, wherever there are demanding applications. We create robust, reliable and flexible drive solutions – resulting in lower operating costs and a longer service life.

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. Specially our active front-end and regenerating technology enable significant savings in kilowatt hours and carbon emissions, reducing costs for our customers and for society.

In 1977, Emotron was the first company to introduce an AC drive based on Pulse Width Modulation (PWM). The Emotron technology can provide direct torque control for high dynamics application due to extremely fast response time since actual and required torque is compared 40,000 times a second.

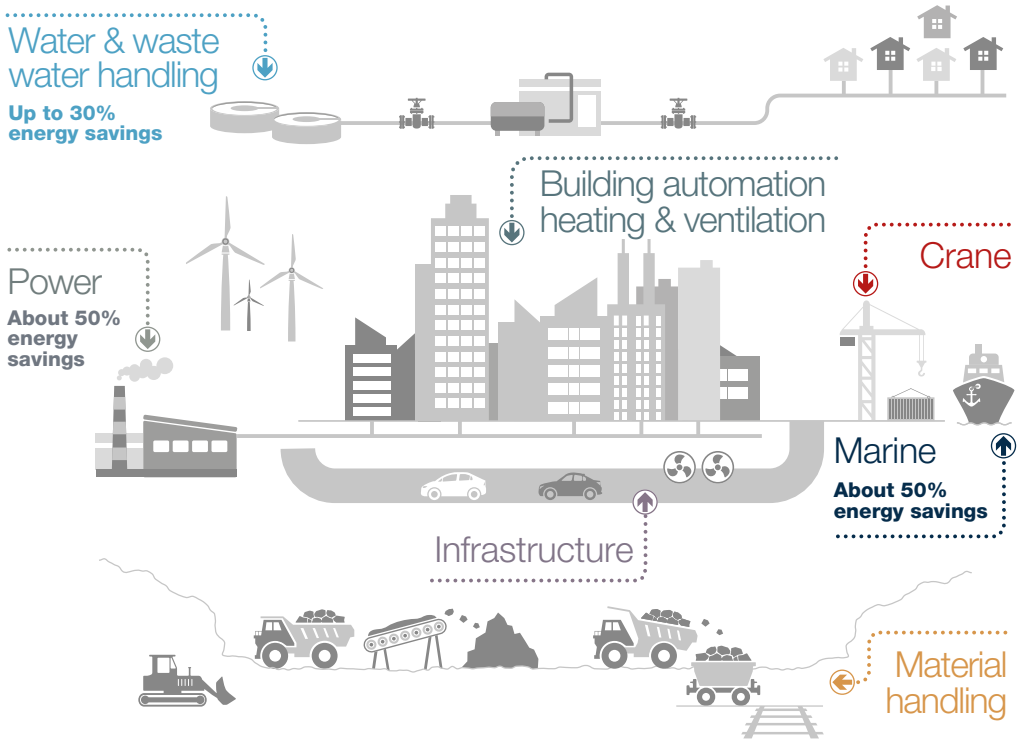
Secure your process and save energy

We offer energy efficient solutions, based on our dedicated drives. This ensure safe and cost-efficient operation of demanding industrial applications. The result is often big energy savings and always low lifetime cost of operation.

INDUSTRIES
Water & Waste Water
Crane & Hoisting
Material handling
Marine
Heating & ventilation

APPLICATIONS
Fans/ventilators
Pumps
Compressors
Cranes
Lifts
Conveyors
Extruder & Milles
Crushers
Machines

PRODUCTS
Industrial drives
Softstarters
Motor-mounted drives
Cabinet solutions
Service



In the world

4 Channels to market
End customers
System integrators
Distributors
OEM

2 Factories

Head office and production in Helsingborg Sweden
Sales, service and production in Mandideep India

4 Core markets

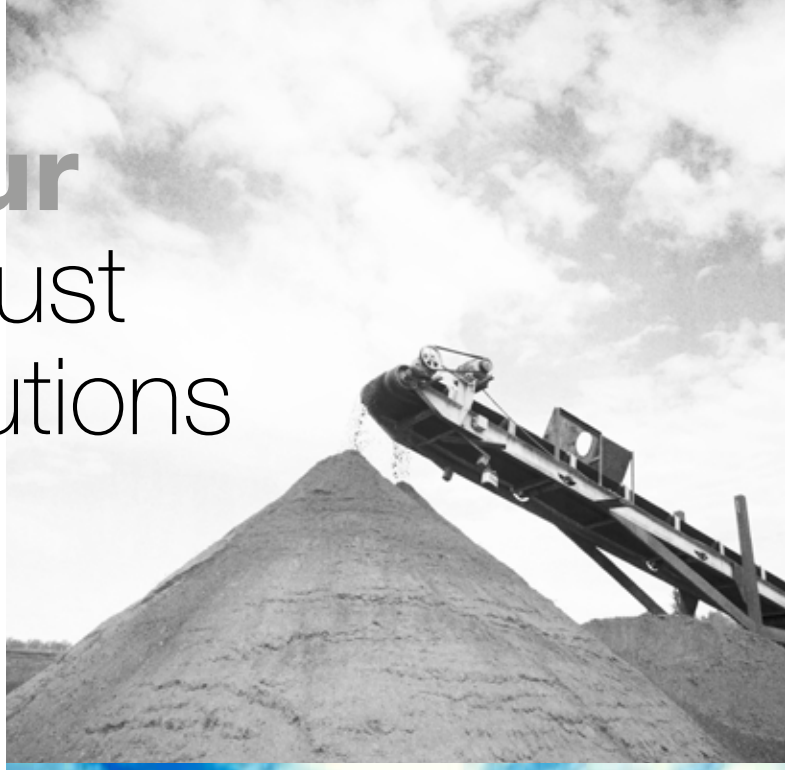
Nordic, Germany, Netherlands and India
Sales and service in Wernigerode Germany
Sales and service in Bladel Netherlands

25 Authorized servicepartners

Partner network world wide with technical service capacity

80 Distributors world wide

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 our know-how creates robust, reliable and simple drive solutions. This results in lower operating costs and a longer service life.

Application know-how

We have extensive knowledge of technical solutions but also extensive knowledge about what is best for every customer at every opportunity. Our products are built on a flexible platform which allows customization and specialization towards different applications and industries.

Customer oriented services

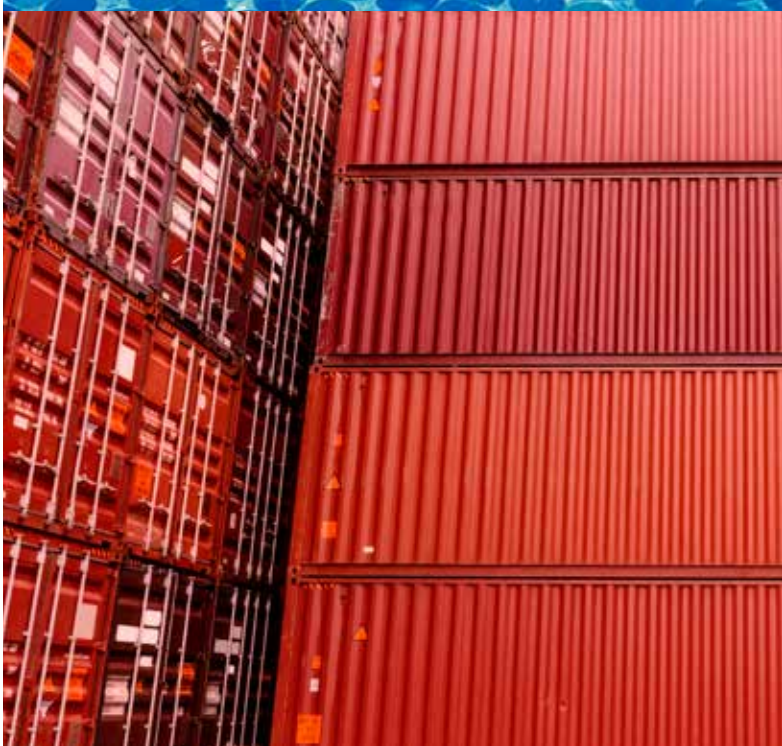
We are a reliable partner and aim for simplicity that reflects our products but also reflect our approach, decisions and the way we work together. Just to save time and trouble. We offer customization and service support to provide a proactive added value approach.

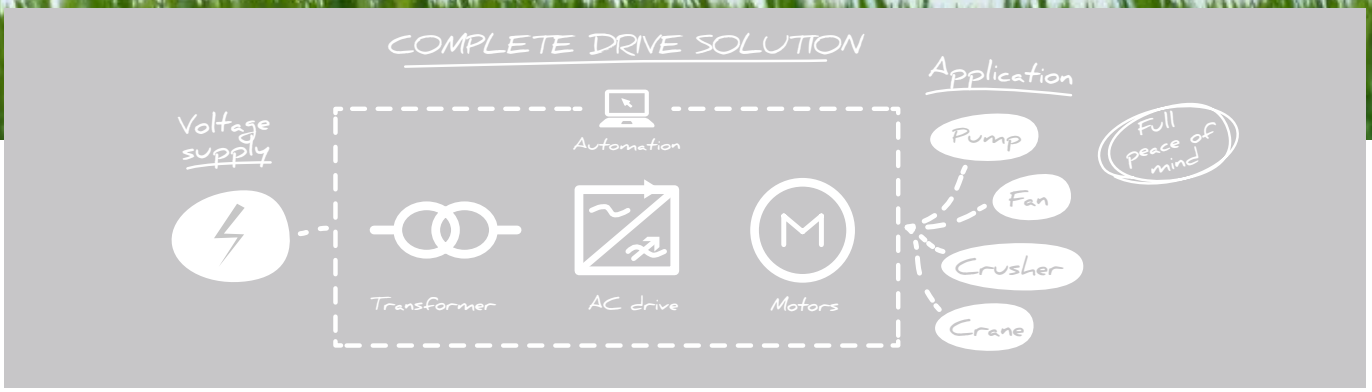
Robustness and reliability

We make robust products for harsh environments, and we offer maximized connectivity which enable condition monitoring and proactive services. In our operations we combine Swedish design and quality along with a long tradition of manufacturing excellence from both Sweden and India. 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.

Easy to use and connect

Our products have been designed to support efficient installation and quick configuration. The menus are easy to navigate and offer a quick overview through local interface or through remote software.Our flexible interfaces are designed to match the new demands associated with Industry4.0 and IOT requirements.





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!

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 AC drive, motor and cabinet in a single integrated solution with advanced functionality. Everything is optimised for your application, in cooperation with your team. Our modular design philosophy enables us to deliver complete solutions based on standard products – regardless of the area of application.

Project team

We have been working with the energy sector for many years. Our project team delivers turnkey solutions and offers start-up and service commitments for the whole lifespan of the product. We use our personal commitment to make our solutions work according to your requirements. Saving energy is not just about your electricity bill – we make sure that you can put your own energy into your core business.

Our project team offers:

- Delivery of complete systems based on our Emotron products
- Project management – we appoint a project manager who is your contact throughout the duration of the project
- Design
- Installation and commissioning
- Documentation
- Training, maintenance and service

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.

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 VXF 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

EMOTRON FLOWDRIVE
Dedicated waste water drive

Emotron FlowDrive is designed for use in the most common pumping scenarios (1-2 pumps of any brand) in the wastewater management industry. Emotron Flowdrive helps you to save energy and draw maximum efficiency on your process.

Rated power	0.75-160 kW @ 400 VAC
Supply voltages	230-690 VAC, 3-phase
Rated current	2.5-295 A
Protection class	IP20, IP21, IP54
Approvals	CE, EAC (cULus pending)

Coated boards and EMC filter Category C3 included as standard.

EMOTRON VS10 & VS30
Optimized in size and price for small powers

Although small in size, our new Emotron VS10 and VS30 drive is equipped with several advanced features. Functionality is easily adapted to your specific application requirements.
Emotron VS10 and VS30 offers reliable and cost-efficient operation of your pumps, fans and compressors as well as constant torque applications such as conveyors.

Rated power	VS10: 0.25–2.2 kW 1-ph VS30: 0.25–7.5 kW 3-ph
Supply voltage	230V 1-ph, 230–480V 3-ph
Protection class	IP20
Approvals	CE, cULus

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

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

SOFTSTARTERS

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

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.

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 warming 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.

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

We put all our energy into saving yours

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CG Drives & Automation, formerly Emotron, has developed, manufactured and delivered efficient and reliable motor control equipment for over 35 years. Since 2011 we are a part of Crompton Greaves (CG), a global pioneering leader in the management and application of electrical energy.

DRIVE SOLUTIONS
EMPOWERED BY EMOTRON

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