



ATI Systems
Committed to Quality

COMPANY **PROFILE**





Who We Are



The Organization

The Group is made up of five divisions:

1. Elsteel Low Voltage Assemblies

This is a specialist electrical assembly division, involved with the design of power distribution and motor control assemblies. Panels are designed based on customer specification, and to international norms (IEC 61439-1/2).

2. Drives and Control

The drives division supplies SSD Parker speed drives, including AC, DC and Servo drives. They provide the complete service of drive system design, commissioning, back-up service and training.

3. Position Feedback

ATI Systems is a leading supplier of rotary motion and linear displacement sensors. The company is the sole distributor of famous brands like Leine & Linde, Fraba and Temposonics.

4. Standard Enclosures

ATI Systems is the sole importer and distributor of the Eldon range of enclosures. It includes wall mounted enclosures, floor standers and consoles, in stainless steel and mild steel. ATI is the largest stockist of enclosures in Southern Africa.

5. Strip Guiding

ATI Systems is the distributor for EMG Automation. EMG are specialists in guiding strip steel in steel processing lines. A complete service of guiding system design, installation, commissioning and training is provided to client maintenance and operational staff via the competent staff of ATI Systems.

Quality Control

ISO9001:2008 TUV Certified - Certificate No: 01 100 928363.

Quality is part of our backbone, and an absolute requirement in terms of the steel assembly, the components therein, the way the project is put together and the way it is documented.

Training

All products in the ATI portfolio are specialist products. ATI provides all levels of training for the safe and efficient application of all their products.

After-sales Service

All ATI products are backed-up with good functional stock-holding. Our competent staff is available for site service all over Southern Africa at customer's request.

Distribution Network

All territories in Southern Africa is covered by either a direct ATI office/representative or authorized distributors.

Finance and Administration

Projects need finance and overall control. All projects are controlled by a skilled leader. The main tool for control is SAP.

Fast Delivery

Complete MCC's / Distribution Boards can be build in a short time, because a full range of enclosures and enclosure parts are ex-stock. The sheet metal manufacturing program is fast tracked, with our ready on stock, world class Eldon and Elsteel enclosures. These panels are made to, and carry most international functional certifications.

Technical Know-how

ATI Systems is a specialist company, specializing in rotary motion and linear displacement. Our staff is trained by our suppliers in the countries of origin, and all have recognized engineering qualifications. We are able to supply turnkey solutions in this business, and supply an all hour back-up service.

MISSION STATEMENT

The mission of ATI Systems is to import and market products, to the Southern Africa automation industry, and to back these up with sound engineering expertise and training.

Our mission includes the provision of the following services:

- Equipment repairs, including guarantee cover from principals
- Selective, specialized and related hardware development
- Stock equipment to assure excellence in service to our clients
- To compliment our suppliers in our service to our clients



Head Office Wadeville, South Africa



Our Brands

Position Feedback

ROTARY ENCODERS - *LEINE & LINDE*

LEINE & LINDE

ABSOLUTE ENCODERS - *FRABA*

POSITAL
FRABA

ENCODERS & TACHOS - *BAUMER HUBNER / THALHEIM*

HUBNER
ELEKTROMASCHINEN AG
BERLIN
THALHEIM

ELECTRONIC CAM CONTROL - *DEUTSCHMANN*

Deuschmann Automation

ENCODER COUPLINGS - *HUCO DYNATORK*

Huco[®]
Dynatork

CONTROL, MOTION & INTERFACE - *MOTRONA*

moTrona[®]

LINEAR MEASUREMENT - *MTS TEMPOSONICS*

MTS
SENSORS
Temposonics[®]

LINEAR MEASUREMENT - *CELESCO*

celesco

LINEAR POTENTIOMETERS - *OPKON*

OPKON

LINEAR DISPLACEMENT - *MAGNESCALE*

Magnescape



Our Brands



Enclosure Systems

ENCLOSURE SYSTEMS - *ELDON*



MODULAR ENCLOSURES - *ELSTEEL*



PANEL COOLING - *COSMOTEC*



AIR CONDITIONERS - *MCLEAN*



POWER SUPPLIES & BATTERY CHARGERS - *NORMAND*



THERMAL MANAGEMENT - *STEGO*





Our Brands



Drive Systems

VARIABLE SPEED DRIVES - *PARKER*



VARIABLE SPEED DRIVES - *SSD EURO THERM*



VARIABLE SPEED DRIVES - *FUJI*



SOFT STARTERS - *FAIRFORD*



Strip Guiding

EMG Automation





ELSTEEL Modular Enclosures



MODULAR ELSTEEL ENCLOSURES

1. Design verified IEC 61439-1/2
2. Built up to form 4b, in fixed mounting plate, pluggable and fully withdrawable.
3. Tested with all major brands of switchgear: Schneider, ABB, GE, CBI and other.
4. Tested to 100kA/1 sec. and 65kA/3 sec.
5. Vibration and Seismic certification.
6. Internal Arc approved.
7. Shipping certified by Lloyds, ABS, Russian Shipping and DNV
8. Complete assemblies can be built from local stock.
9. Specialize on fast delivery projects.
10. ATI Systems train panel builders country wide, to build assemblies from flat-pack.



ELDON Enclosure Systems



1. Standard Enclosures

Eldon is a major brand of high quality enclosures, manufactured in all materials, mild steel powder coated, stainless steel and glass fibre reinforced polyester.

2. Southern Africa's largest stockist of high quality enclosures.

3. Floor Standing Enclosures up to IP66

4. Wall Mounted Enclosures IP66

5. Consoles

6. Computer Cabinets

All of the above are certified by all major international certification authorities:





Plant and Equipment



We have two busbar processing machines, including punching, cutting and bending.

A third machine for accurate repeat bending.

5 Ton truck for panel assembly deliveries.



Success Stories



Unilever Project 2014

Schneider Electric needed an electric assembly supplier to help deliver against very tight delivery requirements on this project.

Strict technical requirement from the Unilever consultants dictate that the panels will be fully verified to IEC 61439 1/2

ATI Systems with their Elsteel product line are asked to help. The Elsteel product is presented to the consultants who fully approved the use of the product on their project.

The project consisted of 28 large assemblies, ranging from 4000 Amp to 800 Amp. The fully fitted assemblies were always delivered ahead of requirement.

This was the largest project in RSA for 2014.

Consideration should be given to the fact that Schneider have their own enclosure products, which in the tight delivery requirement, proved to be no match for the offering of ATI Systems.

More than 100 Linear Meters of Panels in one Month

Mittal Newcastle has a fire in main control room at a mill.

The plant must come on line as soon as possible.

All major OEM's and suppliers are invited to come help Mittal get the plant back on line.

Switchgear is available ex-stock from various OEM's, but the enclosures to house the drives, switchgear etc. would take many weeks to manufacture.

ATI Systems present at the meeting, give the assurance, to the surprise of the opposition, that panels would be provided as fast as the drive and switchgear suppliers would require.

The result was ATI Systems supplied the first panels within one week. At the end of the project, which was middle January 2017, ATI Systems had supplied in the stretch of one month, more than 100 linear meters of Panels.

ATI Systems is the largest stockists in Southern Africa of quality electrical enclosures with their Eldon and Elsteel brands.

Elsteel is a fully verified assembly under IEC 61439 1/2, and has been tested with all major switchgear manufacturers in the market. Many assemblies can be built directly from stock.

Success Stories



Reach for the Sky

A well-known Amusement and Entertainment Park approached ATI Systems to assist in getting their most famous and loved attraction back on line. The problem presented itself in the form of the primary Motor Drive that broke down. The delivery from the current supplier was to be six weeks, a big problem for the amusement park.

Not only could our Drives Division - EP Normand supply the drives directly from stock, but the powerful Parker SSD Software also allowed for a quick new design to control the tricky application. The application required very accurate control due to the absolute synchronized drive application connected to a PLC and supervised by a Safety PLC. The Parker SSD Invertors are designed with powerful user-friendly software to configure the drive for complex applications without making use of additional PLCs in the process.

Through our quick response, the availability of our drives, and the technical know-how of our drive specialists, we were able to reduce a six-week delivery time down to only one week, maximize availability, and once again assuring patrons of the promise of 'Reaching for the Skies'.

Heat Expansion Measurement

A leading manufacturer of Electric Arc Furnaces (EAFs) for the mining processing industry approached ATI Systems with a unique problem. During start-up, the Refractory material used to insulate the EAF's shell cracks and form dangerous voids due to the expansion caused from the rapid rise in temperatures.

The dangers and losses are of the highest degree when voids are formed in the protective lining of the EAF. When molten metal penetrates the outer shell, you run the risk of losing lives and not to mention the substantial downtime needed for repairs, bringing production to a total standstill.

To ATI Systems the solution was simple. Magnetostrictive Linear Measurement Technology, Pioneered by Temposonics, and only distributed by ATI Systems in the African market. These linear Transducers, able to measure microns, and with a repeatability unmatched by any other linear position measurement device was installed all around the EAF. The sensor was encapsulated in a special housing, engineered by ATI Systems to withstand the extreme ambient temperatures.

The system measures the heat expansion of the EAF's flameproof lining and shell during start-up. Crucial data is collected from the sensor for efficient monitoring and limitation of the heat expansion caused by the rising temperatures.

Up to date, no cracks were formed in the protective linings due to extreme temperature rises and production stays on track. It is the mission of ATI Systems to provide solutions to Maximize Plant Availability.

The above application is proof of the versatility of the ATI Systems application engineering.



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