



AUM
AUTOMATION CONCEPTS

CK90/05168/23 - Vat Reg.No. 4510143938

**Specialists in: Automated Industrial Control, Electrical / Instrumentation
Design**

PLC and SCADA, E & I Construction and Commissioning

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Company Profile



**Electrical and
Instrumentation
Engineers and
Contractors**



Company Profile

Introduction

Automation Concepts is a multidisciplinary Company based in Randburg, South Africa.

We provide a one-stop service to the customer, especially for fast track project implementation. Key aspects are conceptual design, engineering, procurement, and construction management, commissioning, operating and post-commissioning care.

Automation Concepts is committed to long-term relationships with clients based on excellence, professionalism, honesty as well as shared expertise; and to provide total quality, cost effective and timely engineered solutions and products to satisfy the business needs of it's customers.

We profess good management, dedicated leadership, integrity, efficiency and the use of appropriate and cutting-edge technology to yield the most cost effective results in all assignments.

Our truly flexible approach allows a quick turn-around of Projects with no compromise to quality.

The ranges of services offered are:

- Electrical Engineering Services.
- Instrumentation Engineering and Automation.
- Project Management
- Construction
- Electrical Product Distribution.

Proven Performance Record.

During the past decade **AUTOMATION CONCEPTS** has successfully completed a number of projects covering various disciplines such as Project Management, Engineering, Design, Installation / Construction and Commissioning.

See our **Project History Schedule** for further details.

Bulk Material Handling:

We have an excellent track record in the Bulk Material Handling environment, which is a complex and involved Industry. With the co-operation of complementary professionals on multi-disciplinary projects we have achieved remarkable success to the satisfaction of all our clients.

Other:

We have also over the past years excelled in other industries, such as, Petrochemical, Pulp and Paper, Food and Beverage, Iron and Steel, Mining, and Power Generation.

General:

The recipe for our success is embodied in the following:

- Technical excellence in engineered solutions,
- Strict management control of budgetary constraints,
- Strict management control of project planning,
- Strict management control of work quality,

Supply, Construction, Installation & Commissioning:

Since 1991 **Automation Concepts** general scope of work has covered various issues such as the supply of construction materials and main electrical equipment. Installation of electrical, instrumentation and automation equipment. Testing of supplied and free issued equipment as well as system commissioning.

The following items are the general make up of the equipment supplied.

- HV and LV Power Reticulation, (overhead lines and switch yards)
- MV switchgear
- LV switchgear
- MCC (Motor Control Centers)
- Transformers
- Electrical and Instrument Control panels
- PLC Control panels
- Lighting and small power distribution systems,
- Cable support systems,
- Factory and Plant Fire Detection / Alarming and Control,

Designed and Manufactured in house

- Small Power distributions boards
- Lighting boards – indoor and outdoor
- Field junction boxes – electrical
- Field junction boxes – instrumentation, digital and analogue
- Instrument field supports and brackets
- Lighting supports and brackets
- Small PLC panels
- MV switchgear
- MCC (Motor Control Centers)
- Fire Detection field marshalling and controllers
- Factory and Plant Fire and alarm control centers
- Factory and Plant Control Consoles

Contracted out to Switch Board Manufacturers – (all manufacture is managed in conjunction with us)

- MV and LV Power Reticulation, switch yards or switch boards,
- MV switchgear,
- LV switchgear,
- MCC (Motor Control Centers),
- Transformers - Distribution and Power,
- Power factor correction units,

Company Structure:

The Company structure that has evolved into its present day shape has been an on going process from the day of inception and has given all the employees the feeling of growth and strength.

The company management structure operates as an integrated team sharing responsibility and workload. This has proved to be a working solution allowing Management to back up each other resulting in Client confidence and peace of mind.

The Company is structured to operate efficiently by being able to expand on its formed structure to accommodate project workloads. Using experienced, well known and reliable contract labour when required, supports this.

The company has been fortunate with the make up of its Management team in that all key personnel are multi-disciplined and skilled in various aspects of project work, such as, engineering, design, construction and commissioning. This has been of huge advantage to our company to have such experienced, multi-disciplinary, hands on individuals on the Management team. This allows us to give our clients the performance they demand of us.

Please see the attached Company Organogram.

Construction Division:

CONSTRUCTION MANAGEMENT AND PROJECT MANAGEMENT

This division was set up to ensure that this organization offers total engineering solutions.

The services provided are:

- Budget and detailed estimation
- Contract administration
- Procurement
- Construction Management
- Construction
- Commissioning

Automation Concept's construction division is well equipped with construction equipment and tools. This has been built up over the many years of site construction.

Site Facilities

The main equipment such as site facilities, namely site offices, workshops, and ablution, are owned by the company, however if further facilities are required it is common practice for the company to extend the facilities with the hiring of the required equipment.

Tools

The Company owns almost all specialized tools. Should any more be required for specific applications, these are normally hired or bought out.

Company Vehicles

The company owns all vehicles used by the company, however from time to time the company makes use of specialised transport companies to transport large equipment such as HV switchgear, MCC's, transformers etc. The company vehicle breakdown is as follows:

- Company cars are allocated to each member of management, (7 vehicles)
- Site foremen are issued with company trucks to transport himself and his team. More than 1 vehicle per project may be allocated. (8 vehicles)
- The Procurement and Stores departments-used for the collection and delivery of materials. (3 vehicles).

Company Finance:

Automation Concepts is a sound and financially solid company with an excellent track record with all suppliers and bankers. If information is required such as a list of our creditors / suppliers with their details and our banking details, this can be made available. However please be advised that this information is very confidential, and will only be made available to the highest level. This is standard company policy and is enforced for our own safety and security.

Project History Schedule:

The following is a short list of Electrical and Instrumentation Projects executed by Automation Concepts

Client: Krupp Mining and Materials Handling
Company: Medupi Power Station - Eskom
Year: 2010 - 2012
Project Name: Coal Stockyard Conveyors
Nature of Work: Design (E&I),Supply, Construction, and Commissioning
Project Value: R 36 000 000.00
Contact Name: **Mr C.Herbert**
Contact No: 011-236 1000 / 082 650 1000

Client: Ckit Africa
Company: Grootvlei Power Station - Eskom
Year: 2010 - 2011
Project Name: Bypass Conveyor Project
Nature of Work: Design (E&I),Supply, Construction, and Commissioning
Project Value: R 6 000 000.00
Contact Name: **Mr D.Reddy**
Contact No: 083 501 2113

Client: Basil Read
Company: Transnet – Saldhana
Year: 2010 - 2011
Project Name: Reverse Osmosis Plant
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 10 500 000.00
Contact Name: **Mr Sean Loriston**
Contact No: 083 553 7024

Client: Sandvik Material Handling
Company: Assmang Kumani Iron Ore Mine
Year: 2010 - 2011
Project Name: KEP Stacker and Reclaimer
Nature of Work: Design (E&I),Supply, Construction, and Commissioning
Project Value: R 11 000 000.00
Contact Name: **Mr Marius Prinsloo**
Contact No: 011 455 5581

Client: Krupp Mining and Materials Handling
Company: Kumba Resources – SEP Project Sishen
Year: 2009 - 2010
Project Name: Sishen Product Reclaimer
Nature of Work: Design (E&I),Supply, Construction, and Commissioning
Project Value: R 6 000 000.00
Contact Name: **Mr C.Herbert**
Contact No: 011-236 1000 / 082 650 1000

Client: Ckit Africa
Company: National Ports Authority – Agriport Maydon Wharf
Year: 2009 - 2010
Project Name: Bulk Material Handling System
Nature of Work: Design (E&I),Supply, Construction, and Commissioning
Project Value: R 4 000 000.00
Contact Name: **Mr D.Reddy**
Contact No: 011-450 1432 / 083 501 2113

Client: Senet / Kumba
Company: National Ports Authority – Port of Saldhanha
Year: 2004 – 2009
Project Name: Iron Ore Terminal Conveyor System
Nature of Work: Design ,Supply, Automation, Construction, and Commissioning
Project Value: R 60 000 000.00
Contact Name: **Mr. S. Wilson (Senet)**
Contact No: 011- 608 2141 / 082 550 4823
Contact Name: **Mr. Mike Nel (Kumba)**
Contact No: 083 609 1369

Client: Sandvik Austria
Company: National Ports Authority – Port of Saldhanha
Year: 2008
Project Name: Iron Ore Stacker Reclaimer 4
Nature of Work: Design ,Supply, Automation, Construction, and Commissioning
Project Value: R 25 000 000.00
Contact Name: **Mr. C. Swanepoel (Sandvik)**
Contact No: 0825967646

Client: Krupp Mining and Materials Handling
Company: Kumba Resources – SEP Project Sishen
Year: 2006 - 2007
Project Name: Sishen Stacker Reclaimer Project
Nature of Work: Design (E&I),Supply, Construction, and Commissioning
Project Value: R 18 500 000.00
Contact Name: **Mr L.Birkmeir / Mr C.Herbert**
Contact No: 011-236 1000 /082 554 4387 / 082 650 1000

Client: Krupp Mining and Materials Handling
Company: Majuba Power Station - Eskom
Year: 2007 (Current Project)
Project Name: Ash Disposal Facility
Nature of Work: Design (E&I),Supply, Construction, and Commissioning
Project Value: R 15 000 000.00
Contact Name: **Mr C.Herbert**
Contact No: 011-236 1000 / 082 650 1000

Client: Sandvik Austria-Voest Alpine Material Handling
Company: Assmang Bkm Iron Ore Mine
Year: 2007-2008
Project Name: Bkm Assmang Machines-Stackers and Bucket Wheel Reclaimers
Nature of Work: Design (E&I),Supply, Construction, and Commissioning
Project Value: R 36 000 000.00
Contact Name: **Mr C.Watkiss**
Contact No: 082 568 3131

Client: AngloGold Ashanti Limited
Company: Geita Gold Mine
Year: 2006
Project Name: Nungwe Bay Pumping Station (Lake Victoria)
Nature of Work: Design (E&I),Supply and Commissioning
Project Value: R 4 000 000.00
Contact Name: **Mr T.K. Owusu**
Contact No: +(255) (0) 7873 90851 (Tanzania Mobile)

Client: Senet / De Beers
Company: De Beers – Finsch Mine
Year: 2004 – 2005
Project Name: Underground Crushing System
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 4 000 000.00
Contact Name: **Mr. C. Buys (Senet)**
Contact No: 011- 609 2143 / 082 321 3911
Contact Name: **Mr. Vits Maharaj (De Beers)**
Contact No: 011- 374 7782 / 083 456 7134

Client: Krupp Mining and Materials Handling
Company: National Ports Authority – Port of Durban
Year: 2004 – 2005
Project Name: Agriport Travelling Shiploader
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 3 200 000.00
Contact Name: **Mr. C. Watkiss / Mr C.Herbert**
Contact No: 011-236 1000 / 082 568 3131/ 082 650 1000

Client: Roymec
Company: Anglo Coal - Kriel Colliery
Year: 2003
Project Name: Kriel Colliery Interlinking Overland Conveyors
Nature of Work: Design ,Supply, Automation, Construction, and Commissioning
Project Value: R 6 000 000.00
Contact Name: **Mr. P. Smith / Mr M. Royal**
Contact No: 011 804 5123 / 082 806 3805

Client: Mechanical and Analysis and Engineering and Design
Company: Chemwes Gold Mine
Year: 2002 - 2003
Project Name: Chemwes Enviromental Remediation Project
Nature of Work: Automation of Plant
Project Value: R 5 000 000.00
Contact Name: **Mr. D. Norton**
Contact No: 011 807 5009

Client: Exclusive Technical Services
Company: Geita Gold Mine - Tanzania
Year: 2002 – 2003
Project Name: Secondary Crushing System
Nature of Work: Design,Supply, Automation, Construction, and Commissioning
Project Value: R 5 000 000.00
Contact Name: **Mr. J. Wismer**
Contact No: 011-455 5581 / 082 893 1848

Client: Senet
Company: Optimum Colliery – Bhp Billiton
Year: 2002 – 2003
Project Name: Kwagga Rom Tip Project
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 6 000 000.00
Contact Name: **Mr. S. Wilson**
Contact No: 011- 609 2143 / 082 550 4823

Client: Krupp Mining and Materials Handling / Siemens
Company: National Ports Authority – Port of Saldanha
Year: 2002 – 2003
Project Name: Iron Ore Shiploaders
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 4 100 000.00
Contact Name: **Mr. C. Watkiss / Mr C. Herbert**
Contact No: 011-236 1000 / 082 568 3131 / 082 650 1000

Client: Avmin
Company: Feralloys Limited Chrome Division
Year: 2001
Project Name: Crushing and Screening Plant
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 1 200 000.00
Contact Name: **Mr. H. Ntshangase**
Contact No: 011-634 9111 / 082 444 5992

Client: Krupp Mining
Company: Samancor
Year: 2001
Project Name: Samancor Side Arm Reclaimer
Nature of Work: Supply, Automation, Construction and Commissioning
Project Value: R 1 800 000.00
Contact Name: **Mr. R. Reiman / Mr C. Watkiss**
Contact No: 011-236 1000 / 082 568 3131

Client: JHDA
Company: Van Dyk's Drift Colliery
Year: 2000
Project Name: Slurry Disposal Plant
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 2 500 000.00
Contact Name: **Mr. Jim Harrison / Mr P. Ramsden**
Contact No: 011-465 6690 / 083-277 6634 / 083- 309 0867

Client: Ingwe
Company: Middleburg Mining Services
Year: 2000
Project Name: Coal Blending Stockyard
Nature of Work: System Upgrade, Supply, Construction, and Commissioning
Project Value: R 500 000.00
Contact Name: **Mr. Kobus Nel**
Contact No: 082-901 0441

Client: JHDA
Company: Koornfontein Colliery
Year: 2000
Project Name: Coal Flotation Plant
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 2 000 000.00
Contact Name: **Mr. Jim Harrison / Mr G. Vowles**
Contact No: 011-465 6690 / 083-277 6634 / 083- 229 4044

Client: Krupp Mining
Company: Middleburg Mining Services
Year: 2000
Project Name: 90 000 Ton Hartesbeesfontein Coal Handling System c/w Associated Conveyors, HT, (33kV to 550V MCC's), 2 x Stackers and 2 x Reclaimers
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 6 500 000.00
Contact Name: **Mr. Bogdon Galas/Mr Cliff Watkiss**
Contact No: 011-236 1000 / 082-568 3131

Client: Krupp Mining
Company: AAC
Year: 1999
Project Name: Tailings Material Handling System – Namakwa Sands
Nature of Work: Supply, Construction, and Commissioning
Project Value: R 2 000 000.00
Contact Name: **Mr. Ronald Coetzer/ Mr Cliff Watkiss**
Contact No: 083 -233 7903 / 082-568 3131

Client: WEVS
Company: Bushkoppies Water Purification Works (GJMC)
Year: 1999/1998
Project Name: Water Purification
Nature of Work : Supply, Construction, and Commissioning
Project Value: R 4 500 000.00
Contact Name: **Mr.Bill Hawkiston**
Contact No: 011-407 6585 / 082-494 9098

Client: JHDA
Company: Optimum Coal Limited
Year: 1998 / 1999
Project Name: Coal Flotation Plant
Nature of Work: Design, Supply, and Construction
Project Value: R 1 700 000.00
Contact Name: **Mr. Jim Harrison**
Contact No: 011-465 6690 / 083-277 6634

Client: Northern Platinum Mine
Company: LTA Process
Year: 1999
Project Name: Pneumatic Conveyer System
Nature of Work: C & I, Supply, Construction and Commissioning.
Project Value: R 250 000.00
Contact Name: **Mr. Peter Harling**
Contact No: 011-329 3000