MEGA CONTROL SYSTEMS


Mega Control Systems was established as an engineering company located in Johannesburg, South Africa. Our traditional business model is based on the design, manufacture and supply of electrical and mechanical components for the railway industry in South Africa. We have been a presence in the transport industry since acquiring GH Engineering in 2013, with our major client being Henred Fruehauf. Based on the decision of the company to increase our diversification into other markets, we are proud to have initiated a working relationship with Fedglass, as our partner in the construction industry.

## CロMPANY DETAILS

## Business Information

- Website: www.megaconsys.com
- Address: 246 Davidson Rd, Wadeville Ext 1, Germiston, South Africa, 1422
- Email: Johnny@megaconsys.com; David@megaconsys.com
- Tel: +27 (011) 8245670
- Directors: J.A. Carlse
- Employees: 15
- Established: $1^{\text {st}}$ May 1998
- Quality Assurance: ISO 9001-2000
- BBBEE Contribution: Level 1


## Management Directory

- Johnny Carlse, Managing Director
- Lindy Le Roux, Human Resource Manager
- Andrie Van Wyk, Procurement Manager
- David Jansen, Sales Director


## CロMPANY STRATEGY

- Purpose To be a leader in the engineering sector by providing enhanced services, excellent products and profitability.
- Vision To provide quality supply and service that exceeds the expectations of our esteemed customers.
- Mission statement To build and maintain long term relationships with our customers and clients and provide exceptional customer services by pursuing business through innovation.
- Core values We believe in treating our customers with respect and faith We grow through creativity, invention and innovation. We integrate honesty, integrity and business ethics into all aspects of our business functioning
- Goals National expansion in the sphere of engineering and to develop a strong base of key customers Increase the assets and investments of the company to support the development of services into new markets To build on our good reputation in all sectors of our business involvement and become a key player in those industries...


## EXPERIENCE

Approximately 17 years ago，Mega Control Systems，in cooperation with Transnet Engineers，completely re－designed the OHTE Track Switches employing Silicon Rubber Insulators as opposed to Porcelain Insulators，thereby eliminating the problem of theft． All Track Switches currently employed are Mega Control Designed．

The acquisition of GH Engineering and their sta ffcompliment has afforded us the opportunity to service the transport and trucking industry through GH Engineering＇s longstanding relationships with transport companies．We have dutifully grown the business in this sector since 2013.

Since 2015，we have entered the construction space with Fedglass，our partner in producing and supplying stainless steel fixtures for the glass and construction industry． This partnership is one that is thriving，and the array of differing components in production continues to increase every year．

## SロロPE ロF WロRK

Mega Control Systems undertakes to：
．Design，Manufacture and Supply OHTE，rolling stock and other railway infrastructure components according to the customers specifications
－Manufacture and engineer trailer components such as flanges，bush＇s and shafts for the trucking and transport industry
－Mass produce polished stainless steel components for the construction and property development sector
．Manufacture and supply stainless steel fittings for the glass industry

## PRロلECTS

## Gautrain Project

The Weight Tensioning Device (25Kv AC) was supplied by Mega Control Systems for the Gautrain line Infra-Structure (Total 220 Units). The Gauteng Rapid Rail Integrated Network extension project (Gautrain 2) is scheduled to beginin 2022. The proposed expansion of the Gauteng Rail Network will add 146 km of rail to the existing Gautrain system, incorporating 19 new stations. In partnership with Tractionel, we foreseethe same symbiotic relationship as was the case in building the first phase of the Gautrain. MegaControl Systems builds the OHTE and Tractionel installs it on the Gautrain railway lines. In addition, we have supplied a total exceeding 300 units of the Weight tensioning Device for Transnet's Rail Infrastructure Network. We hold Tooling in various Dies \& Jigs for both Infra-Structure and Locomotive Applications.

## The Gibela Rail Project

On Thursday, 25th October 2018, the President of South Africa, Mr Cyril Ramaphosa officially inaugurated South Africa's flagship train manufacturing plant in Ekurhuleni, the first of its kind on the African continent.

This plant is where Gibela will build The Passenger Rail Agency of South Africa' new fleet of 580 modern commuter trains.

We were approached to design and manufacture the Change-Over Yard Track Isolating Switches (25KVAC - 3KVDC). Seven of these switches were built and are currently in service. The test facility at Gibela is currently using six Earthing Switches completely designed, manufactured and installed by Mega Control Systems and is fully operational.

## Fourways Mall Redevelopement Project

A massive development to make Fourways Mall the second largest mall in South Africa - and the largest in the Gauteng province, broke ground in 2016. The project is being built through Accelerate properties, which will see the expansion of Fourways Mall - joining with other centres in the area - to cover 175,000 square metres under one roof. Mega Control Systems has supplied and continues to supply, polished stainless steel components on a mass produced scale, to the building contractors installing the glass and toilet fixtures for this project.

## Transnet

Mega Control Systems pioneered the replacement of porcelain with silicone insulators for the Track Sectioning Switches used by Transnet. The technology was put to use in the new MegaControl Systems design of the Track Sectioning Switches. We have supplied approximately $10003 \mathrm{kvDC} \& 500$ 25kvAC units of the Track Sectioning Switches across the Transnet Rail Network thus far.

## Railroad Association of South Africa

The Railroad Association of South Africa approached us in August 2018 to become a member of the Association, due to our experience and track record in the rail industry. We have since joined the Association, with the intent to service multiple Southern African countries as well as the broader African continent.

Please refer to www.megaconsys.com for further details.

## MACHINERY \& EQபIPMENT

Our workshop has CNC Milling and Turning machines as well as a multitude of older conventional machines, accompanied by qualified and dedicated artisans.


- Manford MH320 12" CNC Lathe
" Manford MSL2000 10" CNC Lathe
- MAnford TC-20 8" CNC Lathe
- Yam CNC Mill ( $400 \times 800$ )
- Bridgeport Mill (230 x 1100)
- Bridgeport Mill (240x 1100)
- Bridgeport Series / Mill (240 x 1100)
- Bridgeport Mill (240x 1100)
- Ajax Cleveland Mill (350 x 1800)
- Nicolas Correa Mill (340 x 1400)
- King Rich Mill (310 x 1400)
- Almetall Mill (600 x 730)
- Burdett VS Slotting Machine
- Modig Heavy Duty Drill Press
- SASS Torino Drill Press
- Kitch Drill Press
- Rexon Heavy Duty Drill Press RDM 150-A
- Mitco Drill Press
- 20 TON Press
- Guangzhou Lathe
- H. Ernault Somua Cholet 550 Lathe
- Graziano UCIMU Lathe
- Tos Trencin Lathe
- Heinemann RB60M Lathe
- Graziano Lathe
- Tos Trencin Lathe
- Baoji C56266C Lathe
- Everrising S-250HF Saw
- Shen Jang S-12AA Saw
- Fukuta Saw
- Leten Band Saw LCM 300A
- Full Mark FKV-40A Band Saw


## REFERENCES

BI FENUEHAUF
Transport Industry Gerhard Nortje

## F)FEDGLASS

Construction \& Glass Industry
Jurgen Evert

Railway Industry
Leon Moolman

Since 1998 Mega Control Systems have manufactured and supplied components for various Transnet Locomotives， ranging from the 7E to 11 E electric locomotives．We supply Diesel locomotive parts as well and we are regularly consulted during the service and refurbishment of these locomotives．



## ロVERHEAD TRACK EqUIPMENT

Approximately 17 years ago, in cooperation with Transnet Engineers, Mega Control Systems completely re-designed the OHTE Track Switches employing Silicon Rubber Insulators as opposed to Porcelain Insulators, thereby eliminating the theft problem. All Track Switches currently employed on South Africa's railway network are Mega Control's design. We also supplied the change-over yard equipment for The Gibela Project, from conception to design to manufacturing. Apart from this, we supply a variety of OHTE in the sector.


## ロVERHEAD TRACK EqUIPMENT

## Change-Over Yard Switches and Earthing Switch at The Gibela Factory



Gibela train manufacturing plant


Delivery of Change-over Yard Switch at Gibela


Change-over Yard Switch on-site at Gibela


Earthing Switch


Change-over Yard Switch being installed

## TRAILER CロMPロNENTS

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## GLASS \& CロNSTRUCTIロN FIXTURES

In 2015, Mega Control Systems entered the construction industry with Fedglass, our partner in producing and supplying stainless steel fixtures for the glass and construction industry. This partnership is thriving, and the array of differing components we produce, continues to increase every year.


## GIGNALLING E®பIPMENT

Mega Control Systems manufacture railway signalling equipment as used in the Transnet rail infrastructure.


