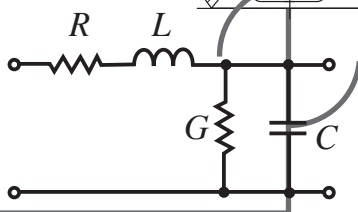


Electrical Engineering

Leading-edge design,
installation and
commissioning

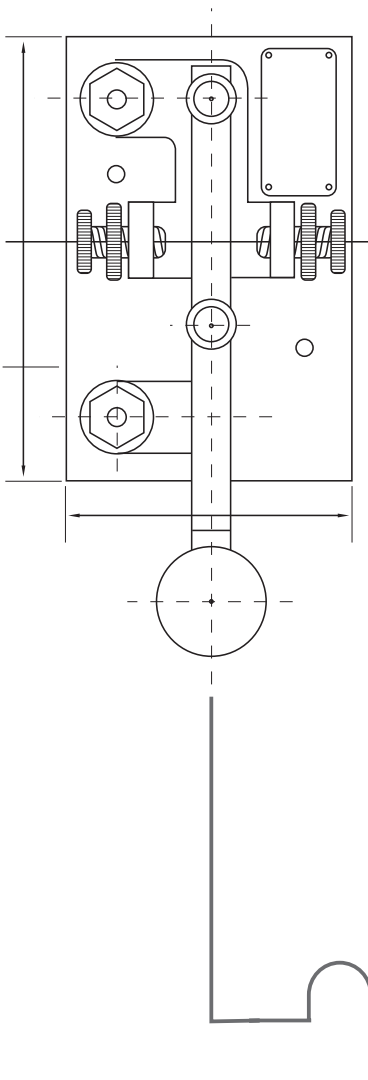


RAIL PARADIGM

Electrical Engineering

The electrical engineering landscape is faced with a myriad of challenges. Current assets and technologies are either too old or obsolete. Too few electrical contractors and sub-contractors have high-level installation capability. There is a shortage of experienced and expert design and construction engineers and technicians. No formal feeder system exists.

Despite this, there has been a recent move towards embracing the latest technology. And through sizeable civil and electrical projects, it's anticipated that significant infrastructure development will soon emerge. As a company that is exceedingly competent in high-level electrical engineering, **Rail Paradigm** is an ideal infrastructure development partner.



Solutions

We are proficient in the intelligent design, installation and commissioning of low, medium and high voltage systems across the entire infrastructure spectrum. In every project we undertake, full safety accreditation and on time, within budget delivery are non-negotiables.

- Feasibility studies
- Project management
- Planning and design
- Construction and installation
- Testing
- Commissioning
- Certification
- Regulatory investigations (Acts 16 and 85)

Capabilities

Our professional accreditation and our capability to do high-level integrated turnkey projects, manufacturing, assembly, construction, installation and commissioning set us apart from other electrical contractors and sub-contractors in South Africa.

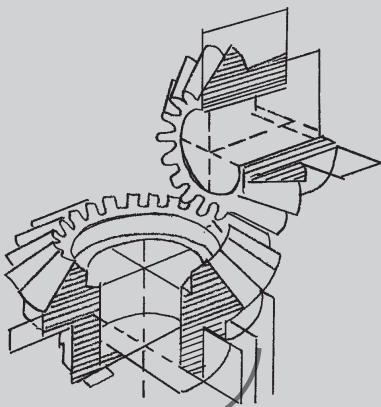
- Planning and design of all types of systems as well as communication equipment, OHTE transmission lines, substations, generators and distribution systems
- Assembly, manufacturing and installation of all types of electrical and distribution systems
- Testing and commissioning of all types of electrical systems
- Signing off on safety-accredited systems as well as interlocking
- Maintenance of low, medium and high voltage systems
- Training in electrical systems
- Stringing / transmission lines
- Turnkey installations

Services

We have professional ECSA-accredited* engineers who are experienced in Civil, Electrical and Electronic engineering. All work is done in compliance with international and local specifications and standards as well as local legal requirements. While our operations are currently focused in the main on South Africa, we are progressively seeking projects throughout Africa and the Middle East.

- High-voltage transmission lines and stringing
- Specialised insulation refurbishment
- Industrial design and installation
- Stand-by generators and UPS design
- OHTE
- Benchmarking
- Traction power supply
- Safe working procedures

* Engineering Council of South Africa



Capacity

With a combined experience of 200 years, we have numerous professional registered engineers and technologists with the Engineering Council of South Africa (ECSA) as well as senior members of the South African Institute of Electrical Engineers (SAIEE).

As a professional construction with industry-leading partners, we undertake projects up to CIDB Level 9. Our installation team has extensive experience in transmission and railway lines, substations, electrical structures and roads. Our previous projects include:

- 850km of 50kV power transmission lines
- Substation and OHTE projects covering 3kV DC, 25kV AC and 50kV AC within the rail environment
- Design and installation of automation systems
- Doubling of a railway line between Eerste Fabrieke and Greenview stations, including design and project management
- COC for all buildings as well as facility rectification works

Partner with African leaders

Rail Paradigm is a specialist construction engineering firm that blends local experience with global expertise. Our strategic alliances on the continent and around the world enable us to design, execute and maintain wide-ranging projects in line with world-class standards. And we do so in ways that promote the greater socio-economic development of the communities we touch.

Delivering end-to-end
electrical solutions at the
highest level – on time
and within budget

For more information on how
we can help you engineer
the future, visit our website at
www.rail-paradigm.com

