



COMPANY PROFILE

RAISING THE BAR IN TERMS OF QUALITY, PERFORMANCE AND RELIABILITY.



(Pty) LTD
TRITECH INDUSTRIES



ABOUT TRICECH SA

Tritech was started by two directors namely:
Martin Magobolo and Robbie Rossi



Our business started with just the repairs / services of the different types of electrical motors that we are able to offer to our clients in 2003. Repairing / Restoring these commodities gave us a great insight as to what the critical design failures were in current available motor products as well as what could be implemented to suit our harsh underground mining conditions better to achieve a product that was designed to last longer and adapt to our countries specific needs.

In 2006 we embarked in getting involved in the local manufacturing of brand new fabricated steel frame electrical motors which conform to local SABS and ISO standards

The demand for our products have seen a significant increase in the last few years as almost all the local companies who in the past produced these products were closed down due to the cheaper imported motor option that our customers had access to. We managed to achieve our goals of not only producing a superior motor range but at a more competitive price too.

We currently supply most of the private scrapper winch manufacturing companies and our motor products are seen on every mining house in our country.

We are a team of young, dynamic and inspirational engineers and entrepreneurs set on changing the way we built and manufacture Proudly South African Products. In fact one of the mining groups engineering department has recently asked us to re-write the mines Specifications Standards on the manufacturing of Fabricated All Steel Winch Motors for their entire mining group.

We are proud of our achievements thus far, and strive to continue to update and improve on our range of locally manufactured products by raising the bar to new heights in terms of quality, performance, reliability and a lower cost of ownership design by only manufacturing highly efficient, energy saving electrical motors.

Tritech has appointed and approved several engineering repair companies that specialize in the repair and refurbishment of our uniquely designed and manufactured Tritech product range.

We will publish a list of accredited companies that will specialize and have ex-stock levels of our product lines available to replace and refurbish our entire line of products and services.

These agencies will have the ability to repair and refurbish our products at a fraction of the cost of other "Non Accredited" repairing houses.

They will also be responsible to ensure that our strict quality standards are adhered to prolong the lifespan and cost of ownership of our products to the various end users These agencies will be able to render a specialized repair and refurbishment service to our product line to maintain the integrity and quality guarantees of our products and services.



International
Organization for
Standardization



BBBEE CREDENTIALS



Tritech Industries is an Accredited Level 2 Black Empowerment Engineering Production Organization of which the majority of the shareholding is in the hands and needs of our “Historically Disadvantaged South African’s”

We create employment opportunities and have a fund in place that promotes the education and skills development of our people to enable them to develop new industry skills and to motivate them to achieve industry success.

Besa/Tritech is committed to the spirit of transformation and ultimately the empowerment of all its shareholders. As a company, we have dedicated ourselves to actively promote transformation and to contribute towards our governments aims and objectives regarding our BBBEE Policies.

We have assisted in establishing and maintaining 100% “Black Owned Enterprises” subsidiaries companies and have awarded lifetime contracts to these companies to render services to our company and engineering companies alike.

- Tritech supports and complies with the Employment Equity guidelines as prescribed by the Department of Labour. We believe in equality and fairness in the workplace.
- Ultimately, our aim is to have a workforce fully representative of the South African community, including gender equality, on all occupational and managerial levels. Skills development is furthermore an ongoing commitment. Besa/ Tritech will also focus on providing “HDSA’S” at an executive level, with the tools to further develop their professional skills.

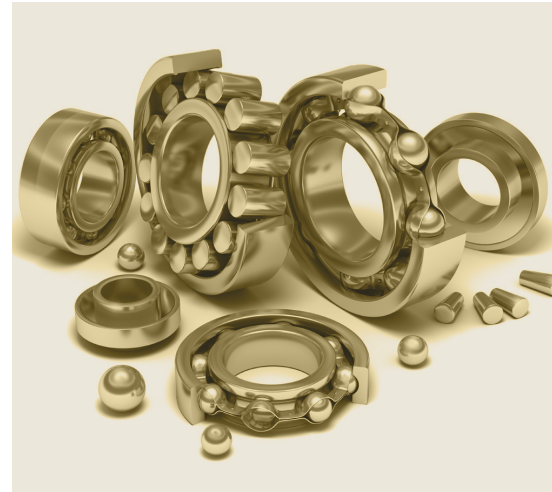
- Our policy covers the advancement (through training, education and skills development) of historically disadvantaged employees, and covers our commitment to actively recruit suitably qualified or skilled people from historically disadvantaged backgrounds as new positions become available.



We believe that preferential procurement is a valuable tool in developing and sustaining our BEE policies, and its contribution towards the economy. Preferential procurement aims to address supplier opportunities for BEE compliant companies. Therefore we seek to ensure that, wherever possible, products and services are secured from companies that are BEE compliant, without compromising quality and standards.

We contribute/donate 2 % of our annual profits to fund organizations that serve the community that we live and work in, we strongly believe in making a difference in the community that we serve.

- Government & Industry's Drive to Sustain & Support Broad Based Black Empowerment Companies & Products through Preferential Procurement & Contractual Policies that are currently in place!
- Cost effective market penetration strategies!
- No Importing Shipping Time Lead Times and exchange rate fluctuations as our motors are 100% manufactured in-house.



OUR MANUFACTURING CAPABILITIES

We have a fleet of cutting edge technologically enabled CNC computerized machinery and equipment as well as convectional machinery to ensure that world class workmanship expectations are exceeded. Our CNC Programmers & Operators are fully trained and certified to do such specialized work.

- Besa has all the facilities and equipment needed to specialize in our field of manufacturing and repairs of products & services and boasts a large fleet of in-house Induction Foundry and Testing facilities that are of the latest technologies available worldwide.
- Besa & Trittech our subsidiary companies employ more than 60 workers in our dynamic team of experts that are trained and qualified to render a superior product line of locally manufactured goods and services.
- Besa has recently purchased the old Marthinusen & Coutts Building in 3rd Street, Welkom to expand our operations and to increase our current capacity of the proudly South African
- Products & Services that we are so well known for. This expansion plan will mark our company as one of the largest manufacturing companies in South Africa and will aim to train and employ another 100 staff members by the end of 2020.
- Trittech will also exclusively be the O.E.M manufacturing house of the renowned Trittech Industrial Product Line & Services.
- Trittech will be one of the first companies in South Africa to embark on such a tremendously large capacity of locally manufactured products.

We are very excited to pursue this expansion venture and believe that you will also be pleased to see this forward step towards our governments aim's and objectives to increase jobs and skill developments in our own country. The success of this venture, of course depends largely upon our own efforts, but we are equally dependent upon the support of all our valued customers, we are counting on your support and co-operation to make this adventure a success.



OUR PRODUCTS STEEL FRAME MOTORS

Manufactured in South Africa (PROUDLY SOUTH AFRICAN)

STEEL FRAME ELECTRICAL MOTORS RANGE

SPECIFICATIONS								
MOTOR SIZES	VOLTS	ENCLOSURE	FRAME SIZE	INSULATION CLASS F/H	EFFICIENCY	FREQUENCY	FRAME MATERIAL	MOUNT
7.5kw - 4 Pole	525/380 V	IP55	132M	F/H	90.1	50 Hz	ALL STEEL	B5
11kw - 4 Pole	525/380 V	IP55	160M	F/H	91.4	50 Hz	ALL STEEL	B5
15kw - 4 Pole	525/380 V	IP55	160L	F/H	91.4	50 Hz	ALL STEEL	B5
22kw - 2 Pole	525/380 V	IP55	180M	F/H	93.1	50 Hz	ALL STEEL	B5
22kw - 4 Pole	525/380 V	IP55	180L	F/H	93.2	50 Hz	ALL STEEL	B5
37kw - 2 Pole	525/380 V	IP55	200L	F/H	92.8	50 Hz	ALL STEEL	B5
37kw - 4 Pole	525/380 V	IP55	225 S/M	F/H	93.9	50 Hz	ALL STEEL	B5
55kw - 6 Pole	525/380 V	IP55	280M	F/H	93.8	51 Hz	ALL STEEL	B5
75kw - 6 Pole	525/380 V	IP55	315S	F/H	93.8	52 Hz	ALL STEEL	B5

Our Products Include:

- IE3 Energy Efficient Three Phase all steel electrical motors(Mining applications)
- Voltage 380-525v
- Frequency: 50Hz
- Insulation Class: F or H
- Degree of Protection IP 55
- Mounting B3-B5
- Enclosure Material -All Steel
- Number of Poles: 2, 4, 6
- Bearings: C3 clearance, Manufactured As per Customers requirements
- Varnish application only VPI Method
- Copper bar Rotors
- Fully Dynamometer load testing.



OUR PRODUCTS ALTERNATORS

Manufactured in South Africa (PROUDLY SOUTH AFRICAN)

Low voltage generators for diesel and gas engines. Industrial applications series. 3 phases, 4 poles, 1500/1800 rpm IEC frame size 180-280 15 - 250 kVA. Our new range of low voltage generators is developed to better fit market demands and is available in IEC frame sizes 180 to 200. The generators are ideal for supplying continuous, standby or emergency power for residential buildings, commercial premises, hospitals, schools, telecommunication facilities, industrial sites and mines.

PERFORMANCE DATA

Type	380 V kVA	380 KW	400 V kVA	400 KW	415 V kVA	415 KW	440 V kVA	440 KW		1 phase 220-240 V kVA kW	Efficiency (400V) %
TR180A	15	12	15	12	15	12	14	11.2	9	7	80.7
TR180C	25	20	25	20	25	20	24	19.2	15	12	82.7
TR200B	49	50	50	40	50	40	48	38.5	30	24	88.87
TR250B	120	96	125	100	125	100	115	92	75	60	90.54
TR280B	235	188	250	200	250	200	220	176	150	120	92.55



OUR METAL FOUNDRY DIVISION

Our Foundry division consists of ferrous and non-ferrous induction melting facilities.

- Ferrous metals such as cast steel, alloy steel, cast iron etc. are melted in a series of Hi-Tech induction furnaces with a melting capacity of 500kg per cast and we can produce up to 20 casts per day shift and additional required capacities can be achieved in a night shift operation.
- Non-Ferrous metals such as Phosphorus, Bronze, Gunmetal, Leaded bronze, Brass and aluminium are melted in a fuel fired pit furnace with a similar melting capacity as our Induction Furnaces.
- The Foundry Division is overseen by a qualified metallurgist and a dedicated experienced team.
- Our In House Foundry Division has all the spectrometers and professional machinery and equipment to expertise in this field of industrial manufacturing services and render a superior quality cast.
- Our Foundry will be able to accommodate any of the customer's requirement in the composure of the metals needed to produce a product for a specific requirement and working environment.
- This Foundry Division dedicates its pride and quality management strategies to comply with the ISO Standard of quality practices.

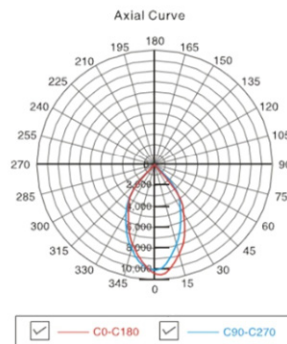


OUR SOLAR PRODUCTS

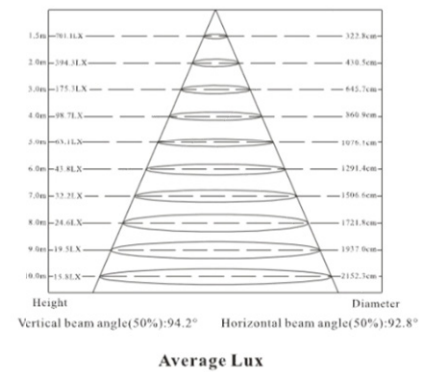
Industrial LED Lights LED HIGHBAY



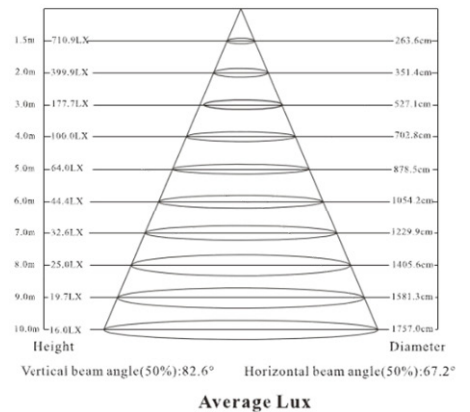
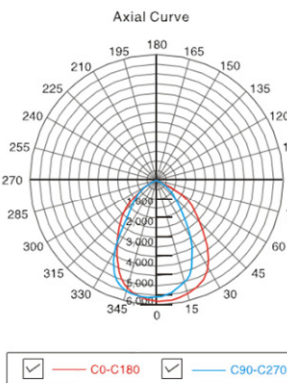
Light Distribution Curve:



Lux Distance Curve:



LED FLOODLIGHT



STRIP LIGHTS USED UNDERGROUND



Part No—YS 2835 144LED/m 110v/220v	2835 Brand TRITECH EPISTAR—DRIVER 110/220 volts
2835 Size	2.8mm x 3.5mm x 1.6mm
PVC features	ROHS certificates and anti-UV anti-Dust
Input Voltage	110v AC (wrong voltage will cause damage forever)
Frequency Range	50Hz~60Hz
Power Factor	>0.9
Power/meter	10~14watts/meter
Ampere/meter	52MA/meter
Output Voltage	1meter/cut and 1meter as 1 units
Cutting Units	144leds/m
LED Quantities/meter	20lm/Pc
Led Lumen/pc	800~1000lm/meter
Led strips Initial Flux	
View Angle	120°
1 plug can power at most	50 meters (but please don't power on when it be rolled)
Illuminance Uniformity	>0.5
Colour Temperature	6000K~6500K
Colour Rendering Index	Ra>70
Working Temperature	-10℃ +50℃
Storage Temperature	-10℃ +60℃
Working moisture	40%~70%RH
waterproof class	IP65

OUR PATENTED TRITECH INDUSTRIES VORTEX SPINDLE PUMP WITH MECHANICAL SEAL

THE MOST ADVANCED SPINDLE PUMP EVER BUILT

TriTech has designed & patented the worlds most advanced and versatile underground haulage vertical spindle pump ever.

The patented wet end 's total modular design improves maintainability- saving time and money

- The wet end casing can be removed without removing the impeller
- The impeller can be replaced without removing the wet end casing
- Patented Vortex system extends the life of the wear parts of the pump

With one wet end casing and different spacer, diffuser, and impeller configurations the TriTech Spindle pump has a multitude of configurations.

The standard shaft bearing have been changed to a double bearing set, providing extra stability and support in operation.

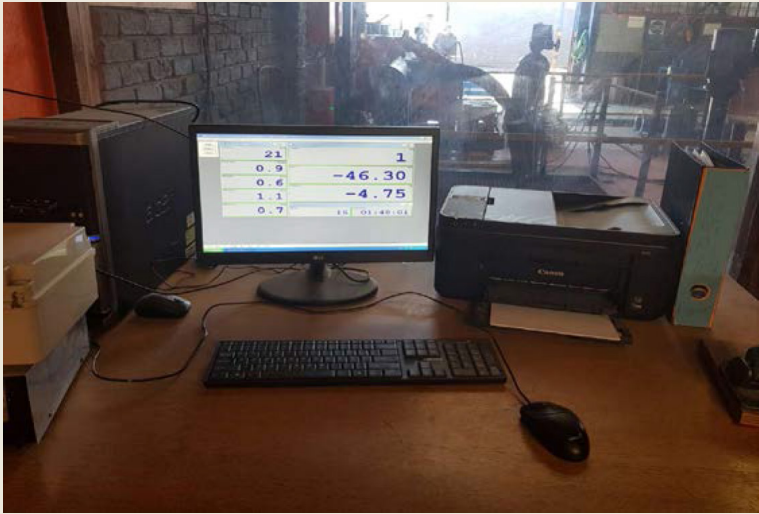
The Mechanical Seal and a tripple "O" ring configuration around the shaft bearing prevents any medium get in contact with the bearings.

Pump wetted end parts manufactured in high chrome alloy to ensure maximum abrasion resistance.

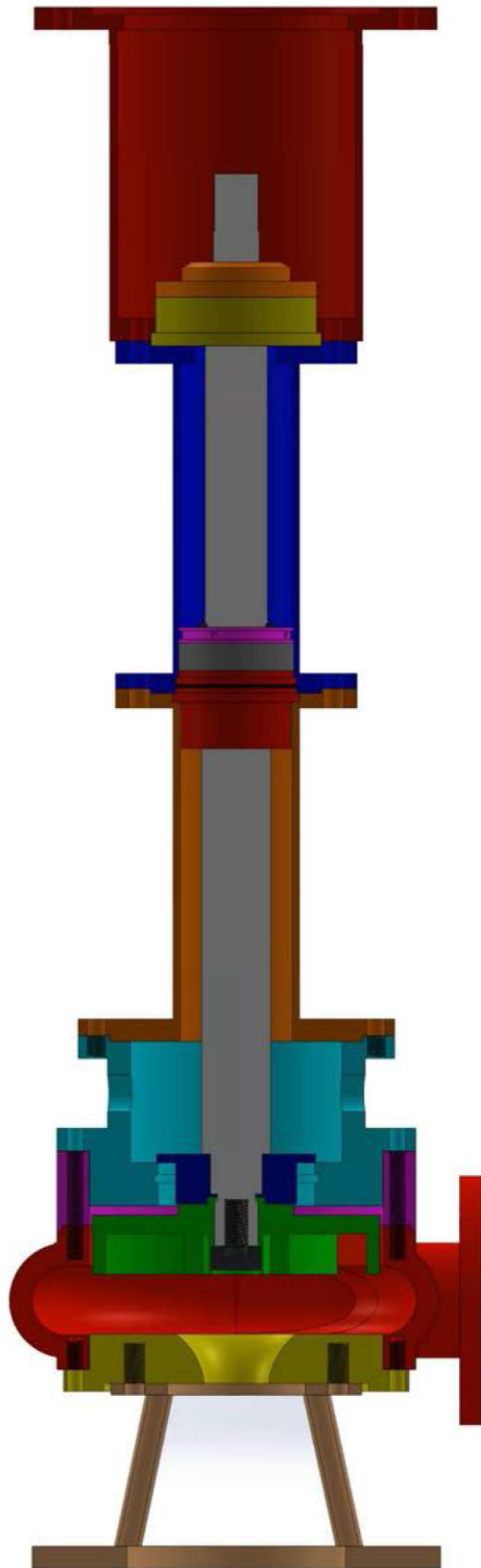
(Semi-Vortex) - Clean water to slightly muddy conditions

(Full-Vortex) - For Harsh Slurry Conditions

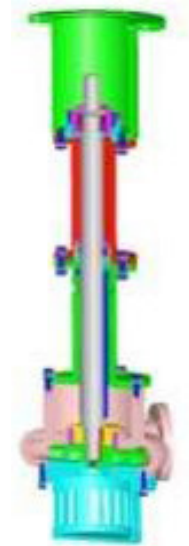




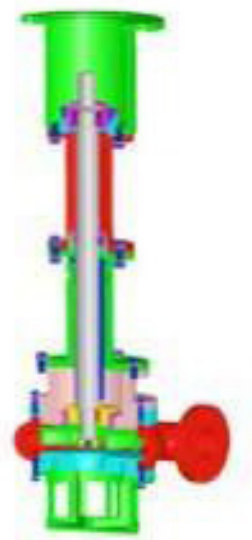
Full Section View



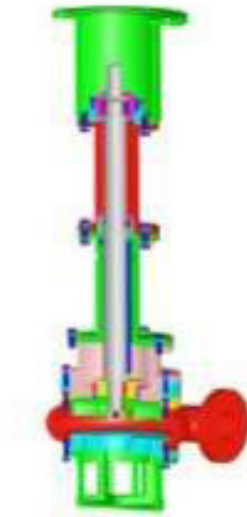
Normal Pump Configuration



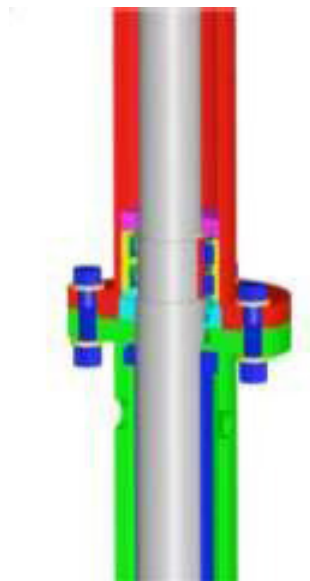
Semi Vortex configuration



Full Vortex configuration



Mechanical Seal Arrangement



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