

# Single Source Engineered Solutions for Africa

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## ABOUT US

Based in South Africa, Engineering Solutions strives to be Southern Africa's preferred supplier of bulk material handling and storage solutions for the industrial, agricultural and mining market sectors.

With over 50 years combined experience, Engineering Solutions is a specialist designer, manufacturer and supplier of a wide range of products, ranging from single, standard, modular machines to fully integrated handling solutions in a range of different materials and for an array of applications.

Backed with our experienced partners MRC Group, Skandia Elevator, BDC Systems and Gourock Agri Supplies, Engineering Solutions as a multi-disciplined system provider operating within the SADC countries, provides full turn-key solutions from design, manufacture, installation & maintenance for large scale projects such as grain silo installations.

### INDUSTRIAL & MINING SOLUTIONS INCLUDE:

- Tubular and Trough Screw Conveyors
- Tube Conveyors / Stackers
- Static Loading & Unloading discharge Hoppers
- Industrial Water Tanks
- Prefabricated Steel Warehousing Buildings
- Bucket Elevators

### AGRICULTURAL SOLUTIONS INCLUDE:

- Grain Augers with our Patented Mobile and Swivel Stand
- Belt & Bucket Elevators
- Chain Elevators & Conveyors
- Grain Pumps and Dryers
- Dust & Chaff Extractors
- Sweep Conveyors
- Tube Conveyors / Stackers
- Drive Over Hoppers
- Static Loading and Discharge hoppers
- Grain Bunkers and Silos



## SCREW CONVEYORS

Custom made screw conveyors designed to suit the application and bulk material to be conveyed in various differing lengths and diameters.

- Materials available mild steel, 304 stainless, 316 stainless
- Tonnage per hour to suit your brief
- Range of differing continuous flights and sectional flights
- Supplied either with or without stands
- Range of differing inlet and outlet designs to suit the application
- Units used in the industrial, mining, commercial and food industries
- Can be supplied either with motor or motor / gearbox combination

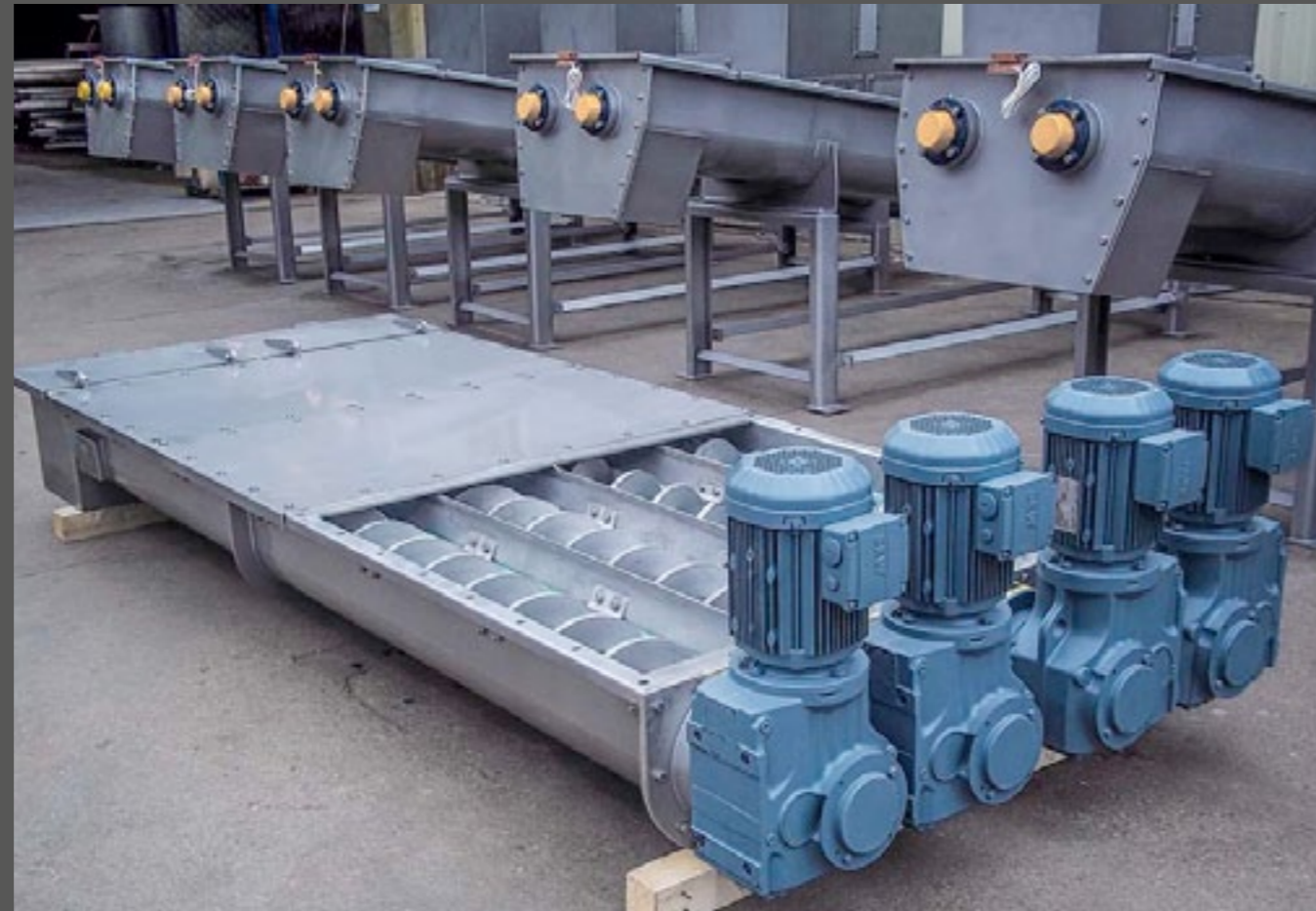




## TROUGH CONVEYORS

Typically used in operations such as flourmills and industrial manufacturing plants. Trough conveyors are largely used horizontally and have lids for ease of access for maintenance.

- Materials available mild steel, 304 stainless, 316 stainless
- Multiple units alongside each other can be used to mix materials
- Tonnage per hour to suit your brief
- Units generally up to 15m length however custom made lengths available
- Removable lids for ease of maintenance and cleaning
- Multiple inlet and outlet designs available
- Can be supplied with motor or motor / gearbox combination



## FEED PLANT SCREW CONVEYORS

Low capacity augers typically used in feed plants and other low volume operations.

- Materials available mild steel, 304 stainless, 316 stainless
- Ideal for small batch production
- Varying capacities – from 2 tons per hour to 15 tons per hour
- Built in feed hopper to suit input material
- Mobile if required
- 3m / 6m / 9m lengths as standard – custom made lengths possible
- Can be supplied with motor or motor / gearbox combination
- All units made specific to the customers requirements





## MODULAR BULK BAG FILLING UNIT

A combination of a modular, large volume hopper, 40 ton per hour augers (one per bin unit) and bulk bag holding stands.

- Materials available mild steel, 304 stainless, 316 stainless
- Supplied in 3 metre modular sections
- Each section on wheels with incorporated support legs
- Each section with built in 40 tonnes per hour auger
- Each section with 1 ton bulk bag holding stand
- Multiple units can be integrated together alongside each other
- Quick on site assembly
- No need for unloading pit



## GRAIN AUGER

For moving / conveying various types of grains – based on screw conveying principles.

- Standard units up to 40 tonnes per hour capacity
- 3m / 6m / 9m / 12m lengths complete with electric motors
- Hydraulic options available on request
- Patent pending mobile stand with the ability to swivel
- Ideal for maize, wheat and other grain products
- Easy loading or unloading of storage reservoirs and trucks
- Standard units delivered in wooden crates with easy to assemble instruction
- Custom made units available upon request





## GRAIN BUNKER STORAGE

A cost effective, high volume bulk storage system for grains providing a temporary and semi-permanent solution.

- For bulk storage of grain – 2500 tons to 32 000 tons
- Complete with associated plant such as mobile drive over hoppers and tube conveyors
- Flexibility of design layout to suit the site
- Easy and quick to assemble
- Standard design to suit most applications
- Easy to store and re-use
- Can be used for storing a variety of different bulk materials i.e wood chips, coal, etc



## TUBE CONVEYORS & DRIVE OVER HOPPERS

The combination of the drive over hopper and tube conveyor is a fully mobile system that enables easy unloading and handling of bulk materials.

- Up to 300 tonnes per hour depending on the material
- Allows controlled feed of the bulk material
- Static and self propelled options available
- Front and side loader friendly
- Varying lengths and widths available
- Simple and convenient to operate
- Ideal for use in bulk handling facilities or on mining or farm sites
- Custom engineered to suit your specific application

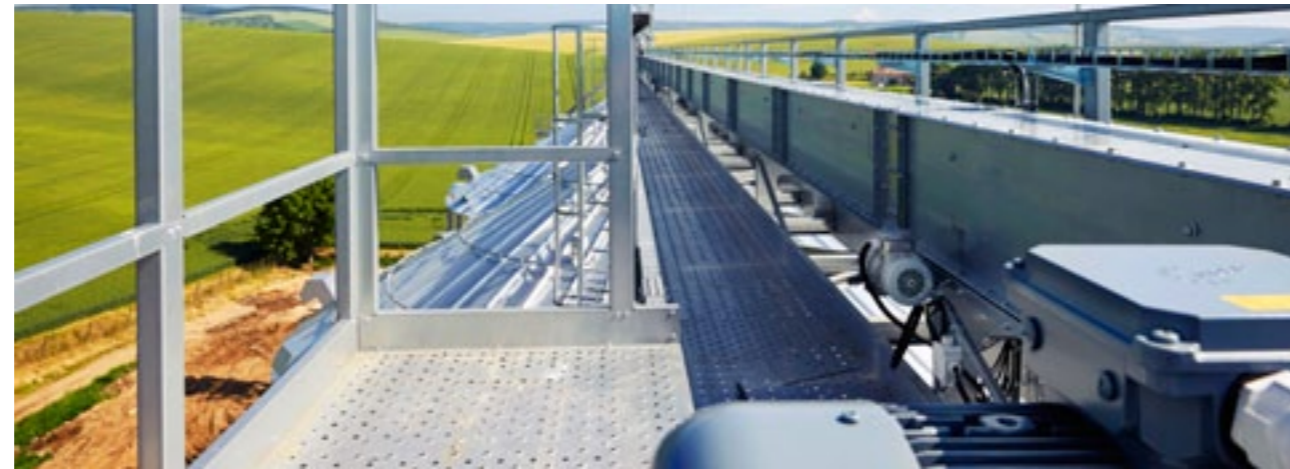




## GRAIN STORAGE SILOS & ASSOCIATED EQUIPMENT

Permanent installations for long term storage and management of grains on commercial farms, co-operatives and milling operations.

- Medium to large volume grain storage
- Typically 1,000 to 5,000 tonne capacity per each silo bin
- Complete turn-key design, installation and maintenance
- Aeration & moisture monitoring systems
- Designed to suit your design brief and full integration with Skandia Elevator and BDC Systems to provide full solutions
- Inspection and refurbishment of existing silo bins upon request



## GRAIN HANDLING SYSTEMS

We are partnered with Skandia Elevator, Europe's leading modular grain handling system supplier.

- Grain handling systems capable of handling from 30 to 600 tonnes per hour
- Bucket elevators, horizontal, inclined and curved conveyors
- Dust and chaff extractors
- Chain & Flight conveyors
- Sweep conveyors to use within the silo
- Conveyor ladders and walkways
- All systems are designed using a modular approach for ease of installation, maintenance and replacement





## GRAIN DRYING SYSTEMS

We are partnered with BDC Systems who have unrivalled experience in drying grains such as cereal crops, oil seeds, small seeds, pulses and other granular seeds.

- Advantage grain drying systems from Svegma
- Drying capabilities from 5 to 100 tonnes per hour
- Fully galvanised colour co-ordinated construction
- Oil, diesel or gas fired – also indirect fired heaters
- Various widths and heights to suit all installations
- Fully automated control panels including failsafe shutdown
- Low noise level high efficiency axial flow fan units
- Moisture monitoring and control available



## STEEL MODULAR WATER TANK SYSTEMS

Small to high volume water tanks for a range of industrial, agricultural and mining applications – suitable for storing water for human consumption.

- High end reservoirs for storage of both potable and industrial water
- Complete with pumps and internal membrane lining
- Quick to install and can be dismantled and relocated
- For use in the food, mining and general industrial market sectors
- Wide variety and sizes available – up to over 3 000 000 litres capacity
- Fast installation by highly experienced assembly teams
- High quality, durable and long lasting systems





## MODULAR STEEL PANEL BRIDGES

Modular steel panel bridges designed for permanent, temporary and emergency use to provide strong and sustainable transportation infrastructure.

- Bespoke designed to suit application and spans
- Various decking solutions to suit the required use
- Can be dismantled and relocated
- Long lasting to suit a vast range of locations
- Can be designed to be installed without a crane or heavy plant
- Fast installation by highly experienced assembly teams
- Choice of single and multiple lane crossings



## TURN-KEY STEEL BUILDINGS

Turn-key small to medium span bespoke steel buildings constructed from hot rolled or lightweight steel complete with roofing and cladding.

- Complete turn-key design, installation and maintenance
- Designed to suit the clients brief
- Spans over 20 metres depending on the design loads to be constructed from hot rolled steel
- Lightweight steel frames provide savings through foundation design and simplicity of installation
- Warehousing, workshops, agricultural stores and large canopies
- Insulated and non-insulated roofing and cladding systems







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