ABOUT US

Spec-Cast Wear Parts (SWP), a division of The Spec-Cast Group of companies, specializes in the supply of wear and replacement parts for the Construction, Mining and Agricultural industries. SWP offers a comprehensive range of ground engaging tools (G.E.T), undercarriage and rubber tracks for all models and makes of machines. Over and above our stock standard products, SWP specializes in the manufacture of all types of castings, forgings, machining and fabrication for various industries, offering several processes and materials that will be best suited to the type of product and its application.

The Spec-Cast Group of companies comprises of 4 divisions, with Spec-Cast Africa (Pty) Ltd being a proud level 2 BBBEE contributor holding 51% black woman ownership.

Spec-Cast Engineering (Pty) Ltd
Specializing in ferrous & non-ferrous castings & forgings for all industries

Spec-Cast Wear Parts (Pty) Ltd
Manufacturers of wear & replacement parts for the Earthmoving, Mining, Cement & Agricultural industries

Sonkor Engineering (Pty) Ltd
Specializing in the supply of front-end equipment and spares for the Sugar Industry

Spec-Cast Africa (Pty) Ltd
Specializing in consulting and procurement for Railway, Power Generation, Earthmoving and Sugar Industries

QUALITY

Commitment to quality assurance at Spec-Cast is an integral part of our daily activities and above all is our top priority. Spec-Cast maintains the raw material inspection, mechanical property testing and microstructure analysis, as well as maintaining the traceability of our products through the different manufacturing stages.

We track the progress of your sample through several quality assurance steps to assure the products are produced 100% with exact standard quality control, starting from the raw material selection to the final product. We implement the following quality assurance procedures in order to achieve & maintain quality in all areas of manufacture.

- Chemical Analysis (standard)
- Dimensional Inspection Report (standard)
- Hardness Testing (if specified)
- Tensile & Elongation Testing (if specified)
- Microstructure Analysis (if specified)
- Magnetic Partical Testing (MPT)(if specified)
- Dye Penetration Testing(if specified)
- Ultrasonic Testing (if specified)

Spec-Cast is a customer driven group of companies continually investing resources in the design and production of superior product offerings. Investment in state of the art equipment, the latest technologies, quality systems and lean manufacturing initiatives are just some of the ways we continue to ensure overall customer satisfaction.

By combining today’s casting technologies with our highly skilled technicians we are able to accept demanding casting requirements with confidence.
Spec-Cast specializes in the design and manufacture of all casting and forging requirements, offering the customer several processes and materials that will be best suited to the type of product and its application. Over and above the Rail, Sugar and Earthmoving sectors, Spec-Cast also caters for, but is not limited to, other sectors such as:

**Mining & Construction, Agriculture and Power Generation**

**Materials include:**
- Cast Irons
- SG Irons
- High Chrome Irons
- Manganese Steel
- Stainless Steel
- Carbon Steel
- Alloy Steel
- Mild Steel
- Bronze
- Brass
- Sand Castings

**Manufacturing processes:**
- Investment Castings
- Gravity Die Castings
- Machining
- Lost Wax Castings
- Die Forging
- General Fabrication
- Lost Foam Castings
- Stamping
- Welding

**MINING & CONSTRUCTION**
- Dragline Wear Parts
- Sheave Wheels and Housings
- Hammers
- Crawler Shoe (Track Pad)
- Impellers
- Pneumatic Cylinder Kit
- Bumper Washers
- Bearing Spool Assembly
- Planter Shoes
- Lilliston Spider Wheel
- Tractor Hooks and Bugle Eyes
- Ripper Tips
- Air Elbow
- Lifting Liner
- Cover Casting
- Flight Bar Link
- Large Y Piece
- Pipe Bend Casting

**AGRICULTURE**

**POWER GENERATION**
The Spec-Cast Wear Parts division (SWP) offers a comprehensive range of ground engaging tools designed to suit a wide range of machinery. With branches and distributors located in prime areas throughout the South Africa, as well as several African countries, SWP is able to provide the Earthmoving, Mining and Construction Sectors with an efficient, cost effective supply and distribution network. Our extensive G.E.T range, well known as “ROCKTIP G.E.T SYSTEMS” covers Caterpillar, Komatsu, Esco, JCB, Daewoo, Case, New Holland, Bell, Terex, Massey Ferguson, Hyundai, Liebherr, Liugong, HBL, MTG, Bobcat, Bofor and Kubota.
Ultralok® Hammerless Tooth System
Superior Alloys, Longer Lasting, Wears Sharper, Proven Performance

LONGER LASTING. EASIER. SAFER

Ultralok is trusted at construction sites worldwide for productivity and safety. The slim profile and smooth point-to-adapter transition delivers improved penetration and longer wear life. Unlike other products, the lock is hammerless and integrated with the point - making the system two pieces, not three. Field replacement is safer, simpler and easier.

The Benefits of upgrading to Ultralok®

- Improved productivity
- Longer wear life
- Easier to use
- Increased safety
- Better reliability

ESCO MaxDRP™ Wear Parts

ESCO MaxDRP™ products are engineered and manufactured to the same exacting standards as other ESCO systems to deliver exceptional performance.

MaxDRP products are direct replacements for OEM versions but provide increased wear life and superior reliability.
VemaTrack undercarriage parts cater for light to medium construction and mining machines up to 45 Ton Excavators and up to CAT D9 and equivalent Dozers. We supply VemaTRACK undercarriage parts for various brands and makes of machines, an extensive range is available in track chains, track shoes, idlers, track rollers, top rollers, sprockets and segments. All undercarriage parts have been fully tested and inspected to comply with the highest quality requirements.

RUBBER PADS

VemaTRACK rubber pads are available for excavators ranging from 2 to 25 tons. Our rubber pads come in three varieties:

- **Clip on**: these are clamped, in a manner of speaking, to the track shoes.
- **Bolt on**: these rubber pads are screwed onto the track shoes.
- **Chain on**: these are mounted directly to the track links. In addition to rubber tracks for excavators, the VemaTRACK range also includes a complete range of pads for asphalt-ing machines and paver finishers.

RUBBER TRACKS

VemaTRACK is a global leading brand for rubber tracks. By choosing VemaTRACK rubber tracks, you choose quality, reliability and a long service life.

We offer an extensive range of rubber tracks for all kinds of machines such as mini diggers, tracked dumpers, dump carriers, tracked loaders and skid steer loaders, available from 130mm-1000mm wide.

All VemaTRACK rubber tracks have been fully tested and inspected and offer excellent ride comfort. Our indoor storage facility contributes to the consistently high quality of our rubber track products.
UNDERCARRIAGE COMPONENTS

**TRACK CHAINS**

We supply track chains for any type of crawler machine, from standard to special applications such as conveyors, bucket wheel excavators, and subsea diamond dredgers. Innovative materials, new geometries and special heat treatments on all components (pins, bushings and links) guarantee maximum performance and longer wear life.

- Track Chains ranging from link pitch 90mm to link pitch 350mm – and above for cast monoblock designs.
- Dry track chains, sealed and greased excavator track chains, lubricated chains for high performance applications.
- New sealed and lubricated chains for mining dozers.
- New monoblock configuration for mining excavator over 200 ton weight class.

**TRACK SHOES**

Our range of track shoes is designed for all applications ranging from standard to “super extreme service”. ITM track shoes meet the highest performance standards with drastically reduced wear. Shoes suitable for chains ranging from link pitch 90mm to link pitch 350mm available in more than 5,000 configurations.
**ROLLERS**

Single and double flange track rollers and carrier rollers suitable for crawler machines ranging from 0.8 to 800 tons.

Special version rollers for road milling machines, pavers, forestry and agricultural applications.

**SPROCKETS AND SEGMENTS**

Sprockets matching any type of crawler machine application and most common final drive types.

Three to six teeth forged segments suitable for dozer track-type machines ranging from 6 to 100 tons.

Monoblock cast sprockets.

New bolt-on segments for mining dozers.

**IDLERS AND TENSION GROUPS**

Idlers suitable for track-type earthmoving and special application machines ranging from 0.8 to 500 tons.

Cast and fabricated versions available.

Wide range of spring type adjusters, nitrogen accumulators, elastomer tension units, friction ring units, as well as tensioning systems.

New idler wheel for mining dozer with new “X section” reinforced design.

**INSPECT. MEASURE. MANAGE.**

*ITM TrackAdvice™* is the universal system that allows SWP’s Undercarriage specialists to measure component wear on your whole fleet, optimizing the efficiency of each individual undercarriage component.

TrackAdvice analyzes all the data generated during inspection and forwards the results to our experts who are always on hand to give the best advice and assistance: they provide the necessary suggestions to ensure maximum productivity, greater durability and lower maintenance costs.
With Trackman® from Continental, you get more traction for your business. We offer a wide range of rubberized track and components for Agricultural applications. Trackman® tracks are engineered and built to withstand the most treacherous field conditions. In addition to Agricultural rubber tracks we provide related rubber track components for almost every application:

- Rubberized Drive, Idler and Roller wheels
- Elastomeric Suspension Mounts
- Track Installation Fixtures
- Other Specialized Rubber Components

**ADVANTAGES**

- Better, smoother ride
- Maximize the distribution of load
- Minimize the degree of penetration and compaction
- Prohibit excessive loading on a single (or group of) roller wheel(s)
- Reduce the abusive “loading” caused by the ingestion of debris

Wheel profile system for reduced heat build on row track applications

Armorlug

Armorlug Ultra

Widest track in industry produced
**STEEL REINFORCED POLYETHYLENE PIPES**

### STEEL MESH REINFORCED HIGH DENSITY POLYETHYLENE PIPE

A revolutionary new technology of HDPE pipe that is reinforced by steel mesh. The use of steel mesh in the wall structure of the pipe enhances the structural strength of the pipe. The steel mesh is made from a high quality, low carbon steel wire that is welded at every overlapping joint to ensure the strength of the mesh. For the pipe fittings we use a steel skeleton instead of mesh.

- Meets up to 40 bar pressure depending on size
- Withstands extreme temperatures & conditions
- Easy to install
- Patented design
- Offers a cost saving compared to conventional HDPE pipes
- Sizes from DN50-DN600

### SUPER ANTI-ABRASIVE & HIGH PRESSURE STEEL WIRE REINFORCED PE COMPOSITE PIPE

High pressure super abrasion resistant multilayer composite pipe fused with an inner layer made of the new type modified polyolefin abrasion resistant material (elastomer structure) for abrasion resistant material.

The use of the abrasion layer greatly improves the abrasion resistance of the pipes during slurry and solid medium conveying and thus prolongs the service life of the pipes. Compared with the UHMW PE pipe, this series of products has superior abrasion resistance performance. Can be widely used for conveying solids, liquid-solid mixtures, gas powder and slurry etc., which may severely corrode the pipes and result in acid, alkaline and salt corrosion.

- Diameter: DN90-DN630 mm
- Pressure: 1.0-7.0MPa

### APPLICATIONS

- Ore: Concentrate, Tailings Ore Conveying
- Coal Mine: Slurry, Coal Slime, Fillings, Coal power etc.
- Dredging: De-silting & Dredging, Pumping Sand
- Chemical: Ganister Sand, Sylvite, Alkali Slurry etc.

### PRODUCT ADVANTAGE

**Wear Resistance:** 3-4 times better than UHMWPE pipe

**Anti Corrosion:** Acid/Alkali resistance, Anti chemical corrosion

**Weather Resistance:** Temperature -40°C to 50°C, no physical change

**Conveying Performance:** Smooth inner wall, 20-30% better than steel pipe

**Pressure Level:** Nominal Pressure up to 7.0-9.0MPa

**Easy Installation:** Hot melting, Electro fusion, mechanical connection

**Anti-seismic Performance:** To fit bend situation caused by geologic changes

**Cost Saving:** Extended wear life, low installation & maintenance costs