Flotation Wear Components
The Multotec Group, established more than thirty years ago, is a Johannesburg South African organization with German shareholding. Its core business is the supply of products and services to the mining, mineral beneficiation and power generation industries.

The group comprises four main operating entities, each with its own product range and associated services, namely Multotec Manufacturing, Multotec Process Equipment, Multotec Wear Linings, and Multotec Rubber.
Resources Mining Technologies [RMT]

- Florida based Resources Mining Technologies [RMT] is the key Multotec Product Distributor and Servicing Agent for the United States.

- In addition to RMT’s extensive Multotec and RMT proprietary product offerings, the RMT organization has an established reputation for providing optimum mineral processing technical solutions and the highest levels of personal support. RMT provides direct assistance of appropriate equipment selection through to delivery accuracy, both hot and cold commissioning. RMT offers the very best industry equipment guarantee and even includes vital routine on-site equipment inspections and reporting to help eliminate unexpected costly down time.
Resources Mining Technologies [RMT] Partners

- Multotec - PROCESS EQUIPMENT [Edmonton, Canada]
- Manhattan Corporation - BALL MILLS [New York, USA RSA.]
- Tema Systems Inc. - VIBRATORY SCREEN PANELS [Cincinnati, OH USA]
- Hazen Research - METALLURGICAL RESEARCH [Golden, CO USA]
- McClelland Laboratories, Inc. - METALLURGICAL TESTING [Sparks, NV USA]
Multotec’s high quality, hardwearing flotation components are available for all types and sizes of flotation cells. They are replaceable components and can be redesigned to optimize performance and life. Full range of dry ends are available. Manufactured to the highest quality standards.

**Draft Tubes**
- Split into three sections: bottom, top hat and adapter
- High-wear area top section is effective to replace and discard
- Plastic pinning is used for ease of installation and extraction, which results in less corrosion and downtime
- Limited steel is used in the top section, thereby allowing greater wear life

**Guards**

**Bearing complete assemblies, base plates and bearing stands**
Flotation Wear Analysis

Wear Analysis:

✓ A process of observing wear patterns and wear rate in critical areas
✓ Provides more polyurethane in the places where it is needed most
✓ Gives maximum possible wear life
✓ Correct amount of polyurethane in relation to the application results in a cost effective product

Steel laser cut reinforcing:

➢ 3CR12 stainless steel bosses
➢ Easy top-side assembly only
➢ No rust and bolt locking
➢ Grooved-in, balanced and accurate
➢ Welding to ISO standards
➢ Designed to enhance performance

Multotec rotors/ impellers and diffusers
Flotation Wet Components

Hoods
Hood segments are now manufactured with radial veins.
The benefits are:
- swirling and wave action is inhibited
- smooth controlled radial flow is encouraged
- loss of recovery is minimized

Shaft Protection

Rotors
Mounting nut and protector caps
Flotation Wet Components

Dispersers
- No steel in work area
- Semi-rigid PU is used with hard-wearing anti-abrasion properties for longer life

Stators
- Optimal wear resistance
- Optimal impact resistance
- Modular stators available

Rotors
- High abrasion resistance
- Steel is omitted in specific areas to enhance polyurethane shock absorption which limits vibration fatigue
Various Flotation Wear Components

Rotors, Dispersers, Hoods and Standpipes
Flotation Re-conditioning

- Individual cyclone spigots discharge into a common underflow launder
- Large diameter outlet pipe and correct angle of tank base ensure that the dense spigot product can discharge under gravity
- Launder is rubber lined or ceramic tiled
- Removable splash covers minimize splashing spray whilst allowing quick access to spigots
RMT Inspection and Maintenance Contracts

Multotec’s engineers are dedicated to improving the life of wear components and reducing downtime. Multotec’s USA Partner Resources Mining Technologies [RMT] will tailor inspection and maintenance contracts to suit your requirements and give regularly updated reports on plant running conditions. This will improve your plant availability by reducing unforeseen downtime. RMT provides that extra capacity and service in your times of need.
Quality and Excellence

Based in Johannesburg, with branches nationwide as well as further afield in Africa, Australia and South America, the Multotec Group has several comprehensively equipped manufacturing facilities which produce specific product lines. Quality remains an integral part of the group’s ongoing strategy and the entire organization is ISO 9001:2008 certified.
Multotec Group Polyurethane Screen Panels Facility

- Polyurethane Screening Systems and Accessories
- Polyurethane Spray Nozzles
- Conveyor High Impact Loading Points
- Polyurethane Flotation Cell Rotors, Stators and Accessories
- Fibreglass Floor Grating & Walkway Systems

Multotec Group Wedgewire Screen & Basket Facility

- Wedgewire Screening Systems (centrifuge baskets, sievebands, cylinders and flat panels)
- Trommel Screens (self-driven, mill and scrubber discharge)
- Steel Fabrication (sievebend housings, screen frames, trommel screen frames)
Multotec Group
Spirals Manufacturing Facility

- Cyclones
- Spiral Concentrators
- Sampling Systems
- Rhodax Inter-particle Crusher
- Process Consulting

Multotec Group
Cyclones Manufacturing Facility

- Flotation Cell Rotors
- Flotation Cell Stators
- Flotation Cell Hoods
- Flotation Cell Accessories
Multotec Group Rubber Production Facility

- Mill and Scrubber Rubber Liners
- Rubber Impact Wear Plates
- Rubber Screen Panels
- Conveyor Loading Points
- Composite Liners

Multotec Group Ceramic Production Facility

- High Density Alumina Ceramics
- Cast Basalt Linings
- Epoxy Linings and Adhesives
- Multoslip Low Friction Linings
Selected Installations as follows;

<table>
<thead>
<tr>
<th>Company</th>
<th>Model</th>
<th>Range</th>
<th>Location</th>
<th>Type</th>
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<td>Multiple</td>
<td>RCS Range</td>
<td>RSA / Sweden</td>
<td>Wet Components</td>
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* Contact References Available Upon Request
Flotation Presentation

This Presentation can be downloaded from the RMT Gold Technology Website

www.resourcesgoldtechnology.com/our-partners.html