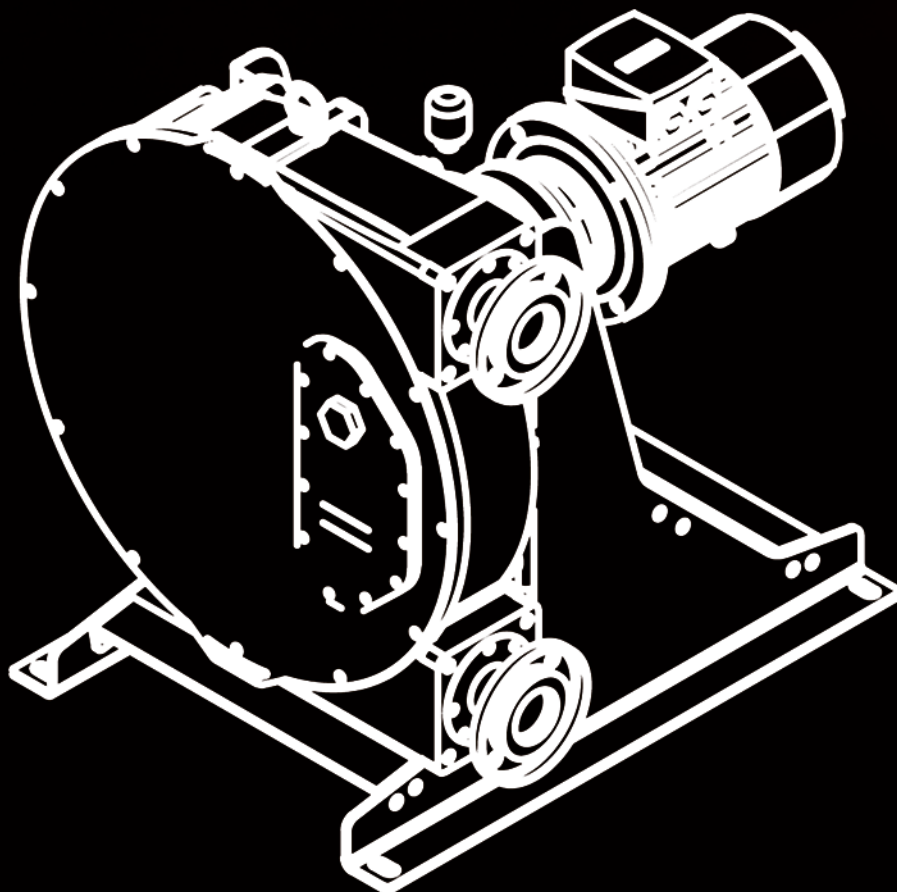




peristaltic pumps



OUR COMPANY

MIP Process Technologies (Pty) Limited is a South African Process Equipment sales and manufacturing company, which offers customised and innovative process solutions for the Mining, Minerals Processing and related industries. The 100% black-owned and black-managed company was established in 2007. MIP Process is accredited with Level 1 BEE status, the highest achievable. We pride ourselves on being truly customer-centric, with unsurpassed levels of customer service.

MIP Process Technologies (Pty) Ltd's mission is to be the preferred supplier of process equipment with an offering that is underpinned by:

- customer focus
- reliability
- innovation
- continuous improvement

We specialise in the supply of Process Equipment, but have the capability to assist with plant design around the Company's core technologies.

BACKGROUND TO PERISTALTIC PUMPS

Peristaltic pumps are simplistic with a variety of advantages. A tubular element (hose), with accurate dimensions, manufactured in a variety of elastomers or thermoplastic compounds, is housed within a pump body. When this tubular element is compressed by the rotary action of the rotor and its corresponding rollers or shoes, it recovers to its initial form, creating a vacuum. This subsequently "sucks" the fluid into this cavity formed by the sudden expansion of the tube. The tubular element is compressed by the rollers and the fluid transported smoothly towards the outlet. Thus, the peristaltic pumps fall under the category of positive displacement pumps.

APPLICATIONS

Peristaltic pumps have been used in a variety of applications. Some includes:

- **Mineral Processing:**
 - Thickener underflow
 - Filter press feed
 - Polymer Dosing
 - Slurry transfer
- **Water Treatment**
 - Sampling
 - Ferric chloride pumping
 - Lime dosing
 - Sludge transfer
- **Food and Beverage**
 - Additives in bakeries
 - Juices
 - Tomato paste
 - Beverages
 - Syrups and Oil
 - Spent yeast transfer
 - Kieselguhr
- **Chemical Industry**
 - Dosing of dyes and pigments
 - Cosmetic industry
 - Paints
 - Corrosive acids

PERISTALTIC PUMP TYPES AND SIZES

- **DS-M Series:** Industrial peristaltic for dosing or transfer of fluids at low flow rates (1 to 2300mL/min) and low pressure (up to 200 kPa)
- **AMP Series:** Industrial Peristaltic Pumps for working a pressure up to 800kPa. Flowrates from 5 to 1200L/h with the Roller Press system.
- **FMP Series:** This unit with roller press system handles flows from 100 to 44 000L/h with a pressure up to 800kPa.
- **RBT Series:** Supplied with a reinforced rubber hose system for working pressures up to 1 500kPa. A shoe press System is used for flows from 100 to 72 000L/h.
- **Pulsation Dampers:** The FLEXODAMP Pulsation damper converts the pulsating flow of the peristaltic pump into a Continuous one.

Creating value
through innovative
superior designs and
building of strong
supply capabilities



ENGINEERING STANDARDS

All engineering, designs and construction are based on sound internationally approved engineering principles as well as practical applications.

AFTER-SALES SERVICE

All MIP Process Technologies (Pty) Limited's products have been designed to ensure minimal maintenance with easily replaceable parts for minimum downtime.

All our products carry an eighteen (18) month warranty against the industry standard of Twelve (12) months. This decreases the risk when buying MIP Process equipment. We offer an after-sales service and our Technical and Service departmental staff is available on a continuous seven (7) days a week basis to offer assistance.

A team of process and mechanical engineers, who have experience in Coal, Base Metals, Platinum and Gold markets, are available. Field service technicians provide further support.

BENEFITS

The Boyser peristaltic pump offers a range of benefits to our partners

Feature	Benefits
Variety of hose types	Customised selection for application
Twenty-five years of supply	Proven design and products
Large installed base	Range of applications
Patented hose clamping system	Ease of Operation
Range of hose sizes	Fit for purpose design
Roller Technology without Lubricant	Lower maintenance cost
	Ease of operation
	Low power consumption
	Environmentally friendly
Shoe Technology	For higher working pressure up to 1 500kPa
Rotor with dedicated bearing support	Longer lasting, longer service intervals
	Heavy duty design
Hose leakage sensor	Early detection to protect pump
IEC flanges	Readily available for electric motors

EQUIPMENT COMPONENTS

The Boyser peristaltic pump includes:

- Casing with custom protection
- Electric motor and gearbox
- Hoses from variety of materials
- Heavy Duty Roller or Shoe Technology with rotor

Accessories includes:

- Hose leakage sensor
- Flexodamp In-line pulsation dampers
- Vacuum device for large suction
- High viscosity applications



DSM Series



AMP Series



FMP Series



RBT Series



MIP Bag Filter



26mØ Thickener in operation



MIP-500 Flocculant Plant



30m² Linear Screen

Project Management

Owing to the high level of importance that MIP Process Technologies (Pty) Limited places on the delivery, we ensure that each project has a world-class project management team. This is coupled with the resources of highly experienced subcontractors, for the different aspects of each project.

Low Investment:

Capital costs - Our equipment design is conservative and robust to ensure it is still in operation many years from now. We understand that process conditions can change and make allowances for this.

Test Facility

A comprehensive test facility is available to our customers. Preliminary sizing can be done using our extensive database.

MIP Value Proposition

The MIP designs consider not only the customer's process data, but also the long-term mechanical performance, maximum circuit efficiency, availability and minimised operating costs.

PRODUCTS & SERVICES

MIP PROCESS TECHNOLOGIES strives to design and manufacture process equipment that is technically advanced, reliable and customised for each application. We believe that each ore body is different and "fit for all design", is not necessarily the optimum solution.

Our designs are simple yet robust and reliable. Our philosophy is to minimise the customer's total operating costs, thus minimising capital and operating expenditure.

- Attrition Scrubbers
- Clarifiers & Thickeners
- Chemineer range of Mixers and Agitators
- Flocculant plants & Reagent Make-up Plants
- Horizontal Linear screens
- Slurry Samplers
- Boyser Peristaltic Pumps
- Gas Cleaning Equipment:- Bag filters, Dry Cyclones and Scrubbers

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