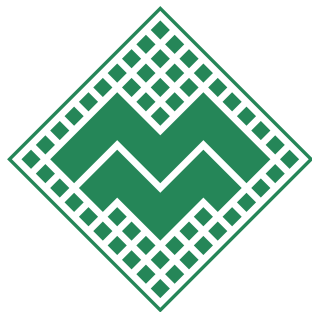




# **MULTOTEC**

## Spiral Test Plants



Your Specialist in Spiral Solutions



## Spiral Test Plants

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Multotec supplies test plants for heavy mineral and coal applications. The Heavy Mineral Test Plant consists of four stages of spirals, and is capable of processing up to 20 tons of solids per hour in its feed to the spirals. The Coal Test Plant consists of double stage MX7 spirals, and is capable of processing 36 tons of coal per hour to the spirals.

### Benefits:

- The test plants are stand-alone units, and can be skid mounted
- Easily erected on site, with three primary modules
- The flowsheet may be adapted to suit specific applications
- 'Plug and Play' capability
- Units are easily moved and re-erected
- Optional extras on the plant include samplers and process flowmeters

### Pumps and Sumps:

- Can be operated using generators
- Pumps fitted with variable speed drives
- Can operate with 380 V or 525 V

### Mobility:

- Transportation is made easy as each plant can be moved to any location, using 2 x 12 m containers or a super link
- Stability is maintained through support braces

### Civils and Electricals:

- The plant has been designed to stand on a level concrete pad or compacted surface
- Dedicated lock-out switches for each pump
- Night lights are provided

### Multotec offering:

- Commissioning and installation assistance for spiral plants
- Consultation on spirals and plants
- Test work on spiral concentrators, laboratory or spiral plants

## Mineral Plant

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### Cyclones:

- Desliming and dewatering cyclones are included
- Concentrate and tailings stacker cyclones are optional

### Spirals:

- Four-stage spiral circuit (Rougher, Cleaner, Re-cleaner, Scavenger)
- Spirals are interchangeable depending on the mineral being treated

## Coal Plant

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### Cyclones:

- Desliming cyclone is included

### Spirals:

- Two-stage MX7 spirals
- Spirals are interchangeable depending on the layout

# Heavy Mineral Spiral Test Plant

## Cat Ladders

- Provide easy access to upper levels

## Multotec Cyclones

- Polyurethane cyclones
- Perform desliming and dewatering functions
- Overflow discharges into separate tanks
- Stacker cyclones (optional)

## Multotec Spirals

- Rougher & Scavenger stages
- Interchangeable spirals to accommodate Multotec standard and high capacity spirals

## Gravity Fed Distributor

- Mild steel galvanised and cast with polyurethane
- Provides even distribution of feed to spirals
- Easily replaceable parallel throat orifices
- Tight fit piping arrangement

## Multotec Spirals

- Cleaner & Re-cleaner stages
- Interchangeable to fit any type of standard Multotec spiral

## Water Manifold

- Single connection for water supply and dilution

## Sumps with Pumps

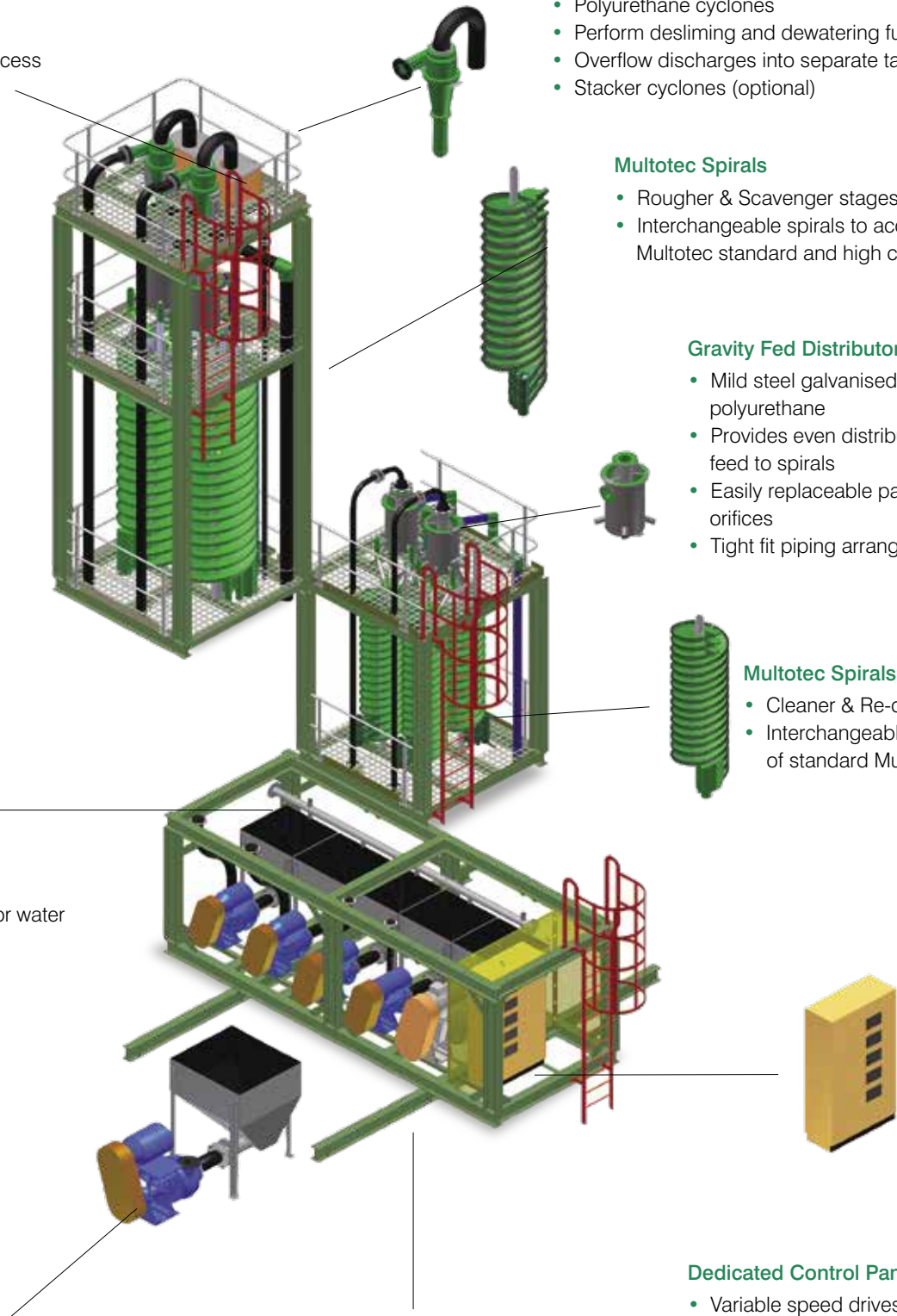
- 5 x dedicated mild steel rubber-lined sumps with pumps

## Supports

- Additional steel supports supplied for extra stability

## Dedicated Control Panel

- Variable speed drives for each pump allow ease of control
- 380/525 V (optional)
- Lockable IP65 control box enclosures



# Coal Spiral Test Plant

## Multotec Mild Steel Ceramic Tiled Cyclone

- Suitable for fine coal desliming
- Dedicated discharge tanks for underflow
- Dewatering cyclone (optional)

## Multotec Sievebend

- Suitable for coarse particle rejection prior to spirals



## Multotec Spirals

- Equipped with four triple start MX7 spirals



## Dedicated Control Panel

- Variable speed drives for each pump allow ease of control
- 380/525 V (optional)
- Lockable IP65 control box enclosures

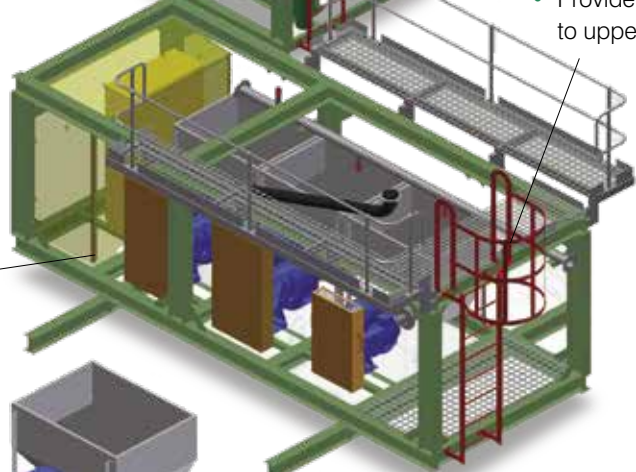
## Gravity Fed Distributor

- Mild steel galvanised and cast with polyurethane
- Provides even distribution of feed to spirals
- Easily replaceable parallel throat orifices
- Tight fit piping arrangement



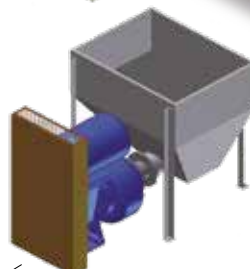
## Cat Ladders

- Provide easy access to upper levels



## Sumps with Pumps

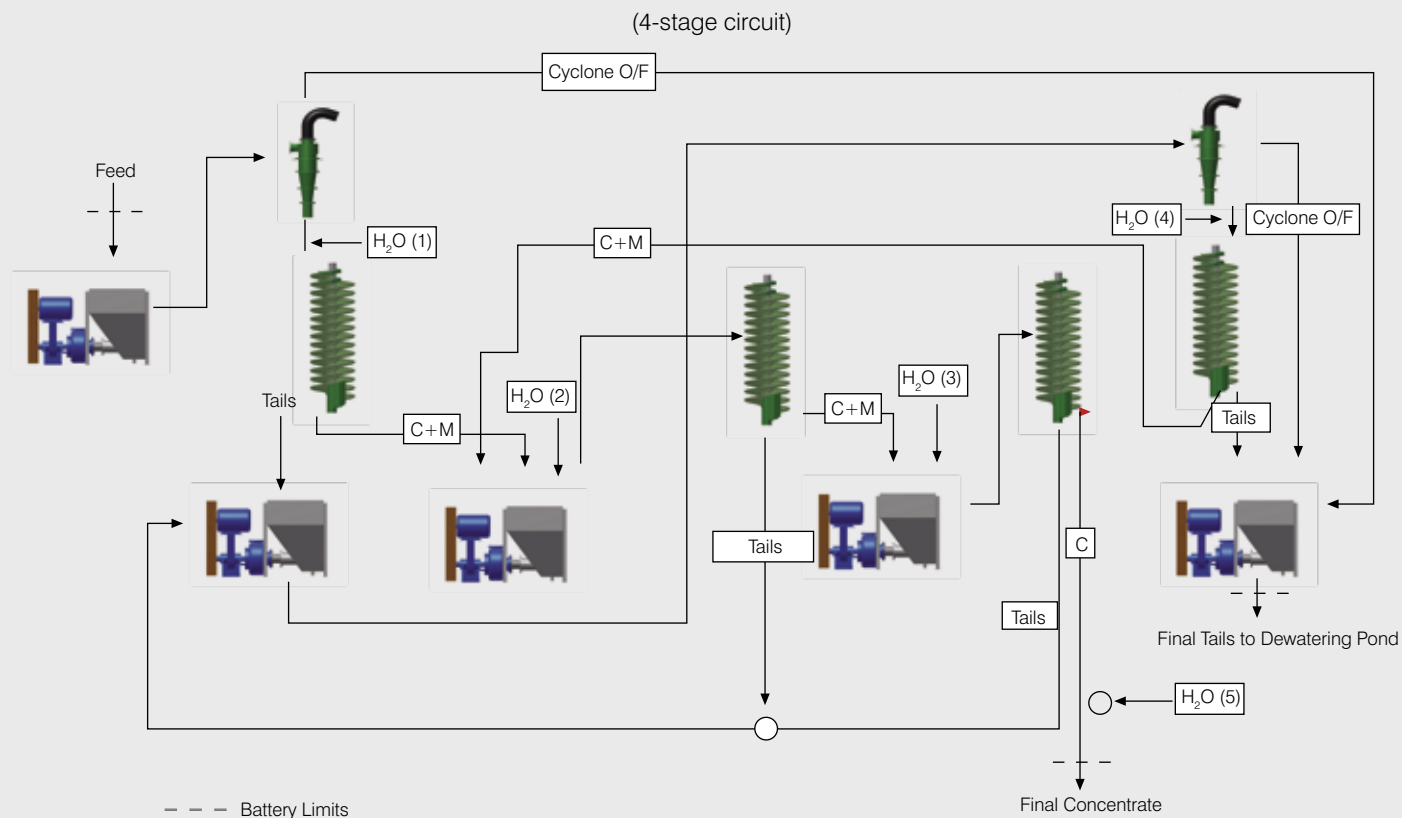
- 3 x dedicated mild steel rubber-lined sumps with pumps



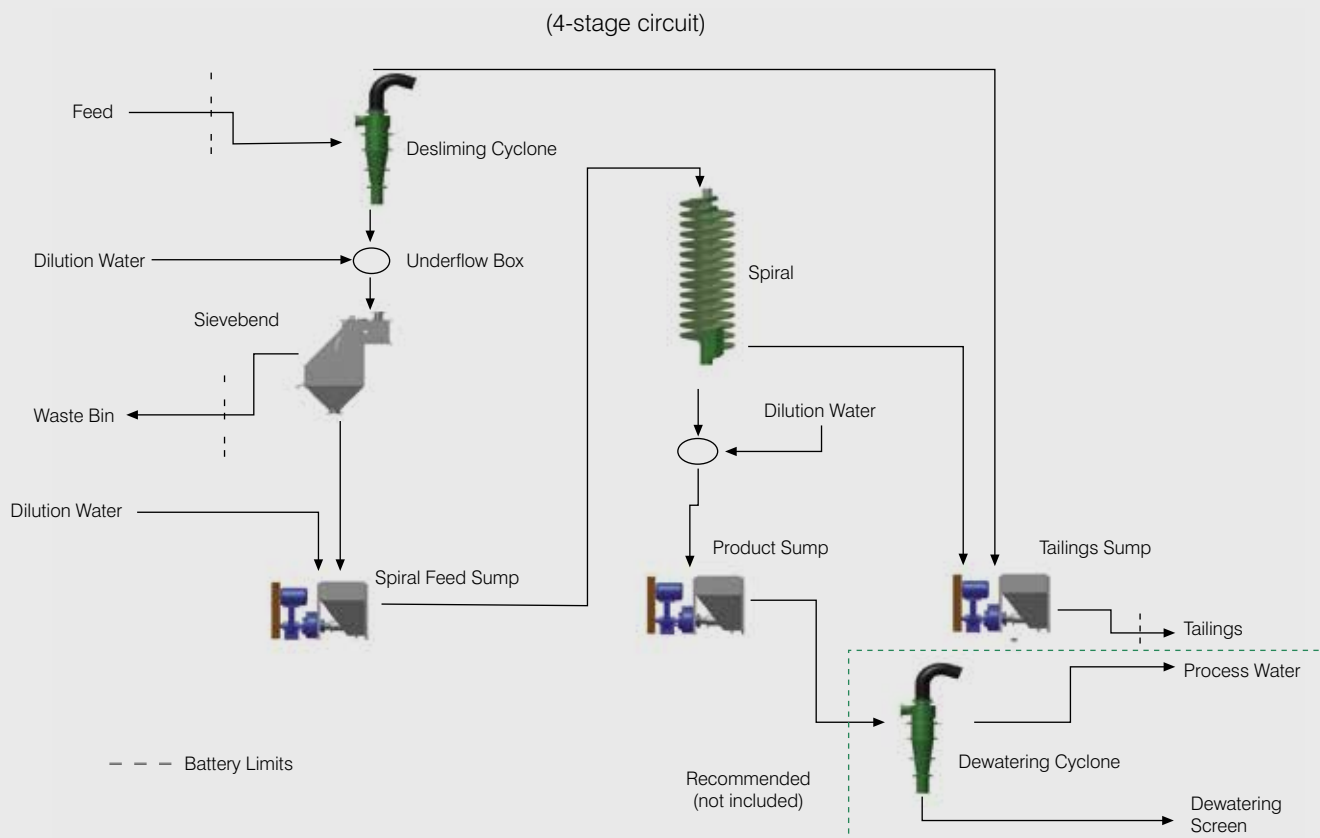
## Supports

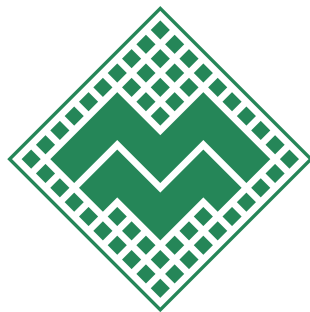
- Additional steel supports supplied for extra stability

## Process Flowsheet for Heavy Minerals Spiral Test Plant



## Process Flowsheet for Coal Spiral Test Plant





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| Screening Solutions | Mineral Processing Equipment |  
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| Solid / Liquid Separation Solutions | Conveyor System Solutions |  
| Pumps | Process Water Treatment and Metals Recovery |



Multotec products are subject to continuous development and Multotec reserves the right to make changes to the specifications and design of its products without prior notification.