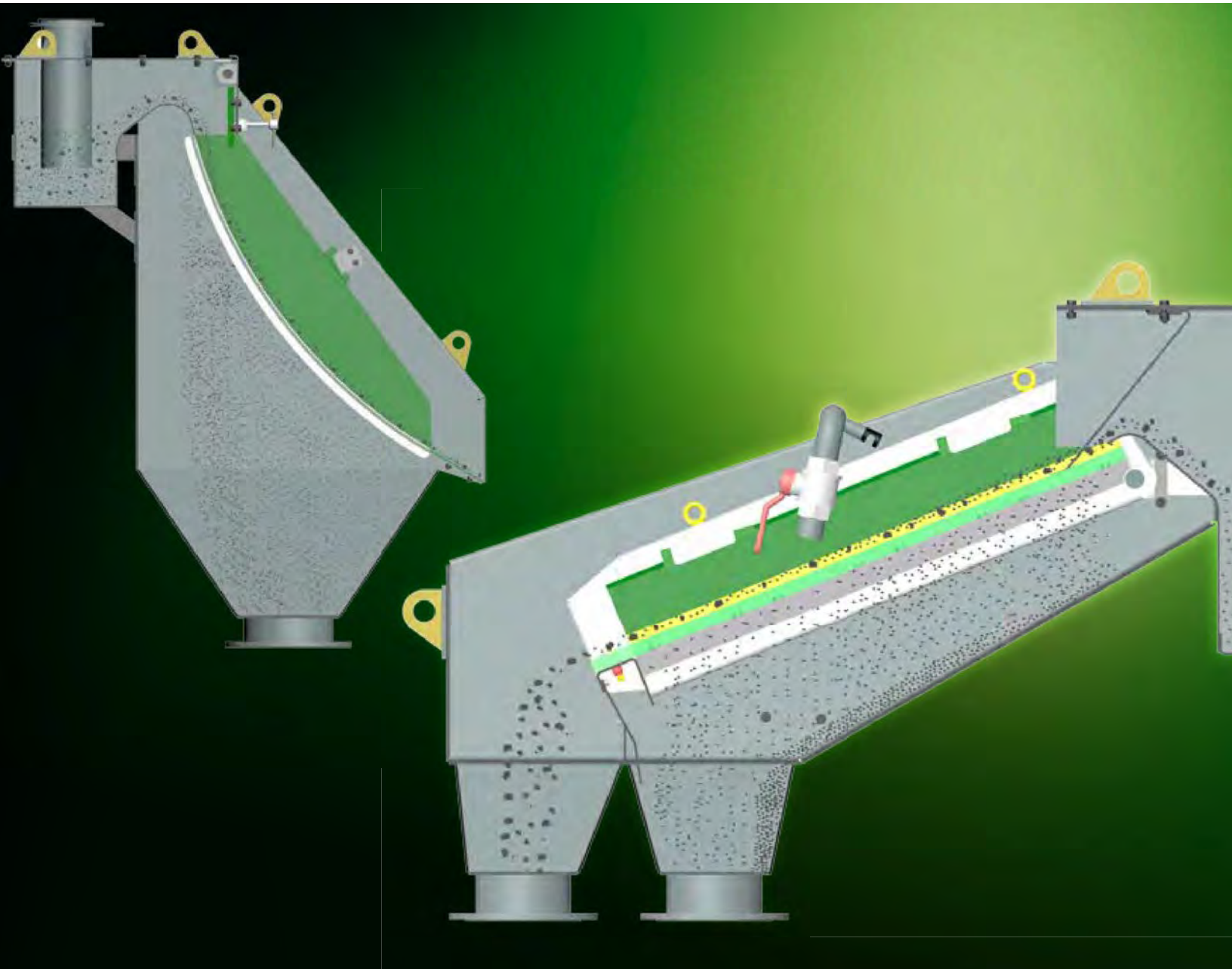


MULTOTEC

Sieve Bends and Static Screens



Your Specialist in Screening Media



Sieve Bends and Static Screens

Technical Information

Typical Applications

- Media recovery
- Dewatering
- Desliming
- Trash removal
- Can be used in conjunction with
- Vibrating Screens



New Developments and Dimensions

The Reversible Sieve Bend housings can have either a pneumatic or hydraulic tilting system incorporated into the swivel mechanism for:

- Reduced labour requirements
- Improved safety conditions
- Reduced chance of feed error (set to lift housing flush with feed chute)

Sieve Bend Dimensions

800 mm Arc Length

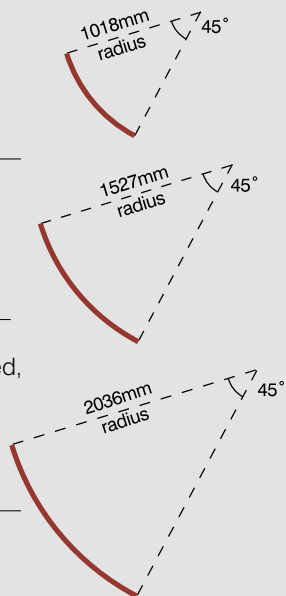
- Used where there is a height restriction
- Used for media recovery

1 200 mm Arc Length

- Used where maximum drainage is required, but the height does not allow 1600mm developed length

1 600 mm Arc Length

- For maximum drainage
- Reduced effect of any feed error



Non-standard Sieve Bends (60 degree, different radii and developed lengths) can be supplied for existing installations.

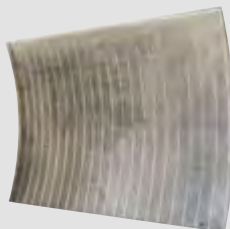
Polyurethane Sieve Bends

- Long life
- Constant cut-point maintained
- Self-supporting internal frame
- Continuous slot modules designed to be comparable to wedge wire
- Deflector strips
- Repairable
- Less frequent need for turning

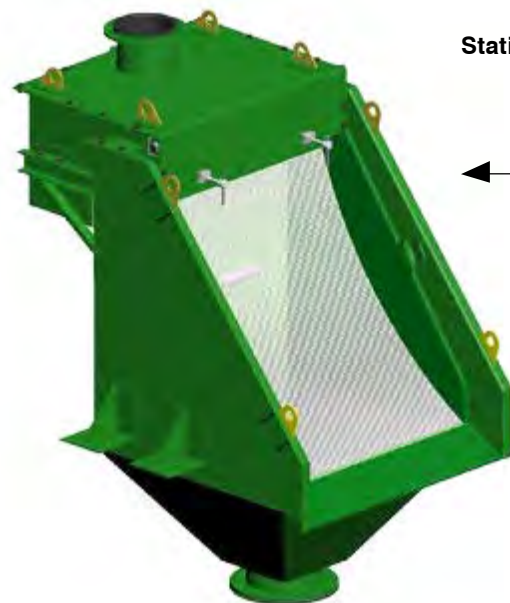


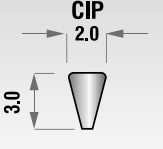
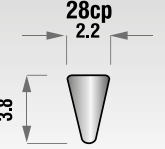
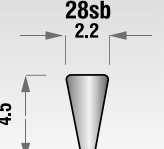
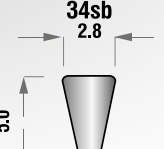
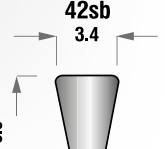
Wedge Wire Sieve Bends

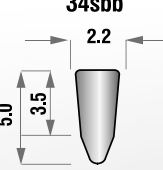
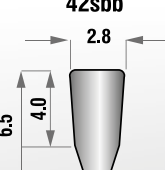
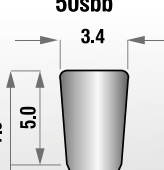
- Sharp cutting action
- Maximum open area and drainage
- Wide range of profiles available
- Abrasion resistant 430 stainless steel and corrosion resistant 304 stainless steel standard supply

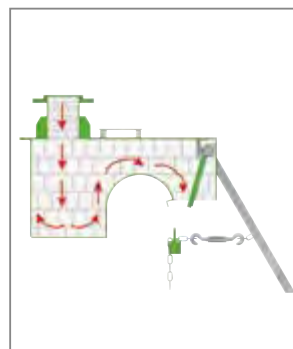


Alternate Feed Chute Designs

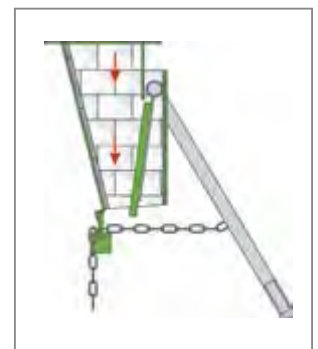


Longitudinal profiles										
Wx(cm ³)	0.0014		0.0027		0.0030		0.0043		0.0087	
S(mm)	=7.5		=8.4		=9		=9.5		=11	
slot width w(mm)	a%	weight kg/m ²	a%	weight kg/m ²	a%	weight kg/m ²	a%	weight kg/m ²	a%	weight kg/m ²
0.2	9.1	18.6	8.3	19.9	8.3	25.8	6.7	29.1		
0.25	11.1	18.3	10.2	19.5	10.2	25.3	8.2	28.8		
0.315	13.6	18.0	12.5	19.0	12.5	24.6	10.1	28.1	8.5	34.5
0.4	16.7	17.5	15.4	18.5	15.4	24.0	12.5	27.6	10.5	33.0
0.5	20.0	17.0	18.5	17.9	18.5	23.2	15.2	26.9	12.8	32.3
0.63	24.0	16.3	22.3	17.3	22.3	22.4	18.4	26.4	15.6	31.4
0.8	28.6	15.7	26.7	16.4	26.7	21.3	22.2	25.0	19.0	30.3
1.0	33.3	15.0	31.2	15.6	31.2	20.2	26.3	23.9	22.7	29.2
1.25	38.5	14.2	36.2	14.7	36.2	19.1	30.9	22.7	26.9	27.8
1.4	41.2	13.8	38.9	14.2	38.9	18.4	33.3	22.0	29.1	26.9
1.6	44.4	13.3	42.1	13.7	42.1	17.7	36.4	21.2	32.0	26.1
1.8	47.4	12.9	45.0	13.1	45.0	17.0	39.1	20.4	34.6	25.3
2.0	50.0	12.5	47.6	12.6	47.6	16.3	41.7	19.8	37.0	24.4
2.24	52.8	12.1	50.4	12.1	50.4	15.7	44.4	19.0	39.7	23.6
2.5	55.6	11.6	53.2	11.6	53.2	15.0	47.2	18.2	42.4	22.7
2.8	58.3	11.2	56.0	11.3	56.0	14.6	50.0	17.5	45.2	21.8
3.15	61.2	10.8	58.9	10.6	58.9	13.7	52.9	16.6	48.0	21.0
3.55	64.0	10.4	61.7	10.1	61.7	13.1	55.9	16.0	51.0	19.6
4.0	66.7	10.0	64.5	9.6	64.5	12.4	58.8	15.1	54.0	19.0
4.5			67.2	9.1	67.2	11.8	61.6	14.5	57.0	18.1
5.0			69.4	8.7	69.4	11.2	64.1	13.8	59.5	17.2
5.6							66.7	13.2	62.2	16.5
6.3							69.2	12.4	64.9	15.3
7.1							71.7	11.8	68.2	14.2
8.0							74.0	11.0	70.2	12.3
10.0							78.1	9.9	74.6	11.7

Longitudinal profiles						
Wx(cm ³)	0.0077		0.0077		0.0150	
S(mm)	=11.5		=11.5		=12	
slot width w(mm)	a%	weight kg/m ²	a%	weight kg/m ²	a %	weight kg/m ²
0.2	8.3	34.5				
0.25	10.2	34.0				
0.315	12.5	33.5	10.1	38.7		
0.4	15.4	33.0	12.5	38.2	10.5	47.7
0.5	18.5	32.0	15.2	37.2	12.8	46.6
0.63	22.3	31.5	18.4	35.9	15.6	45.2
0.8	26.7	30.0	22.2	34.3	19.0	43.5
1.0	31.2	29.0	26.3	32.8	22.7	41.6
1.25	36.2	28.0	30.8	31.0	26.9	39.5
1.4	38.9	27.0	33.3	30.0	29.1	38.5
1.6	42.1	26.0	36.3	28.8	32.0	37.3
1.8	45.0	25.5	39.1	27.7	34.6	35.8
2.0	47.6	24.5	41.6	26.7	37.0	34.7
2.24	50.4	23.5	44.5	25.6	39.7	33.5
2.5	53.2	22.8	47.1	24.5	42.4	32.1
2.8	56.0	21.8	50.0	23.4	45.0	31.0
3.15	58.9	21.0	52.9	22.3	48.0	29.0
3.55	61.7	19.5	55.9	21.1	51.0	28.0
4.0	64.5	19.0	58.8	20.0	54.0	26.6
4.5	67.2	18.0	61.6	18.9	57.0	25.0
5.0	69.4	17.2	64.1	17.9	59.5	23.9
5.6	71.8	16.5	66.6	17.0	62.2	22.7
6.3	74.1	15.5	69.2	16.0	64.9	22.0
7.1	76.3	14.0	71.7	15.0	68.2	20.0
8.1	78.4	12.5	74.0	14.0	70.2	18.6
10.0	82.0	11.5	78.1	12.4	74.6	16.5



Stilling feed chute



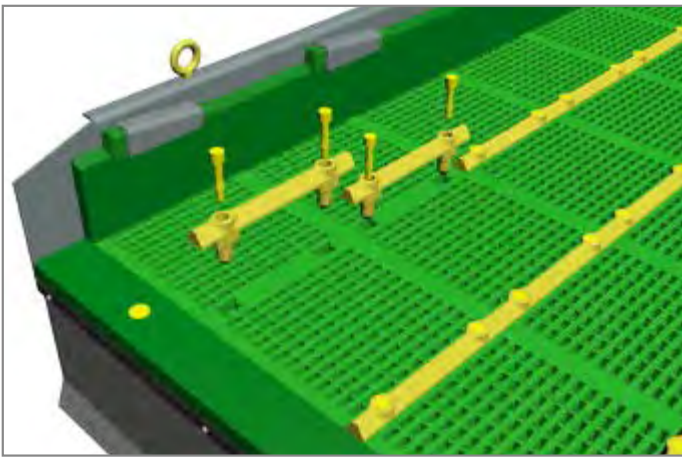
Pinch chute



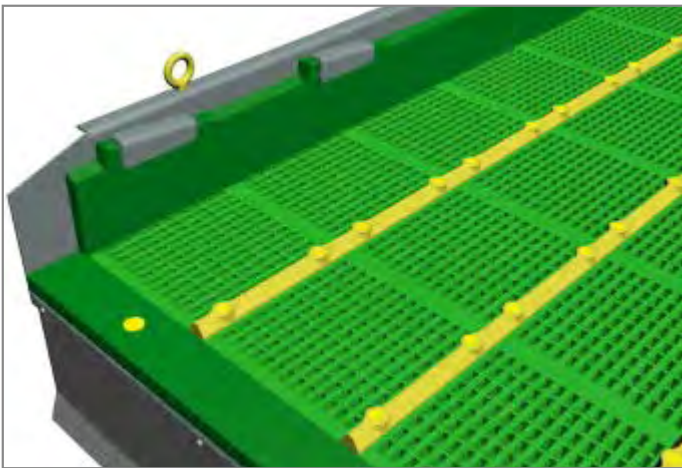
Shallow stilling feed chute



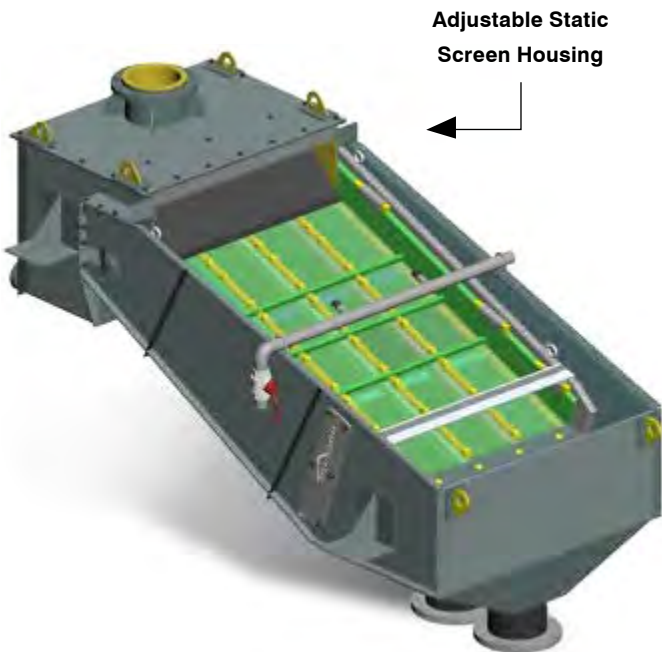
Flat bottom feed chute



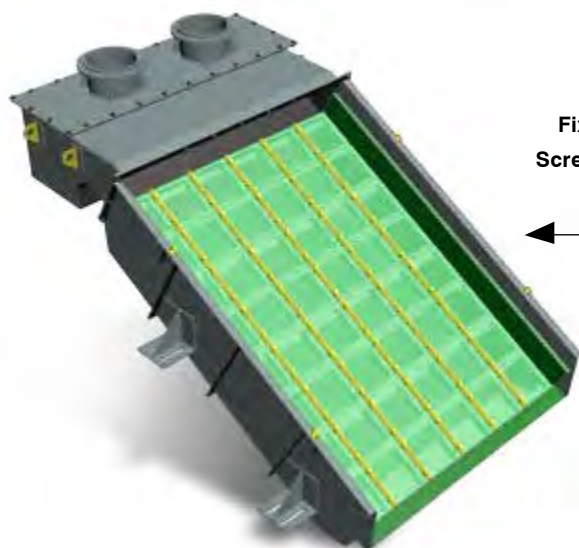
Plug-in Deflectors being installed



Plug-in Deflector prevents tramming



**Adjustable Static
Screen Housing**



**Fixed Static
Screen Housing**

Linings

- A variety of linings are available to suit all applications:
- High alumina ceramic tiles for long life in abrasive applications
- Wear resistant epoxies for long life and reduced fire hazard
- Impact resistant rubber lining

Feed Chutes

The feed chute is either a flat bottomed feed chute for valuable minerals, a pinch chute type for large particles or stilling feed boxes for -15 mm particle sizes.

The stilling feed chute arrangement is to reduce the velocity and turbulence and spread the feed evenly across the screen width to optimise efficiency.

Static Screen Dimensions

Multotec manufactures a range of Static Screens complete with feed chute, housing, screen deck and integral under pan from 305 to 3 000 mm wide and 915 to 6 100 mm long.

Screen Panels

The screen panels are generally standard modular polyurethane or rubber 305 x 305 x 30 mm thick panels with slotted apertures in the direction of flow.

Static Screen Design

- Designed to suit customer requirements
- Typically inclined between 27° and 35° down
- Fixed units are at a set, predetermined angle
- Adjustable units are pivoted at one end and during commissioning the optimum slope is determined to maximise screening efficiency

Plug-in Deflectors

Static Drain Screens are fitted with deflector strips as a standard.

- Replaces pin and sleeve
- Minimises tramming along solid borders of panel
- Deflects material onto the screening surface, maximising screening efficiency



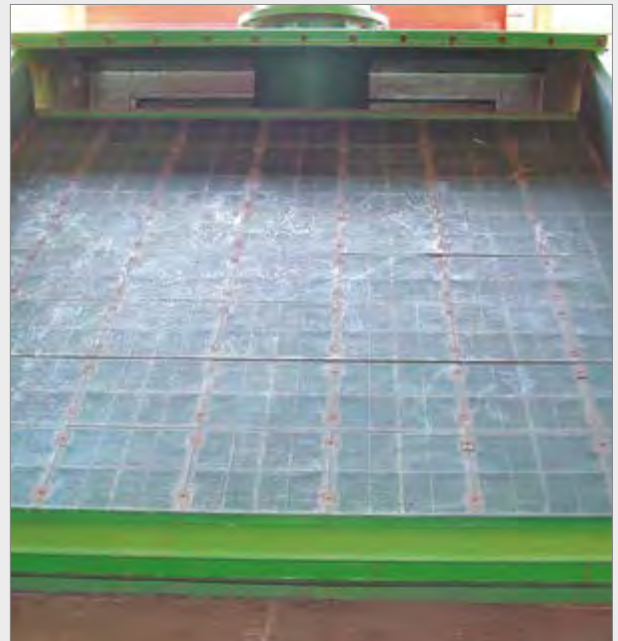
Static Screen Housing



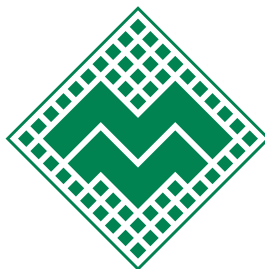
**Stilling feed chute lined with ceramic tiles
(optional rubber lining).**



**Static Screen Housing complete with reversible feed
launder system.**



**Static Screen Housing with modular polyurethane
panels installed (optional Polywedge panels).**



MULTOTEC

Australia – Brisbane

Tel: +61 (7) 3442 0100
Fax: +61 (7) 3200 7733
Email: sales@multotec.com.au

Australia – Perth

Tel: +61 (8) 9406 3500
Fax: +61 (8) 9302 1732
Email: sales@multotec.com.au

Canada – Edmonton

Tel: +1 (780) 433 8825
Fax: +1 (780) 433 8836
Email: canada@multotec.com

Canada – Montréal

Tel: +1 (450) 651 5858 (ext. 203)
Fax: +1 (450) 651 0002
Email: canadam@multotec.com

Chile

Tel: +56 (2) 745 3317/3302
Fax: +56 (2) 745 3432
Email: chile@multotec.com

Botswana

Tel: +267 297 4524/4525
Email: botswana@multotec.com

Ghana

Tel: +233 302 517 821
Email: multotec@multotec.wa.com

Mozambique

Tel: +258 25 240057
Cell: +258 84 064 9544
Email: mozambique@multotec.com
moz@multotec.com

South Africa

Tel: +27 (0) 11 923 6000
Fax: +27 (0) 11 394 8701/5099
Email: marketing@multotec.com

Zambia

Tel: +260 212 313 354
Fax: +260 212 312 422
Email: multotec@multotec.co.zm

www.multotec.com

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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.