



EXTRACTING SOLUTIONS

FILTERMAXX[®]
Vacuum Filter Belts

Introduction:

Oriental Rubber has over 70 years' experience in manufacturing belts covering all facets of the mining and conveying industry. With our exceptional track record, and proven capabilities to customize belts, we offer our FILTERMAXX™ range.

In order to cater to the unique demands of each filtration process, our FILTERMAXX belts are constructed using our proprietary compounding technology so that they can withstand prolonged exposure in harsh conditions requiring acid, heat and chemical resistance.

With FILTERMAXX, you can trust us for the best extracting solutions for your filtration needs.

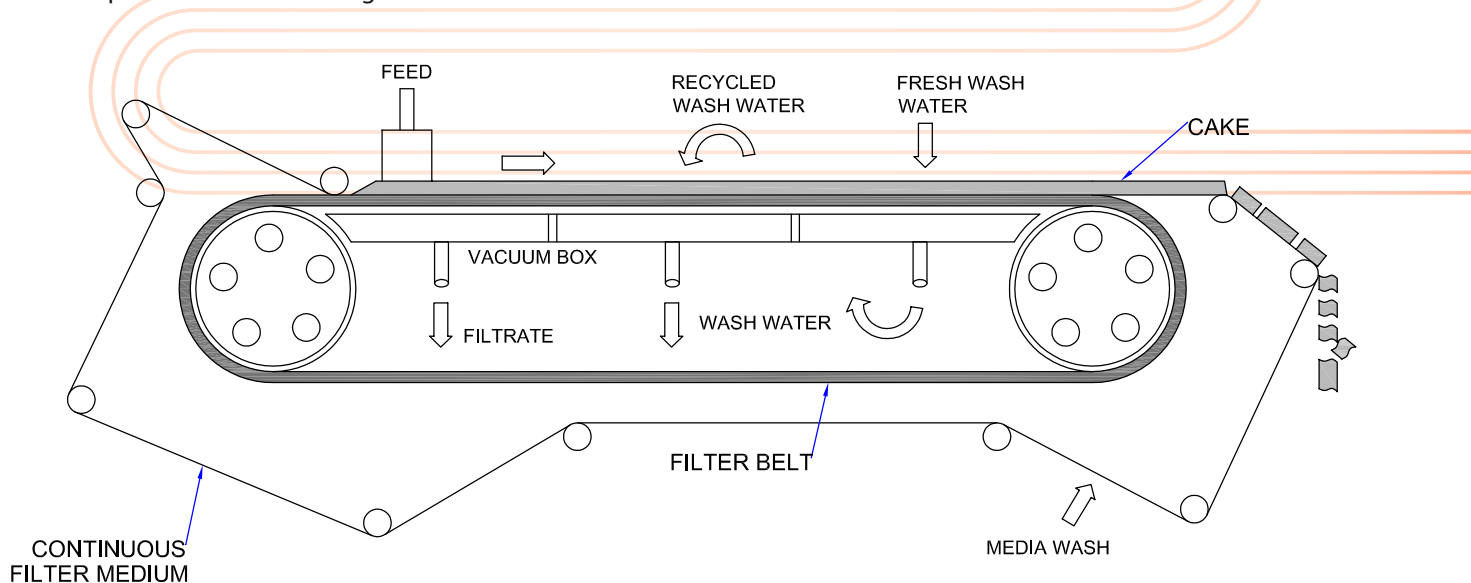
Our advanced, computer aided manufacturing and purpose-built infrastructure is geared for a minimum of 5 years assured performance*.

With our FILTERMAXX belts and proven technology, you can be rest assured that we are always extracting the best solutions for your filtration needs.



Principle of Operation:

Fluid component from the feed is drawn through the filter cloth by means of Vacuum Suction by collecting in Filter Belts' grooves which runs beneath the filter cloth and channelled off. The Filter belt has drainage hole at the center which leads fluid component to the collecting duct.

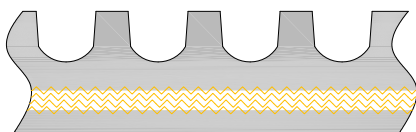


Why FilterMaxx:

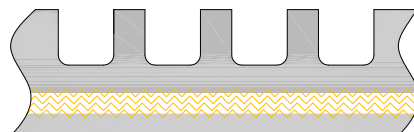
- Filter belts are used to remove or reduce the number of impurities in a fluid supply.
- To support the filter cloth to perform its function efficiently.

1. Grooves

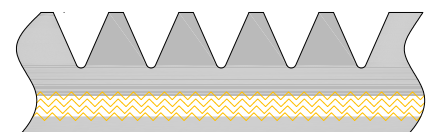
Filter belt Grooves guide waste water/filtrate from filter cloth towards the drainage hole from which it is transferred through vacuum hose. FILTERMAXX is offered with following options for grooves.



ROUND- SHAPED GROOVE



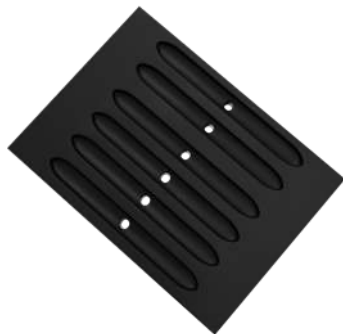
'U' SHAPED GROOVE



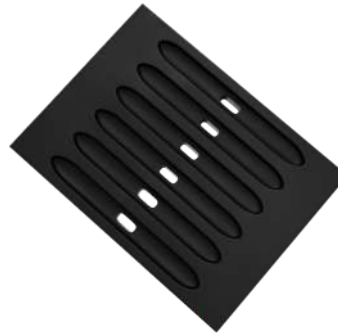
'V' SHAPED GROOVE

2. Drainage Holes

Drainage holes lead the filtrate towards the collecting duck. Oriental offers following types of drainage holes -



Round Hole



Oval Hole

3. Curbs or Skirts

Curbs

Curbs increase the capacity of drainage belt and prevents spillage of carrying material. Oriental offers curbs of following types:

a. Lateral Straight Shape

(Height 75 mm base 65 mm)

To be applied both by hot vulcanization and Cold bonding.

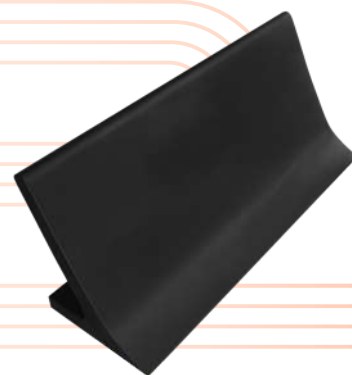
b. Lateral Straight Shape

(Height 125 mm base 85 mm)

To be applied both by hot vulcanization and cold bonding.

c. Corrugated Curbs

(Base 75 mm – height 150 mm) To be applied only by cold bonding



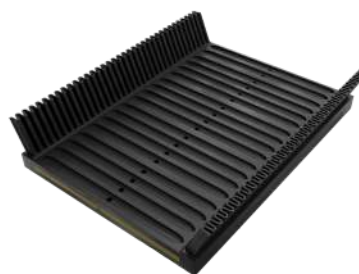
Lateral Straight Shape



Corrugated Curbs



Belt with Lateral Straight Curbs



Belt with Corrugated Curbs

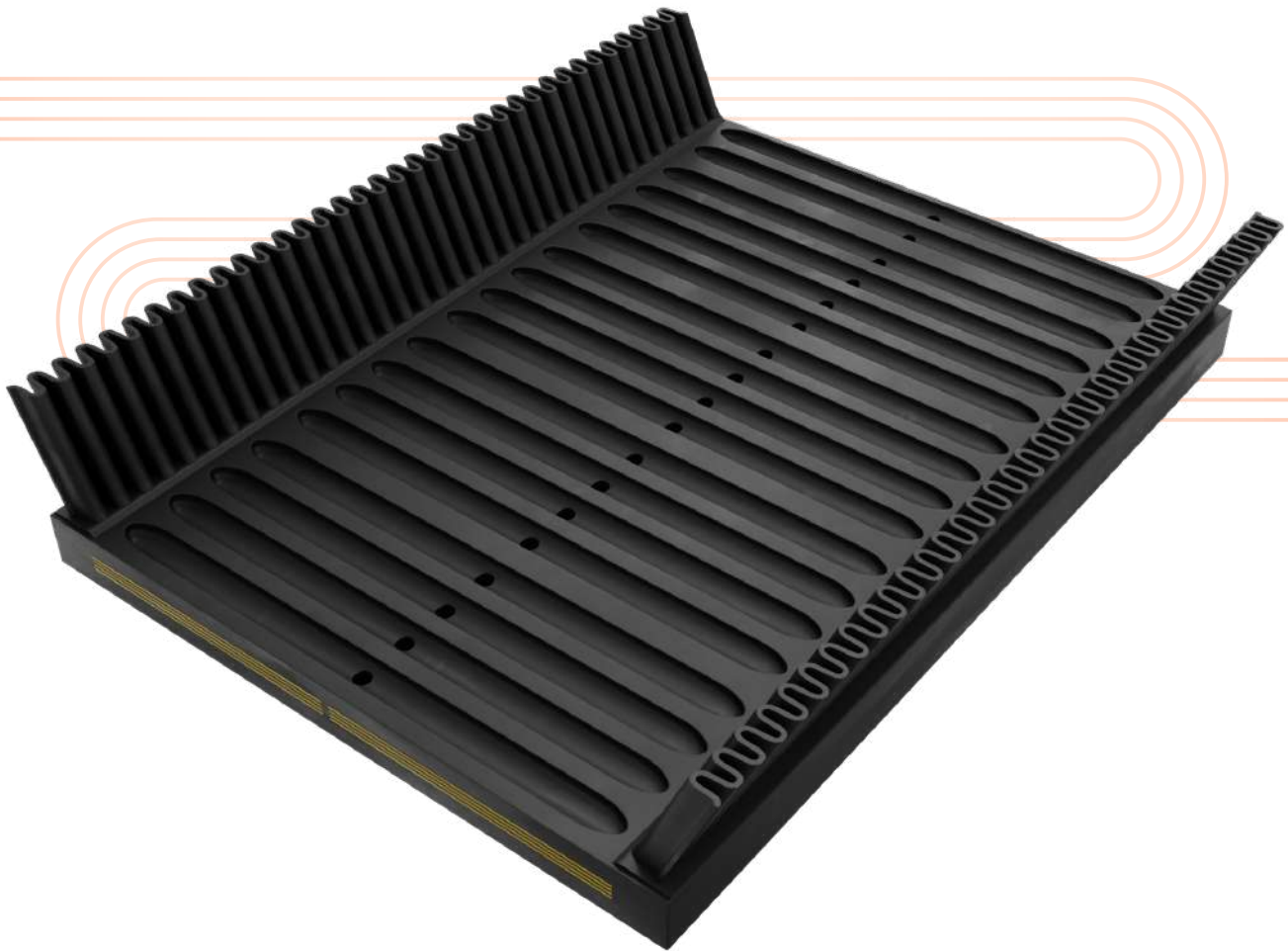
4. Fabric free drainage zone

In most cases the textile carcass of the belt must be protected from the filtered media. Oriental Offers filter belts with a textile free drainage zone. The textile carcass is completely secured with rubber and separated from both the drainage holes and the belt edges, thus protecting the carcass from both chemical and thermal degradation.

Drilling and Grooving

Grooves can be realized:

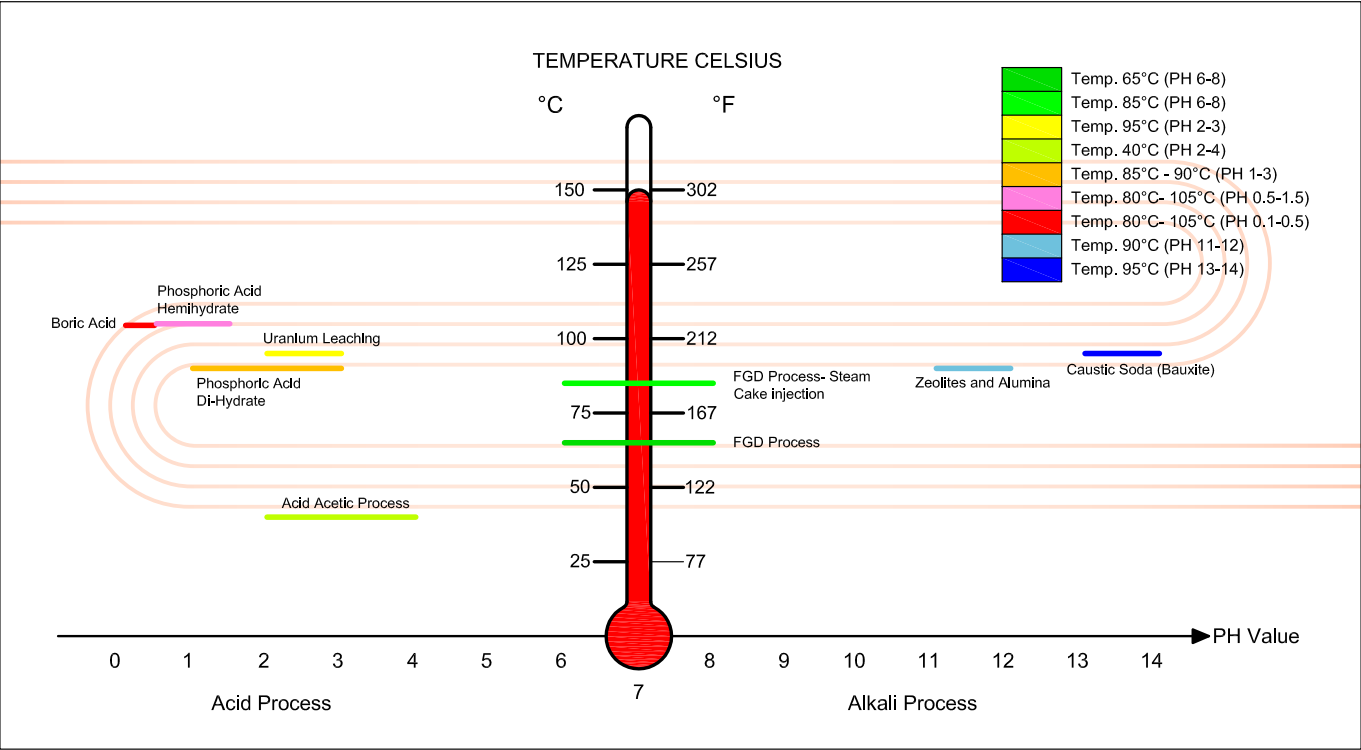
- Flat (no inclination between center and edges)
- Sloped (with inclination between center and edges)



Cover Compounds

FILTERMAXX Belts are offered with following available compound suitable for desired applications.

FilterMaxx is offered with following compound options depending upon the type of applications	
Styrene Butadiene Rubber (High Temperature) - SBR HT	Chlorobutyl - CIIR
Nitrile Rubber - BR	EPDM - Ethylene-Propylene Diene Monomer
Natural Rubber - NR	Styrene Butadiene Rubber (Medium temperature) - SBR MT
Hypalon - CSM	Bromobuty - BIIR
Neoprene - CR	



Product Characteristics:

- Common Width : Up to 4200 mm (upto 166" wide, other widths on request)
- Carcass Variety Available : EE/EP/NN
- Common Belt Rating : EE 500/3, EE 630/4, EE 800/4, EE 1000/5 (PIW 275/330/440/600, other ratings on request)
- No. of Plies : 3 Ply to 5 Ply
- Rubber cover Thickness : As per customer requirement
- Edge : Moulded Edge
- Belt Identification : Unique Product Identification Number at every 10 Meter

Splicing of FilterMaxx

- Belts can be manufactured endless with Hot Vulcanized Splicing
- Belts can be spliced at installation site with hot or cold splicing
- Curbs can be manufactured along with the belt or manufactured and dispatched to customer separately for Hot or Cold Vulcanizing Splicing.

Filter Belt Audit Sheet

Date: _____

Conducted By: _____

Customer Information

Customer:		Contact Person:	
Department/ Division:		Phone:	
Conveyor No.:		Email:	

Conveyor Information

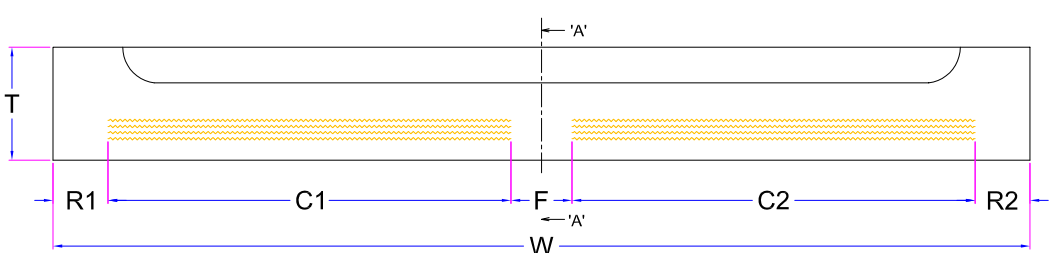
Conveyor Length: (C-C)		O.E.M.		Capacity:		tph	
Material Conveyed:		Water Content		Bulk Density		Cubic Mtr.	
Belt Speed:		Belt Weight/Mtr.					

Driver Motor Details

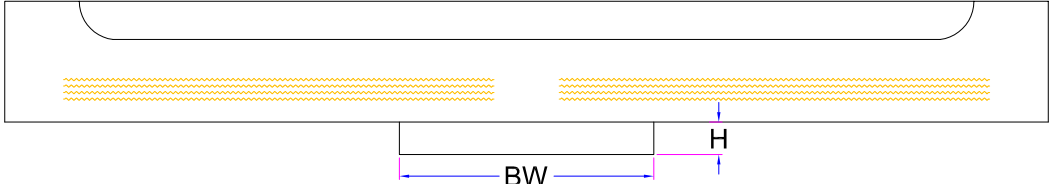
Drive Motor	Single <input type="checkbox"/>	Dual <input type="checkbox"/>	Location of Drive:		Voltage:	
Actual Current Drawn:	Start:	Run:	Motor Horsepower:			

Main Belt Information

Belt Mfg:		Cover Grade		Splice Style:	
Belt Width:		Cover Pattern	Smooth <input type="checkbox"/> Impression <input type="checkbox"/>	Carcass Free Zone	Centred <input type="checkbox"/> Eccentric <input type="checkbox"/>
Belt Rating/ Number Plies:		Top Cover:		Bottom Cover:	
Carcass Free Zone Width:		Present belt Life:		Running Hr./day	
Nature of Failure:					

	Dimension	MM
	W	
	T	
	R1	
	R2	
	C1	
	F	

Bottom Guide Information

	Dimension	MM
	BW-	
	H-	

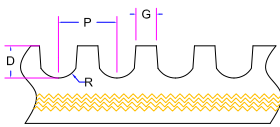
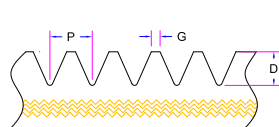
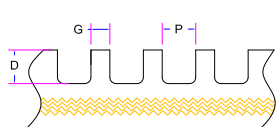
Wear Belt Information

Belt Width:		Belt Rating/No. of Plies		Cover Grade	
Present belt Life:		TBT		Running Hr./day	
Nature of Failure:					

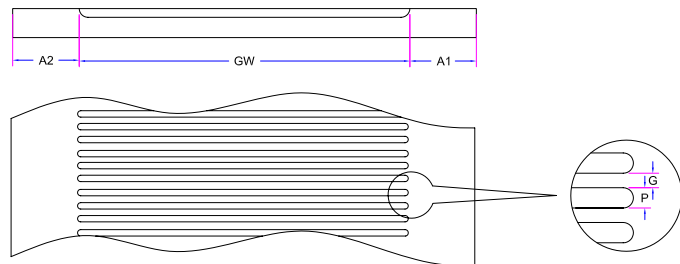
Filter Cloth Information

Filter Cloth Mfg:		Specifications:	
Comments:			

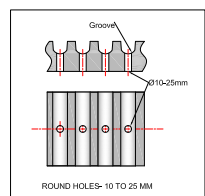
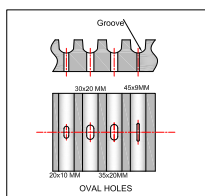
Groove Information

				Dimension	MM
 ROUND- SHAPED GROOVE	 'V' SHAPED GROOVE	 'U' SHAPED GROOVE	P-		
			G-		
			D-		
			R-		
Round Shaped <input type="checkbox"/>	V-Shaped <input type="checkbox"/>	U-Shaped <input type="checkbox"/>	Other <input type="checkbox"/> (Please Specify)		

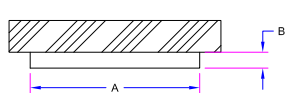
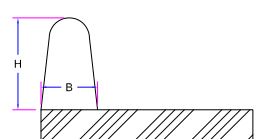
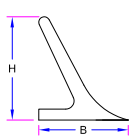
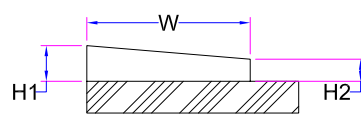
Groove Impression

		Dimension	MM
	P-		
	G-		
	GW-		
	A1-		
	A2-		

Drainage Hole Details

		D-		
 ROUND HOLES- 10 TO 25 MM	 OVAL HOLES	P		
		GW-		
		A1-		
		Hole Pitch		
		Through Rib- <input type="checkbox"/>		
Single Hole <input type="checkbox"/>	Double Hole <input type="checkbox"/>	Oval <input type="checkbox"/>	Other <input type="checkbox"/> (Please Specify)	Through Groove- <input type="checkbox"/>

Skirt Information

		A-		
   	B-			
	H-			
	H1-			
	H2-			
Flap <input type="checkbox"/>	Cleat <input type="checkbox"/>	Wedge <input type="checkbox"/>	Flange <input type="checkbox"/>	Other <input type="checkbox"/> (Please Specify)

Comments:

INDUSTRIES



Mining



Chemical Refining



Food Processing



Fertilizer



Locations shown are for graphical representation only. Map is not to scale.

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Wear Resistant



Heat Resistant



Oil Resistant

FILTERMAX[®]
Vacuum Filter Belts

