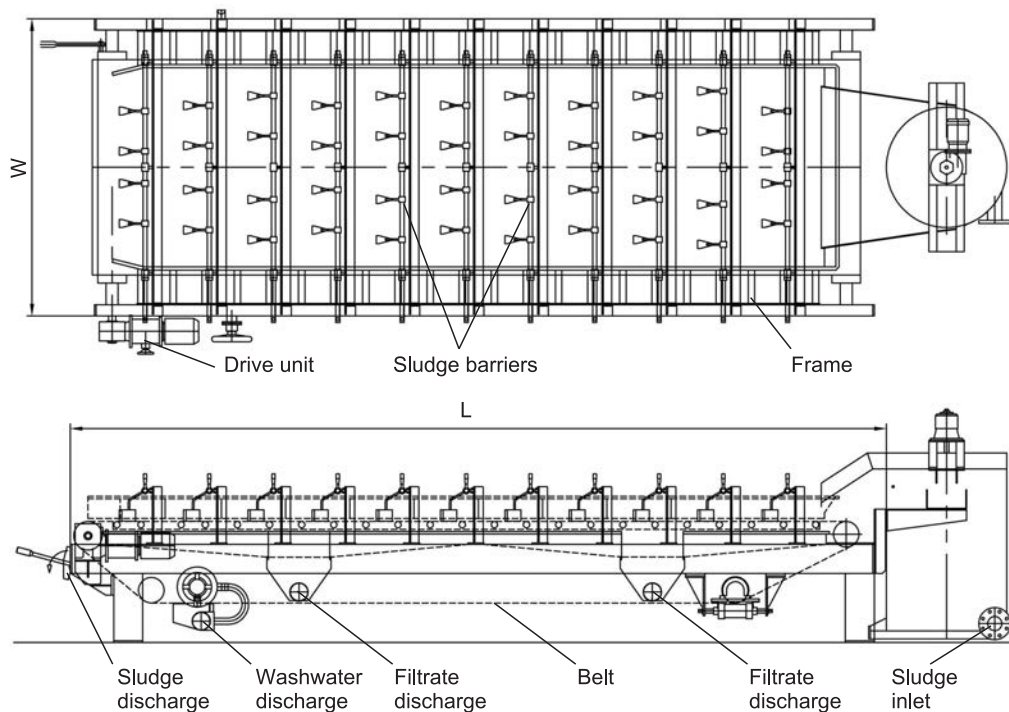


BELT THICKENER

Sludge thickening is the process of increasing the solids content of sludges from primary and/or secondary settling tanks. Belt thickeners widely serve to reduce the size of the subsequent sludge dewatering steps in treatment plants. Belt thickeners is used as a separate machine to provide sludge thickening or it can be integrated with beltpress to provide better dewatering results at the end. Standart sizes are with 1000 mm, 1500 mm, 2000 mm and 2500 mm belt width and supplied with necessary accessories.



Belt thickener consists of following main parts;

Frame: Frame is the main supporting structure of belt thickener and it is manufactured from galvanized carbon steel or stainless steel materials.

Belt and sludge barriers: It consists of one piece belt for sludge conveying and filtration. Polyethylene sludge barriers are lined above the belt to sludge distribution homogeneously and to induce sludge dewatering.

Belt tensioning and belt tracking rollers: One roller is existing in order to adjust belt tension and another roller to provide belt tracking by moving up and down from one side. The rollers are driven by a pneumatic piston. Tensioning roller is manufactured from nylon 11 (rilan) coated carbon steel or stainless steel depending on application, tracking roller is made of rubber lined carbon steel.

Drive roller and drive unit: Each belt thickener has one drive roller connected to drive unit which includes gearbox and motor.

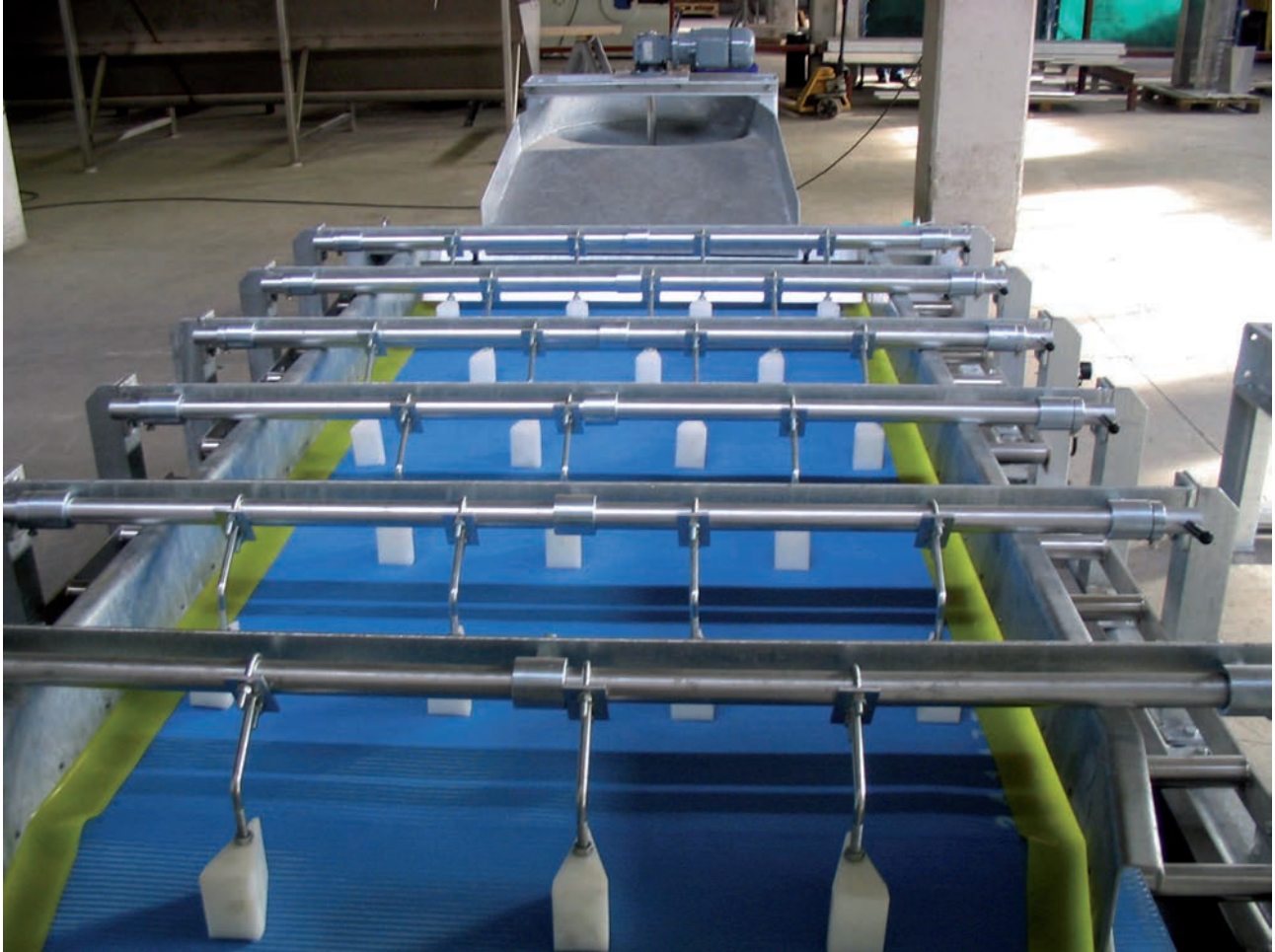
Washing nozzles and collection trays: Belt thickeners have stainless steel belt washing and filtrate water collection systems to clean the belt before starting a new cycle. Water free of suspended material should be used as wash water.

Specifications	Model	BT1000	BT1500	BT2000	BT2500
Total belt width, mm		1200	1700	2200	2700
Effective belt width, mm		1000	1500	2000	2500
W, width, mm		1690	2190	2710	3290
L, length, mm		2995	4150	2995	4150
Belt tensioning		Pneumatic	Pneumatic	Pneumatic	Pneumatic
Belt alignment		Pneumatic+mechanic	Pneumatic+mechanic	Pneumatic+mechanic	Pneumatic+mechanic
Washing water requirement		5 m ³ /h - 5.5 bar	7 m ³ /h - 5.5 bar	10 m ³ /h - 5.5 bar	13 m ³ /h - 5.5 bar
Air requirement		50 lt/min - 6-8 bar	50 lt/min - 6-8 bar	50 lt/min - 6-8 bar	50 lt/min - 6-8 bar
Belt speed, m/min		3.5 - 11 m/min	3.5 - 11 m/min	3.5 - 11 m/min	3.5 - 11 m/min
Motor power for belt, kW		0.55	0.55	0.55	0.55
Motor power for mixer, kW		0.12	0.12	0.12	0.12

MAN 4710 06.09-E



BELT THICKENER



Standard accessories:

- Inlet and sludge distribution assembly
- Washing nozzles
- Pneumatic systems for tarcking and tensioning
- Polyethylene scraper blades

Optional accessories:

- Local control panel
- Washing pump
- Air compressor
- Mixing tank and mixer



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