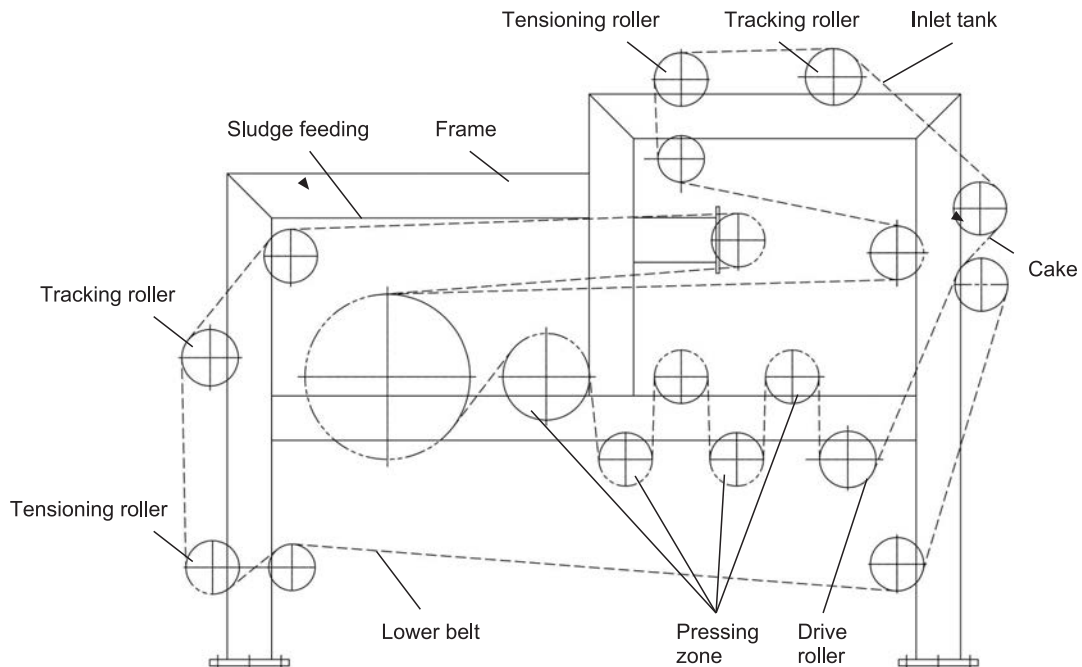


# BELTPRESS

Thickened sludge still contains excess amount of water and needs to be dewatered. Beltpress is a sludge dewatering machine designed for continuous operation and widely used in treatment works, from middle to large capacity plants.



Beltpress consists of following main parts;

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

**Belt:** Beltpress machine consists of 2 separate belts at lower and upper section of the unit for sludge conveying and filtration. Each belt has different length with own rollers, tensioning & tracking system and washing nozzles.

**Belt tensioning roller:** Each belt is dedicated with one roller to adjust their tension. The rollers are driven by a pneumatic piston. Tensioning rollers are manufactured from nylon 11 (rilan) coated carbon steel or stainless steel depending on application.

**Belt tracking roller:** A roller for each belt provides belt tracking by moving up and down from one side. Tracking rollers are controlled by a pneumatic sensor located at one side and two mechanical sensors located at both sides. The rollers are made of rubber lined carbon steel.

**Pressing zone:** Beltpress unit has 7 rollers at pressing zone. Pressure applied on sludge, is increased by using different roller diameters (from large to small). Pressing rollers are manufactured from nylon 11 (rilan) coated carbon steel or stainless steel depending on application.

**Drive roller:** Each beltpress has one drive roller connected to drive unit, which includes gearbox and motor.

**Washing nozzles and collection trays:** Beltpresses have stainless steel belt washing and filtrate water collection systems. Each belt has its own washing nozzle system to clean before starting a new cycle. Water free of suspended material should be used as wash water.

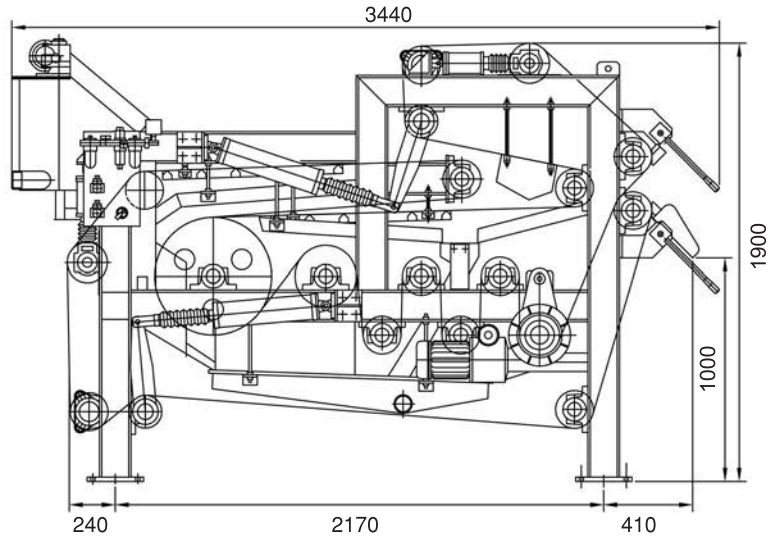
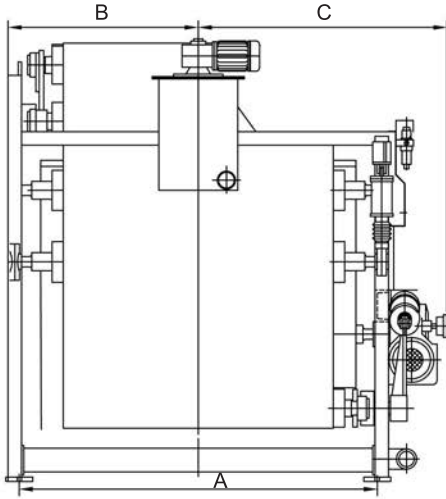
## Standard accessories:

- Inlet and sludge distribution assembly
- Washing box for upper and lower belts
- Pneumatic systems for tracking and tensioning
- Polyethylene scraper blades for upper and lower belts

## Optional accessories:

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

# BELTPRESS



Specifications	Model	BP1000	BP1500	BP2000	BP2500
Total belt width, mm		1200	1700	2200	2700
Effective belt width, mm		1000	1500	2000	2500
Upper belt length, mm		9560	9560	9560	9560
Lower belt length, mm		12660	12660	12660	12660
Dimensions A, mm		1090	1590	2090	2590
Dimensions B, mm		600	850	1100	1350
Dimensions C, mm		830	1080	1330	1580
Belt tensioning		Pneumatic	Pneumatic	Pneumatic	Pneumatic
Belt alignment		Pneumatic+mechanic	Pneumatic+mechanic	Pneumatic+mechanic	Pneumatic+mechanic
Washing water requirement		10 m <sup>3</sup> /h - 5.5 bar	15 m <sup>3</sup> /h - 5.5 bar	20 m <sup>3</sup> /h - 5.5 bar	25 m <sup>3</sup> /h - 5.5 bar
Air requirement		100 lt/min - 6-8 bar	100 lt/min - 6-8 bar	120 lt/min - 6-8 bar	120 lt/min - 6-8 bar
Belt speed, m/min		1.2 - 4	1.2 - 4	1.2 - 4	1.2 - 4
Motor power for belt, kW		0.75	0.75	0.75	1.1
Motor power for mixer, kW		0.12	0.12	0.12	0.25

