



## DEWA BTN “Heavy Duty” Gravity Belt Thickener

The DEWA BTN GRAVITY BELT THICKENER is a fully enclosed system, designed to considerably increase the solids content of the feed sludges. The monocoque construction enables odour containment within the unit, simplifying odour extraction by the education pipe located on the top cover. This revolutionary design concept creates a clean and odour-free environment.

Electrical and pneumatic components as well as bearings are located outside of the BTN frame, which makes it easy to maintain and observe. Another unique feature of the BTN is that it can interconnect with FP (belt filter press) as a combined sludge dewaterer.

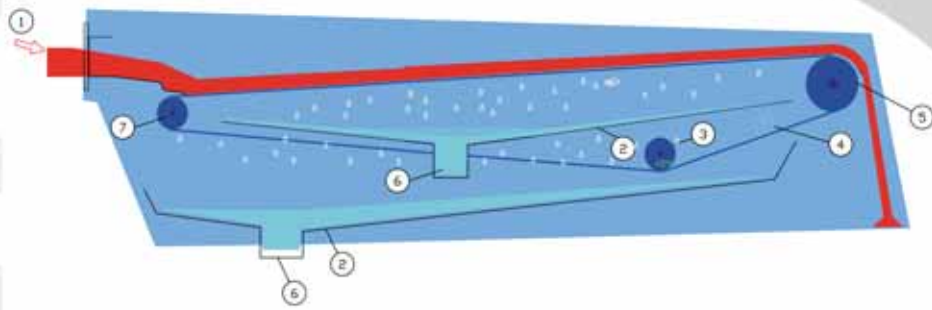
Specially designed ploughs enable the opening and turning of the sludge mat and penetration of excess water. The transverse beams located underneath of the belt provides downward pressure for improved water removal and prevents formation of surface tension.

## Advantages

- Fully enclosed (odour-free environment)
- Compact (small space requirement)
- Low energy consumption
- High capacity handling (up to 500m<sup>3</sup>/hr)
- Flexibility of the system in order to reach high results
- Rigid, non-corrosive frame construction
- Fully automated operation
- Low requirement of spares
- Customer satisfaction guaranteed



**BTN  
FLOW DIAGRAM**



1. Sludge Feeding
2. Filtrate Water Tray
3. Belt Steering Roller
4. Belt Washing System
5. Drive Roller
6. Filtrate Discharge
7. Belt Tensioning Roller

**BTN CAPACITY TABLE**

MODEL	BTN1020	BTN1035	BTN1520	BTN1535	BTN2020	BTN2035	BTN2520	BTN2535	BTN3020	BTN3035
Belt width mm	1100	1100	1600	1600	2100	2100	2600	2600	3100	3100
Effective filtrate area m <sup>2</sup>	2.0	3.5	3.0	5.3	4.0	7.0	5.0	8.8	6.0	10.5
Sludge flow m <sup>3</sup> /h	10-30	20-40	15-35	40-90	25-60	90-120	40-90	80-150	150-350	150-350
DS capacity kg DS/h	-500	350-1100	300-1000	500-2000	400-1500	700-2800	500-2000	800-3500	700-2800	1200-5000

**BTN DIMENSION TABLE**

MODEL	BTN1020	BTN1035*	BTN1520	BTN1535*	BTN2020	BTN2035*	BTN2520	BTN2535*	BTN3020	BTN3035*
Lenght mm	2700	4500	2700	4500	2700	4500	2700	4500	2700	4500
Width mm	1900	1900	2400	2400	2950	2950	3450	3450	3950	3950
Height mm	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
Weight kg	750	1100	1000	1350	1250	1600	1450	1800	1650	2000
Power kW	0.37	1.1	0.37	1.1	0.55	1.5	0.55	1.5	0.75	2.2

DEWACO receives the rights to modify these specifications

**DEWACO LIMITED**  
 Raviraitti 3, FIN-23800 LAITILA, Finland  
 TEL +358 2 461 800  
 Fax +358 2 461 8400  
 EMAIL info@dewaco.fi