

## **DEWA BTN "HEAVY DUTY"**

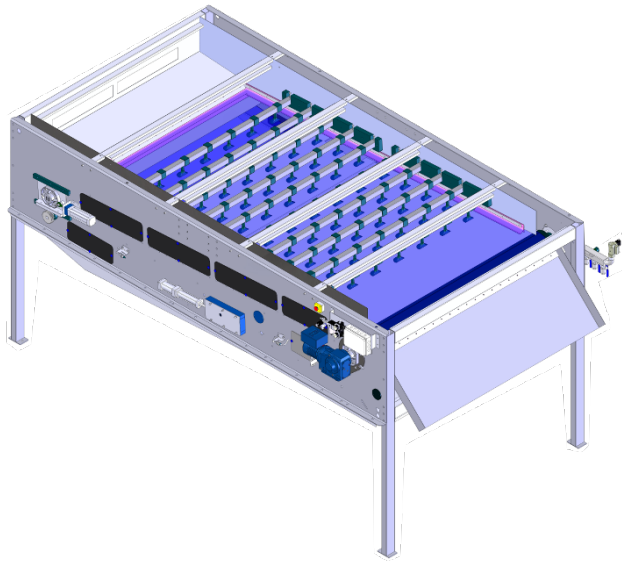
GRAVITY BELT THICKENER





# DEWA BTN "HEAVY DUTY"

## GRAVITY BELT THICKENER



The DEWA BTN Gravity Belt Thickener is a fully enclosed system, designed to increase the dry solid concentration of the feed sludge considerably. Enclosed construction enables odor containment within the unit, simplifying odor extraction by the ventilation pipe located on the top of the cover. This advanced and sophisticated design concept creates a clean and odor-free environment.

Electrical and pneumatic components as well as bearings are located outside of the thickener unit frame, which makes it easy to maintain and observe. Another unique feature of the BTN is that it can be interconnected with DEWA Belt Filter Presses as a combined sludge dewatering unit for high dewatering volumes.

Specially designed ploughs enable the opening and turning of the sludge mat and penetration of for excess water. The transverse beams located underneath of the belt provide downward pressure for improved water removal and prevents formation of surface tension. High quality stainless steel material and components make the BTN Belt Thickener robust and reliable

### BTN CAPACITY AND DIMENSION TABLE

MODEL	BTN1020	BTN1035	BTN1535	BTN2035	BTN2535	BTN3035
Belt width, mm	1100	1100	1600	2100	2600	3100
Effective filtrate area, m <sup>2</sup>	2,0	3,5	5,3	7,0	8,8	10,5
Sludge flow, m <sup>3</sup> /h	5-20	10-30	15-45	20-60	30-80	40-100
DS capacity, kg DS/h	300	300-500	450-750	600-1000	900-1500	1200-1200
Length, mm	2700	4500	4500	4500	4500	4500
Width, mm	1900	1900	2400	2950	3450	3950
Height, mm	1600	1600	1600	1600	1600	1600
Weight, kg	750	1100	1350	1600	1800	2000
Power, kW	0,37	0,37	0,37	0,55	0,55	0,75

### Key Features

- Fully enclosed and compact design
- Low energy consumption
- Capacity for high sludge volumes
- Alternative configuration possibilities
- Rigid, non-corrosive frame construction
- Fully automated operation
- Low spare part requirement

  
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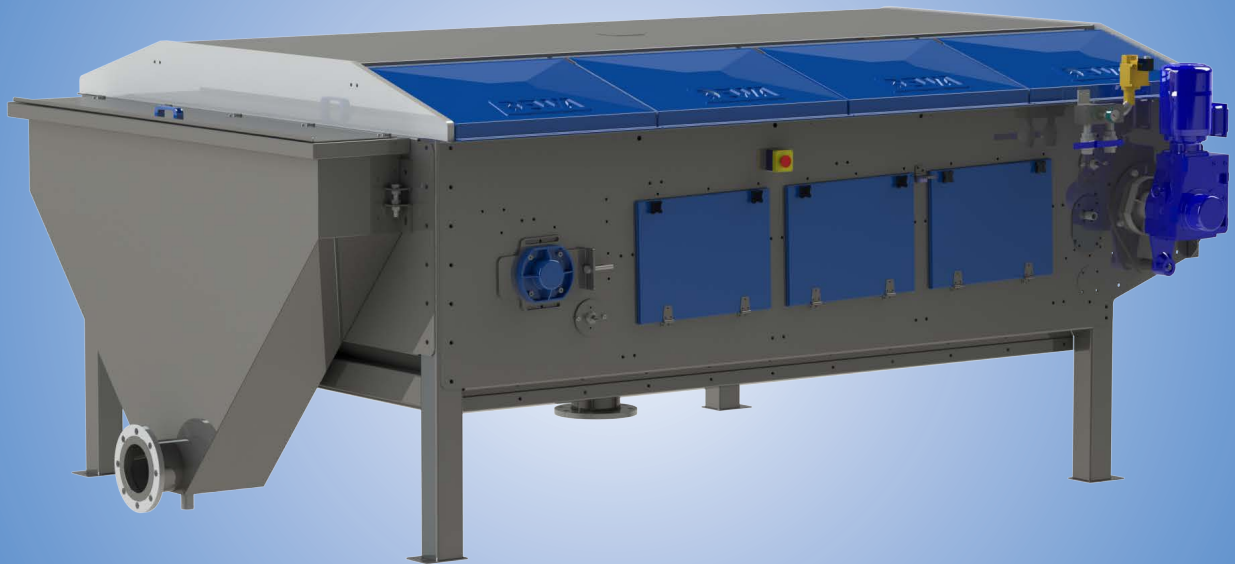
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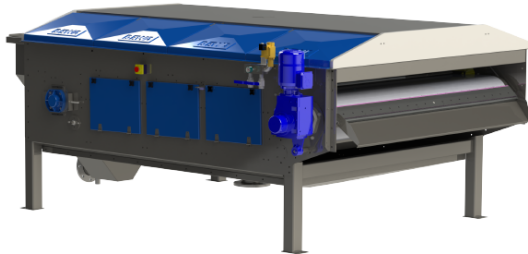
**DEWA HGT THICKENER**  
GRAVITY BELT THICKENER





# DEWA HGT THICKENER

## GRAVITY BELT THICKENER



The DEWA HGT thickener is designed to considerably increase the dry solid concentration of the incoming sludge. Enclosed construction enables odor containment inside of the unit. Wide belt speed range provides flexibility and adaptivity for changes in sludge volumes. High quality stainless steel material and components make the thickener robust and reliable.

Specially designed DEWA "Duck foot" ploughs open and turns the sludge mat, enhancing the free water release. The transverse beams underneath the belt provide downward pressure, improving water removal and pre-venting the formation of surface tension.

Bearings are located outside of the thickener unit frame, which makes the unit easy to maintain. Static belt steering and mechanical belt tensioning reduce the need for maintenance and auxiliary equipment. This feature together with high grade plastic lifting covers maximizes the user friendliness of DEWA HGT Belt Filter Thickener.

DEWA HGT can be interconnected with DEWA VDP Belt Filter Presses as a combined sludge dewatering unit for high volume rates.

MODEL	HGT 1025	HGT1525	HGT 2025	HGT 1040	HGT 1540	BTN 2040
Belt width mm	1000	1500	2000	1000	1500	2000
Effective filtrate area m <sup>2</sup>	2.5	3,75	5	4	6	8
Max hydraulic flow m <sup>3</sup> /h	35	55	70	60	95	130
Max DS capacity kg DS/h	350	500	750	600	900	1200
Length mm	3700	3700	3700	5200	5200	5200
Width mm	1650	2150	2650	1650	2150	2650
Height mm	1500	1500	1500	1500	1500	1500
Weight kg	1020	1290	1550	1270	1540	1800
Power kW	1,50	1,50	1,50	1,50	1,50	1,50

### Key Features

- Wide belt speed range
- Efficient and economical
- Lifting hatches on the top
- No need for pneumatics or hydraulics
- All models suitable for container transportation
- Can be equipped with DEWA pressuring plate
- Can be equipped with DEWA Filtrate water recycle system

  
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