

DNY ROTARY DRUM THICKENING BELT PRESS



Principle

The belt press is used for dewatering of sludge from different industries.

After flocculation, the sludge is concentrated in the drum, followed by the press of two belts, which have S-shaped arrangement. After the discharge of sludge cakes, the belts are washed and cleaned for next dewatering cycle.



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Technical Data and External Dimensions of Belt Press

| | | DNY-500 | DNY-750 | DNY-1000 | DNY-1250 | DNY-1500 | DNY-1500L | DNY-1750 | DNY-2000 |
|--|-------------------|----------|---------|----------|----------|----------|-----------|----------|----------|
| Filtration belt width (mm) | | 500 | 750 | 1000 | 1250 | 1500 | 1500 | 1750 | 2000 |
| Capacity (m³/hr, SS: 1.5-2.5%) | | 3.0-5.2 | 4.5-7.5 | 6.5-10.5 | 7.5-12.5 | 9.5-16 | 12-20.5 | 15-24.5 | 18-30 |
| Dry sludge output (kg/hr) | | 45-78 | 68-113 | 98-158 | 113-188 | 143-240 | 180-308 | 225-368 | 270-450 |
| Water content in sludge (%) | | 63-85 | | | | | | | |
| Power consumption (HP) | Belt motor | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1 | 1 | 1 |
| | Mixer | 1/4 | 1/4 | 1/2 | 1/2 | 3/4 | 3/4 | 3/4 | 1 |
| | Thickener | 1/4 | 1/4 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 | 3/4 |
| Filtrate collection plate | | Attached | | | | | | | |
| Dimensions | L | 2600 | 2600 | 2600 | 2600 | 2700 | 3300 | 3300 | 3400 |
| | W | 1050 | 1300 | 1550 | 1800 | 2150 | 2150 | 2400 | 2650 |
| | H | 2500 | 2700 | 2700 | 2900 | 2900 | 2900 | 2900 | 3300 |
| Weight (kg) | | 830 | 1000 | 1210 | 1450 | 1850 | 2200 | 2450 | 2850 |