

BORMET

SCREENINGS WASHER / COMPACTOR

HIGH EFFICIENCY RWK MODEL



Spaans  Babcock

Screenings Washer / Compactor RWK Model

The BORMET RWK Washer / Compactor is designed to wash, dewater and compact fine screenings material. Fine screens remove organic material with the screenings. If not removed from the screenings, the organic material can create disposal issues. Using a screenings washer will remove the organic material from the screenings, returning it back into the treatment process. In the washer / compactor, the screenings are washed then dewatered and finally compacted to reduce the volume for disposal.

Design Features

The BORMET Washer / Compactor, RWK Model, has three zones: the washing zone, the dewatering zone and the compacting zone. Each zone has design features specifically to enhance the operation of the RWK.

Washing Zone

The washing zone is designed to gently mix and wash the screenings material to separate both soluble and insoluble organic compounds from the screenings. Two solid shafts fitted with mixing blades, agitate the screenings at a very low speed in a deep water bath. This gentle action washes out the organic compounds but does not break-up or damage the inorganic materials.

Dewatering Zone

After the washing zone, the water, with the organic material, is separated from the inorganics in the dewatering zone. The twin-screw conveyor design transports the screenings material passed a perforated plate system that provides highly efficient water removal.

Compacting Zone

The compacting zone squeezes the loose screenings material to remove air voids and water pockets. Volume reductions up to 70% are achieved in the RWK.

The BORMET RWK washer / compactor, is extremely flexible in design and can be fabricated to suit any configuration and layout. It can also be adapted to fit any existing screen or transportation equipment. The RWK can be fabricated from 304 or 316 stainless steel and the drive systems are custom designed to maximize power usage to suit each application.

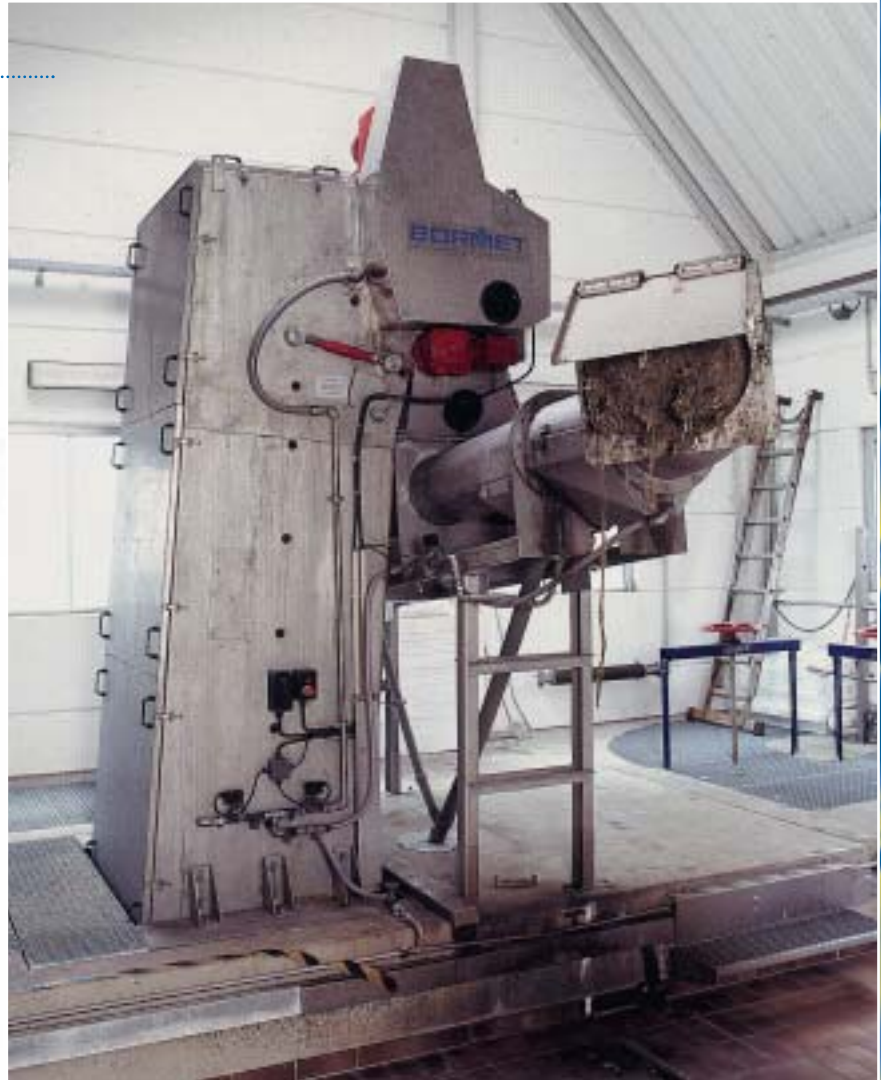


Fine screen with washer/compactor and conveyor system

*Washer / compactor
with fine screen*

Easy Maintenance

While providing a high degree of performance, the BORMET RWK washer / compactor is simple to maintain. The design and construction allows all maintenance and repairs to be performed without any special training or special tools. Due to the low rotational speeds, wear is kept to a minimum. All drive, seal and bearing components are easily and readily accessible from outside the machine. Easily removable covers are supplied as standard equipment with each fine screen to contain odors.

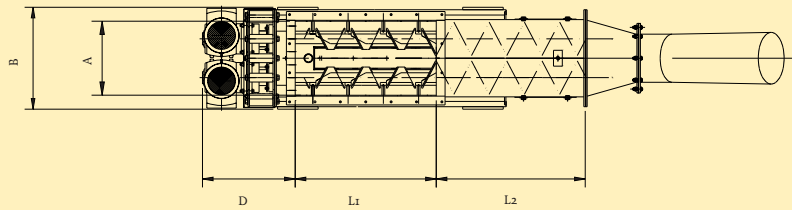
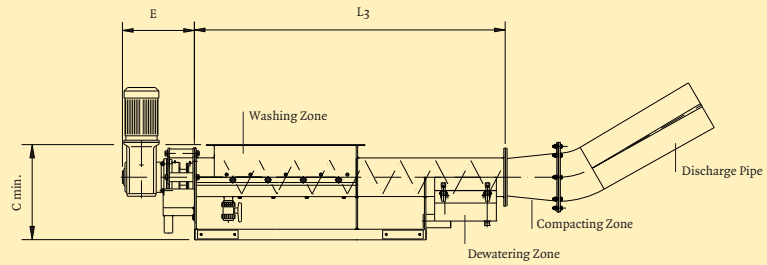


Advantages

- Volume Reduction up to 70%
- Weight Reduction up to 80%
- Reduced Disposal Costs due to Reduced Volume and Weight
- Low Wash Water Consumption
- Low Energy Costs
- Self-contained for odor control
- Easily Adapted to Suit Existing Equipment
- Low Maintenance Costs



*Fine screen with
washer / compactor*



Model		RWK 20	RWK 30	RWK 40	RWK 50
Throughput Capacity (at discharge)	m ³ /hr	2.0	4.0	8.0	14.0
	ft ³ /hr	70.6	141.2	282.4	494.2
Water Consumption	m ³ /hr	0.5	1.0	1.5	2.0
	gal/hr	132	264	396	528
Drive Motors	kW	2 x 1.5	2 x 2.0	2 x 2.5	2 x 3.5
	hp	2 x 2.0	2 x 2.5	2 x 3.5	2 x 5.0

Model		A	B	C	D	E	L1	L2	L3
RWK 20	mm	430	580	540	451	313	800	843	1781
	inch	16.9	22.8	21.3	17.8	12.3	31.5	33.2	70.1
RWK 30	mm	640	790	655	612	487	1000	1048	2173
	inch	25.2	31.1	25.8	24.1	19.2	39.4	41.3	85.6
RWK 40	mm	805	924	738	1040	912	1200	1305	2633
	inch	31.7	36.4	29.1	40.9	35.9	47.2	51.4	103.7
RWK 50	mm	1008	1348	859	1042	912	1500	1610	3240
	inch	39.7	53.1	33.8	41.0	35.9	59.1	63.4	127.6

Lengths L1, L2 and L3 are subject to change to suit installation

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