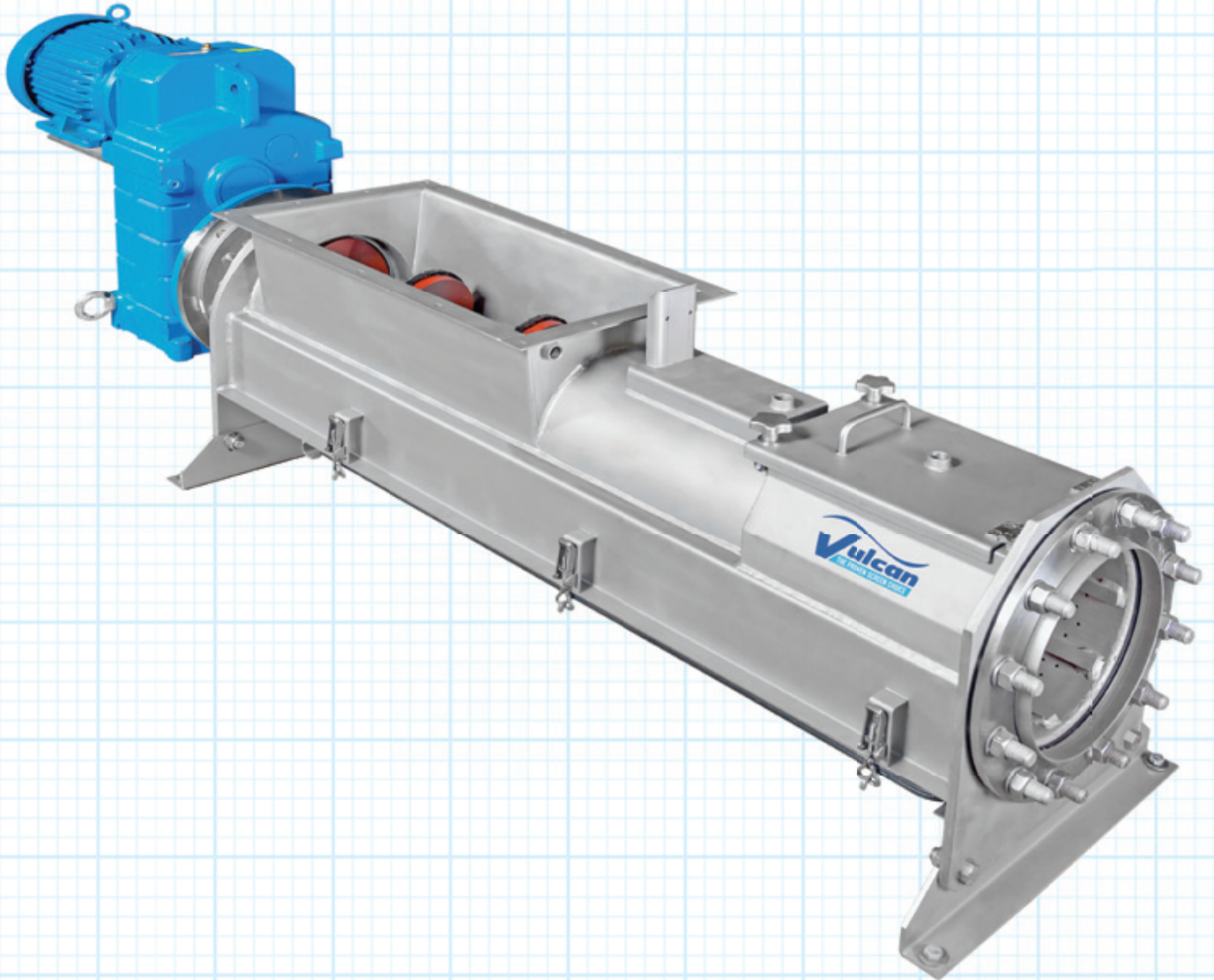


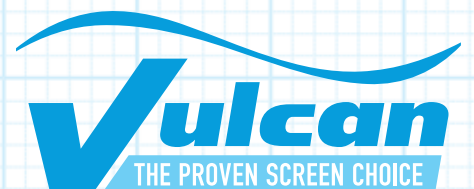


Model EWP Washing Press

Product Information Guide

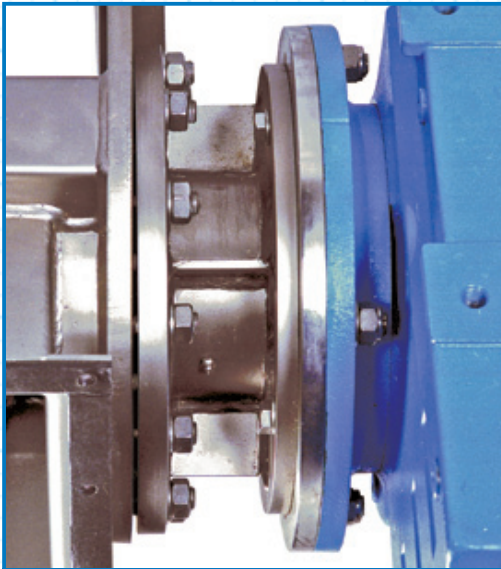


Find more product information at:
vulcanindustries.com





Model EWP Washing Press



A detail of the axial thrust bearing that connects the gear reducer to the press body and the shafted spiral. This bearing handles the load created during compaction and carries the overhung load of the spiral. This protects the gear reducer and extends the life of the unit.

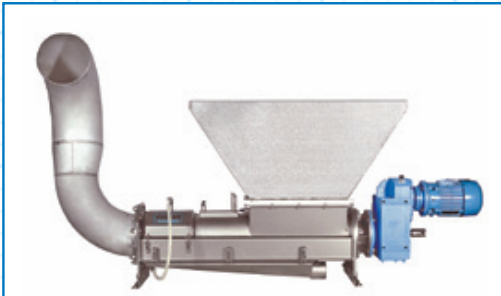
The **Model EWP Washing Press** is a spiral press used to wash organic matter out of screenings material. The Washing Press washes, dewateres, compacts and transports screenings to a conveyor, container or other suitable receiving device.

Construction

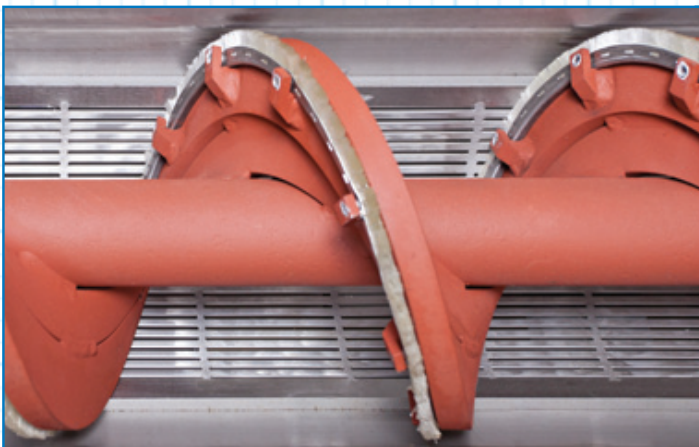
The Washing Press consists of a press body with separate washing and dewatering sections, hollow shaft spiral, axial thrust bearing (see photo on left), gear reducer and motor, drain pan, washwater spray connections and sequencing valves.

The press body is constructed of stainless steel. A wedge wire drain constructed of individual profile bars is mounted on the bottom of the press and extends from the inlet hopper through the washing section. The wedge wire, with 2 mm spacings, guarantees clog-free drainage of the washwater, while ensuring screenings capture.

The spiral, of alloy steel construction, is welded to the hollow shaft. The hollow shaft contains perforations located in the washing zone to introduce washwater to the screenings from the inside out. A nylon brush is attached to the trailing edge of the spiral to ensure debris is thoroughly removed from the drainage area. The drain pan is constructed of stainless steel, and is located directly under the press body. A flushing nozzle periodically rinses the drain pan. Sealed with a gasket, and secured with a latching system, the drain pan is easily removed for service.



Model EWP Washing Press with an inlet hopper and discharge pipe. The inlet hopper can be directly connected to a primary screening device such as a Model FT Mensch Screen, Model VMR Multi-Rake Screen, or Model ESR Stair Screen, and can be fed by a conveyor or sluice trough. The discharge pipe can be fitted with a bagging assembly, or feed directly into a receiving container.

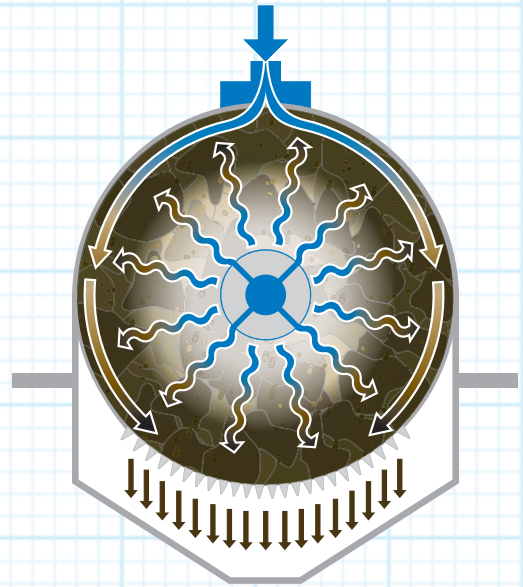


Note the substantial construction of the shafted spiral. A nylon brush is affixed to the trailing edge of the spiral to ensure the drain is clean, even when greasy material is present. Beneath the spiral you can see the wedge wire drain. The profiled bars (See section A-A on the diagram, right page) used in the drain construction allow for greater flow and prevent blinding. The spiral is cantilevered off the thrust bearing and does not rest in the housing. This reduces wear on the nylon brush and the press body by eliminating metal-to-metal contact.

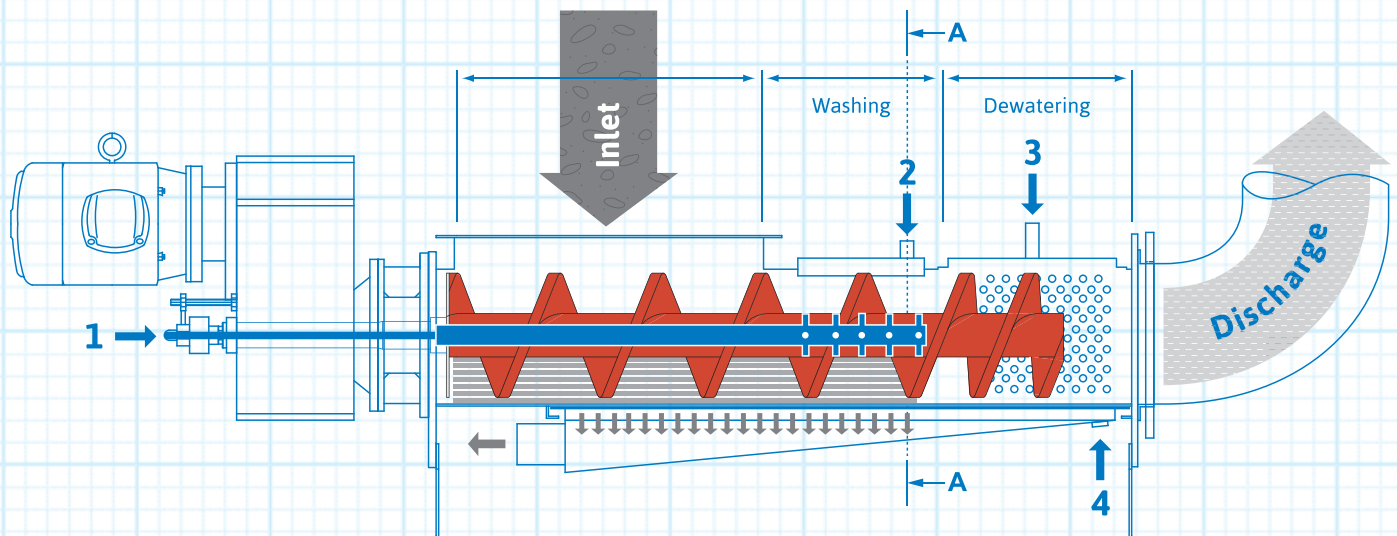
Operation

The Washing Press receives the screenings from a primary screening device, sluice trough, or conveyor through the inlet hopper. The spiral transports the screenings from the inlet to the washing zone where they are compacted and washed. In the washing zone, washwater is injected into the screenings from the openings in the hollow shaft of the spiral, and from a nozzle at the top of the unit.

To maximize washing, after the press compacts the screenings the spiral reverses, pulling apart the compacted screenings. The cycle is repeated a minimum of four times, recompacting the screenings and squeezing out excess washwater and organics. The repetition helps the press achieve up to 90% organic removal from the screenings. As the screenings move into the dewatering zone, the pitch of the spiral decreases, further compacting the screenings for maximum water extraction prior to entering the discharge pipe. From inlet hopper to discharge, the screenings volume is reduced from 70% up to 85%.



▲ Section A-A through the washing zone.

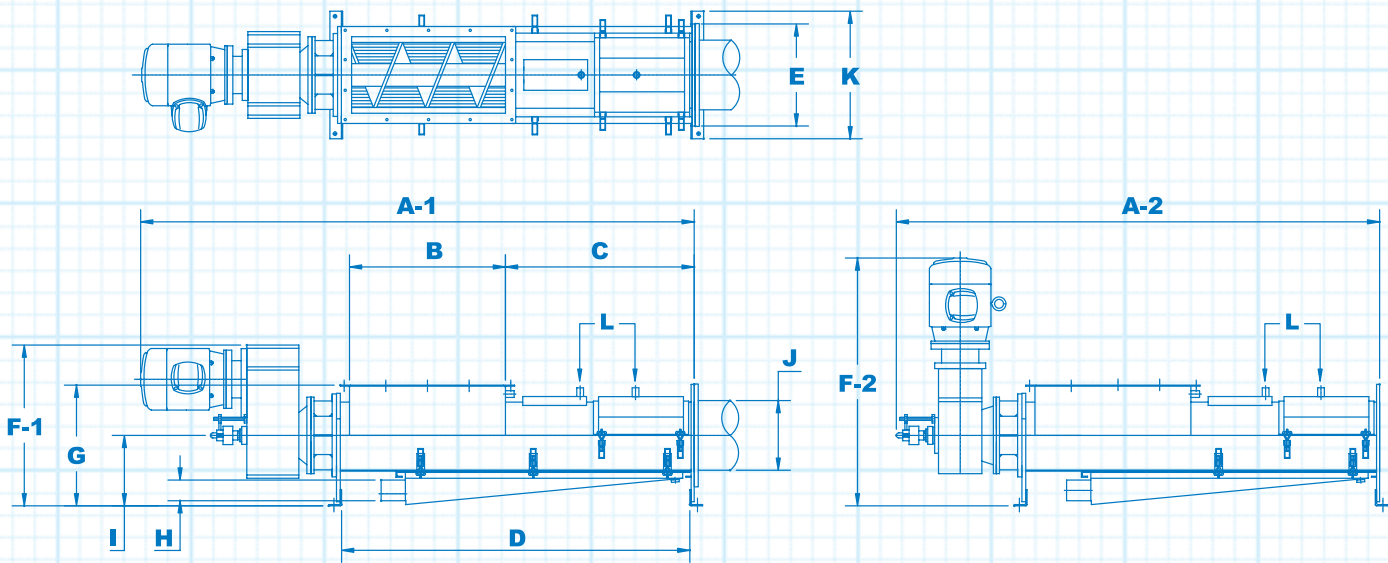


▲ Sequence of Valve Operations

- 1 Injects washwater into the washing zone through the hollow shaft spiral.
- 2 Injects washwater into the top of the washing zone.
- 3 Flushes dewatering zone.
- 4 Flushes drain pan.



Model EWP Washing Press



▲ Parallel Drive Configuration

▲ Right Angle Drive Configuration

Type	A-1	A-2	B	C	D	E	F-1	F-2	G	H	I	J	K	L	MOTOR
EWP 250/600	86"	75"	24"x10"	29"	57"	16"	24"	40"	19"	3"	12"	10"ø	20"	1/2"	5 HP
EWP 250/800	94"	83"	32"x10"	29"	65"	16"	24"	40"	19"	3"	12"	10"ø	20"	1/2"	5 HP
EWP 250/1000	101"	91"	40"x10"	29"	73"	16"	24"	40"	19"	3"	12"	10"ø	20"	1/2"	5 HP
EWP 250/1200	109"	97"	48"x10"	29"	81"	16"	24"	40"	19"	3"	12"	10"ø	20"	1/2"	5 HP
EWP 250/1600	125"	113"	63"x10"	29"	92"	16"	24"	40"	19"	3"	12"	10"ø	20"	1/2"	5 HP
EWP 250/2000	141"	128"	78"x10"	29"	107"	16"	24"	40"	19"	3"	12"	10"ø	20"	1/2"	5 HP
EWP 300/600	98"	85"	24"x12"	34"	58"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 300/800	106"	93"	32"x12"	34"	65"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 300/1000	113"	100"	40"x12"	34"	73"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 300/1200	122"	108"	48"x12"	34"	81"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 300/1600	137"	124"	63"x12"	34"	96"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 400/600	117"	98"	24"x16"	42"	70"	23.5"	39"	62"	27.5"	4"	14.5"	16"ø	26"	3/4"	10 HP
EWP 400/800	125"	106"	32"x16"	42"	78"	23.5"	39"	62"	27.5"	4"	14.5"	16"ø	26"	3/4"	10 HP
EWP 400/1000	132"	114"	40"x16"	42"	86"	23.5"	39"	62"	27.5"	4"	14.5"	16"ø	26"	3/4"	10 HP
EWP 400/1200	141"	122"	48"x16"	42"	94"	23.5"	39"	62"	27.5"	4"	14.5"	16"ø	26"	3/4"	10 HP

▼ Input Capacity of Raw Screenings

Type	Continuous Mode	Batch Mode
EWP 250	Up to 99 ft ³ /hr	Up to 33 ft ³ /hr
EWP 300	Up to 159 ft ³ /hr	Up to 53 ft ³ /hr
EWP 400	Up to 247 ft ³ /hr	Up to 82 ft ³ /hr

▼ Wash Water Requirements

Type	Requirements
EWP 250	19 gpm at 35 psi minimum – 60 psi maximum
EWP 300	27 gpm at 35 psi minimum – 60 psi maximum
EWP 400	27 gpm at 35 psi minimum – 60 psi maximum

Find more product information at:
vulcanindustries.com

212 S. Kirlin Street
 Missouri Valley, Iowa 51555 USA
 712-642-2755 Fax 712-642-4256

