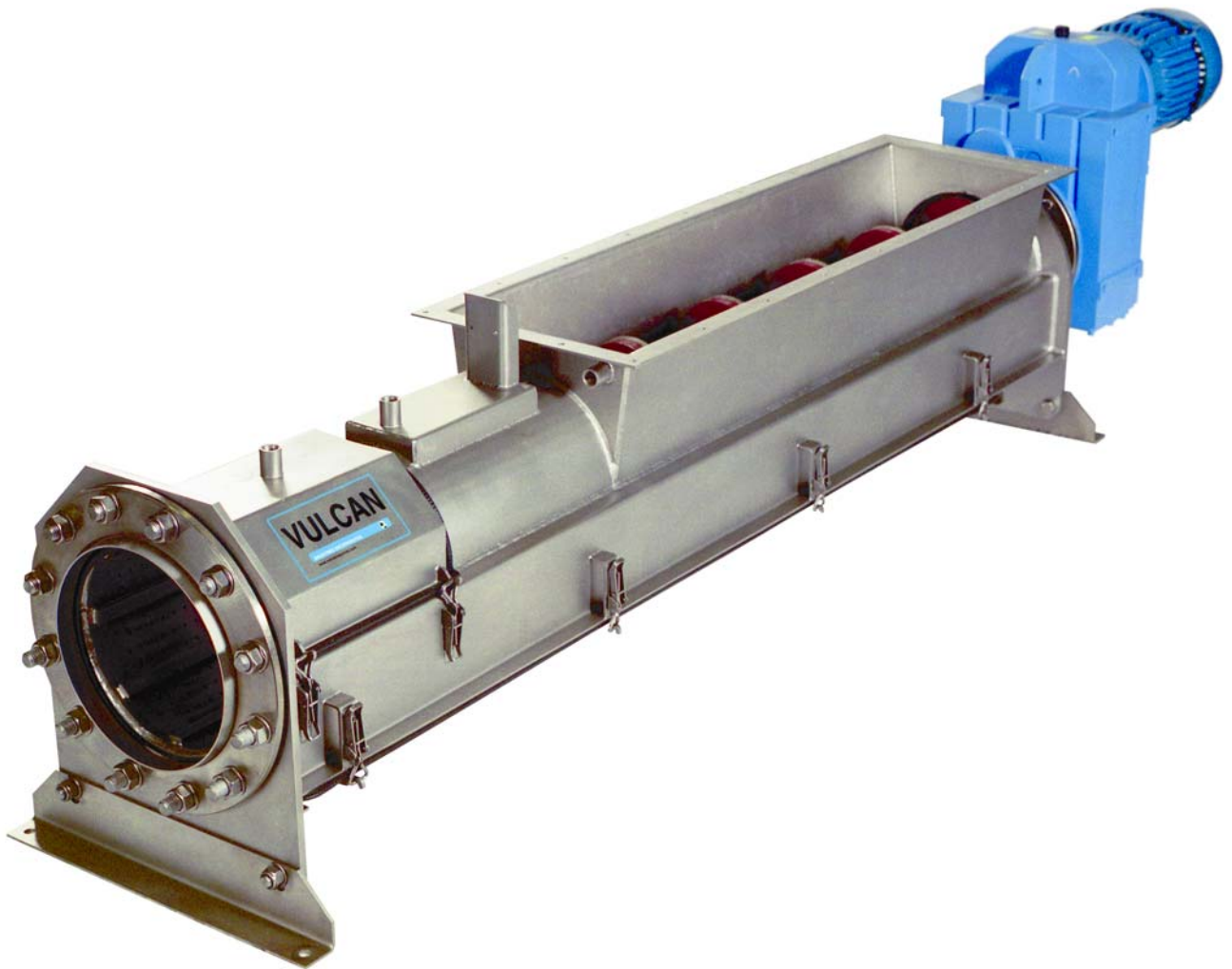




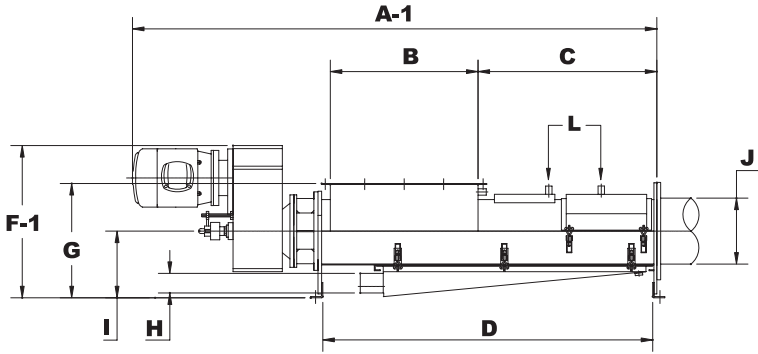
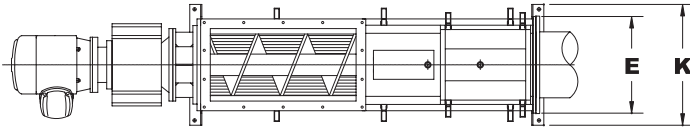
# VULCAN

INDUSTRIES, INC.

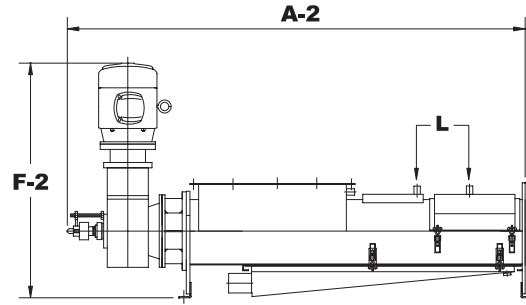


Model EWP  
WASHING PRESS

# Model EWP WASHING PRESS



**PARALLEL DRIVE**



**RIGHT ANGLE DRIVE**

Input Capacity of Raw Screenings		
Type	Continuous Mode	Batch Mode
EWP 150	Up to 49 ft <sup>3</sup> /hr	Up to 16.3 ft <sup>3</sup> /hr
EWP 250	Up to 99 ft <sup>3</sup> /hr	Up to 33 ft <sup>3</sup> /hr
EWP 300	Up to 159 ft <sup>3</sup> /hr	Up to 53 ft <sup>3</sup> /hr
EWP 400	Up to 247 ft <sup>3</sup> /hr	Up to 82.3 ft <sup>3</sup> /hr

Type	Wash Water Requirements
EWP 150	19 gpm at 35 psi minimum – 60 psi maximum
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

Type	A-1	A-2	B	C	D	E	F-1	F-2	G	H	I	J	K	L	MOTOR
EWP 150/600	81"	70.25"	24"x7"	25"	50.75"	12.5"	22.25"	36.5"	15.5"	2"	10.5"	6"ø	16"	1/2"	3 HP
EWP 150/800	89"	78.25"	32"x7"	25"	58.75"	12.5"	22.25"	36.5"	15.5"	2"	10.5"	6"ø	16"	1/2"	3 HP
EWP 150/1000	96.75"	86.25"	40"x7"	25"	66.75"	12.5"	22.25"	36.5"	15.5"	2"	10.5"	6"ø	16"	1/2"	3 HP
EWP 150/1200	104.75"	94.25"	48"x7"	25"	74.75"	12.5"	22.25"	36.5"	15.5"	2"	10.5"	6"ø	16"	1/2"	3 HP
EWP 250/600	85.5"	74.75"	24"x10"	29"	57"	16"	24"	40"	19"	4"	12"	10"ø	20"	1/2"	5 HP
EWP 250/800	93.5"	82.75"	32"x10"	29"	65"	16"	24"	40"	19"	4"	12"	10"ø	20"	1/2"	5 HP
EWP 250/1000	101.25"	90.75"	40"x10"	29"	73"	16"	24"	40"	19"	4"	12"	10"ø	20"	1/2"	5 HP
EWP 250/1200	109.25"	96.5"	48"x10"	29"	81"	16"	24"	40"	19"	4"	12"	10"ø	20"	1/2"	5 HP
EWP 250/1600	125.25"	112.5"	63"x10"	29"	92"	16"	24"	40"	19"	4"	12"	10"ø	20"	1/2"	5 HP
EWP 250/2000	141"	128"	78"x10"	29"	107"	16"	24"	40"	19"	4"	12"	10"ø	20"	1/2"	5 HP
EWP 300/600	97.5"	85"	24"x12"	34"	58"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 300/800	105.5"	93"	32"x12"	34"	65"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 300/1000	113.25"	100.5"	40"x12"	34"	73"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 300/1200	121.5"	108.5"	48"x12"	34"	81"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 300/1600	137"	124.25"	63"x12"	34"	96"	19"	30"	50"	22"	4"	13"	12"ø	21"	3/4"	7.5 HP
EWP 400/600	116.75"	97.75"	24"x16"	42"	70"	23.5"	39"	62"	25"	4"	14.5"	16"ø	26"	3/4"	10 HP
EWP 400/800	124.75"	105.75"	32"x16"	42"	78"	23.5"	39"	62"	25"	4"	14.5"	16"ø	26"	3/4"	10 HP
EWP 400/1000	132.5"	113.5"	40"x16"	42"	86"	23.5"	39"	62"	25"	4"	14.5"	16"ø	26"	3/4"	10 HP
EWP 400/1200	140.5"	121.5"	48"x16"	42"	94"	23.5"	39"	62"	25"	4"	14.5"	16"ø	26"	3/4"	10 HP

# Model EWP WASHING PRESS

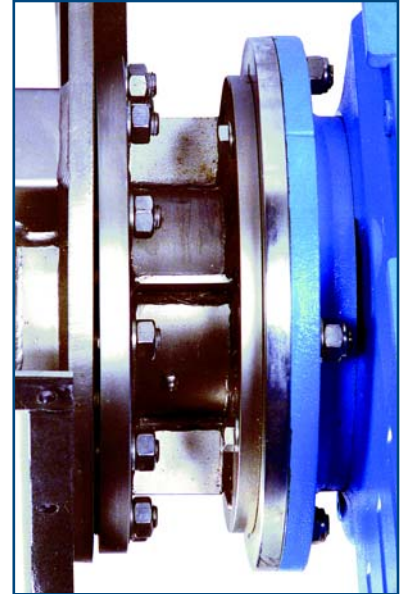
The Model EWP Washing Press is a spiral press used to wash organic matter out of screenings material. The Washing Press washes, dewateres, compresses and transports screenings to a conveyor, container or other suitable receiving device.

## CONSTRUCTION

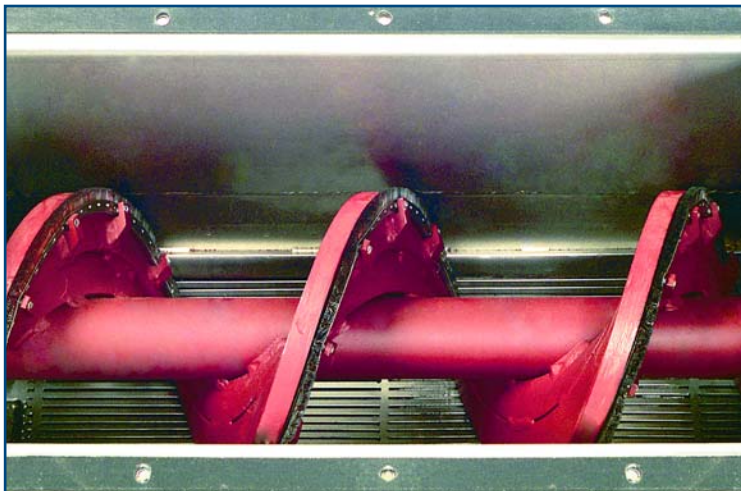
The Washing Press consists of a press body with separate washing and dewatering sections, hollow shaft spiral, axial thrust bearing (see photo on right), gear reducer and motor, drain pan, washwater headers and sequencing valves.

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 to the washing section. The wedge wire, with 2 mm spacings, guarantees clog-free drainage of the washwater.

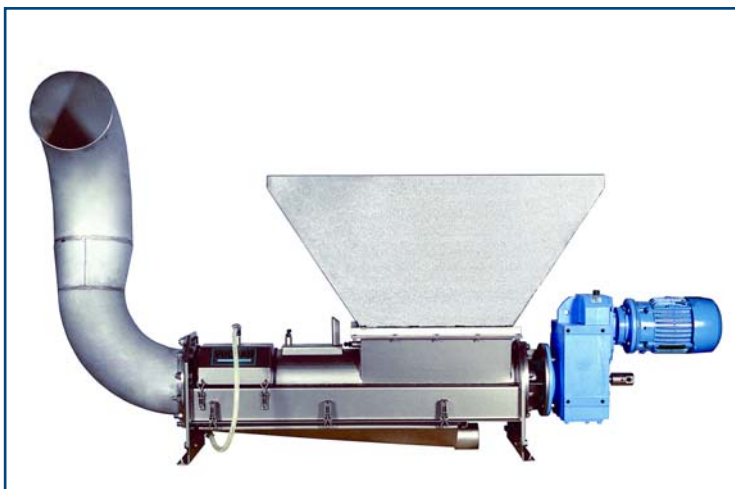
The spiral, of alloy steel construction, is welded to the hollow shaft. The hollow shaft contains perforations located in the washing zone to introduce washwater to the screenings from the inside out. A nylon brush is attached to the trailing edge of the spiral to ensure debris is thoroughly removed 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.



**Above:** 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.



**Left Above:** 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 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.

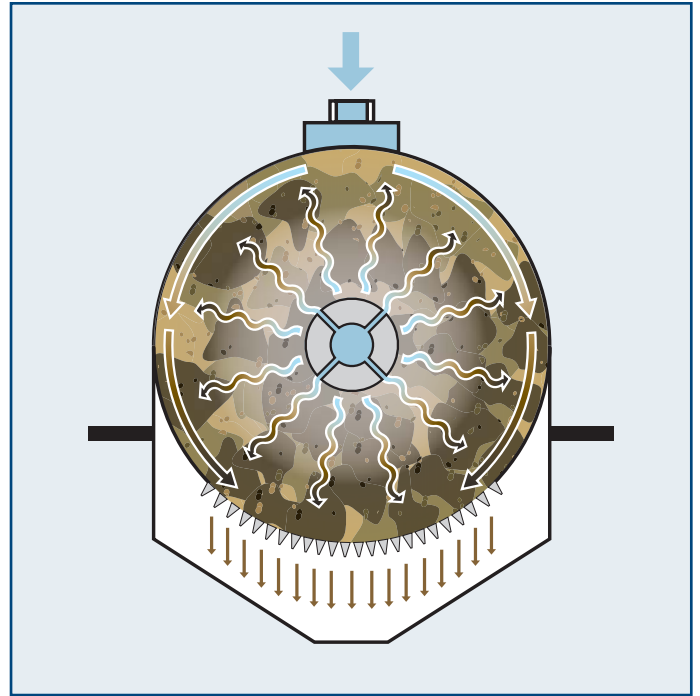


**Left Below:** Here you see a Model EWP 250/600 Washing Press with an inlet hopper and discharge pipe. The inlet hopper can be directly connected to a primary screening device such as a Mensch Crawler™ Bar Screen or Stair Screen, or can be fed by a conveyor. The discharge pipe can be fitted with a bagging assembly, or feed directly into a receiving container.

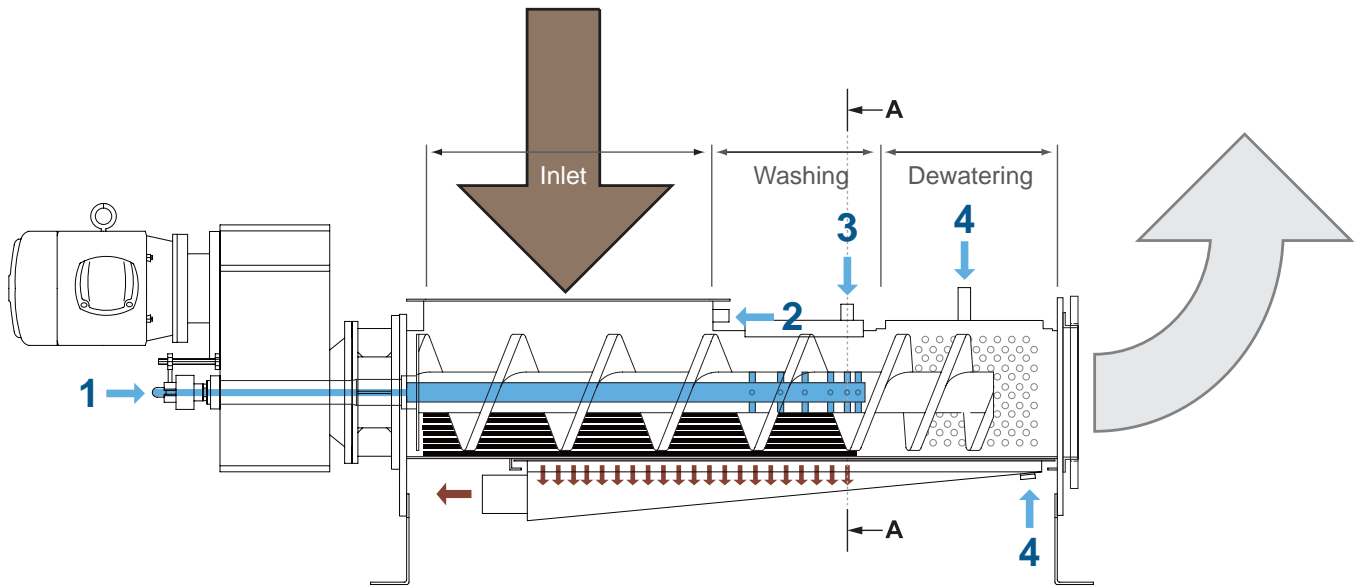
## OPERATION

The Washing Press receives the screenings from a primary screening device 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. 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 continues to decrease, further compacting the screenings for maximum water extraction prior to entering the discharge pipe. From inlet hopper to discharge, the **screenings volume is reduced by up to 85%**.



Section A-A through the washing zone.



## Valve Operations

- 1** Injects washwater into the washing zone through the hollow shaft spiral
- 2** Sprays water over screenings as they enter the inlet hopper
- 3** Introduces washwater into the top of the washing zone
- 4** Flushes dewatering zone and drain pan