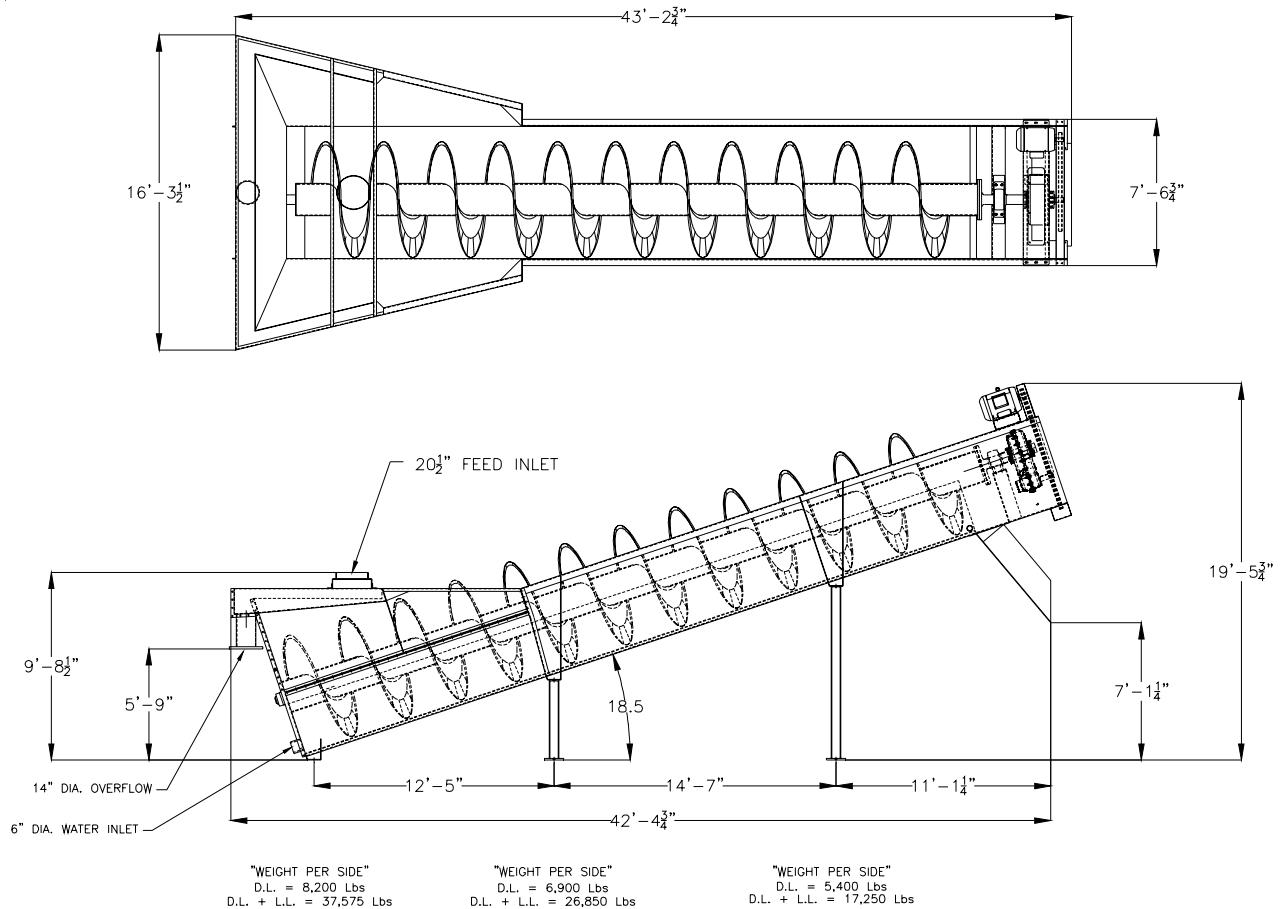


# SERIES 5000 FINE MATERIAL WASHER

## Model 5072-38S Spec Sheet



### ● MAIN TANK

- 3/8" (sides, bottom & rear end plate) welded plate steel construction
- Curved bottom with integral rising current manifold (6" dia. inlet)
- Large undisturbed pool area
- 27'-9" of adjustable weir boards
- 1-1/2" chase water line connection
- Overflow flume with 14" dia. outlet
- 4" dia. tank drain

### ● SPIRAL ASSEMBLY

- Spiral pipe - heavy wall 20" dia.
- Double pitch, solid flight spiral
- Standard AR steel inner wear shoes
- Standard urethane outer wear shoes (cast Ni-Hard outer wear shoes are optional)
- Greaseable, externally mounted Dodge Imperial E tail end flange bearing
- Greaseable Dodge Type E pillow block head end bearing
- Lower end seal - chrome plated stainless steel wear sleeve, water tight bellows type rubber seal and secondary grease seal

### ● DRIVE ASSEMBLY

- High efficiency v-belt drive assembly
- TEFC motor, HP dependent upon spiral speed - see "Raking & Overflow Capacity Table"
- Dodge TA-II double reduction shaft mount reducer

### ● CENTER FEED BOX

- 20-1/2" dia feed inlet
- Internally and externally baffled

### ● DISCHARGE CHUTE (optional)

- Tapered discharge chute set at 45° angle to grade

### ● SUPPORT ASSEMBLY (optional)

- Independent mid and head end support weldments with 6" wide flange columns

### ● RISING CURRENT ACCESSORIES (optional)

- Externally mounted manifold with 6" butterfly flow control valve, 6" swing check valve, 0-100 psi pressure gauge and 1-1/2" gate valve and plumbing to the chase water connection

● **PHYSICAL/OPERATING CHARACTERISTICS**

- Feed Material Size - minus 3/8"
- Angle of Operation - 18.5°
- Capacity - up to 475 tph
- Shaft Speed - up to 11 rpm
- Water Requirements - up to 2600 gpm
- Operational Dim. 43'3" long x 16'4" wide x 19'6" high
- Loads - Approx. Dead Load = 41,000 lbs.  
           Approx. Live Load = 122,350 lbs.  
           Approx. Total Load = 163,350 lbs.

**RAKING & OVERFLOW CAPACITY TABLE**

CAPACITY (TPH)	% SCREW SPEED (RPM)	SPIRAL SPEED (RPM)	MINIMUM MOTOR HP (REQ'D)	OVERFLOW CAPACITIES (GPM)		
				100 MESH	150 MESH	200 MESH
475	100%	11	60			
355	75%	8	50	2600	1250	700
235	50%	5	30			
120	25%	3	15			

**PERCENT SCREW SPEED VS. PERCENT FINES IN PRODUCT**

% SCREW SPEED (RPM)	% PASSING 50 MESH	% PASSING 100 MESH	% PASSING 200 MESH
100%	15	2	0
75%	20	5	0
50%	30	10	3
25%	50	25	8

**NOTE:** Specifications are subject to change without notice.

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