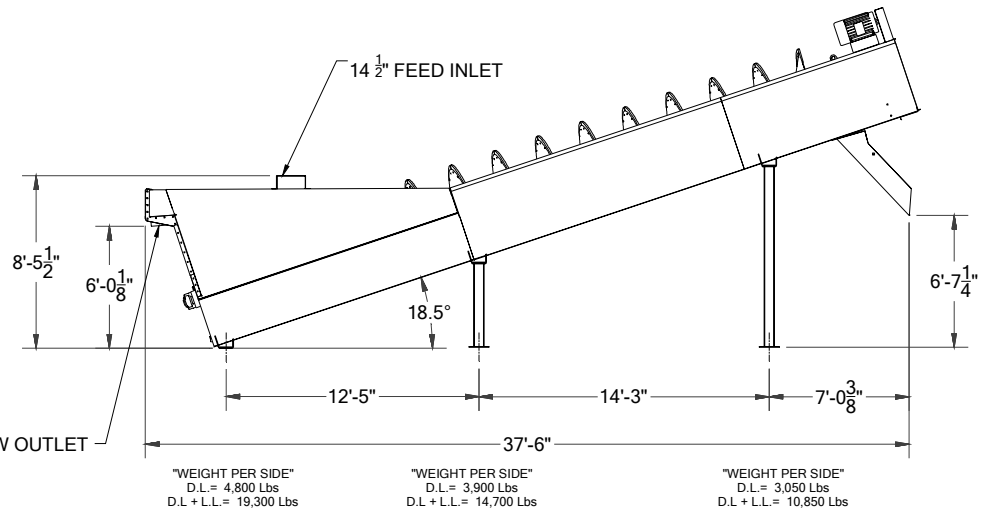
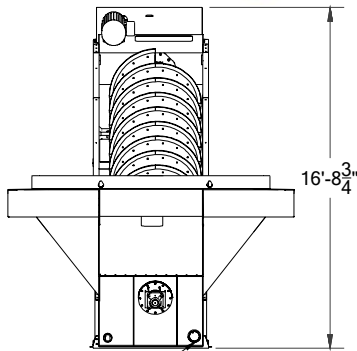
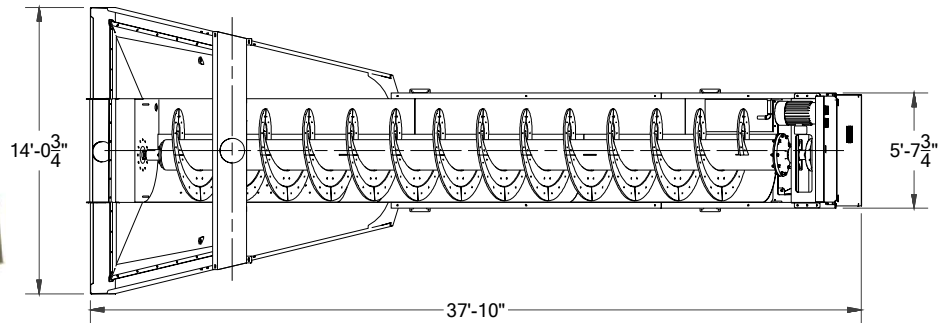
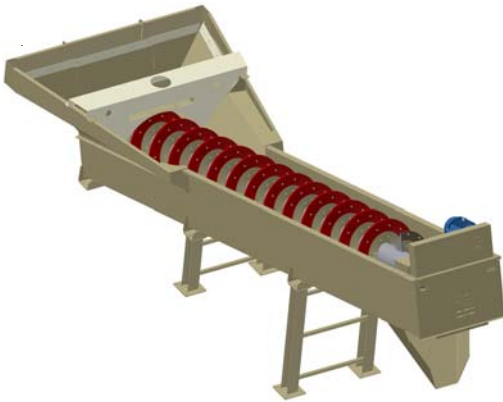


# SERIES 5000 FINE MATERIAL WASHER

## Model 5054-34S Spec Sheet



### ● MAIN TANK

- 1/4" (sides & bottom) and 3/8" (rear end plate) welded plate steel construction
- Curved bottom with integral rising current manifold (6" dia. inlet)
- Large undisturbed pool area
- 26' of adjustable weir boards
- 1-1/2" chase water line connection
- Overflow flume with 12" dia. outlet
- 4" dia. tank drain

### ● SPIRAL ASSEMBLY

- Spiral pipe - heavy wall 18" 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

- 14-1/2" 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 250 tph
- Shaft Speed - up to 14 rpm
- Water Requirements - up to 1800 gpm
- Operational Dim. 37'10" long x 14'1" wide x 16'9" high
- Loads - Approx. Dead Load = 23,500 lbs.  
           Approx. Live Load = 66,200 lbs.  
           Approx. Total Load = 89,700 lbs.

**RAKING & OVERFLOW CAPACITY TABLE**

| CAPACITY<br>(TPH) | % SCREW<br>SPEED<br>(RPM) | SPIRAL<br>SPEED<br>(RPM) | MINIMUM<br>MOTOR HP<br>(REQ'D) | OVERFLOW CAPACITIES<br>(GPM) |          |          |
|-------------------|---------------------------|--------------------------|--------------------------------|------------------------------|----------|----------|
|                   |                           |                          |                                | 100 MESH                     | 150 MESH | 200 MESH |
| 250               | 100%                      | 14                       | 30                             |                              |          |          |
| 185               | 75%                       | 11                       | 25                             | 1800                         | 900      | 525      |
| 125               | 50%                       | 7                        | 15                             |                              |          |          |
| 60                | 25%                       | 4                        | 10                             |                              |          |          |

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

| % SCREW SPEED<br>(RPM) | % PASSING<br>50 MESH | % PASSING<br>100 MESH | % PASSING<br>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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