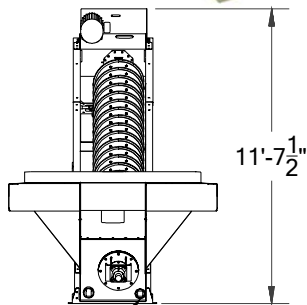
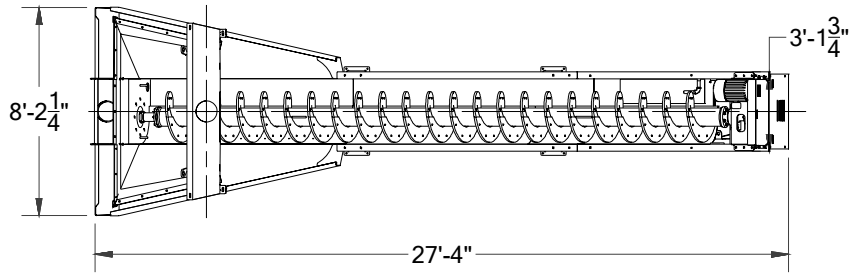
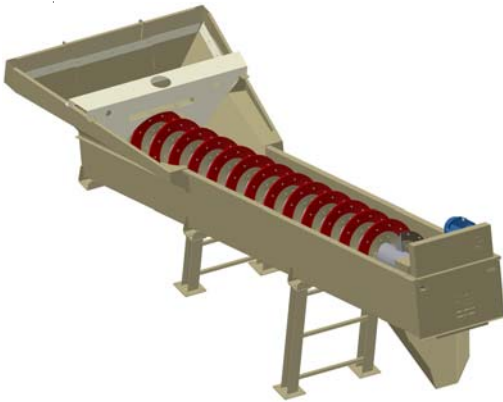


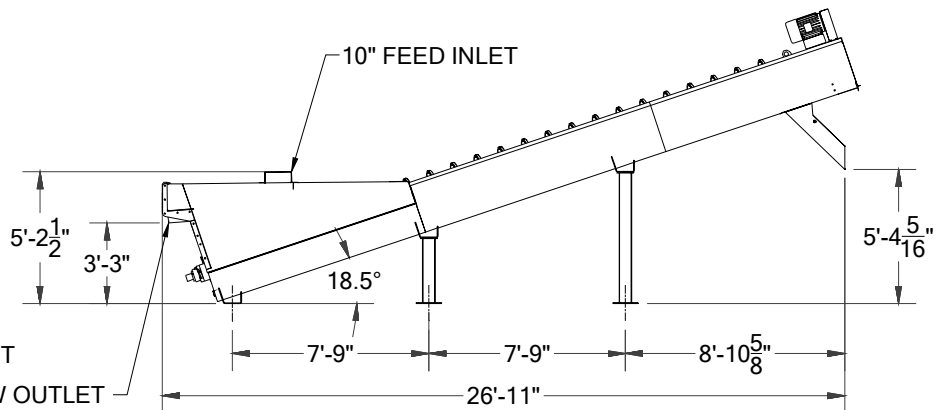
# SERIES 5000 FINE MATERIAL WASHER

## Model 5024-25S Spec Sheet



4" RISING CURRENT INLET

10" OVERFLOW OUTLET



"WEIGHT PER SIDE"  
D.L.= 1,340 Lbs  
D.L + L.L.= 5,330 Lbs

"WEIGHT PER SIDE"  
D.L.= 1,100 Lbs  
D.L + L.L.= 4,500 Lbs

"WEIGHT PER SIDE"  
D.L.= 910 Lbs  
D.L + L.L.= 3,420 Lbs

### ● MAIN TANK

- 3/16" (sides & bottom) and 3/8" (rear end plate) welded plate steel construction
- Curved bottom with integral rising current manifold (4" dia. inlet)
- Large undisturbed pool area
- 15'3" of adjustable weir boards
- 1" chase water line connection
- Overflow flume with 10" dia. outlet
- 4" dia. tank drain

### ● SPIRAL ASSEMBLY

- Spiral pipe - heavy wall 8" 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

- 10" 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 4" butterfly flow control valve, 4" swing check valve, 0-100 psi pressure gauge and 1" 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 50 tph
- Shaft Speed - up to 32 rpm
- Water Requirements - up to 500 gpm
- Operational Dim. 27'4" long x 8'2" wide x 11'8" high
- Loads - Approx. Dead Load = 6,700 lbs.  
           Approx. Live Load = 19,980 lbs.  
           Approx. Total Load = 26,500 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
50	100%	32	7.5			
37	75%	24	5	500	225	125
25	50%	16	5			
12	25%	8	3			

**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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