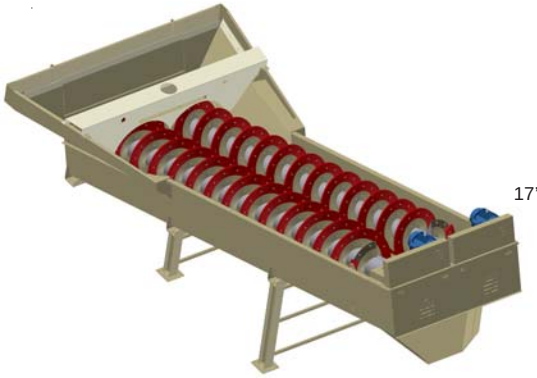
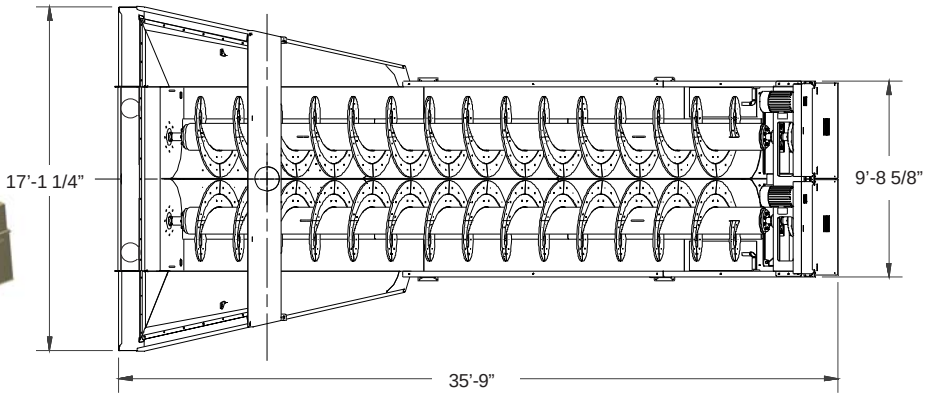
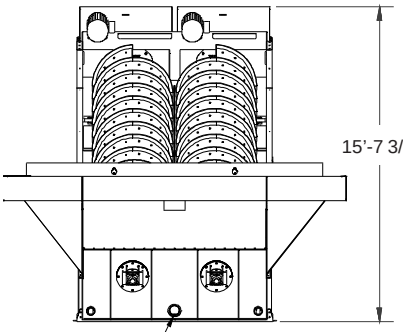
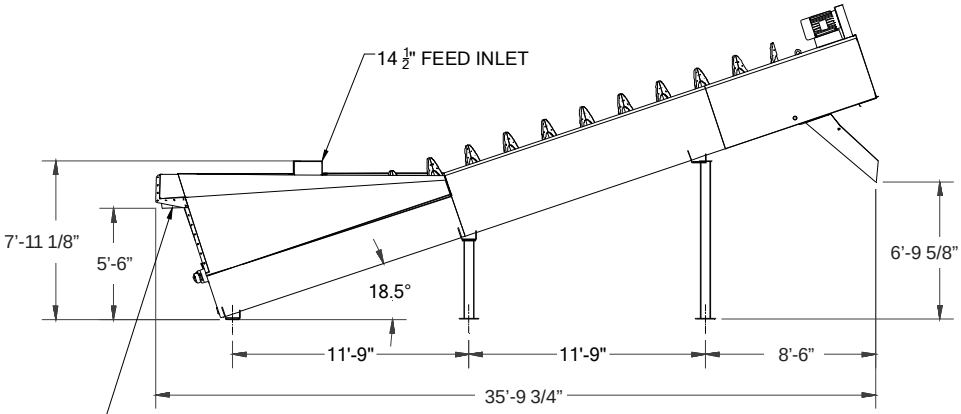
SERIES 5000 FINE MATERIAL WASHER
Model 5048-32T Spec Sheet









"WEIGHT PER SIDE"
D.L.= 6,100 Lbs
D.L + L.L.= 23,000 Lbs

"WEIGHT PER SIDE"
D.L.= 5,100 Lbs
D.L + L.L.= 19,850 Lbs

"WEIGHT PER SIDE"
D.L.= 3,800 Lbs
D.L + L.L.= 15,550 Lbs

- **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’-9” of adjustable weir boards
  - 1-1/2” chase water line connection
  - Overflow flume with dual 12” dia. outlets
  - 4” dia. tank drain

- **SPIRAL ASSEMBLY**
  - Spiral pipe - heavy wall 16” dia.
  - Double pitch, solid flight spiral (one right hand, one left hand)
  - 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 (one drive assembly per spiral)**
  - 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 400 tph
  - Shaft Speed - up to 16 rpm
  - Water Requirements - up to 2900 gpm
  - Operational Dim. 35’9” long x 17’1” wide x 15’9” high
  - Loads - Approx. Dead Load =30,000 lbs.
    Approx. Live Load = 86,800 lbs.
    Approx. Total Load = 116,800 lbs.

RAKING & OVERFLOW CAPACITY TABLE

CAPACITY (TPH)	% SCREW SPEED (RPM)	SPIRAL SPEED (RPM)	MINIMUM MOTOR HP (TWO REQ’D)	OVERFLOW CAPACITIES (GPM) 100 MESH	150 MESH	200 MESH
400	100%	16	20	2900	1450	825
300	75%	12	15			
200	50%	8	10			
100	25%	4	7.5			

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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Mdl 5048-32T Rev.4 03/14