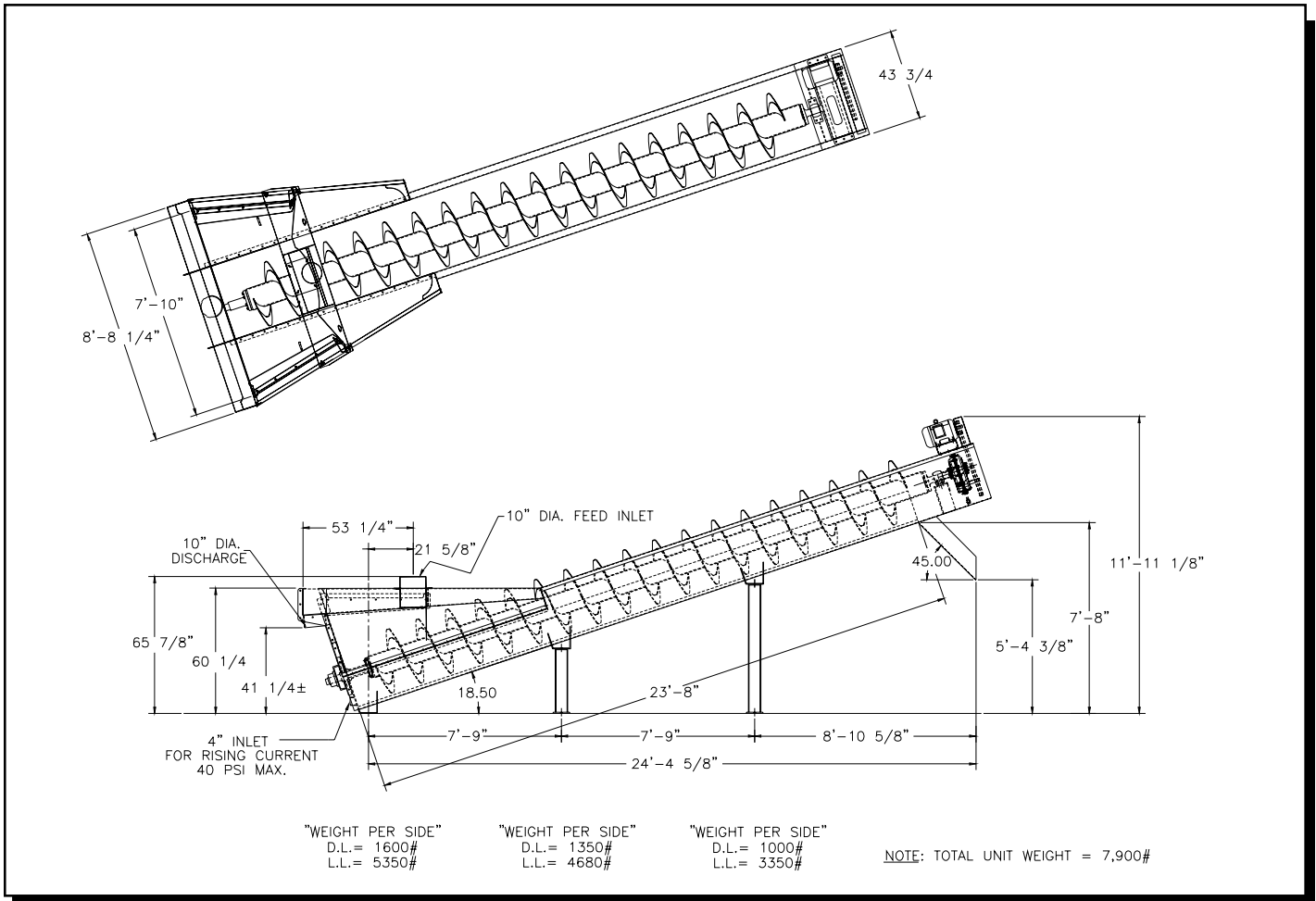




SERIES 5000 FINE MATERIAL WASHER MODEL 5030-25S Spec Sheet



MAIN TANK:

The tank is of 3/16" (sides & bottom) and 3/8" (lower end plate) welded plate steel construction to eliminate leaks and provide long service life. Additional features of the tank design include: 1) Curved bottom with integral rising current manifold (4" inlet) designed to control fines retention and the water velocity within the pool, 2) Large undisturbed pool area which provides accurate material classification, 3) 15'-9" of adjustable weir boards designed to handle large volumes of slurry and to control the pool level for uniform overflow, 4) 1" chase water line to flush water down the inside of the tank wall to clear the drain trough for better dewatering and 5) Overflow flume with 10" dia. outlet.

SPIRAL ASSEMBLY:

Heavy wall 10" pipe is the foundation for the double pitch,

NOTE: Specifications are subject to change without notice.

solid flight spiral. Steel inner wear shoes and urethane outer wear shoes provide protection of the entire flight and are standard on the Kolberg fine material washer (ni-hard outer wear shoes are optional). A greaseable, externally mounted Dodge flange bearing provides support of the spiral at the lower end of the unit while a greaseable pillow block Dodge bearing provides support at the head end of the spiral. A stainless steel wear sleeve, water tight rubber seal and secondary grease seal prevent leakage and wear on the lower stub shaft for longer service life.

DRIVE ASSEMBLY:

The high efficiency v-belt drive assembly reduces horsepower requirements for longer motor life and reduced maintenance. Included within the drive assembly is a standard Dodge TA4207H40 double-reduction gear reducer and 10 HP TEFC motor. All that is required to adjust the speed of the spiral is a simple sheave change.

CENTER FEED BOX:

Internal and external baffles of the feed box reduce the velocity of the material entering the fine material washer and reduce pool turbulence enhancing the retention of fines.

DISCHARGE CHUTE:

The tapered discharge chute is installed at a 45° angle to grade to ensure material discharge into a stockpile or stacking conveyor.

SUPPORT ASSEMBLY:

Independent support structures with 6" wide-flange columns are provided to ensure the sand screw is set at the correct angle for proper operation.

PHYSICAL/OPERATING CHARACTERISTICS:

Material: Typically -3/8" sand
 Angle of Operation: 18.5°
 Capacity: Up to 75 TPH
 Speed: Up to 25 rpm
 Water Requirements: Up to 550 gpm
 Dimensions: 27'-10" long x 8'-8" wide x 11'-11" high (in the operating position)
 Loads: Approx. Dead Load = 7,900 lbs.
 Approx. Live Load = 26,760 lbs.

OPTIONAL FEATURES:

Rising Current Accessories consisting of a 4" butterfly valve and a 4" swing check valve for flow control, 0 - 100 psi pressure gauge and a 1" gate valve for the chase water line.

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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
75	100%	25	10			
55	75%	19	10	550	275	150
38	50%	13	7.5			
18	25%	7	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

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 YOUR AUTHORIZED DEALER:**

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