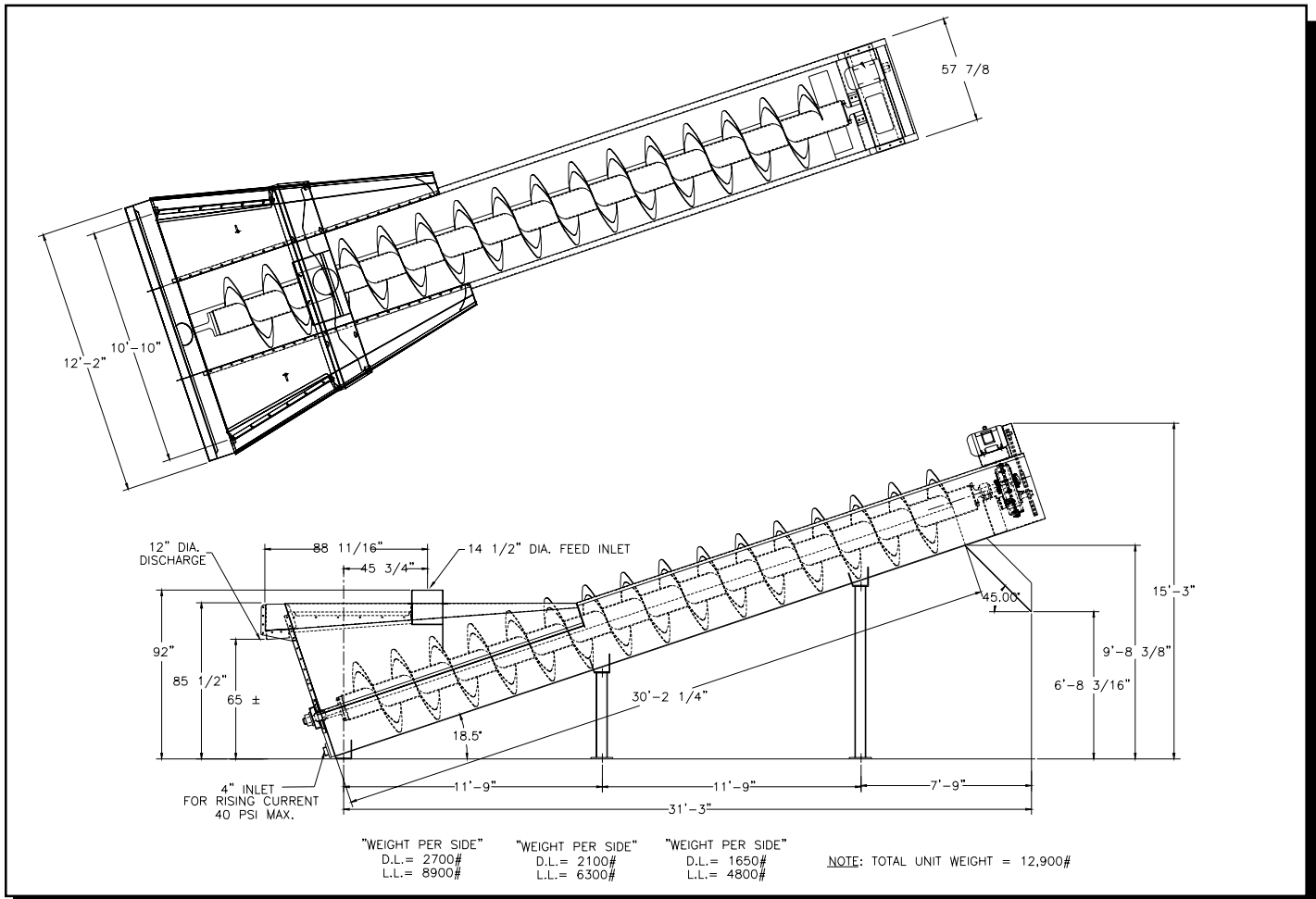




SERIES 5000 FINE MATERIAL WASHER MODEL 5044-32S Spec Sheet



MAIN TANK:

The tank is of 1/4" (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) 22' of adjustable weir boards designed to handle large volumes of slurry and to control the pool level for uniform overflow, 4) 1-1/2" 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 12" dia. outlet.

SPIRAL ASSEMBLY:

Heavy wall 14" pipe is the foundation for the double pitch, 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 TA7315H40 double-reduction gear reducer and 20 HP TEFC motor. All that is required to adjust the speed of the spiral is a simple sheave change.

NOTE: Specifications are subject to change without notice.

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 175 TPH
Speed: Up to 17 rpm
Water Requirements: Up to 1500 gpm
Dimensions: 35'-8" long x 12'-2" wide x 15'-3" high (in the operating position)
Loads: Approx. Dead Load = 12,900 lbs.
Approx. Live Load = 40,000 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 1-1/2" gate valve for the chase water line.

NOTE: Specifications are subject to change without notice.

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
175	100%	17	20			
130	75%	13	15	1500	750	400
85	50%	9	10			
45	25%	5	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

**FOR MORE INFORMATION CALL 1-800-542-9311 AND ASK FOR A KOLBERG EQUIPMENT SPECIALIST.
YOUR AUTHORIZED DEALER:**

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