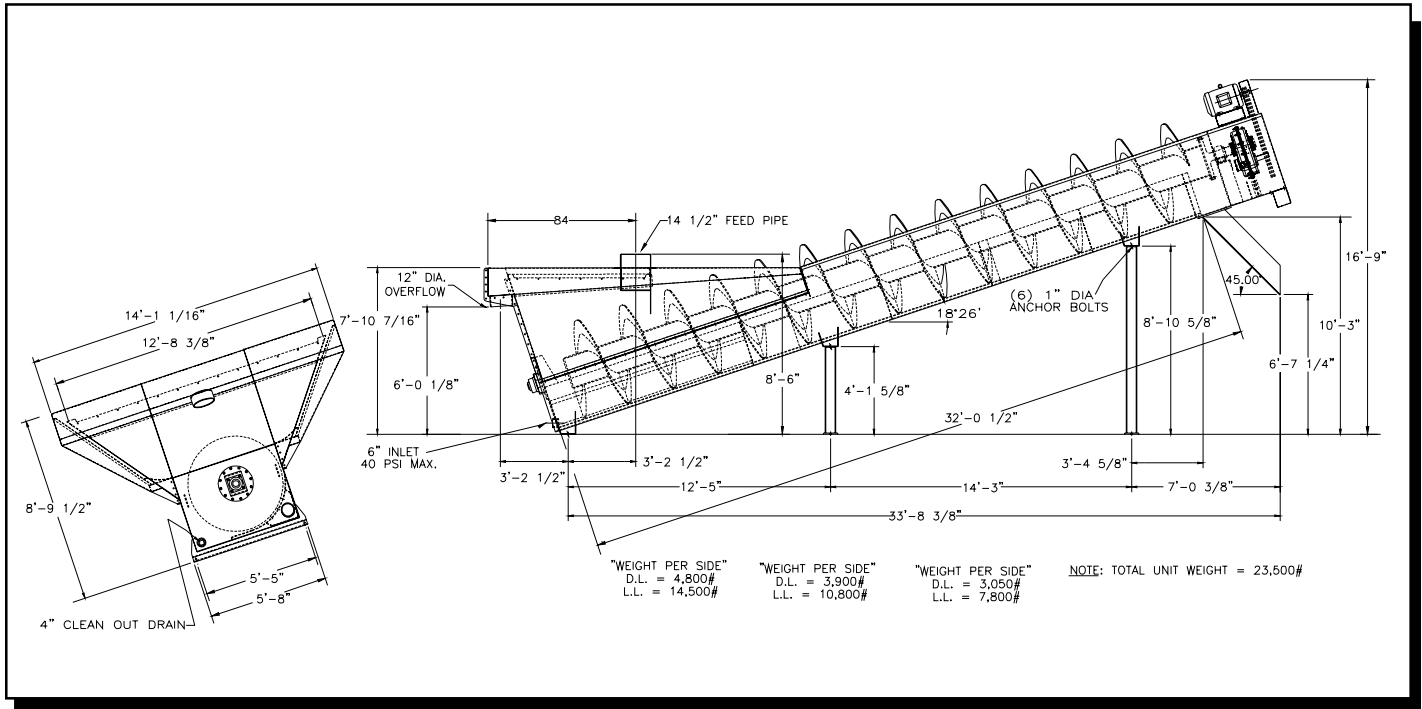




SERIES 5000 FINE MATERIAL WASHER MODEL 5054-34S Spec Sheet



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 (6" inlet) designed to control fines retention and the water velocity within the pool, 2) Large undisturbed pool area which provides accurate material classification, 3) 26' 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 18" 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 TA8407H40 double-reduction gear reducer and 30 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 250 TPH
Speed: Up to 14 rpm
Water Requirements: Up to 1800 gpm
Dimensions: 37'-2" long x 14'-1" wide x 16'-9" high (in the operating position)
Loads: Approx. Dead Load = 23,500 lbs.
Approx. Live Load = 66,200 lbs.

OPTIONAL FEATURES:

Rising Current Accessories consisting of a 6" butterfly valve and a 6" 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
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 (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:**

KOLBERG-PIONEER, INC.

700 W. 21st Street - P.O. Box 20
Yankton, South Dakota 57078
Phone: (605) 665-8771 - FAX: (605) 665-8858
mail@kolbergpioneer.com - www.kolbergpioneer.com

Because Kolberg-Pioneer, Inc. may use in its catalog & literature, field photographs of its products which may have been modified by the owners, products furnished by Kolberg-Pioneer, Inc. may not necessarily be as illustrated therein. Also continuous design progress makes it necessary that specifications be subject to change without notice. All sales of the products of Kolberg-Pioneer, Inc. are subject to the provisions of its standard warranty. Kolberg-Pioneer, Inc. does not warrant or represent that its products meet any federal, state, or local statutes, codes, ordinances, rules, standards or other regulations, including OSHA and MSHA, covering safety, pollution, electrical wiring, etc. Compliance with these statutes and regulations is the responsibility of the user and will be dependent upon the area and the use to which the product is put by the user. In some photographs, guards may have been removed for illustrative purposes only. This equipment should not be operated without all guards attached in their normal position. Placement of guards and other safety equipment is often dependent upon the area and the use to which the product is put. A safety study should be made by the user of the application, and, if required additional guards, warning signs and other safety devices should be installed by the user, wherever appropriate before operating the products.