

# 5066-35S

## Fine Material Washer



### 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
- 27' 3" of adjustable weir boards
- 1-1/2" chase water line connection
- Overflow flume with 12" dia. outlet
- 4" dia. tank drain

### Spiral Assembly

- Spiral pipe - heavy wall 20" 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 (One Drive Assembly Per Spiral)

- High efficiency v-belt drive assembly
- TEFC motor, horsepower dependent upon spiral speed - see "Raking and Overflow Capacity Table"
- Dodge® TA-II double reduction shaft mount reducer

### Center Feed Box

- 20-1/2" 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

Dimension	Standard	Metric
Feed Material Size	-3/8"	-9.53mm
Angle of Operation	18.5°	18.5°
Capacity Up To	400 TPH	363 MTPH
Shaft Speed Up To	11 RPM	0.18 Hz
Water Requirements Up To	2,400 GPM	545 m <sup>3</sup> /h
Operational Length	39' 5"	12.01m
Operational Width	15' 4"	4.67m
Operational Height	17' 10"	5.44m
Approximate Dead Load	33,800lb	15,331 kg
Approximate Live Load	107,000lb	48,534kg
Approximate Total Load	140,800lb	63,866kg

## Physical/Operating Characteristics

100 Mesh	150 Mesh	200 Mesh
2,400 GPM	1,100 GPM	625 GPM

## Raking and Overflow Capacity Table

Capacity	Screw Speed	Spiral Speed	Minimum Motor HP Required
400 TPH	100%	11 RPM	40
300 TPH	75%	8 RPM	30
200 TPH	50%	5 RPM	25
100 TPH	25%	3 RPM	15

## Percent Screw Speed Vs. Percent Fines In Product

Screw Speed	% 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