

Spec Sheet, Portable Silo

Storage Capacity	1800 cu*ft (50 ton)
Dust Collector	approximately 150-225 cu*ft
Vibrator	Electric
Air Pop-Off	Yes

Material	Straight Lime (density = 40 lb/cu*ft)
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Tank Diameter	8.5 ft
Overall Height	approximately 50 ft
Cone Angle	60°
Level Indicators	Yes: upper and lower

Feed	Rotary Valve
	Rotolok P/N: 25RVCCM01B000-75JZS222
	Electric Motor - Marathon Electric Motors 2Hp
	Cat #: C220
	Model #: JVJ 143TTFR5329AF P <i>[motor speed adjusted to meet demand]</i>

Cone Fluidizers	Yes
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Blower	Ametek Rotron: DR656CK72X
	4 hp; 3 phase; 230/460V, 10/5A

Caged Ladder & Rail	Yes
HD Axle Trailer w/ Lights	Yes, w/ electric brakes

Fill Pipe	4 in
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Outlet	12 in diameter
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Power Connector	Rubber Covered Cord with 480VAC Plug
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Starter Panel	No (refer to Control House)
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Ambient Conditions	-10° to +120°F (-23.3° to +48.9°C)
	0 to 100% RH

Spec Sheet, Lime Conveyor

Screw Diameter	7"
Inlet to Discharge Length	19.25 ft
Conveyor Angle	30° Incline
Material	Straight Lime (density = 40 lb/cu*ft)
	600 cfh (12 tph)
	(X) to (Y)% moisture content
	1/8 in max lump size
Motor	5 hp; 3 phase; 208/230V
Gear Box	(X):(Y) ratio
Inlet Size	10" diameter
Outlet Size	10" diameter
Power Connector	Rubber Covered Cord with 480VAC Plug
Controls	No (refer to Control House)
Ambient Conditions	-10° to +120°F (-23.3° to +48.9°C)
	0 to 100% RH

Spec Sheet, Screw Hopper

Length	32 ft inside
Width	7 ft inside
Height	5.5 ft outside
Total Req'd Capacity	(TBD) cu*ft

Material	Sludge (dirt, silt, water, vegetable- and petrol-based lubes)
	density: "dry dirt" to "water"
	up to 25 tph

Sludge Screw (2)	12" OD x 8" pitch for exit end of screw and 6" pitch on lead of screw on 6" pipe; carbon steel
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Sludge Screw Motor (2)	Seimens 15 hp, 1800 RPM, 3 phase
Sludge Screw Gear Box (2)	Nord Gear Corp
	Model #: SK 7382SC-160 M/4
	Serial #: 1/811134266600 003
	Ratio: 78.81
	Torque: 42110 in*lbs
	Speed: 22 RPM <i>[motor speed adjusted to meet demand]</i>
Mounting position: M1	

Cross Screw	12" OD x 12" pitch on 6" pipe; carbon steel
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Cross Screw Motor	7.5 hp; 3 phase
Gear Box	Nord Gear Corp
	Model #: SK 9042.1SCP-132 S/4 CUS
	Serial #: 1/811134265900 001
	Ratio: 40.54
	Torque: 11039 in*lbs
	Speed: 43 RPM <i>[motor speed adjusted to meet demand]</i>
Mounting position: M3	

Power Connector	Rubber Covered Cord with 480VAC Plug
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Controls	No (refer to Control House)
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Ambient Conditions	-10° to +120°F (-23.3° to +48.9°C)
	0 to 100% RH

Spec Sheet, Incline Conveyor

Screw Diameter	16 in
Inlet to Discharge Length	34.25 ft
Conveyor Angle	12°-15°
Material	Sludge (dirt, silt, water, vegetable- and petroleum-based oils) density: "dry dirt" to "water" up to 25 tph
Screw	16" OD x 16" pitch on 6" pipe; carbon steel
Motor	Nord 15 hp, 30 PRM, Class 2 SC drive
Gear Box	Nord Gear Corp
	Model #: SK 6382 A2B-160 M/4
	Serial #:
	Ratio: 59.66
	Torque: 31878 in*lbs
	Speed: 30 RPM <i>[motor speed adjusted to meet demand]</i>
	Mounting position:
Inlet	12" x 12" square
Outlet	16" x 16" square
Power Connector	Rubber Covered Cord with 480VAC Plug
Controls	No (refer to Control House)
Ambient Conditions	-10° to +120°F (-23.3° to +48.9°C)
	0 to 100% RH

Spec Sheet, Pug Mill

Length	8 ft
Width	4 ft
Height	2.75 ft (approx)
Total Req'd Capacity	30-50 tph

Material	Lime + Sludge
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Polymer-Coated Shafts	TBD
Trough Lining	TBD
Paddle Coating	Seemed to be cast hardened paddles Bolt on
Service Doors	Yes

Drive Motor (2)	15 hp @ 1800 prm
	WWE TEFC 286T (WWE 15-18-254T)
Reducer (2)	Dodge TXT615 torque-arm shaft mount reducer

Timing Gears	Yes (I thought not on the unit as built?)
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Shaft Speed	60-70 Hz
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Power Connector	Rubber Covered Cord with 480VAC Plug
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Controls	No (refer to Control House)
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Ambient Conditions	-10° to +120°F (-23.3° to +48.9°C)
	0 to 100% RH

Spec Sheet, Control House

MAIN	Flange-mounted disconnect, lockable
	250A circuit breaker
	E-Stop: Push to Stop/Pull to Start
PUGMILL (2) SCREWS	Starter (2) (Square D P/N: LC1D25G7 or eqv)
	Overload relay (2) (Square D P/N: LRD22 or eqv)
	Breaker (15 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary
	Indicator Light
LEFT AND RIGHT SCREENS	Starter (2) (Square D P/N: LC1D09G7 or eqv)
	Overload relay (2) (Square D P/N: LRD06 or eqv)
	Breaker (2) (50 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary (2)
	Indicator Light (2)
INCLINE SCREW	VFD (Fuji P/N: FRN020G1S-4U or eqv)
	Breaker (50 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary
	Speed pot (rotary)
	VFD Remote Terminal Device
CROSSFEED SCREW	VFD (Fuji P/N: FRN007G1S-4U or eqv)
	Breaker (30 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary
	Speed pot (rotary)
	VFD Remote Terminal Device
SLUDGE SCREW (2)	VFD (Fuji P/N: FRN020G1S-4U or eqv)
	Breaker (50 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary
	Speed pot (rotary)
	VFD Remote Terminal Device
LIME SILO BLOWER	Starter (Square D P/N: LC1D09G7 or eqv)
	Overload relay (Square D P/N: LRD12 or eqv)
	Breaker (15 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary
	Indicator Light
ROTARY VANE FEEDER	VFD (Fuji P/N: FRN002G1S-4U or eqv)
	Breaker (15 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary
	Speed pot (rotary)
	VFD Remote Terminal Device
SILO VIBRATOR	Starter (Square D P/N: LC1D09G7 or eqv)
	Overload relay (Square D P/N: LRD12 or eqv)
	Breaker (15 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary
LIME SCREW	Starter (Square D P/N: LC1D09G7 or eqv)
	Overload relay (Square D P/N: LRD12 or eqv)
	Breaker (15 Amp, 3 Pole, 480 Volt)
	2-Pos (ON/OFF) switch, rotary
	Indicator Light

Spec Sheet, Control House

Other	NEMA 4 enclosure(s)
	Panel Mount 480VAC Receptacles, Light Switch 3R, GFCI Recptacle, Pump Receptacle