

PORTABLE CONVEYOR

GENERAL:

Length:	-	70 Feet (Center of Head Roller to Center of Tail Roller)
Width:	-	24 Inch (Belt Width)
Conveyor Capacity:	-	300 TPH (based on salt at 70 lbs. per cubic ft. and an angle of 32 degrees)
Maximum Transport Height:	-	13 Feet 6 inches
Maximum Transport Length:	-	75 Feet
Maximum Transport Speed:	-	Safe up to 50 MPH
Operating Height:	-	Adjustable up to 35 feet
Slicer Pad:	-	5/8" UHMW in lieu of rollers
Return Idlers:	-	PVC with stainless steel shaft Length – 26" X diameter – 2 7/8"

CONVEYOR CONSTRUCTION:

Conveyor Sides and Bracing:	-	10 Gauge 304 stainless steel bracing
	-	2" X 2" X 1/4" angle cord and 1 1/2" X 3/16" webbing in 304 stainless steel
Under truss:	-	2" X 6" X 3/16" 304 Stainless steel formed angle web support with 3/16" plate reinforcement for hydraulic cylinder support.
Dust Covers:	-	18 Gauge 304 stainless steel
Deflector:	-	10 Gauge 304 stainless steel
	-	1/2" X 1" 304 Stainless steel adjusting handle with multiple settings
	-	5/32" Dual stainless steel cables
	-	Deflector Fins
Hitch:	-	2" X 6" X 1/4" 304 Stainless steel rectangular tube hitch frame
	-	3" I.D. Pintle Eye Hitch (4,500 lbs. maximum vertical tongue weight, 22,000 lbs. Maximum gross tongue weight)

DRIVE SYSTEM:

Belt Speed:	-	800-900 FMP (as required to cast salt 10-12 feet beyond discharge point)
Power Source:	-	540 PTO No. 35 Drive Shaft
Drive Roller:	-	Vulcanized rubber lagging, 10" diameter X 26" with 1 15/16" shaft (turned down 1 7/16" on one end to accept PTO Shaft), and (2) 1 15/16" Pillow Block Bearing
Tail Roller:	-	8" Diameter X 26" Wing Roller with 1 7/16" shaft and (2) 1 7/16" Four bolt bearing

- Head Roller: - 8" Diameter X 26 Wing Roller with 1 7/16" shaft and (2) 1 7/16" Four bolt bearing
- Belt Track Roller: - 6" Diameter X 26" Steel-smooth face roller with 1 7/16" shaft and (2) 1 7/16" Pillow Block Bearing
- Take-up Roller: - 8" Diameter X 26" Wing Roller with 1 7/16" shaft and (2) 1 7/16" Take-up Bearing

BELTING:

- Width: - 24" Minimum
- Type: - PVC 200# Crescent Top
- Splice: - #3 Stainless steel laced

CHARGE HOPPER:

- Type: - 10 Gauge 304 stainless steel 36" W X 32" L X 30" H

UNDERCARRIAGE REQUIREMENTS:

- Undercarriage: - 3" X 6" X 3/16" 304 Stainless steel tube
- 2" X 2" X 1/4" 304 Stainless steel tube support stand
- 5" X 5" X 1/4" 304 Stainless steel cylinder support tube
- Axle Wrapped in 304 stainless steel 10 ga.
- Axle: - 8,000 lbs. – oil hub with 5/8" stud
- Tires: - 215/75R – 17.5 (4,500# radial tires)
- Wheels: - 17.5 X 6.75 – 8-stud, heavy-duty conventional 6,200# steel wheels
- Wheel Nuts: - 5/8" - #18 Flange nut
- Hydraulic Lifting System: - Vertical hydraulic telescopic 3-stage cylinder 120"-123" stroke, Nitride Coating for corrosion resistance, with safety relief valve (adjustable to heights 13'6" – 35'), hydraulic requirements of 2000 PSI/20 GPM. With hose and hardware
- Safety Chains: - (2) Safety chains to lock into operating position 3/8" alloy steel chain, 1/2" stainless steel aircraft cable, Crosby alloy safety shackles and hooks (operating support chains and cables for conveyor)
- (2) 3/8" Alloy steel chain (for tow chains)
- Lift Jack: - Heavy-duty 10,000# drop leg jack
- Dual 12" (4.10/6) diameter 1,350# swivel wheel with solid rubber or urethane covering
- Grease Tubes: - Stainless Steel grease tubes for head roller (for easy access from ground)

PORTABLE 4-TON HOPPER
WITH MILD STEEL SCREENS

GENERAL:

- Hopper Dimensions: - 6'X12' Top opening
- 10 Gauge 304 stainless steel
- Hopper Legs: - 3/16" 304 Stainless steel formed channel
- Door Handle: - 1 1/2" X 1 1/2" 304 Stainless steel tube
- Door Rail: - 1" X 1/2" 304 Stainless steel flat bar
- Adjustable door assembly: - 1/4" 304 Stainless steel plate
- Lift Pads: - 3/16" 304 Stainless steel plate
- Skids: - 3/16" 304 Stainless steel formed channel
- Ladder: - 10 Gauge 304 stainless steel angle
- 16" Wide X 5' tall

SCREENS:

- 1 1/2" X 1/4" Mild steel flat bar (on 5" centers)
- 2" X 3/8" mild steel border flat bar
- 1/2" Round bar (on 5" centers)

VIBRATOR:

- Vibrator Bracket: - 3/16" Stainless Steel formed mounting bracket
- Vibrator: - Single phase, 115v/60hz vibrator, with control box and strobe light mounted on 304 stainless steel bracket

CONVEYOR MOUNTED LIQUID APPLICATOR

- Allows users to treat salt with an added de-icing liquid
 - ✓ Avoids costly and labor intensive traditional methods such as pug mills, spreading and spraying on the ground, etc.
- Applies the de-icing liquids as it leaves the conveyor
 - ✓ Avoids unnecessary waste and messy situations
- For use in stockpiling treated salt or by load-out on an as needed basis
 - ✓ Allows users to determine their specific needs and/or based on weather conditions
- 1 Gallon per ton of salt to 12 gallons per ton of salt, up to 100 gallons per minute
 - ✓ Adjustable system to meet the needs of each customer depending on traditional needs and/or by each winter event
 - ✓ Can be sized to only apply a specific amount to reduce overuse
- Designed and customized to meet customers' needs
 - ✓ Based on product applied, gallons per ton of salt needing treated, size of customers conveyor, and other customer specific needs.

INCLUDES:

- Hose and 304 stainless steel flood jet nozzle(s) sized to each customer's specific needs; mounted on the conveyor with 304 stainless steel brackets, boom clamps, nuts and bolts
- Cam-lock couplers for easy connect and disconnect
- Suction strainer
- Check valve
- Clean out
- PSI gauge
- Ball valve
- Clean and neat professional installation
- Gasoline powered pump with 304 stainless steel base, cam-locks, and other hardware (inlet sized to customers specifications).