

PORTABLE CONVEYOR

(With 304 Stainless Steel Undercarriage)

GENERAL:

- Length: - 80 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: - 85 feet
- Maximum Transport Speed: - Safe up to 50 MPH
- Operating Height: - Adjustable up to 40 feet
- Slider Pad: - $\frac{5}{8}$ " UHMW in lieu of rollers
- Return Idlers: - Pobco with stainless steel shaft
- Length - 26" x diameter - $2\frac{7}{8}$ "

CONVEYOR CONSTRUCTION:

- Conveyor Sides and Bracing: - 10 gauge 304 stainless steel bracing
- 2" x 2" x $\frac{1}{4}$ " angle cord and $1\frac{1}{2}$ " x $\frac{3}{16}$ " webbing in 304 stainless steel
- Webtruss: - 2" x 6" x $\frac{3}{16}$ " 304 stainless steel formed angle web support with $\frac{3}{16}$ " plate reinforcement for hydraulic cylinder support
- Dust Covers: - 18 gauge 304 stainless steel
- Deflector: - 10 gauge 304 stainless steel
- $\frac{1}{2}$ " x 1" 304 stainless steel adjusting handle with multiple settings
- $\frac{5}{32}$ " dual stainless steel cables
- Deflector Fins
- Hitch: - 2" x 6" x $\frac{1}{4}$ " 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 FPM (as required to cast salt 10-12 feet beyond discharge point)
- Power Source: - John Deere Diesel Power Unit (3000 RPM), 54 HP, 106 FT # Torque
- Rockford PTO Clutch - #4, 10" HE style
 - 23-gallon 304 stainless steel diesel fuel tank
- Drive Roller: - Vulcanized rubber lagging, 14" diameter x 26" with 1¹⁵/₁₆" shaft, and (2) 1¹⁵/₁₆" Pillow Block Bearing
- Tail Roller: - 8" diameter x 26" Wing Roller with 1⁷/₁₆" shaft and (2) 1⁷/₁₆" Four Bolt Bearing
- Head Roller: - 8" diameter x 26" Wing Roller with 1⁷/₁₆" shaft and (2) 1⁷/₁₆" Four Bolt Bearing
- Belt Track Roller: - 6" Diameter x 26" Steel-smooth face roller with 1⁷/₁₆" shaft and (2) 1⁷/₁₆" Pillow Block Bearing
- Take-up Roller: - 8" Diameter x 26" Wing Roller with 1⁷/₁₆" shaft and (2) 1⁷/₁₆" 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 1/4" structural 304 stainless steel tube
- 2" x 2" x 1/4" structural 304 stainless steel tube support stand
- Axle: - 9,000 lb - oil hub with 5/8" studs
- 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.
- 15-GPM hydraulic pump (powered by diesel motor)
- 23-gallon reservoir with an exterior hydraulic oil filter
- 3-way single-lever hydraulic control for hydraulic cylinder with hoses and hardware

Safety Chains:

- (2) safety chains to lock into operating position $\frac{3}{8}$ " alloy steel chain, $\frac{1}{2}$ " stainless steel aircraft cable, alloy safety shackles and hooks (operating support chains and cables for conveyor)
- (2) $\frac{3}{8}$ " alloy steel chain (for tow chains)

Lift Jack:

- (2) Heavy-duty 10,000# dropleg jacks
- (2) 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)