

# SCREEN MACHINE INDUSTRIES, INC.

AN AMERICAN MANUFACTURER OF PORTABLE CRUSHING AND SCREENING EQUIPMENT

## CONVENTIONAL SCREENING PLANTS



**DEVELOPER**

**PRODUCER**

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### DEVELOPER

The **DEVELOPER** is a high capacity, portable screening plant featuring a 5' x 12" (1.5m x 3.6m) double deck or 5' x 10" (1.5m x 3m) triple deck shaker screen for separating all types of aggregates. The feed hopper is large enough to be fed with a 4 to 5 yard (3.3m - 4.5m) loader bucket. Adding the optional high-speed hammermill shredder creates the perfect processing plant for large volumes of topsoil and compost. This heavy-duty plant is equipped with enough diesel horsepower to drive multiple auxiliary items including radial stacking conveyors and accessories.



### SCREEN



Raised Position



Lowered Position

- 5' - 0" x 12' - 0" (1.5m x 3.6m) Two Deck Screen**  
 Four bearing positive action (against the flow) shaker screen spinning at 1000 RPM, generating a 3/16" (4.75mm) constant shake under any size load. Perfect for sizing materials accurately between 1/8" (3.1mm) and 4" (10.16 cm).
- Hydraulically Adjustable Screen Angle**  
 Hydraulically adjust the angle of the shaker screen to any one of six operating positions to optimize efficient sizing of materials under various environmental conditions.
- Step Deck / Split Deck Screen**  
 An additional 4" (10.16 cm) drop half way down the screen creates a second impact point generating additional tumbling of material and better screening.
- Shaker Screen Lowers to Ground Level**  
 The shaker screen lowers hydraulically to ground level for transport, screen changes and maintenance. No need for ladders, platforms or safety harnesses.
- Multiple Screen Choices**  
 Many choices of screen types to choose from including wire cloth, harp screens, sod decks, slotted end tension screens and finger screens.

### POWER SYSTEM

- Cummins® 110 HP (82 kw) Diesel Engine**  
 Enough horsepower to drive the screening plant with multiple options and several stacking conveyors.
- 200 Gallon (757 L) Lockable, Baffled, Hydraulic Oil Tank with cooler**  
 An OilAir® hydraulic oil cooler maintains a constant level of performance and long life.
- 70 Gallon (265 L) Lockable Diesel Fuel Tank**  
 Over 14 hours of continuous material processing without the need to refuel.
- Independent Hydraulics**  
 Dedicated circuits guarantee constant power to each function.



The **DEVELOPER** wash plant shown above has a 5' x 10' (1.5m x 3m) triple deck screen with spray bars, 44" (1.1m) sand screw, one 80'-0" (24.4m) and two 40'-0" (12.1m) radial stacking conveyors processing four sizes of washed aggregates. All five pieces of machinery are hydraulically powered by the **Developer's** robust diesel engine.

### STRUCTURE



**DEVELOPER**  
Transport Position

- American Made Steel**  
 All structural fabrication is made from USA sourced Grade A36 steel.
- Tapered Truss Design for Added Strength**
- Fifth Wheel Tow Configuration for Ease of Portability**
- Two 22,500 lb. (10.2 mt) Axles with Dual 11R x 22.5 Tires and Air Brakes**

## FEEDER

- **11 Cubic Yard (10.1m) Hopper with 13' - 9" (4.19m) Wide Feed Opening**  
 A perfect match for a four to five cubic yard front end loader.
- **Remote Control Hydraulic Tipping Grizzly**  
 5 1/4" (133mm) nominal spaced grizzly bars keep oversized rock and wood from entering the hopper.
- **36" (.91m) Wide 3-Ply 330 PIW Feeder Belt**  
 Heavy-duty belt for long wear life.
- **Variable Belt Speed**  
 Hydraulically controlled belt speed creates a consistent and accurate feed rate of materials to the shredder or screen.
- **6" (15.24 cm) CEMA "D" Rubber Wrap Idler for Added Feeder Belt Traction**



Remote Controlled Tipping Grizzly

## CONVEYOR BELT



- **36" (.91m) Wide Main Belt**  
 Heavy-duty 2-ply 220 PIW belt for long wear life.
- **Lagged Head Pulleys and Wing-Type Tail Pulleys**  
 Precision® pulleys for positive traction, alignment and belt cleanliness.
- **5" (12.7 cm) Diameter Idlers and Rubber Disc Returns**  
 Goodman® idlers provide the required strength to carry the load.

## OPTIONS

- **High Speed Hammermill Shredder**  
 66 wedge-shaped hammers spinning at 1500 RPM will pulverize your dirt. Shredder hammermill chamber hydraulically raises and lowers into position. Spring tensioned baffle plates control the shredding action while by-passing large rocks.
- **Hydraulic Conversion Kits**  
 Capability of powering up to three additional stacking conveyors and a sand screw.
- **5' - 0" x 10' - 0" (1.5m x 3m) Triple Deck Screen**
- **Spray Bar Assembly for Wash Plants**

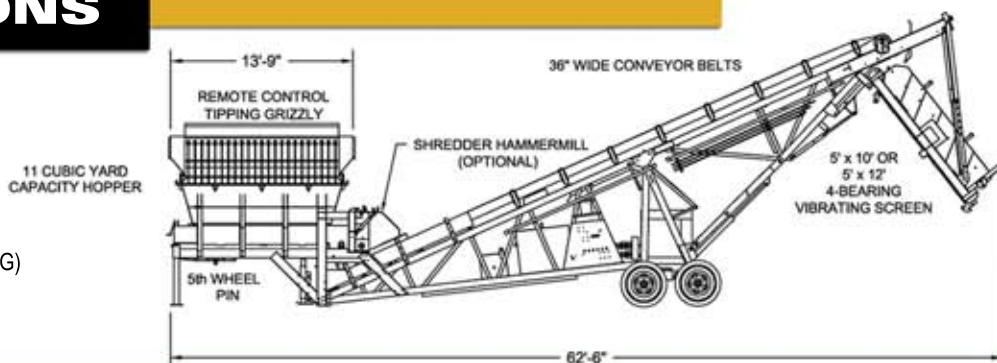


High Speed Hammermill Shredder

## DIMENSIONS

### Shipping Information

Height	13' - 4"	(4.06m)
Length	64' - 6"	(19.66m)
Width	8' - 6"	(2.59m)
Weight (approx.)	39,000 lbs.	(17,690 KG)



## PRODUCER

The **PRODUCER** is a mid-size, wheeled, portable screening plant featuring a 4' x 8' double deck (1.2m x 2.4m) four bearing shaker screen that is ideal for separating sand, gravel, coal and slag-type products. With the addition of a hammermill shredder, the **Producer** can also process topsoil and other landscape products. Designed to be fed with a 3 to 4 yard (2.7m - 3.6m) loader, this versatile diesel plant has enough HP to power multiple radial stacking conveyors. Spray bars can be added to convert this dry screening plant into a portable wash plant.



## SCREEN



- **4' - 0" x 8' - 0" (1.2m x 2.4m) Two Deck Screen**  
Four bearing positive action (against the flow) shaker screen spinning at 1000 RPM, generating a 3/16" (4.7mm) constant shake under any size load. Perfect for sizing materials accurately between 1/8" (3.1mm) and 4" (10.16 cm).
- **Hydraulically Adjustable Screen Angle**  
Hydraulically adjust the angle of the shaker screen to any one of six operating positions to optimize accurate sizing of materials under any environmental conditions.
- **Shaker Screen Lowers to Ground Level**  
The shaker screen lowers hydraulically to ground level for transport, screen changes and maintenance. No need for ladders, platforms or safety harnesses.
- **Multiple Screen Choices**  
Many choices of screen types to choose from including wire cloth, harp screens, sod decks, slotted end tension screens and finger screens.

## POWER SYSTEM

- **Yanmar 84 HP (62.6 kw) Diesel Engine**  
Enough horsepower to drive the screening plant with multiple options and several stacking conveyors.
- **120 Gallon (454.2 L) Lockable, Baffled, Hydraulic Oil Tank**  
Enough hydraulic oil to maintain a constant level of performance and long life.
- **65 Gallon (246 L) Lockable Diesel Fuel Tank**  
Over 18 hours of continuous material processing without the need to refuel.
- **Independent Hydraulics**  
Dedicated circuits guarantee constant power to each function.



## STRUCTURE



- **American Made Steel**  
All structural fabrication is made from USA sourced Grade A36 steel.
- **Tapered Truss Design for Added Strength**
- **Fifth Wheel Design for Ease of Portability**
- **One 22,500 lb. (10.2 mt) Axle w/Dual 11R x 22.5 Tires and Air Brakes**

### FEEDER

- **9 Cubic Yard (8.2m) Hopper with 12' - 0" (3.65m) Wide Feed Opening**  
A perfect match for a three to four cubic yard front end loader.
- **Heavy-Duty Tipping Grizzly**  
Grizzly keeps oversized rocks and wood larger than 4 1/2" (1.37m) from entering the hopper.
- **26" (66 cm) Wide 2-Ply 220 PIW Feeder Belt**  
Extra wide belt creates steeper hopper sides that reduce bridging.
- **Variable Belt Speed**  
Hydraulically controlled belt speed creates a consistent and accurate feed rate of material to the shredder or screen.
- **Wrap Idler Under Head Pulley**  
Prevents belt slippage during heavy hopper loads.



### CONVEYOR BELT



- **24" (60.96 cm) Wide Main Belt**  
Heavy-duty 2-ply 220 PIW belt for long wear life.
- **Lagged Head Pulleys and Wing-Type Tail Pulleys**  
Precision® pulleys for positive traction, alignment and belt cleanliness.
- **5" (12.7 cm) Diameter Idlers and Rubber Disc Returns**  
Goodman® idlers provide the optimal strength to carry the load.

### OPTIONS

- **High Speed Hammermill Shredder**  
48 hardened blades spinning at 1500 RPM will pulverize your dirt products creating more sellable fines and less oversize.  
Shredder hammermill chamber hydraulically raises and lowers into position.  
Spring tensioned baffle plates control the shredding action while bypassing large rocks.
- **Hydraulic Conversion Kits**  
Capable of powering up to three additional stacking conveyors and a sand screw.
- **Wireless Remote Control Hydraulic Grizzly**  
Removes oversized material build-up from your grizzly with the push of a button.
- **Spray Bar Assembly for Wash Plants**
- **4' - 0" x 8' - 0" (1.2m x 2.4m) Triple Deck Screen**



### DIMENSIONS

#### Shipping Information

Height	13' - 0"	(3.96m)
Length	53' - 0"	(16.15m)
Width	8' - 6"	(2.59m)
Weight (approx.)	23,000 lbs.	(10,433 KG)



### 80' (24.4m) STACKING CONVEYOR

The Screen Machine Industries 80' (24.4m) long portable radial stacking conveyor is unique in the industry. This innovative counterweighted design with its cantilevered discharge has the ability to create stockpiles of material typically associated with larger 100' (30.5m) stacking conveyors. Stockpiled materials stay clear of the radial axle undercarriage creating unobstructed radial piles. The powerful wrap pulley drive system generates the belt traction needed for massive production. Ease of transport with either side or top folding truss capability make this conveyor a necessary part of any large portable operation.

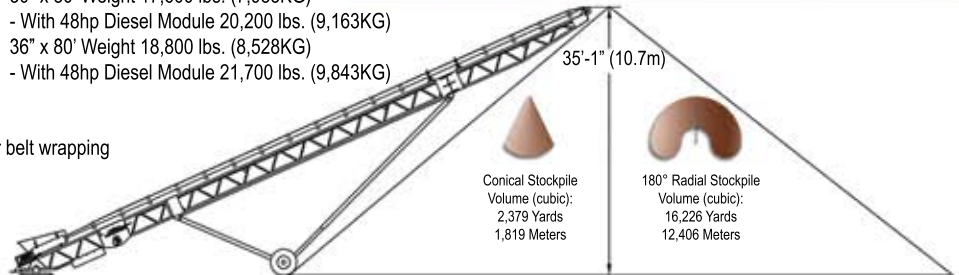
#### MODEL SIZES AVAILABLE

- Model TH80-36 36" X 80'-0 Hydraulic Drive (914mm x 24.4m)
- Model TE80-36 36" X 80'-0 Electric Drive (914mm x 24.4m)
- Model TH80-30 30" X 80'-0 Hydraulic Drive (762mm x 24.4m)
- Model TE80-30 30" X 80'-0 Electric Drive (762mm x 24.4m)



#### SHIPPING INFORMATION

- Height 13'-0" (3.96M)
- Length 62'-7" (19.08M)
- Width 10'-9" (3.51M to 3.81M)
- 30" x 80' Weight 17,600 lbs. (7,983KG)
- With 48hp Diesel Module 20,200 lbs. (9,163KG)
- 36" x 80' Weight 18,800 lbs. (8,528KG)
- With 48hp Diesel Module 21,700 lbs. (9,843KG)



#### KEY FEATURES

- Stockpile capacity equal to 100' (30.5m) conventional conveyor
- Telescoping swivel radial undercarriage for stable radial stockpiling
- Counterweighted design for unobstructed radial travel
- Variable conveyor angle positioning up to 24°
- Heavy-duty 30" (762mm) deep lattice truss frame
- High strength 6" (152mm) square tubular undercarriage
- Head section top folds or side folds for easy transport
- Large lagged 18" (457mm) head pulley with two additional wing pulleys for belt wrapping
- 5" (127mm) Diameter troughing and return idlers
- 16,000 lb (7,258KG) Axle with 11:00 x R22.5 12 ply tires
- Fifth wheel king pin transport with site pull tow ring
- Large heavy-duty 6' (1.8m) long receiving hopper

#### 80' & 60' AVAILABLE OPTIONS

- 48hp Diesel power module
- Extra large receiving hopper extension
- Hydraulic or electric/hydraulic cylinder raise/lower
- Hydraulic or electric power radial travel
- Wireless remote control for power travel option
- Super single tires or dual wheel configuration
- Ground level grease extensions
- Hydraulic top fold section
- Hydraulic landing gear
- Air brakes

### 60' 18.3m STACKING CONVEYOR

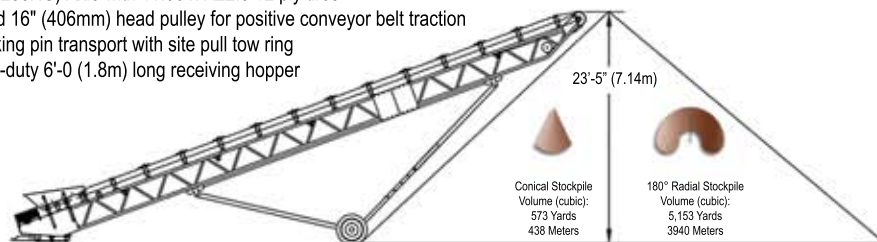
The Screen Machine Industries 36" x 60'-0 (914mm x 18.3m) portable radial stacking conveyors are the most powerful conveyors in the industry. Plenty of horsepower is combined with a doubled angle deep truss design to create a conveyor capable of moving massive material volumes at speeds up to 480' (146m) per minute. This conveyor is the perfect match for portable crushers and screening plants with wider belts and high volume discharges that overwhelm typical industry conveyors.

#### KEY FEATURES

- Powerful drive delivering 480' per minute (146m) belt speed for maximum tonnage
- Telescoping swivel radial undercarriage for radial stockpiling
- Heavy-duty 30" double stacked angle (762mm) deep lattice truss
- High strength 6" (152mm) square tubular undercarriage
- Hydraulic cylinder raise and lower (hydraulic conveyors)
- Variable conveyor angle positioning up to 20°
- 5" (127mm) Diameter troughing and return idlers
- 16,000 lb (7,258KG) Axle with 11:00 x R22.5 12 ply tires
- Large lagged 16" (406mm) head pulley for positive conveyor belt traction
- Fifth wheel king pin transport with site pull tow ring
- Large heavy-duty 6'-0 (1.8m) long receiving hopper

#### MODEL SIZES AVAILABLE

- Model TH60-36 36" X 60'-0 Hydraulic Drive (914mm x 18.3m)
- Model TE60-36 36" X 60'-0 Electric Drive (914mm x 18.3m)



#### 48HP DIESEL MODULE SPECIFICATIONS

- Yanmar® 48hp (35.3kw) diesel engine
- Hydraulic pump and control valve
- Hydraulic filter system with oil cooler
- Heavy-duty fuel tank and hydraulic oil tank
- Key start with hour and amp meter
- Optional second hydraulic control valve

#### SHIPPING INFORMATION

- Height 9'-5" (2.87m)
- Width 8'-5" (2.57m)
- Length 60'-11" (18.57m)
- Weight 12,000 (4,990kg)
- Weight with diesel module 15,000 (6,804kg)



### 50'/40' (15.2m/12.1m) STACKING CONVEYORS

Screen Machine Industries manufactures a line of 40'-0" (12.2m) and 50'-0" (15.3m) channel frame stacking conveyors. Conveyors are available in belt widths of 24" (610mm), 30" (762mm) and 36" (914mm) to accommodate most job site material stockpiling requirements. Easily transported from job site to job site with a pintle hook capable pick-up truck.

#### MODEL SIZES AVAILABLE

- Model CH40-24 24" X 40'-0" Hydraulic (610mm x 12.2m)
- Model CE40-24 24" X 40'-0" Electric (610mm x 12.2m)
- Model CH40-30 30" X 40'-0" Hydraulic (762mm x 12.2m)
- Model CE40-30 30" X 40'-0" Electric (762mm x 12.2m)
- Model CH40-36 36" X 40'-0" Hydraulic (914mm x 12.2m)
- Model CE40-36 36" X 40'-0" Electric (914mm x 12.2m)

- Model CH50-24 24" X 50'-0" Hydraulic (610mm x 15.3m)
- Model CE50-24 24" X 50'-0" Electric (610mm x 15.3m)
- Model CH50-30 30" X 50'-0" Hydraulic (762mm x 15.3m)
- Model CE50-30 30" X 50'-0" Electric (762mm x 12.2m)



#### KEY FEATURES

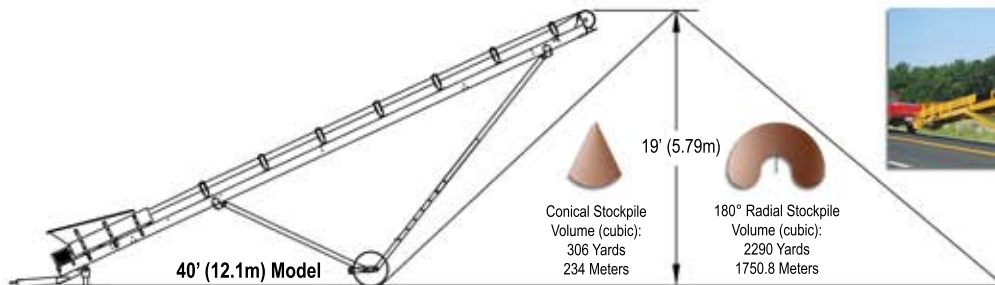
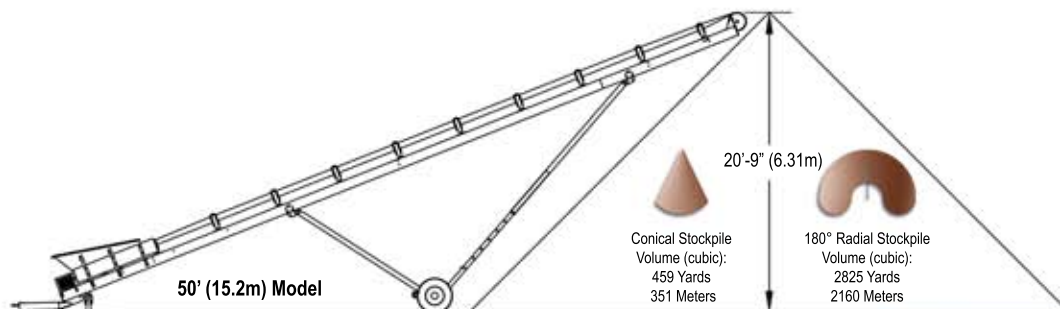
- Swivel wheel radial undercarriage for radial stockpiling
- Heavy-duty 8" (203mm) channel frame structure
- Square tubular under-structure for solid support
- Hydraulic or electric drives available
- Hydraulic cylinder raise/lower (optional on electric drives)
- Large heavy-duty 6' (1.8m) long receiving hopper
- Variable conveyor angle pin positioning
- 14" (356mm) Lagged head drive pulley
- 10" (254mm) Wing type tail pulley
- Single axle with 8:00 x 14.5 tires
- Pintle tow tongue for easy transport



(Optional Magnetic Head Pulley With Non-Metallic Chute)

#### AVAILABLE OPTIONS

- Concrete counterweight for higher stockpiling capabilities (40' (12.2m) only)
- Hydraulic or electric power radial travel
- Wireless remote control for power travel option
- 10hp or 48hp diesel power modules
- Extra large receiving hopper extension



#### SHIPPING DIMENSIONS

- Height 11'-7" (3.96m)
- Width 8'-6" (2.59m)
- Length 44'-0" (13.41m) - 40' conv.
- Length 54'-0" (16.46m) - 50' conv.
- Weight 5,000 (2,268kg) - 40' conv.
- Weight 5,500 (2,495kg) - 50' conv.

#### 48HP DIESEL MODULE SPECIFICATIONS

- Yanmar® 48hp (35.3kw) diesel engine
- Hydraulic pump and control valve
- Hydraulic filter system with oil cooler
- Heavy-duty fuel tank and hydraulic oil tank
- Key start with hour and amp meter
- Optional second hydraulic control valve



#### 10HP Diesel Module Specifications

- Yanmar® 10hp (7.35kw) diesel engine
- Hydraulic pump and control valve
- Hydraulic filter system
- Heavy-duty fuel tank and hydraulic oil tank
- Key start with hour and amp meter

# SCREEN MACHINE INDUSTRIES, INC.

AN AMERICAN MANUFACTURER OF PORTABLE CRUSHING AND SCREENING EQUIPMENT

Screen Machine Industries, Inc. is an innovative American manufacturer of portable machinery dedicated to material crushing, screening and stockpiling. Our product offering provides solutions ranging from 15-600 tons/yards per hour across a vast array of applications (such as sand & gravel, concrete & asphalt, topsoil & compost products). Our successful engineering philosophy is to incorporate reliable brand name components and industry leading features with the highest quality manufacturing techniques. This philosophy has prominently driven our success since 1966.



Screen Machine Industries, Inc.  
Corporate Headquarters

The manufacturing process includes the utilization of CNC fabrication equipment, robotic welders, advanced painting facilities and highly skilled mechanical technicians assembling these machines. Multiple levels of quality control and thorough run-time inspections are in place to ensure the quality and reliability that we demand and that you expect.

Screen Machine Industries, Inc. continues to make substantial investments in research and development. Our highly skilled engineers combined with the latest computer technology, create the most innovative products in the crushing and screening industries. Numerous U.S. Patents have been awarded as a result of our creative ambition in developing machinery that we feel is superior to any in the industry. We also strive to add the best design engineers available to our organization. Our engineers are graduates of MIT and other prestigious universities throughout the United States.

Our diverse product line consists of heavy-duty, track-mounted Jaw and Impact Crushers, Spyders, Scalpers, Trommels and Conventional Screening and Shredding Plants. Our portable stacking conveyors complete the product lineup with sizes available to fit most every job.



SCALPER 107T



612T TROMMEL



SCALPER 107D



4043T IMPACT CRUSHER



JXT/JHT JAW CRUSHER



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