



# THE SCREEN MACHINE®

AN AMERICAN MANUFACTURER OF PORTABLE CRUSHING, SCREENING / SHREDDING PLANTS AND CONVEYORS

## SCALPER 107D

US Patent # 6,401,993  
US Patent # 6,000,553



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## KEY FEATURES

### SCREEN BOX

- **U.S. Patent # 6,000,553 Dual Screen Centered Support Design Creates Unequaled Structural Strength**

This uniquely patented design features two independent shaker screens with a middle structural wall support that acts much like the center support of a span bridge, creating unequal strength and durability for handling extremely heavy screening loads.

- **Two 5'-0" x 7'-0" (1.5m x 2.13m) Double Deck Two Bearing Screens**

Creates a wide opening of 15'-3" (4.65m) matching perfectly with 3 - 5 yard loaders.

- **Low Feed Height**

10'-11" (3.6m) feed height allows front end loader feeding without building a ramp.

- **Top Deck Accepts Grizzly, Punch Plate, Fingers or Wire Cloth Screens**

T-1 tapered grizzly spaced at 5" or 6" for your heaviest rock and materials

Grade 80 punch plate 4", 5" or 6" hex for general duty work

Square woven wire cloth in multiple sizes for lighter duty applications

Finger screen decks available for materials with vegetation

Bottom deck screen box accepts square or slotted wire cloths and harp style screens

- **USA Grade 80 Steel Construction**

Shaker screens bolted together with USA sourced high strength 3/8" (10mm) Grade 80 steel will handle the vibratory stress better than imported screens typically made with a mild grade of steel.

- **Dual Screen Boxes Feature a Large 11" (28cm) Clearance Between Top and Bottom Decks**

Large screen openings (upwards of 6") on the top deck are supported and pose little risk of rock hang-ups. Oversize throughput from large openings would otherwise tend to bridge between the decks in the absence of the large 11" clearance.

- **Smooth Start® Technology (US Patent # 6,401,933)**

At slow speeds, the screen shaft rotates perfectly round, creating no throw or shake at all.

As the screen shaft RPM approaches operating speed, the counterweight extends outward creating the appropriate shake necessary to screen your material. This process also works

in reverse during your machine shutdown. Smooth Start® technology eliminates the otherwise

present risk of machinery damage caused by slow speed violent shaking during your warm-up

or shut-down periods. This fine example of American ingenuity is patented to deliver exclusive

long term value by extending the life of the bearings and components.



RETRACTED  
(SLOW)



EXTENDED  
(FAST)

### STRUCTURE

- **USA Grade 80 Steel Construction**

All critical structure points use high strength Grade 80 steel generating a yield strength of 80,000 psi. That's more than two times the yield strength of A36 steel (36,000 psi) commonly used in most other machinery. This single feature alone could double your machine's life span.

- **USA Sourced 6" Structural Tubing Support Frame**

A unique 5 point stance creates an incredibly strong support structure unequalled in our industry.





## POWER SYSTEM

- **Caterpillar® 48 HP Diesel Engine**  
With the patented **Smooth Start**® Technology installed on the shaker screens, horsepower requirements for operation are significantly less than any competitor in the industry, resulting in a savings of thousands of dollars per year in fuel costs.
- **60 Gallon (227 liters) Lockable, Baffled Hydraulic Oil Tank**
- **34 Gallon (129 liters) Lockable Diesel Fuel Tank**  
Over 12.5 hours of continuous material processing without the need to refuel
- **Locked Control Panels & Electronic Murphy® Shut Offs**



## PORTABILITY

- **Fifth Wheel Pin Transport**  
Brake lights, turn signals and mud flaps are all standard features
- **22,500 lb. Axle w/ Air Brakes**  
Four 11.00R-22.5 tires are standard
- **Heavy Duty Tow Ring for Field Portability**
- **Hydraulic Axle Raise and Lower**  
With the flip of a lever...you're ready for transport
- **Hydraulic Landing Gear**  
Allows for easy tractor connection without the need for additional equipment



## PRODUCT SUPPORT

- **Factory Headquarters Located Near Columbus, Ohio**
- **Lifetime Toll Free Engineering Telephone Support (USA Only)**
- **USA Sourced Name Brand Parts**
- **Rapid Response Parts Availability**
- **Extensive Distributor Network**
- **Detailed Operational, Service & Parts Manuals**

## WHY THE SCREEN MACHINE ?

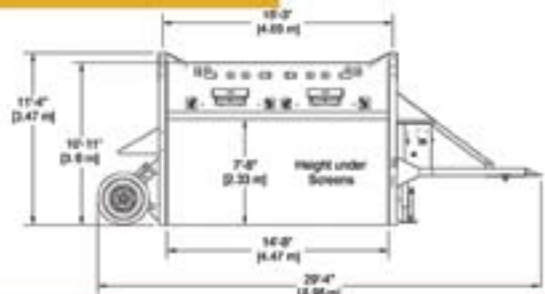
Screen Machine Industries, Inc. invests what is necessary to build your Scalper 107D with name brand components, high strength steel, patented designs and features required for long term, maintenance free, reliable productivity. Which of these features can you afford to be without? We welcome the opportunity to be compared so that our true value can be identified.

## DIMENSIONS



### Shipping Information

Height	12' - 2"	(3.71m)
Length	29' - 8"	(9.04m)
Width	8' - 0"	(2.44m)
Weight (approx.)	24,000 lbs.	(10,886 KG)



# SCREEN MACHINE INDUSTRIES, INC.

AN AMERICAN MANUFACTURER OF PORTABLE CRUSHING, SCREENING/SHREDDING PLANTS & CONVEYORS

Screen Machine Industries, Inc. is an innovative American manufacturer of portable machinery dedicated to material crushing, screening, washing and stockpiling. Our product offering provides production solutions across a vast array of applications ranging from 15 - 600 tons/yards per hour (sand & gravel, concrete & asphalt, topsoil & compost products... just to name a few). Our engineering design philosophy of incorporating only industry leading brand name components and feature rich competitive advantages has prominently influenced our 40 years of success. We invite you to discover why our track mobile impact crushers, vibratory screening/shredding plants, trommel screening/shredding plants, vibratory scalping plants and radial stacking conveyors are shipped throughout the world as the preferred choice of distributors and customers.



Screen Machine Industries, Inc.  
Corporate Headquarters

An ongoing construction program of building new factories and additions is necessary to keep up with the expanding range of products and markets. Screen Machine Industries, Inc. recently completed a major expansion with a new 90,000 square foot addition to the existing facility. This expansion has allowed Screen Machine Industries, Inc. to double its total manufacturing capacity, ensuring that we meet the heavy demand for products today and into the future.



Several US Patents have been awarded as a result of our creative ambition in developing machinery superior to any in the world. The manufacturing process includes the utilization of high definition plasma tables, CNC fabrication equipment, 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. We utilize the newest and best in 3-dimensional drawing tools. Screen Machine Industries, Inc. uses the latest version of SolidWorks™ at all engineering stations. Our highly skilled engineers, combined with the latest computer technology, create the most innovative products in the screening industry.



Our machines are designed to handle the most rugged demands our customers require. This focus on heavy-duty design allows Screen Machine Industries to produce the best machines possible. We strive to add the best design engineers to our organization. Several of our engineers are graduates of M.I.T. and other prestigious universities throughout the United States.

Our diverse product line families consist of heavy-duty portable Impact Crushers, Spydres, Scalper Series, Trommel Series and Conventional Screening and Shredding Plants. Portable Radial Stacking Conveyors complete the product line with sizes available to fit most every job.



SCALPER 107T



4043T IMPACT CRUSHER



SPYDER 516T

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