

# THE SCREEN MACHINE®

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

## SPYDER 516T

US PATENTS  
6,698,594  
6,669,026



GULF ATLANTIC INDUSTRIAL EQUIPMENT, INC.  
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INDUSTRIAL EQUIPMENT INCORPORATED  
Concrete, Aggregate, and Material Handling Equipment

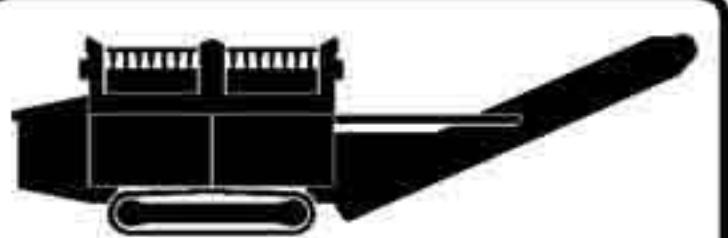
*Concrete Solutions with Rock Solid Results*

**800-792-7427**

# Quality Engineering By Design...



**...Requires Industry Leading Brands**



## KEY FEATURES

### FEEDER

- **Feed Hopper Can Be Loaded From All Three Sides**  
Patented design allows your loader to feed both hopper sides and rear
- **Hopper Walls Made of 1/2" (13mm) USA Grade 80 Steel**  
Hopper strength and durability can handle the toughest applications
- **10'-0" (3m) Feed Height At Low Hopper End**  
Low hopper feed height permits loading without building a ramp
- **Feed Height Lowers to 8'-3" (2.5m) When Rear Hopper Gate Is Lowered**  
Direct feed from a crusher is supported - our 4043T Impact Crusher fits to perfection
- **Heavy Duty Structural Steel Impact Bed Supporting 1 1/2" (3.8cm) - Thick UHMW Plastic Liners & 5" (13cm) Impact Idlers**  
Built tough to handle a wide range of raw materials
- **48" (1.22M) Wide 3 Ply 600 PIW Conveyor Belt**
- **Variable Feeder Speed Adjustment Via Wireless Remote**  
The safety and control of overall productivity is piloted by wireless remote control from upwards of 300 feet away
- **Dual Motor Drive With 18" (46cm) Lagged Head Pulley**  
Horsepower combined with traction equals a steady uninterrupted feed
- **Feed Length 15'-6" (4.7M) : Feed Width 7'-6" (2.3M)**  
Long enough for a front end loader, wide enough for an excavator
- **11 Cubic Yard (8.4m) Hopper Capacity**  
Matches with 4-6 cubic yard front end loaders & 1-3 cubic yard excavators



- **Optional Grizzly Available For Fourth Product Separation**  
Built with USA T1 steel tapered bars  
Nominal size opening 6" (150mm)  
Wireless remote control hydraulic tipping

### UNDERCARRIAGE

- **Caterpillar® 312 Tracked Undercarriage**
- **43 Track Shoes Each Side With 20" (500mm) Shoe Width**
- **Sealed and Lubricated Pins and Bushings**
- **Carrier Rollers (one per side)**
- **Track Gauge 7'-10" (2.39m)**
- **Maximum Travel Speed .77 MPH (1.24 km/hr.)**
- **Worldwide Access to Aftermarket Product Support**
- **Ground Clearance Minimum 11" (280mm)**

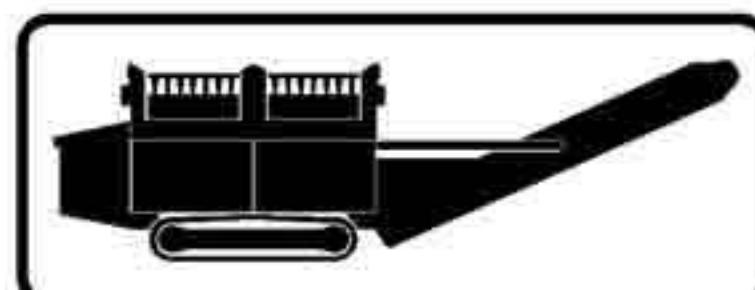
Clearance allows movement over rough terrain without damage



#### Quality Engineering by Design...Requires Industry Leading Brands

Track undercarriage components including link assemblies, rollers, idlers & sprockets represent the majority of your investment in the complete lower arrangement. Even though they may deploy to support similar weight classes of machinery, they are not all of equal value. Simply stated... many track manufacturers do not have the stringent processes in place that yield quality components. Varying hardness levels, material specifications & manufacturing processes will often produce an inferior component which can lead to unpredictable wear rates, service issues & ultimately destruction. Caterpillar's® 312 track undercarriage components all go through special heat treatment processes which provide consistent surface hardness, superior hardened depth & core hardness levels. The resultant components, be it a link, roller, sprocket or idler, have a distinct metallurgical advantage in the marketplace. Caterpillar's® superior strength and durability differentiation, yields unmatched wear resistant characteristics for the attainment of long service life. Screen Machine Industries, Inc. is committed to utilizing name brands that deliver maximum performance and optimum life cycle value.

Specifications Subject to Change Without Notification



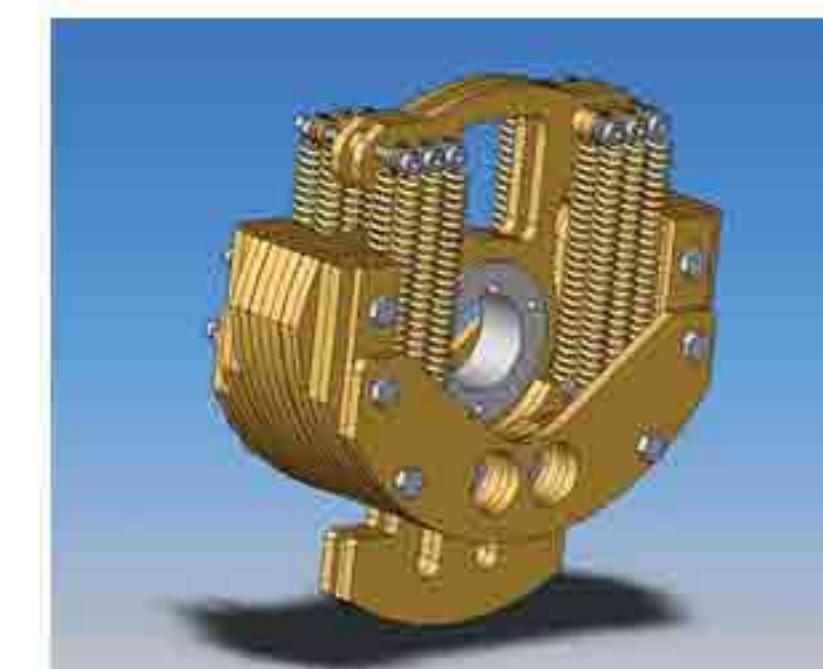
## SCREEN BOX

- **5'-0" x 16'-0" (1.5 x 4.9m) Double Deck Two Bearing Screen**  
Capacity matched to upwards of 600 tons per hour, subject to material specifications
- **3/8" (9.5mm) Grade 80 US Steel Screen Box**  
Heavy duty wear resistant plate for extra long life
- **Hydraulically Adjustable Screen Angle Includes 4 Operating Positions Ranging From 8 to 20 Degrees**  
Match the screen angle to material for efficient screening of all types of products
- **Top Deck 5' x 16' (1.5 x 4.9m) Accepts Wire Cloth, Punch Plate or Finger Screens**
- **Bottom Deck 5' x 12' (1.5 x 3.7m) Accepts Wire Cloth, Harp Style or Finger Screens**

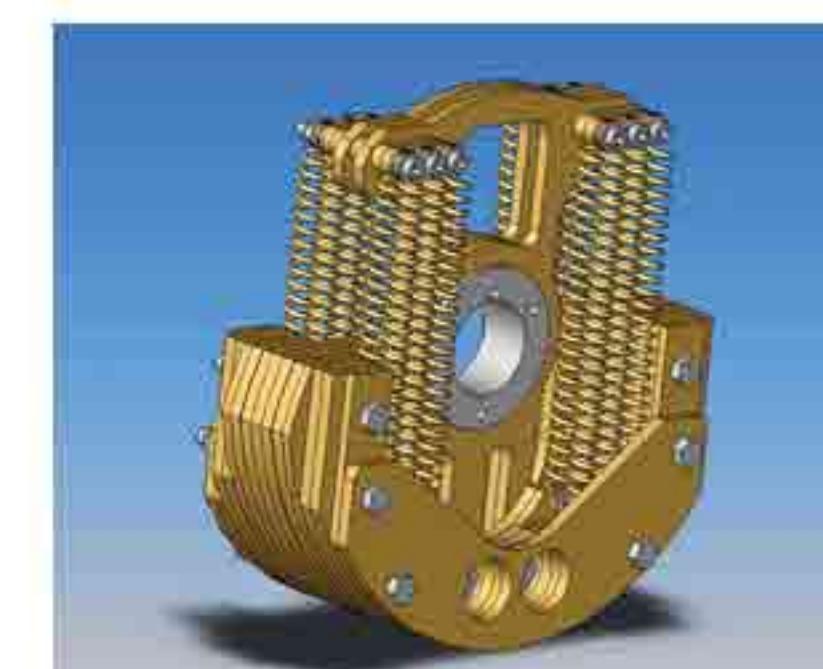


- **SMOOTH START™ Technology (US Patent # 6,669,026)**

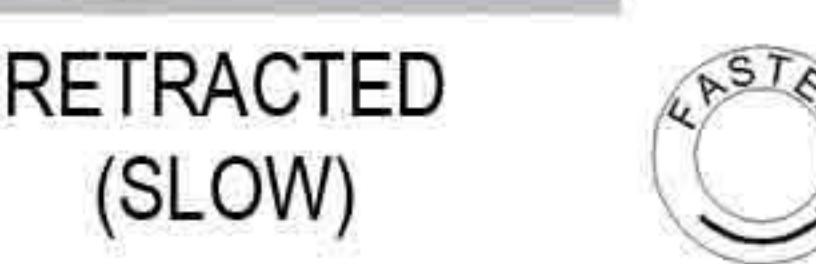
At slow speeds, the screen shaft rotates perfectly round, creating zero elliptical throw (no shake at all). As the screen shaft RPM approaches operating speed, the counterweight extends outward creating the appropriate elliptical shake necessary to screen your material. This process also works in reverse during your machine shutdown. *Smooth Start™* technology eliminates the risk of machinery damage caused by slow speed violent shaking during your warm-up or cool-down periods. This fine example of American ingenuity is patented to deliver exclusive long term value.



RETRACTED  
(SLOW)



EXTENDED  
(FAST)



- **Heavy Duty Ladder and Catwalk Accessibility**

Quality engineering by design includes all areas of safety and maintenance



- **Screen Box Separates From Unders Conveyor To Create A Working Platform**

Our service-minded design creates easy accessibility for changing bottom screens

## STRUCTURE

- **Massive Unibody Structure Features Unrivaled Deep Frame Design**

Massive unibody frame handles the high stresses of uneven loading during operation and rough terrain during movement.

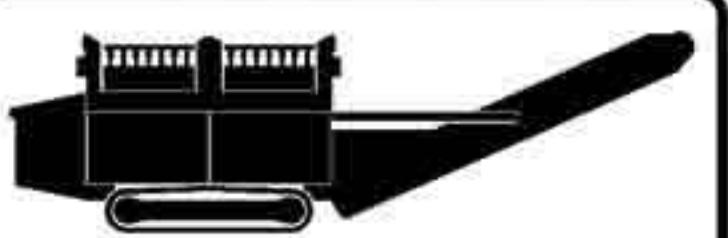
- **USA Grade 80 Steel Construction**

High strength wear resistant steel ensures long life structural integrity to address the most demanding jobsite applications

- **Elevated Frame Design Equates To Rapid Deployment And Set Up**

11" ground clearance uniquely eliminates the need for any machine disassembly or site preparation prior to movement. Enjoy the true wireless remote operation by never leaving the cab of your loader to reposition your machine.





## KEY FEATURES

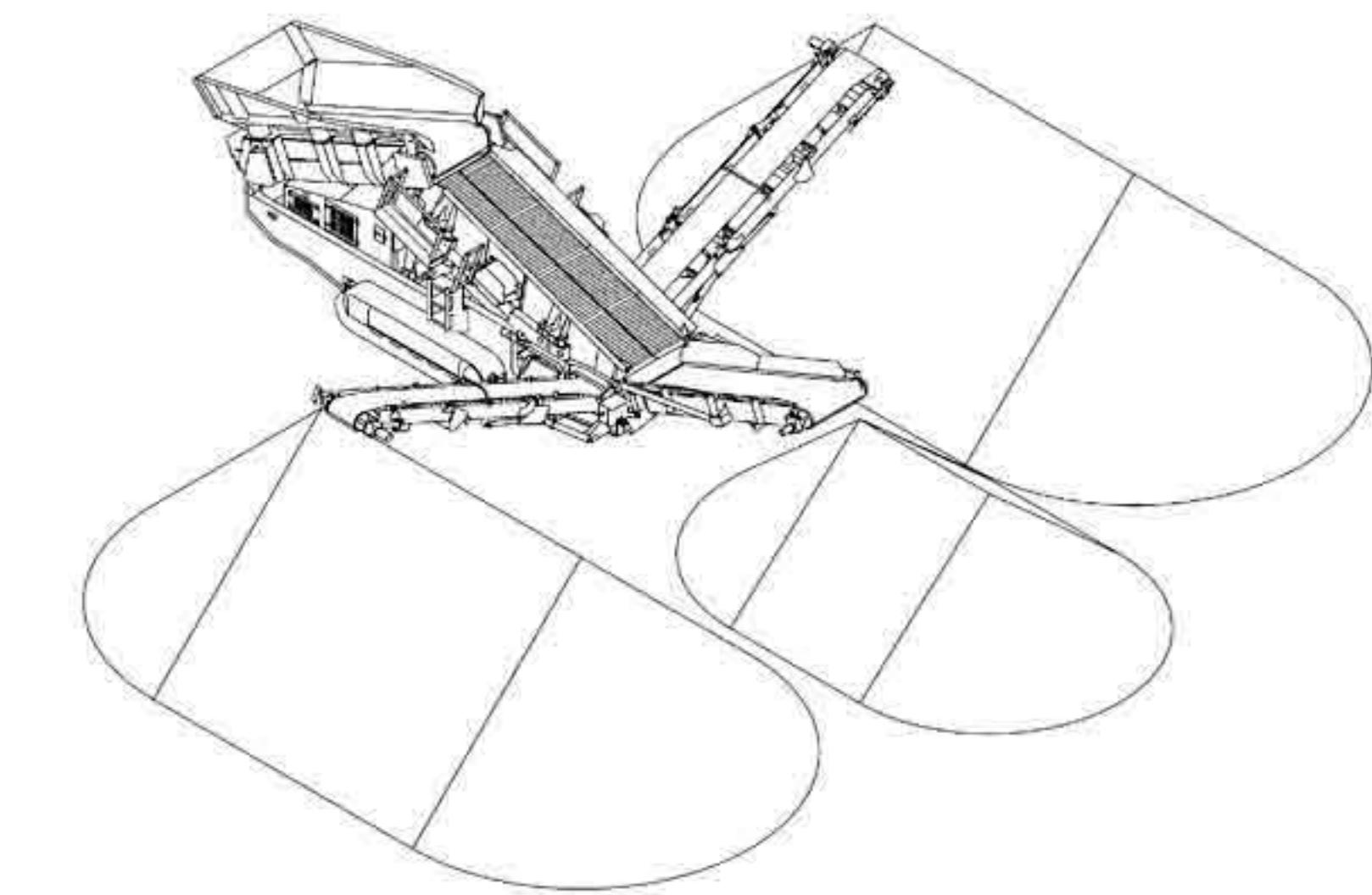
### POWER SYSTEM & CONTROLS

- **Cummins® Model B3.9 Four Cylinder 110 HP Diesel Engine**  
110 HP @ 2200 RPM turbocharged and charge air cooled  
40% fewer parts than traditional diesel engines - greatly limiting the potential for areas of wear and oil leakage.  
Supported by the largest parts and service network in the world
- **75 Gallon Fuel Tank (284 liters) With Lockable Fuel Cap**  
Two full days of production as approximate runtime at 4.5 GPH is 16.7 hours
- **120 Gallon (454 liters) Hydraulic Tank is Baffled and Lockable**
- **Oilair® Hydraulic Oil Cooler**  
From large hose diameters and fittings, to baffled tanks and coolers, our hydraulics run cool so your productivity can run hot!
- **Five (5) Emergency Stops** (includes one on the wireless remote handset)
- **Remtron® Wireless Remote Control Movement and Operation**  
True portability is found in never having to leave the safety and comfort of the feed operators cab while in control of production
- **Locked Control Panels & Electronic Murphy® Shut Offs**
- **Large Engine Compartment For Ease of Maintenance** (large enough to stand upright inside)



### CONVEYORS

- **US Patent # 6,698,594**  
Innovative design has earned the SPYDER 516T a patent separating it from all the rest
- **Open Flow Design Carries Oversized Product In A Straight Line**  
Impact bed protected conveyor accepts your oversize rocks without concern
- **Side Stackers Feature Variable Height Adjustment**
- **All Discharge Conveyor Belts Feature Variable Speed Control**  
Match belt speeds with your belt angle for optimal stockpiling capability
- **Cleated Midsize and Oversize Conveyor Belts**  
Whether your windrowing stockpiles, feeding oversize into a crusher or loading out trucks - our discharge heights are impressive. The 516T helps make the most of available site space before you're compelled to move the plant.
- **Guide Rollers On All Conveyor Belts**  
Guide rollers ensure centered belt tracking, eliminating spillage, damage and downtime
- **Transition Chutes Made Of 3/8" USA Grade 80 Steel**  
All major transitions are fabricated with wear resistant steel to alleviate premature wearouts
- **Precision® Lagged Head and Wing Type Tail Pulleys**
- **Goodman® Rubber Disc Return Idlers** (great for sticky materials)



Fines Belt Discharge Height 12'- 6" (3.8m)  
Midsize Belt Discharge Height 13' - 0" (3.8M)  
Oversize Belt Discharge Height 9' - 6" (2.9m)

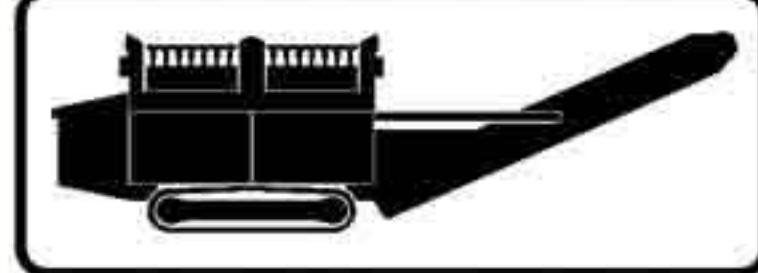
### PRODUCT SUPPORT

- Factory Headquarters Located In 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 ?

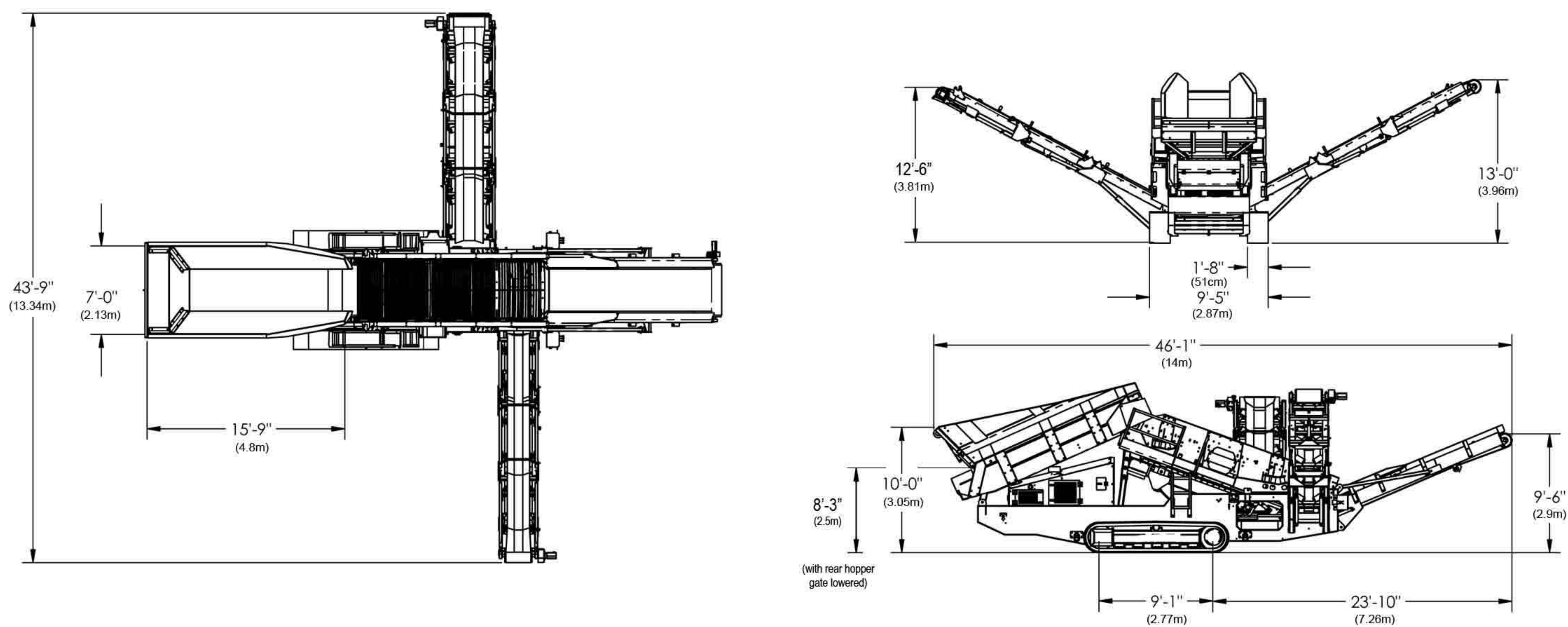
- Screen Machine Industries, Inc. invests what is necessary to build your SPYDER 516T with name brand components, wear resistant steel, proper impact beds and features required for long term, maintenance free, reliable productivity. Which of these features can you afford to be without? We welcome the opportunity to be compared so that our true value can be identified.

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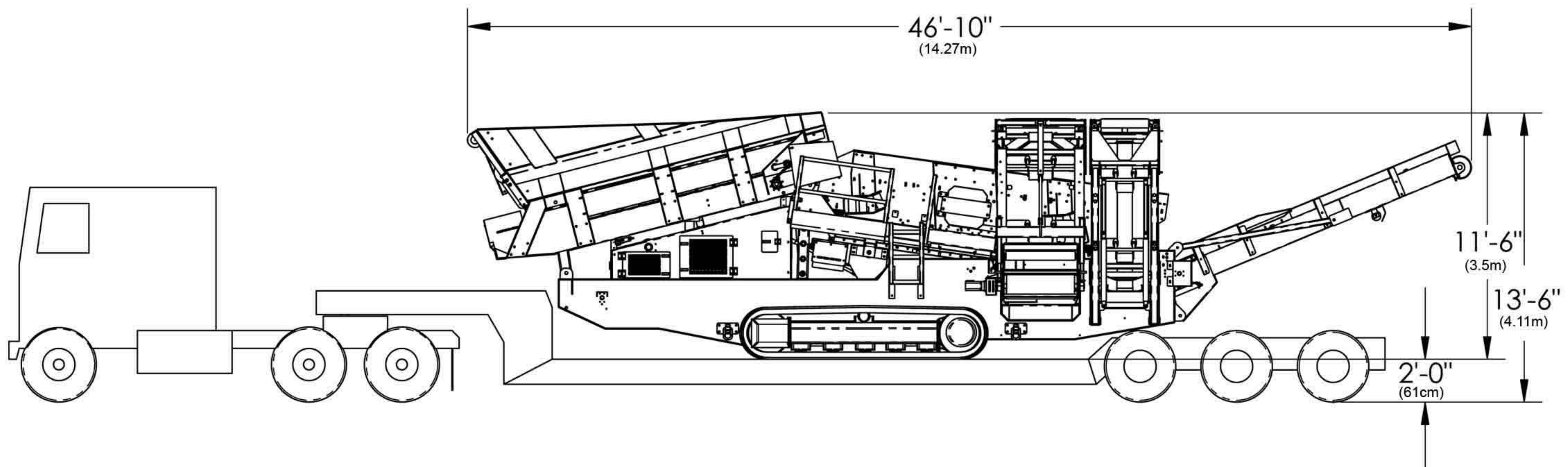


# THE SCREEN MACHINE

## OPERATING DIMENSIONS



## TRANSPORTATION DIMENSIONS



**Length 46' - 10" (14.27m)**  
**Width 9' - 6" (2.9m)**  
**Height 11' - 6" (3.51m)**  
**Height w/optional grizzly 11'-8" (3.56m)**  
**Weight 55,700 lbs. (25,265kg)**  
**Weight w/optional grizzly 59,000 lbs. (26,762kg)**

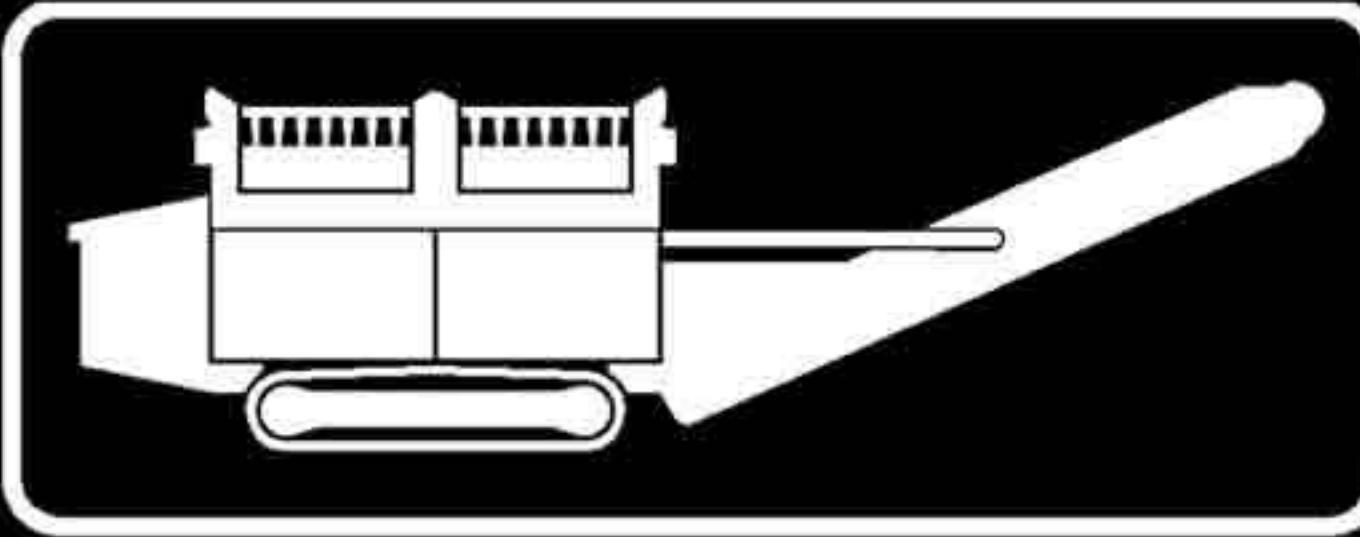
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The **SPYDER 516T** features hopper walls of 1/2" thick Grade 80 steel plate. The rear hopper gate folds down as shown below to provide a feed opening for the **4043T IMPACT CRUSHER**.



**THE SCREEN MACHINE® SPYDER 516T** portable screening plant is designed to match up perfectly with the **4043T IMPACT CRUSHER**. This remote controlled track-mounted system creates crushed material screened to three different sizes and stockpiled in a windrow formation. The **4043T IMPACT CRUSHER** features include a crusher curtain relief system (patent pending), Caterpillar® engine and Caterpillar® tracked undercarriage.

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Founded in 1967, **SCREEN MACHINE INDUSTRIES, INC.** is one of the largest manufacturers of portable screening, crushing and shredding plants in North America. **THE SCREEN MACHINE®** brand, featuring US sourced name brand parts is built in a new state-of-the-art manufacturing facility.

Unique product designs are created in-house by a highly educated engineering team utilizing three-dimensional modeling software. Numerous 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 technicians assembling these machines with multiple levels of quality control ensuring the reliability we demand and you expect.



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