

# SCREEN MACHINE INDUSTRIES, INC.

AN AMERICAN MANUFACTURER OF PORTABLE CRUSHING AND SCREENING EQUIPMENT

## 5256T IMPACT CRUSHER



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# Quality Engineering By Design..

52" x 15'-0" Vibratory  
Grizzly Feeder with a  
16'-0" Long Hopper

52" x 56" Horizontal  
Impact Crusher

Remote Control  
Crusher Relief System  
(US Patent 7,229,041)

CharLynn®  
Hydraulic Motors

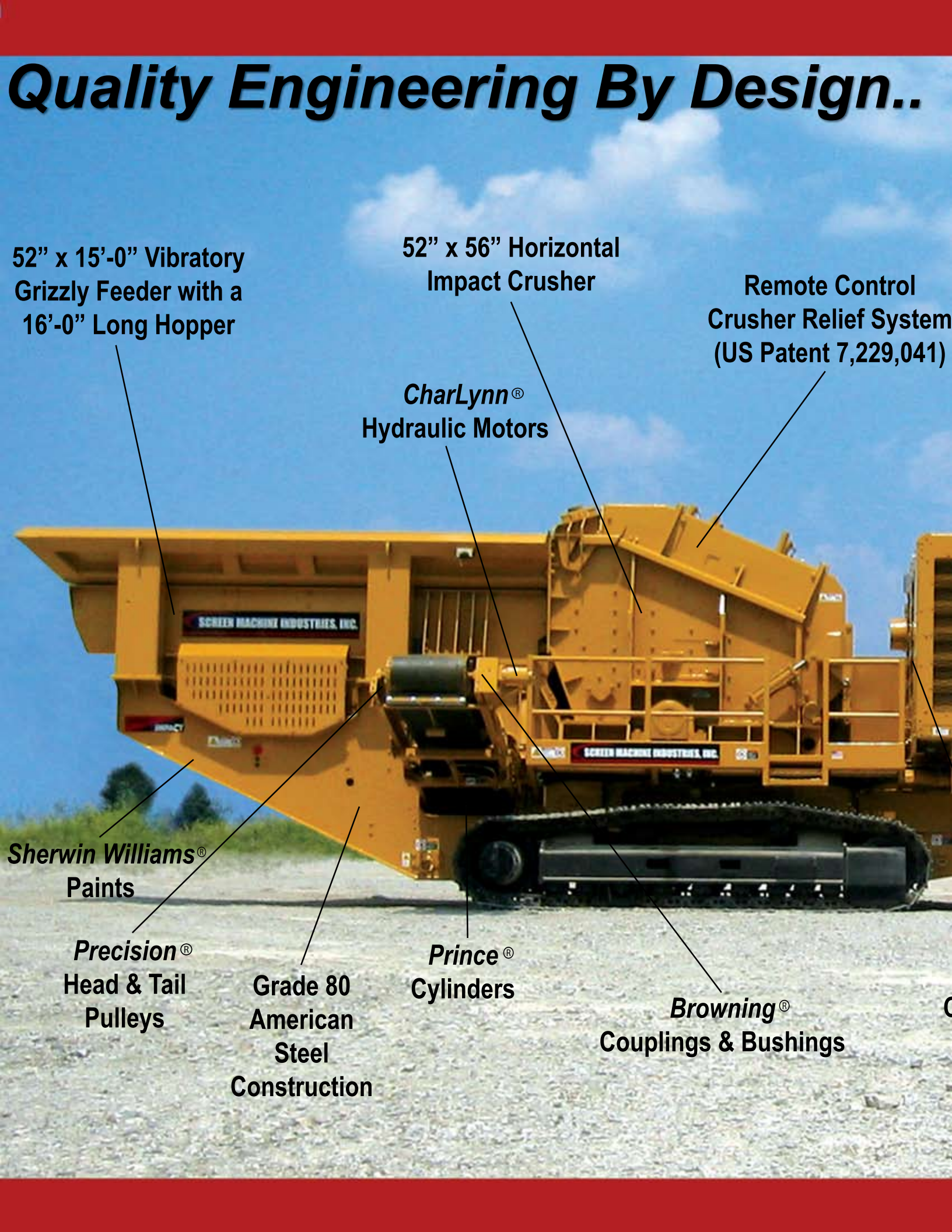
Sherwin Williams®  
Paints

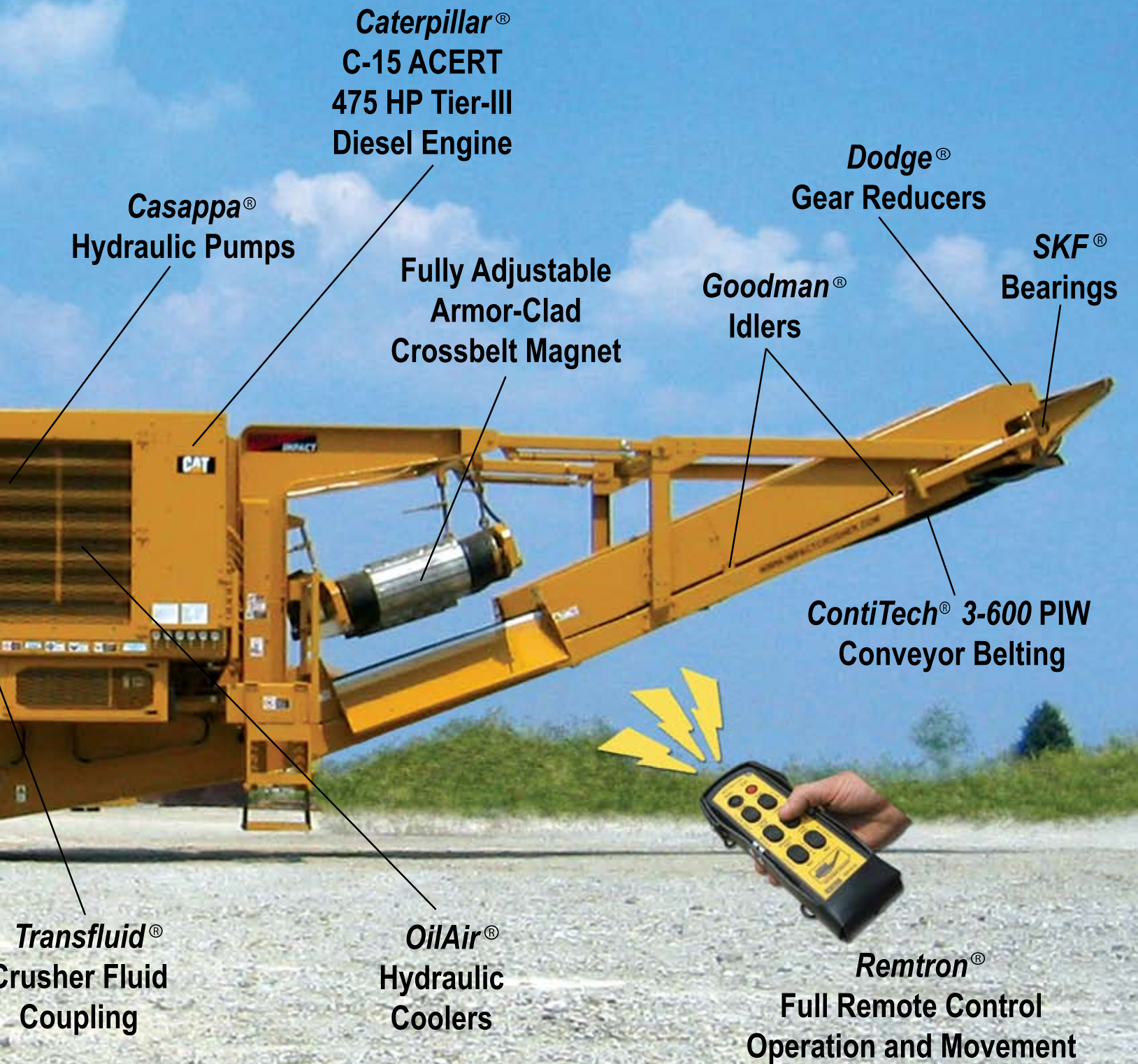
Precision®  
Head & Tail  
Pulleys

Grade 80  
American  
Steel  
Construction

Prince®  
Cylinders

Browning®  
Couplings & Bushings





**...Requires Industry Leading Brands**

# KEY FEATURES

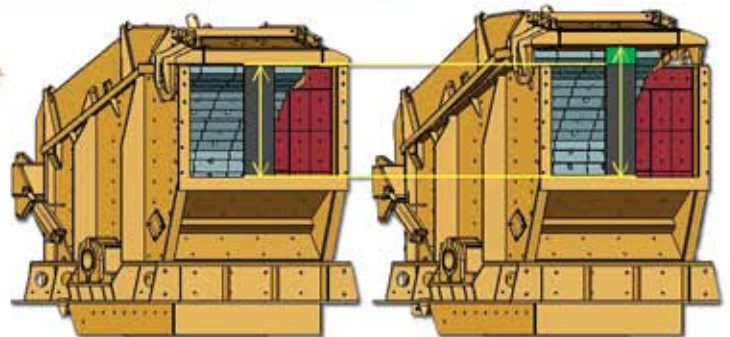
## CRUSHER



- 52" x 56" horizontal impact crusher
  - Years of proven engineering and design reliability
- Large 56" wide x 38" high feed inlet opening
- 52" diameter rotor with 4 blowbars (2 active)
- Variable speed control from 480 rpm to 560 rpm
- Two sets of hydraulically adjustable aprons
  - For multi-stage crushing
- Remote Crusher Relief System (US Patent # 7,229,041)
- Low chrome ceramic reversible blowbars (Standard)
- High chrome ceramic blow bars (Available by request)
- Low chrome steel blow bars (Available by request)

## CRUSHER RELIEF SYSTEM

- Raise and lower of crusher lid curtain
- Curtain lid operated by remote control
- Hydraulically raise crusher lid up to 6" during full operation
  - Effectively clears marginally oversized and bridged materials (raise from 38" to 44")
  - Reduces the need to pre-break material prior to crushing
  - Eliminates the need to reduce feed volume for fear of material bridging
- US Patent # 7,229,041



Operating Position

Blockage Clearance

## ENGINE



- Power supplied by a Caterpillar® C-15 ACERT Tier III 475 hp diesel engine
- Electronic control of engine speed ranges from 1800 to 2100 rpm
- 6 cylinder water-cooled with Murphy® shut-downs
- Large lockable engine compartment with easy, walk-in maintenance access
  - Provides ease of maintenance on all service access points
- 275 gallon diesel fuel tank
- 130 gallon baffled hydraulic tank with two large oil coolers
  - Maintains a cool running hydraulic system
- Transfluid® crusher fluid coupling
  - Replaces standard clutch providing smooth start-up & shut-down operations
- Fluid coupling design allows instantaneous rotor stoppage
  - Allows for sudden stops, promotes long belt life, no mechanical adjustments or expensive clutch breakdowns!

### UNDERCARRIAGE

- The 5256T Impact Crusher utilizes a heavy-duty undercarriage
  - Ensuring long term reliability, world-wide parts availability and product support
- Upgraded drive motors provide optimum grade climbing and turning ability
  - Idle engine speed allows the 5256T to be maneuvered slowly, for precision driving, while full engine speeds allow for tracking in all environments at low and high speeds
- Track operation is controlled from a safe distance
  - Wireless remote control handset used for movement and operation



### 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.

### REMOTE OPERATING SYSTEM & CONTROL PANEL

- Remtron® wireless remote control with 300' range
  - Variable feeder speed
  - Crusher relief system
  - Track speed (high & low)
  - Movement left, right, forward and backward
  - Emergency stop
- Never leave the cab of the loader to move the 5256T and resume material processing
- Detailed control panel allows for ease of operation



## 5256T Impact Crusher

### FEEDER



- 52" x 15'-0" vibratory grizzly feeder
  - Vibratory feeder includes a stepped grizzly with 1 1/2" nominal opening
- 16'-0" long hopper opening for wheel loader feeding
- Remote control variable speed from 575 to 850 rpm
- AR400 tapered grizzly bars
- AR400 feeder deck with replaceable liner plates
- Grizzly/crusher bypass lever for fines removal
- Use of sheave drive allows hydraulic motor to work in optimal speed range, resulting in long life of motor
  - Hydraulic motor is protected from falling debris and loaders

### MAGNET

- 48" x 7'-0" fully adjustable cross-belt permanent magnet
  - Four corner ratchet adjustment
- Reversible direction
- Heavy duty belt with armor plating and flights for extended belt life
- Stainless steel chutes on both sides of conveyor
  - Prevents magnetic material build-up
- Impact bed under magnet for optimal controlled performance



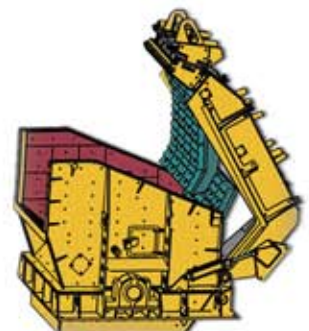
### CONVEYORS



- 54" wide ContiTech® 3-600 PIW main belt
- 12'-7" main belt discharge height
- Rubber disc return rollers
- Guide idlers
- Precision® head and tail pulleys with spherical roller bearings
- Main belt and side belt are directionally reversible
- Large Dodge® gear reducer with hydraulic drive motor
- Impact bed below crusher discharge
- Fines side conveyor with 24" belt
- 7'-5" side conveyor discharge height

### SERVICEABILITY

- Diagnostic center
- Split crusher housing for complete maintenance access
- Lockable tool storage compartment
- Multiple non-slip service platforms with ladders
- Service manuals in book form or electronic format
- Factory-based parts availability
- Lifetime toll-free engineering support



**SPYDER 516T SCREENING PLANT**

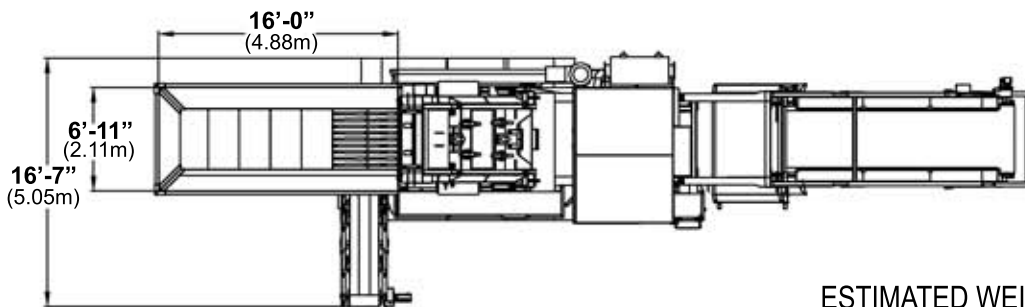


Screen Machine Industries' Spyder 516T is a perfect match to the 5256T Impact Crusher. This wireless remote-controlled 3-way split screening plant satisfies the need for a heavy-duty machine to process large volumes in the most demanding applications. This unit can operate alone or in tandem with the 5256T Impact Crusher (as shown to the left).

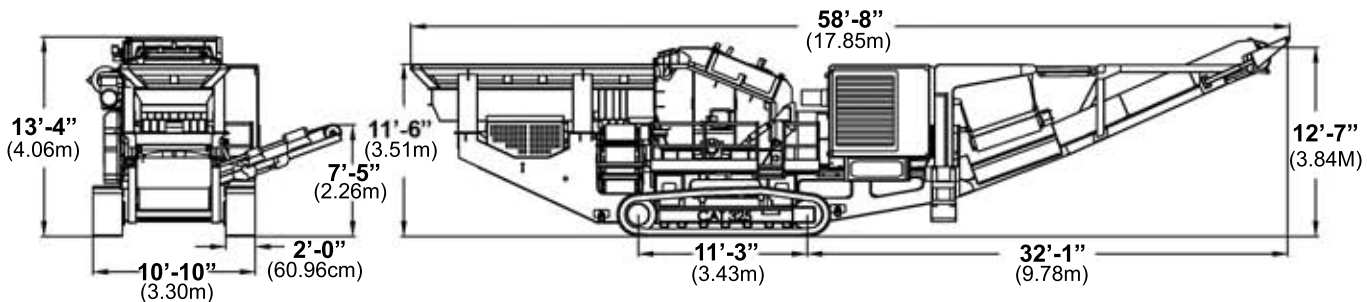
Features Include:

- Patented overall machine design allows loaders to uniquely feed from 3 sides of the feeder while maintaining a safe distance from conveyors and stockpiles
- Massive structural components manufactured from Grade 80 USA Steel for superior durability
- Leading American brand name components to ensure peace of mind investment
- Impact beds and apron feeders support severe-duty applications
- Straight pass through design engineered to process large oversize materials
- 5' x 16' (1.5M x 4.9M) double-deck shaker screen uses patented *Smooth Start*® technology

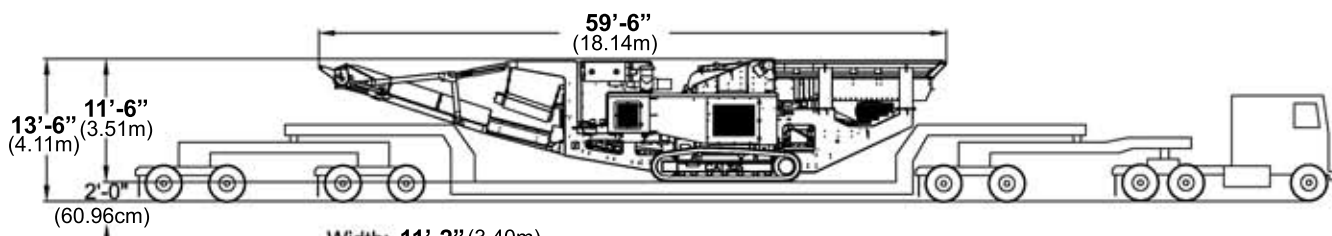
**OPERATING DIMENSIONS**



ESTIMATED WEIGHT: 119,000 lbs.



**TRANSPORTATION DIMENSIONS**



Width: 11'-2" (3.40m)  
 Estimated Weight: 119,000 lbs

Crusher may be removed and shipped separately (42,000 lbs. approx.)

# 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, washing and stockpiling. Our product offering provides production solutions across a vast array of applications ranging from 15 – 600 tons/yards per hour (rock, 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.



Screen Machine Industries, Inc.  
Corporate Headquarters

The manufacturing process includes the utilization of high definition plasma tables, 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 screening industry. Numerous US Patents have been awarded as a result of our creative ambition in developing machinery superior to any in the world. We also strive to add the best design engineers to our organization. Several of our engineers are graduates of MIT and other prestigious universities throughout the United States. Our machines are designed to handle the most rugged demands our customers require.



Our diverse product line consists of heavy-duty track-mounted Jaw and Impact Crushers, Spyders, Scalper, Trommel and Conventional Screening and Shredding Plants. Portable Radial Stacking Conveyors complete the product line with sizes available to fit most every job.



SCALPER 107T



SPYDER 516T



SCALPER 77C



SCALPER 107D



4043T IMPACT CRUSHER

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