

# SCREEN MACHINE INDUSTRIES™

AN AMERICAN MANUFACTURER OF PORTABLE CRUSHING AND SCREENING EQUIPMENT

## SPYDER 622TH



10685 COLUMBUS PARKWAY, ETNA, OHIO 43062 USA

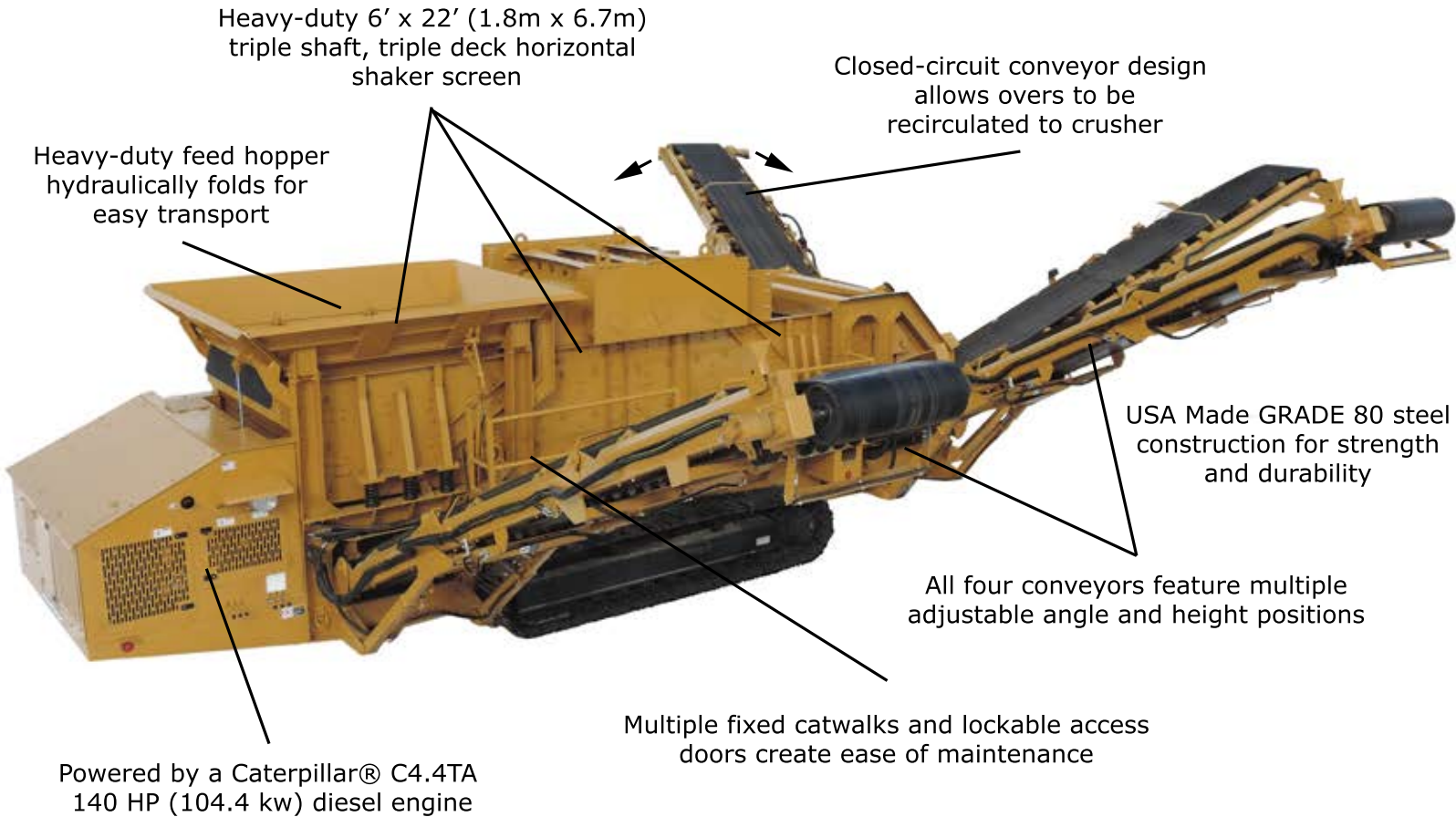
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# OVERVIEW

**Screen Machine Industries is a global leader in crushing and screening equipment with manufacturing headquarters located near Columbus, Ohio, USA.**



**Quality Engineering Requires Industry Leading Brands Such As:**

- Caterpillar
- Eaton
- Charlynn
- Browning
- Martin
- Precision
- Prince
- Fairfield
- Sherwin Williams
- Parker
- SKF
- Remtron
- Energy
- Oilair
- Zinga



Remtron® wireless remote control creates true portability by never having to leave the safety and comfort of the feed operators cab while in control of track movement and machine operation

# UNIQUE FEATURES

## SCREENBOX

- Heavy-duty triple deck 6'-0" x 22'-0" (1.83m x 6.7m) horizontal shaker screen
- Triple shaft shaker drive, top mounted for ease of access
- Adjustable stroke angle, stroke length and RPM speeds for different screens and materials  
 Capability to make necessary screen adjustments in the field
- Heavy-duty catwalks for safety and ease of maintenance access
- Access holes in bottom deck for ease of screen installation
- Four sections of side tension screen cloths per deck in a multitude of different sizes and styles



## HOPPER FEED BOX

- Heavy-duty hopper mounted above the shaker screen made of USA Grade 80 steel  
 Features a large direct target feed opening of 9'-0" x 10'-8" (2.7m x 3.3m) and a low feed height of 10'-10" (3.3m)
- Hopper sides hydraulically fold down for transport
- Sections of the hopper hydraulically fold down for crusher feed and re-circulation



### CONVEYORS

- **All discharge conveyors are manufactured from Grade 80 channel formed steel**  
High strength design creates durable straight frames for maintenance free, center tracked conveyor belts
- **All discharge conveyors feature 36" (914mm) wide belts with hydraulically adjustable belt speeds**  
Oversize, larger midsize and smaller midsize conveyors feature variable speed controls
- **Oversize discharge conveyor can be hydraulically re-positioned for multiple needs**  
Oversize material conveyor discharges to the side, so that all finished products are equally spaced without co-mingling  
Side discharge allows recirculation to a crusher
- **All discharge conveyors feature multiple adjustable angle and height positions**
- **All conveyors feature lagged head pulley and wing type tail pulley**



- **Oversize and Oversize/Midsize stackers feature heavy-duty cleated conveyor belts**
- **Fines and Fines/Midsize stackers feature heavy-duty smooth surface conveyor belts**  
All smooth conveyor belts feature spring tensioned belt wipe cleaners
- **Guide rollers are used on all four corners of each conveyor belt**  
The use of guide idlers helps belt tracking, reducing spillage, damage and downtime
- **Transition chutes made of USA Grade 80 steel**
- **Precision® 5" (127mm) diameter sealed for life idlers**
- **Precision® rubber disc return idlers (great for sticky materials)**
- **All discharge conveyors hydraulically fold for quick and easy transport**



## POWER SYSTEMS & CONTROLS

- **622TH is powered by a Caterpillar® C4.4TA 140 HP@2200 RPM (104.4 kw) diesel engine**
- **Heavy-duty lockable fuel tank with 100 gallon (379 liters) capacity**  
 The 622TH gets approximately 14 consecutive hours of use without refueling
- **Large 150 gallon (568 liters) hydraulic oil tank is baffled and lockable**
- **Oilair® hydraulic oil cooler**  
 From large hose diameters and fittings to baffled oil tanks with coolers, our hydraulic system runs cool so your productivity can run hot!
- **Four emergency stops plus additional engine stop on the wireless control handset**
- **Lockable control panels**
- **Large engine compartment for ease of maintenance**
- **Independent hydraulics**
- **Wireless remote control with 300 foot (91m) range**  
 Wireless remote means never having to leave the safety of the loader cab to reposition or resume material processing



## UNDERCARRIAGE

- **The Spyder 622TH utilizes a heavy-duty tracked undercarriage**  
 Ensuring long term reliability, world-wide parts availability and product support
- **Track operation is controlled from a safe distance**  
 Wireless remote control handset used for movement and operation  
 Low speed for maneuvering and high speed for long distance travel
- **24" (600 mm) wide pads create low ground pressure**



## STRUCTURE

- **USA Grade 80 steel construction**  
 All structural supports, hopper walls, shaker screen, and other wear surfaces are manufactured from high strength Grade 80 steel generating a yield strength of 80,000 psi. That's more than two times the 36,000 psi yield strength of A36 mild steel commonly used in most other portable screening plants. This single feature alone could double your machine's structural life span
- **Massive unibody structure features unrivaled deep frame design**  
 Massive unibody frame made from Grade 80 steel handles the uneven loading during operation without the need for outriggers or landing gear supports
- **Elevated frame design allows for rapid deployment and set-up**  
 9" (228mm) ground clearance uniquely reduces the need for site preparation prior to movement



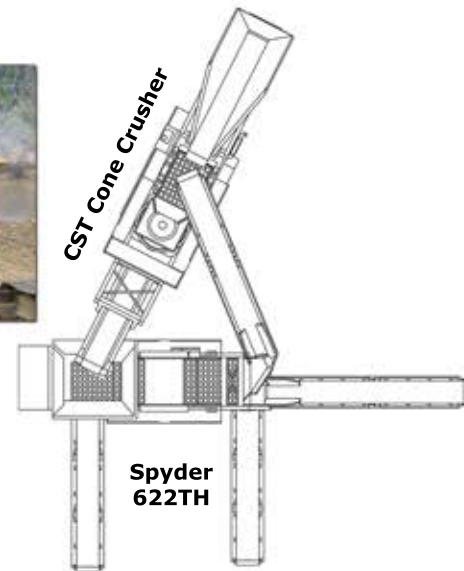
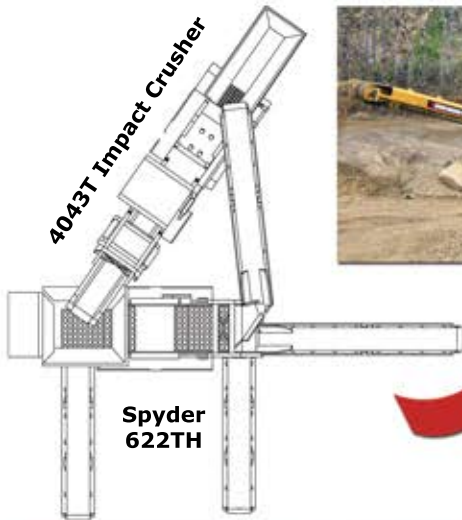
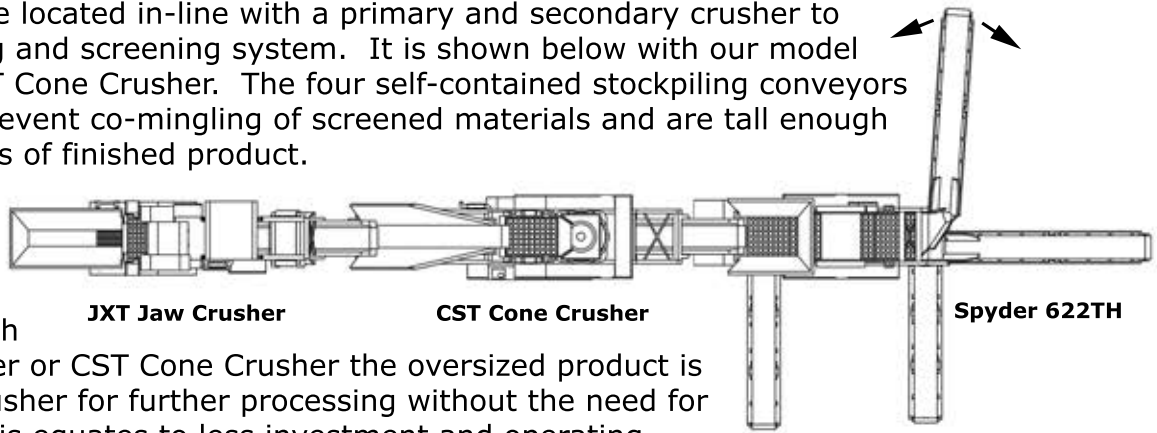
## PRODUCT SUPPORT

- **Factory headquarters located near Columbus, Ohio USA**
- **Lifetime telephone/Skype engineering support at no charge**
- **Rapid response parts availability (over 90% of parts ship same day as ordered)**
- **Name brand parts, internationally recognized AND easily sourced**
- **Extensive distributor network with multiple parts locations**
- **Detailed operational, service and parts manuals**

### COMPLETE SYSTEM

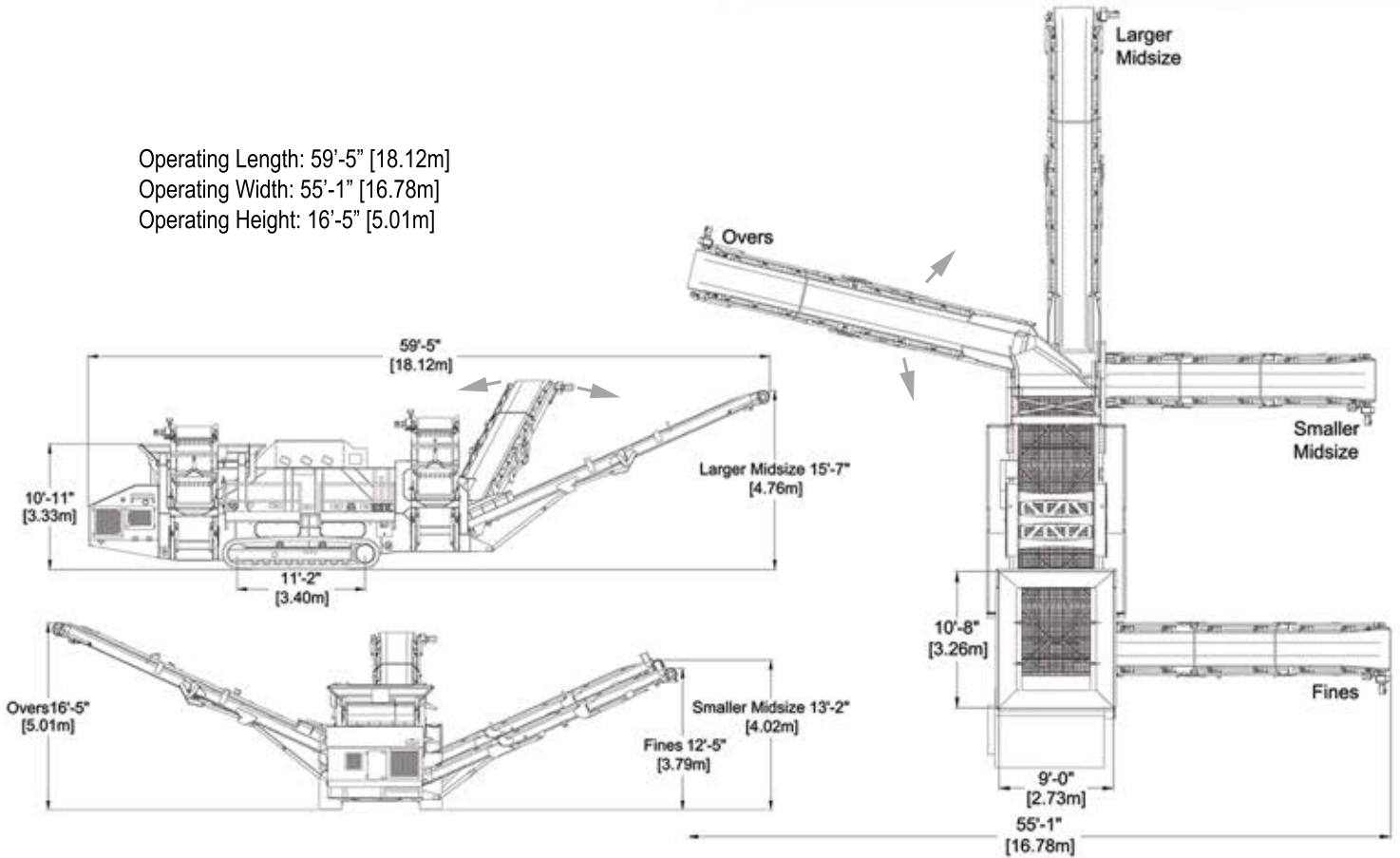
The Spyder 622TH can be located in-line with a primary and secondary crusher to form a complete crushing and screening system. It is shown below with our model JXT Jaw Crusher and CST Cone Crusher. The four self-contained stockpiling conveyors are logically spaced to prevent co-mingling of screened materials and are tall enough to stockpile huge volumes of finished product.

If a closed-circuit system is needed the Spyder 622TH is your answer. When paired with our 4043T Impact Crusher or CST Cone Crusher the oversized product is easily returned to the crusher for further processing without the need for additional conveyors. This equates to less investment and operating expenses, and a smaller overall plant footprint. Screen Machine Industries' outstanding design philosophy allows our heavy-duty American manufactured equipment to be utilized in a variety of configurations.

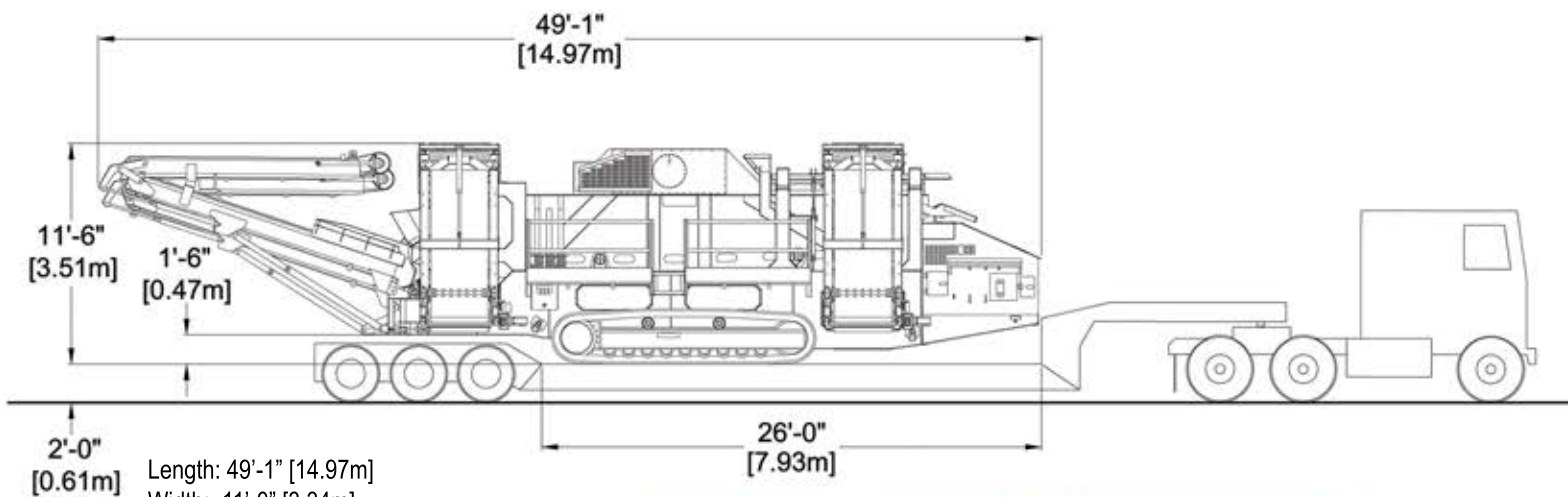


### OPERATING DIMENSIONS

Operating Length: 59'-5" [18.12m]  
 Operating Width: 55'-1" [16.78m]  
 Operating Height: 16'-5" [5.01m]



### TRAVEL DIMENSIONS



Length: 49'-1" [14.97m]  
 Width: 11'-0" [3.34m]  
 Height (Machine): 11'-6" [3.51m]  
 Height (Machine on Trailer): 13'-6" [4.11m]  
 Trailer Deck Height: 24" [0.61m]  
 Weight: (Est.) 84,000 lbs [38,101 Kg]



# SCREEN MACHINE INDUSTRIES™

AN AMERICAN MANUFACTURER OF PORTABLE CRUSHING AND SCREENING EQUIPMENT

Screen Machine Industries LLC 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 LLC  
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 LLC 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, Cone 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.



CST CONE CRUSHER



JXT JAW CRUSHER



4043T IMPACT CRUSHER



6036T TRACK CONVEYOR

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