

SCREEN MACHINE INDUSTRIES, INC.

AN AMERICAN MANUFACTURER OF PORTABLE CRUSHING AND SCREENING EQUIPMENT

COMPLETE PRODUCT LINE



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THE COMPANY

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 ranging from 15 – 600 tons (14 mtph - 544 mtph) per hour across a vast array of applications such as (rock, 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 superior to any in the world. We also strive to add the best design engineers to our organization. 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, Spydres, Scalpers, Trommels and Conventional Screening and Shredding Plants. Portable Stacking Conveyors complete the product line with sizes available to fit most every job.



OVERVIEW

The 4043T Impact Crusher and 5256T Impact Crusher are heavy-duty, track-mounted horizontal impact crushing plants that effectively crush rock, concrete and asphalt materials. The 4043T and the larger 5256T feature a unique crusher relief system that effectively allows the user the ability to crush marginally oversized materials that would normally stop other machines in their size classes. This patented method is accomplished by hydraulically lifting the entire crusher lid via hand-held remote control to allow oversized or stacked material to flow into and through the crusher chamber without any stoppage time. The Crusher Relief System drastically reduces the typical down-time experienced in crusher plants. This feature, combined with only the best named brand components and a massive structural build, make the 4043T and 5256T easy choices to satisfy your crushing needs.

	4043T		5256T	
WEIGHT	79,500 lbs.	36,060 kgs	119,000 lbs.	54,090 kgs
ENGINE POWER	300 HP	225 kw	475 HP	375 kw
ENGINE TYPE	Caterpillar® C-9 ACERT		Caterpillar® C-15 ACERT	
PRODUCTION RANGE*	Up to 350 tph	Up to 320 mtph	Up to 600 tph	Up to 545 mtph
LENGTH	47'-7"	14.5m	59'-6"	18.14m
WIDTH	9'-10"	3.0m	11'-2"	3.4m
HEIGHT	11'-6"	3.5m	11'-6"	3.5m

*Production range depends on application



4043T Impact Crusher



5256T Impact Crusher



The Spyder 516T screening plant works in perfect tandem with the 4043T or 5256T



The 4043T and 5256T are easy to transport and ready to operate in minutes

KEY FEATURES

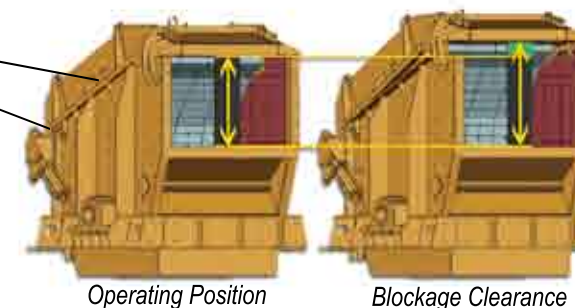
- Patented *Crusher Relief System*
- Caterpillar® engines
- Caterpillar® tracks
- Transfluid® fluid coupling
- Remote controlled movement and operation - *never leave the loader cab for repositioning*
- 4 bar rotor design
- Multi-stage crushing
- USA sourced grade 80 steel construction
- Cross-belt magnets with stainless steel chutes and cladding

CRUSHER RELIEF SYSTEM

The entire crusher lid with attached aprons can raise during operation.

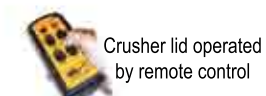


Two hydraulic cylinders raise the crusher lid 6" (150mm) relative to the rotor.



Operating Position

Blockage Clearance



Crusher lid operated by remote control

Multiple safety features including sensors, mechanical stops and material guards guarantee safe operation.

JXT & JHT JAW CRUSHER

OVERVIEW

Operated by wireless remote control, the JXT & JHT can process the hardest and most difficult materials while greatly reducing the common risk of stoppages, damages and high maintenance associated with most other jaw crushers. The combination of reliable brand name components with a massive structural build make both the JXT and the JHT a profitable long-term investment.

WEIGHT	98,000 lbs.	44,450 kgs
ENGINE POWER	300 HP	225 kw
ENGINE TYPE	Caterpillar® C-9 ACERT	
PRODUCTION RANGE*	Up to 450 tph	Up to 410 mtpd
LENGTH	48'-6"	14.79m
WIDTH	9'-10"	3.00m
HEIGHT	11'-6"	3.50m

*Production range depends on application

KEY FEATURES

- Heavy-duty primary Jaw Crusher
- True 26" (66cm) x 44.5" (1.13m) wide opening
- Automatic blockage clearance and tramp iron relief (JXT)
- Remote control hydraulic jaw adjustment (JXT & JHT)
- Reversible and interchangeable jaw dies
- 42" (107 cm) Wide 440 PIW main belt
- Caterpillar® engine
- Transfluid® fluid coupling
- Wireless remote controlled movement and operation
- USA sourced Grade 80 steel construction
- Cross-belt magnets with stainless steel cladding and chutes
- Standard fines side conveyor with material deflector for optional fines removal



HYDRAULIC RELEASE SYSTEM

- Blockage clearance (JXT)
 - Screen Machine Industries, Inc. exclusively designed control system
 - Jaw can be opened with the remote control to clear a blockage
- Tramp iron relief (JXT)
 - Protects the jaw when an uncrushable object enters the jaw chamber
 - Jaw automatically returns to previously set limit after the tramp iron has cleared
 - True "adjust on the fly" capability via hydraulic adjustment during operation
- Jaw adjustment (JXT & JHT)
 - Hydraulics allow the jaw to be adjusted quickly and easily by the wireless remote control or the control panel and can be operational within minutes



Blockage Clearance (JXT)



Tramp Iron Relief (JXT)

Visit www.ScreenMachine.com to view video animation

SPYDER 516T & 512T

OVERVIEW

The Spyder 516T and 512T are patented track-mounted screening plants designed to screen rock, ores, soils, sand & gravel and construction & demolition materials producing three different sizes of finished products simultaneously. These heavy-duty machines feature standard heavy-duty engines, tracked undercarriages, Grade 80 steel construction, brand name components and wireless remote control movement and operation. Both the 516T and 512T Spyder plants feature the unique patented design that allows the feeding of material from three sides with a loader or excavator to accommodate any job site application.

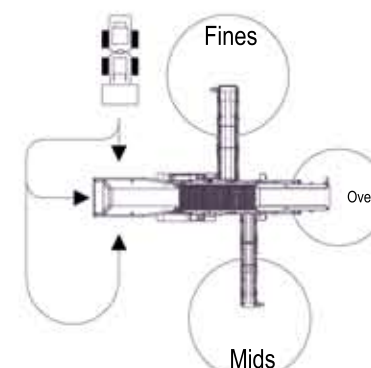
FEATURE	SPYDER 516T		SPYDER 512T	
WEIGHT	59,000 lbs	27,000 kgs	52,000 lbs	23,600 kgs
ENGINE POWER	110 HP	82.5 kw	84 HP	58.83 kw
TOP DECK SCREEN	5' x 16'	1.5m x 4.9m	5' x 12'	1.5m x 3.7m
BOTTOM DECK SCREEN	5' x 14'	1.5m x 4.3m	5' x 12'	1.5m x 3.7m
PRODUCTION RANGE*	Up to 600 TPH	Up to 545 mtpd	Up to 400 TPH	Up to 365 mtpd
LENGTH	46'-10"	14.27m	44'-8"	13.61m
WIDTH	9'-6"	2.9m	9'-6"	2.9m
HEIGHT	11'-6"	3.5m	11'-6"	3.5m

*Production range depends on application

KEY FEATURES

- Patented three side-loading design
- Patented Smooth Start® technology
- Adjustable screen angle
- High output shaker screen design
- Heavy-duty unibody frame chassis with USA sourced Grade 80 steel construction
- Full wireless remote control allows for quick repositioning and resumption of material processing
- Apron feeder option available for 516T

UNIQUE PATENTED DESIGNS



The Spyder 516T can be loaded from three sides
U.S. Patent # 6,698,594

Smooth Start® technology eliminates the risk of machinery damage caused by slow speed, violent shaking during warm up or cool down periods.

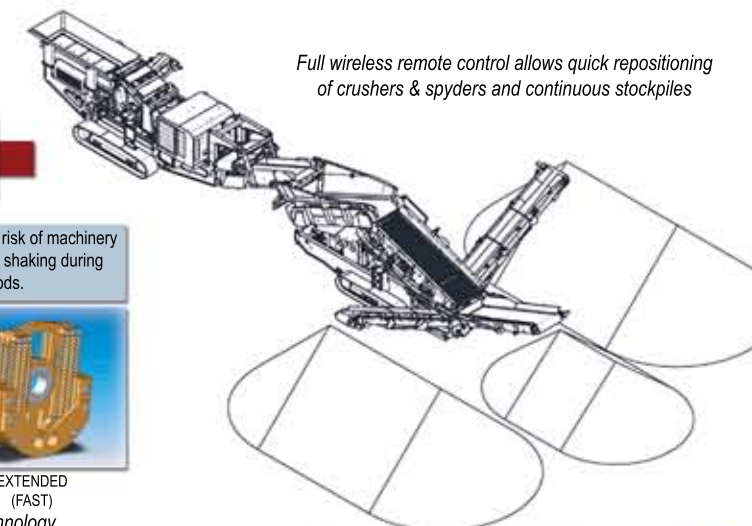


RETRACTED (SLOW) EXTENDED (FAST)

Patented Smooth Start® Technology
U.S. Patent # 6,669,026

At slow speeds, shaker weight is retracted, creating no shake. As shaft spins up to operating speed, weight extends, creating shake necessary to screen material. This process works in reverse during shutdown.

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Full wireless remote control allows quick repositioning of crushers & spyders and continuous stockpiles



SCALPERS

SCALPER 107T

The Scalper 107T® is a patented, heavy-duty, track-mounted screening plant designed to screen rock, soils, sand, gravel, coal, concrete and more. It works best when paired with a 3 to 5 yard (2.7m to 4.5m) front end loader. A unique wide feed opening over dual 7'-0" (2.1m) shaker screens, Yanmar® diesel engine, heavy-duty tracked undercarriage and wireless remote control movement & operation are standard with the Scalper 107T.

- Heavy-duty tracked undercarriage
- Remote control movement & operation
- Dual 7' (2.1m) long shaker screens
- Smooth Start® technology
- Center support screen guard
- Variable hydraulic screen angle
- 13'-9" (4.2m) wide feed opening
- 84 HP (62kw) Yanmar® diesel engine
- Grade 80 plate construction
- U.S. Patent # 6,669,026 & U.S. Patent # 6,000,553



Scalper 107T in transport mode



	SCALPER 107T		SCALPER 107D		SCALPER 77C	
WEIGHT	44,980 lbs.	20,403 kgs	24,000 lbs.	10,890 kgs	20,000 lbs.	9,070 kgs
ENGINE POWER	84 HP	62 kw	48 HP	36 kw	48 HP	36 kw
LOADER SIZE	3 - 5 cu yd	2.5 - 4 cu yd	3 - 5 cu yd	2.5 - 4 cu m	1 - 2.5 cu yd	1 - 2 cu m
LENGTH (transport)	39'-0"	11.61m	29'-8"	9.04m	29'-1"	8.86m
WIDTH (transport)	8'-5"	2.56m	8'-0"	2.44m	7'-8"	2.34m
HEIGHT (transport)	11'-0"	3.35m	12'-2"	3.71m	10'-8"	3.25m

SCALPER 107D

The Scalper 107D is a patented, heavy-duty screening plant that is perfect for two product separation. Ideal applications include sand & gravel, rock, concrete and removing vegetation, rock and scrap metals from soils. This tough machine is built with Grade 80 steel plate and a heavy-duty reinforced tubular structure. The hydraulic landing gear and hydraulic axle raise and lower make the Scalper 107D operational in minutes. The Scalper 107D is a unique dual-screen processing plant featuring dual 5' x 7' (1.5m x 2.1m) double deck screens with a protective center support that matches up to a 3 to 5 yard (2.7m to 4.5m) front end loader.

- Dual 7' (2.1m) long 2 bearing shaker screens
- Patented Smooth Start® technology
- 11" (27.9cm) clearance between decks
- Center support screen guard
- Fuel-efficient 48 HP (35.7kw) Yanmar® diesel engine
- 15'-3" (4.6m) Wide feed opening
- 10'-11" (3.3m) Low feed height
- Grade 80 steel construction
- U.S. Patents #6,000,553 and #6,401,933



SCALPER 77C

The Scalper 77C is a patented, heavy-duty screening plant capable of screening soils, aggregates and more. It works best when paired with a 2 yard front end loader. A large feed opening directing material on the 7' (2.1m) long shaker screen is standard equipment in this easy-to-use and easy-to-own Scalper 77C.

- 7' x 7' (2.1m x 2.1m) double deck two bearing screen
- Patented Smooth Start® technology
- 48 HP (35.7 kw) Yanmar® diesel engine
- Wide feed opening with low feed height
- Material stockpiling height of 11'-5" (3.5m)
- Grade 80 steel construction
- U.S. Patent # 6,401,933



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TROMMELS

612T TROMMEL

The 612T Trommel is a self-contained, diesel powered, track-mounted portable screening plant designed to separate topsoil, compost and green waste type products. It features wireless remote control movement and operation and a direct open feed hopper with a large 6' x 12' (1.8m x 3.6m) trommel drum creating 160 (14.89m) square feet of screening area. The pile height generated by the side discharge conveyor combined with the tracked undercarriage creates tremendous windrow stockpiling capabilities.

- 84 HP (62.6 kw) Yanmar® Tier III diesel engine
- Wireless remote control movement
- 6' x 12' (1.8m x 3.6m) heavy-duty trommel screen
- Four wheel/twin motor driven trommel drum
- Unique rapid change screen cloth system
- Side discharge conveyor height 12'-9" (3.9m)
- Low 9'-2" (2.8m) hopper feed height
- Variable speed feeder belt
- Heavy-duty unibody steel frame design
- Tipping grizzly or vibrating grizzly option



	612T TROMMEL		612W TROMMEL		MIGHT II	
WEIGHT	28,000 lbs.	12,700 kgs	22,500 lbs.	10,200 kgs	4,500 lbs.	2,050 kgs
ENGINE POWER	84 HP	63 kw	84 HP	63 kw	26 HP	19.5 kw
LOADER SIZE	1 - 3 cu yd	1 - 2.5 cu yd	1 - 3 cu yd	1 - 2.5 cu m	Up to 1 cu yd	Up to 1 cu m
LENGTH (transport)	23'-6"	7.17 cu m	23'-8"	7.22m	24'-5"	7.44m
WIDTH (transport)	8'-2"	2.49m	8'-6"	2.59m	6'-0"	1.83m
HEIGHT (transport)	11'-6"	3.5m	12'-6"	3.82m	9'-8"	2.95m

612W TROMMEL

The 612W Trommel is a self-contained, diesel-powered, wheeled portable screening plant designed to separate topsoil, compost and green waste type products. It features a direct open feed hopper with a large 6' x 12' (1.8m x 3.6m) trommel drum creating 160 (14.89m) square feet of screening area. The pile heights created by the side discharge conveyor and oversize conveyor will give the operator hours of uninterrupted processing time.

- 84 HP (62.6 kw) Yanmar® diesel engine
- 6' x 12' (1.8m x 3.6m) heavy-duty trommel screen
- Four wheel/twin motor driven trommel drum
- Unique rapid change screen cloth system
- Side discharge conveyor height 13'-11" (4.2m)
- Low 10'-4" (3.1m) hopper feed height
- Variable speed feeder belt
- Heavy-duty unibody steel frame design
- Tipping grizzly or vibrating grizzly option



MIGHT II

The Might II Shredder/Trommel is a towable screening plant ideally matched to skid steers for processing topsoil, compost and more. The Might II is well-equipped with a diesel engine, high speed hammermill shredder to pulverize clumps of topsoil and a trommel screen to remove sticks, rocks, etc.

- 26 HP (19.3 kw) Yanmar® diesel engine
- 3' x 4' (.9m x 1.2m) trommel screen
- 1 (.76m) cubic yard hopper
- Screen cleaning brush
- Variable speed feeder belt
- Complete tipping grizzly section
- High speed hammermill shredder
- Extra HP to drive an additional conveyor
- Towable with pickup truck



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CONVENTIONAL SCREENING PLANTS

DEVELOPER SCREENING PLANT



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' (24.4m) and two 40' (12.2m) radial stacking conveyors processing four sizes of washed aggregates

The Developer and Producer portable screening plants are designed for separating multiple sizes of aggregates. They feature large two or three deck four bearing shaker screens. An optional shredder can be added to process topsoil or clay products. These heavy-duty screening plants are equipped with enough horsepower and hydraulics to drive multiple stacking conveyors.

PRODUCER SCREENING PLANT



Producer with 4"x8" (1.2m x 2.4m) double deck wash arrangement with 36" (.91m) screw and two 40' (12.2m) stacking conveyors

FEATURE	DEVELOPER		PRODUCER	
ENGINE POWER	110 HP	82.5 kw	84 HP	62.6 kw
ENGINE TYPE	Cummins® QSB 4.5		Yanmar®	
SCREEN SIZE	5'x12'/5'x10'	1.5m x 3.7m	4'x8'	1.2m x 2.4m
LENGTH (TRANSPORT)	64'-6"	19.66m	53'-0"	16.15m
WIDTH (TRANSPORT)	8'-6"	2.59m	8'-6"	2.59m
HEIGHT (TRANSPORT)	13'-4"	4.06m	13'-0"	3.96m
WEIGHT	39,000 lbs.	17,690kgs.	23,000 lbs.	10,435 kgs

PORTABLE STACKING CONVEYORS



80'-0 (24.4m) RADIAL TRUSS CONVEYOR

- Radial undercarriage
- Belt width 30" (7m) or 36" (.9m)
- Heavy duty deep truss
- Side fold or top fold available
- Counterweighted for extra stockpiling
- Electric or Hydraulic Drives
- Optional 48 HP (36kw) Diesel Module



60'-0 (18.3m) RADIAL TRUSS CONVEYOR

- Radial undercarriage
- Belt width 36" (.9m)
- Heavy-duty deep truss
- 400' (122m) per minute belt speed
- Electric or Hydraulic Drives
- Optional 48 HP (36kw) Diesel Module



60'-0 (18.3m) TRACK MOUNTED CHANNEL CONVEYOR

- Belt width 36" (.9m)
- 48 HP (36kw) Diesel Powered
- Hydraulic top fold for transport
- Wireless remote controlled
- High strength steel construction
- Hydraulic drives
- Counterweighted for extra stockpiling
- Fits in shipping containers



RADIAL CHANNEL FRAME CONVEYORS

- Radial undercarriage
- Available in 30', 40' & 50'
- (9.14m, 12.19m, 15.24m)
- Belt widths available: 18", 24", 30" & 36"
- (.46m, .61m, .76m, .91m)
- Heavy-duty channel frame
- Hydraulic or electric drives
- Pintle tow

