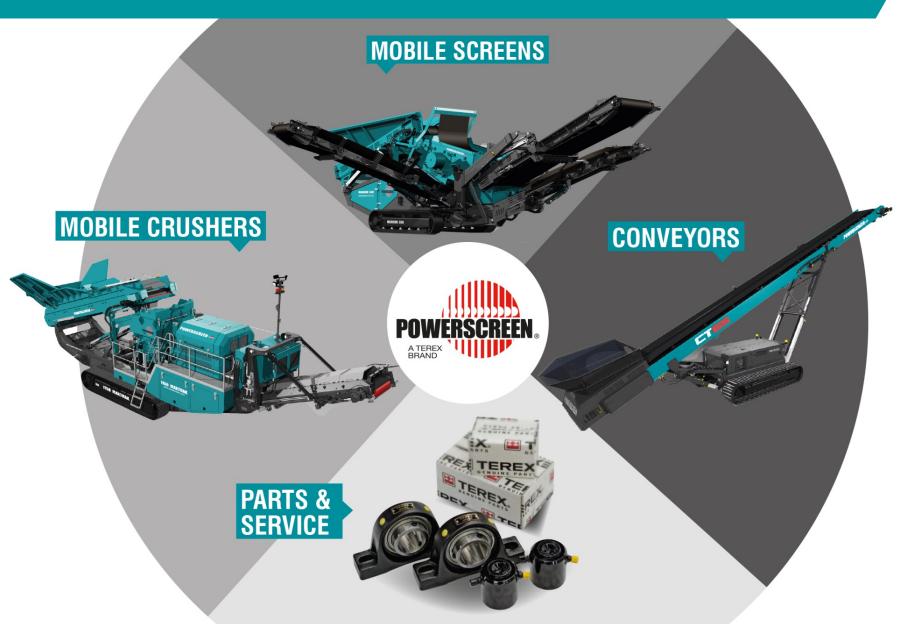


POWERSCREEN PORTFOLIO

- 50 years in the industry.
- Founded in Ireland, American owned
- World leader in mobile crushing and screening equipment.



The Screening Market

Types of Screening Plant

Screens – Trommels – Static - Mobile





Trommel



Mobile



Vibration

Rotation



Static



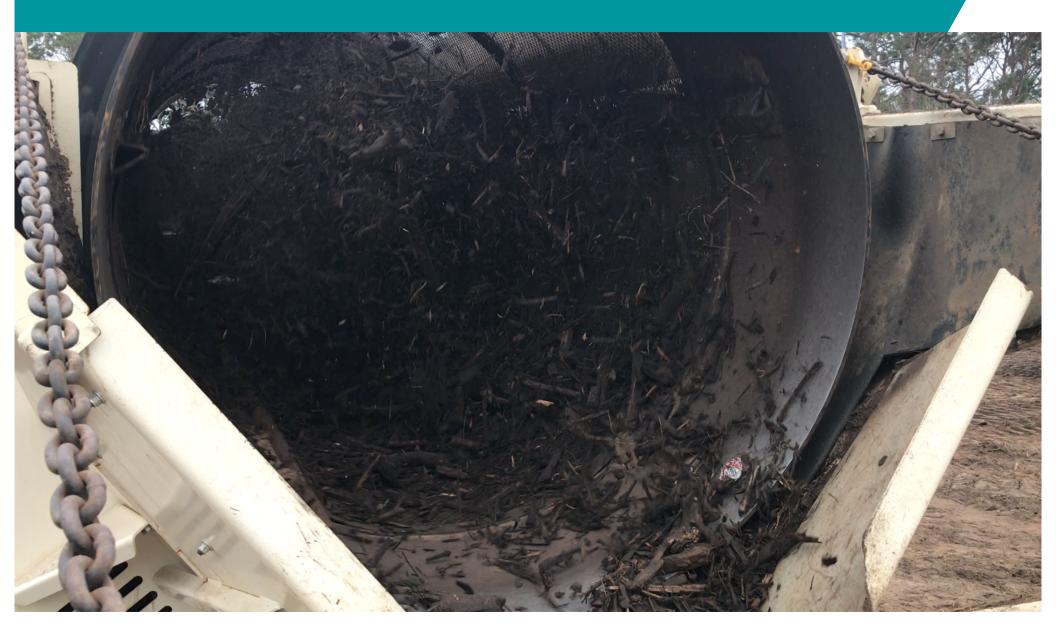
Mobile Screening Plants

Brought in > Offloaded > Setup > Adapted > Packed Up > Moved



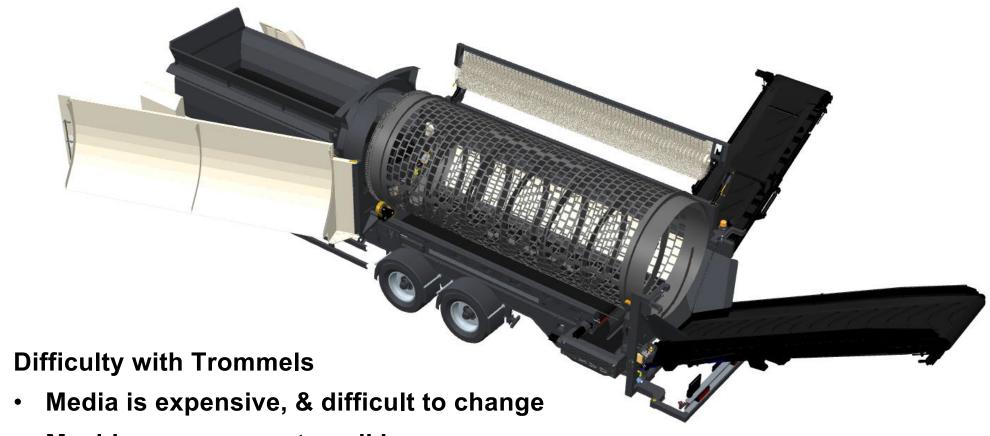
Quick setup time. Move between job sites. Adaptable for other uses.

Trommels in Soil & Mulch



Turn material over. Rotational Separation.

Trommels Difficulties



- Machines are prone to spiking
- Limited force to break apart difficult/sticky materials
- Limited versatility for other applications, only two product separation

Sizing & Separation

To create the best product, you must understand and control the factors that affect performance.

Material factors

Product Material Spec

Feed Material Moisture Content

Shape of Feed Material

Age of the Material

Max size of Feed Pieces

Physical Material Attributes

(hardness, density etc.)

Determined by the feed material and the product you are making.

Machine factors

Screen Size & Media

Feed Angle

Feed Rate

Feed Spread

Acceleration

Percentage of Screen Area Open

Screen Tension

Corrosion and Wear

Plant Layout

Determined by the equipment and how it is deployed.

The problems of low acceleration

Blinding

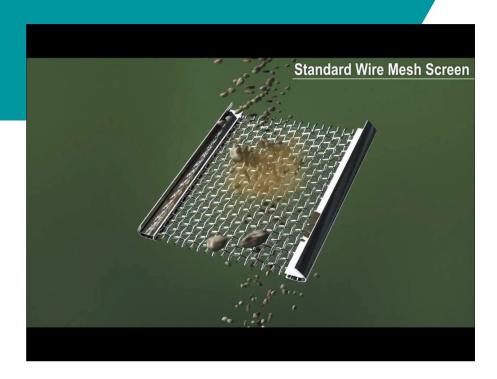
- Damp/sticky material binds to the mesh.
- The total screen area is reduced

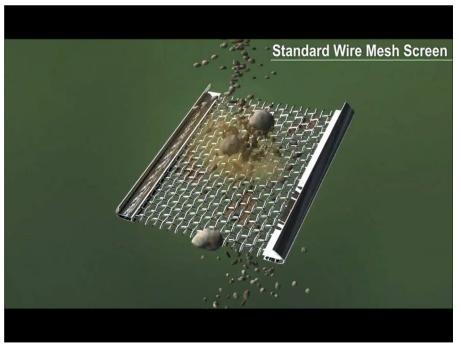
Pegging

- Pieces become stuck in the mesh.
- Pieces become difficult to dislodge.

Material Stickiness

 Low acceleration fails to separate damp or sticky materials. E.g. Compost or Mulch.





Increasing Acceleration

Flip Flow Technology – 30G Acceleration – Greater Separation



Increasing Acceleration

Flip Flow Technology

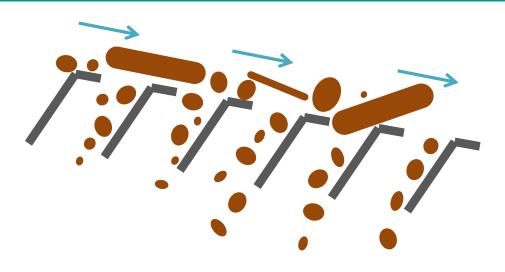


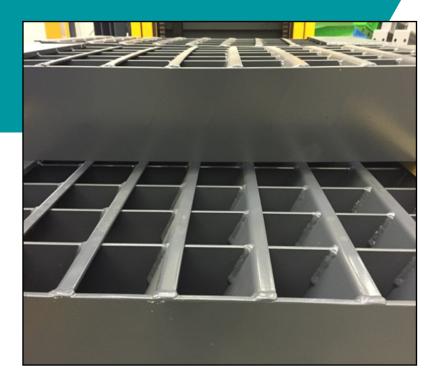
Increasing Acceleration

Flip Flow Technology

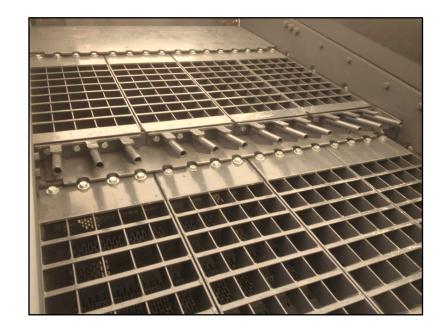


Screen Media: 3D Punchplate









Screen Media: Ball Decks

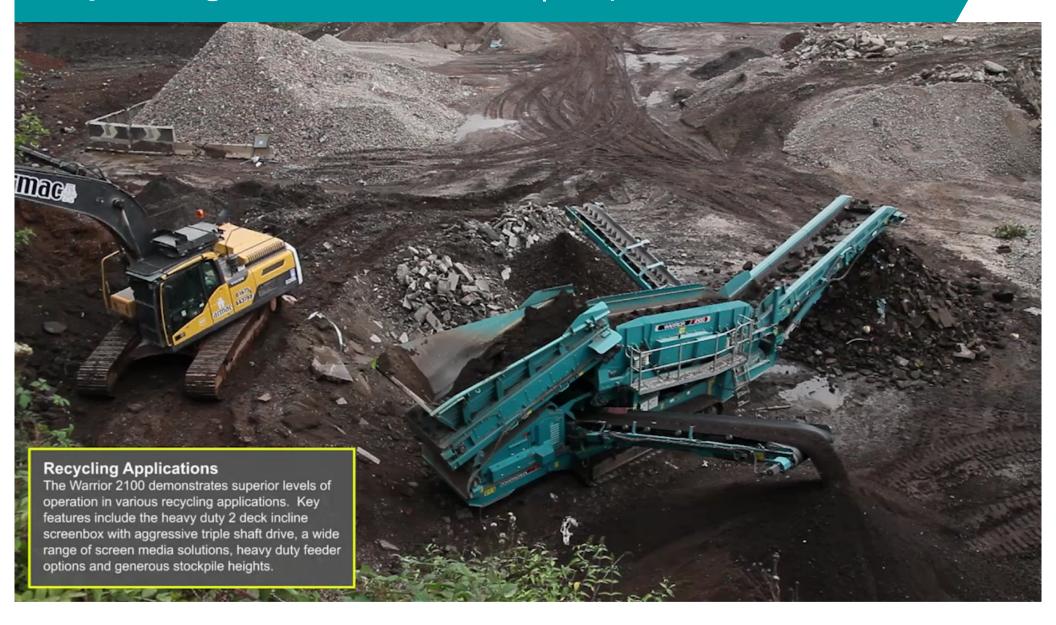


Screen Media: Flex Mats

Increasing Vibration Frequency
Screen stays clean for longer

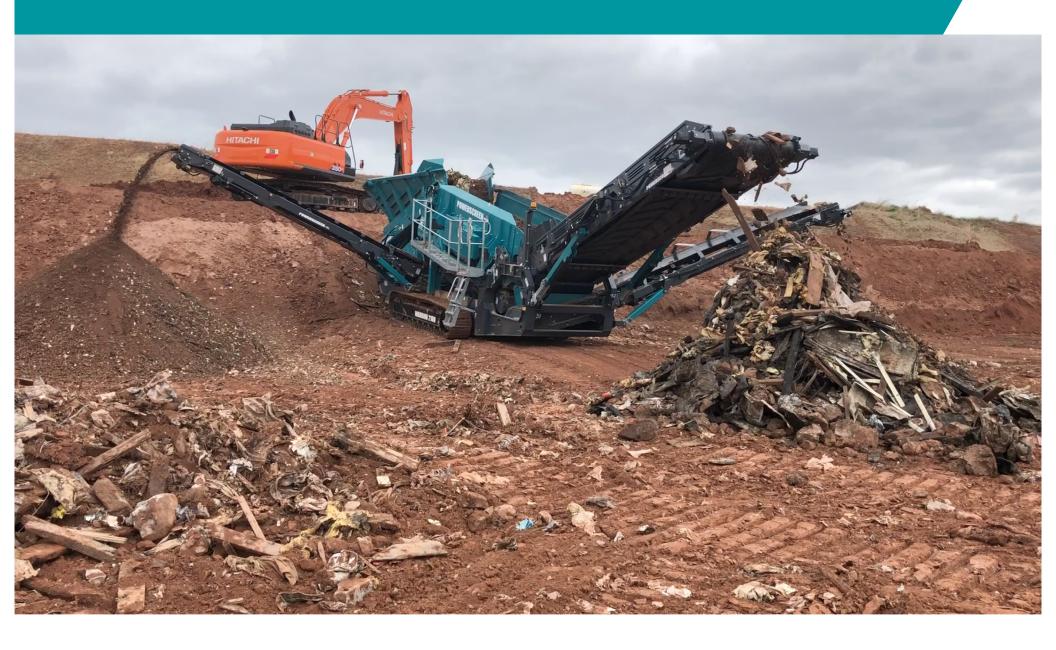
New Screenbox Design

Separating Difficult Materials | Triple Shaft Screen



Higher acceleration. Higher aggression. Better Separation.

Top Soil Application



Top Soil Application



Twin Screenboxes



Twin Screenboxes



www.powerscreen.com/pulse



"Today I consumed \$300 offuel"

"This week I processed 18,000 tonnes"



"I will need replacement wear parts next month"



OUR MACHINES CANTALK

- Operating data
- Production tonnages
- Machine status

- GPS location
- Fuel consumption
- Wear parts usage

How does it work?



Machine

Engine

Clutch

Machine



Communication

2 modes:

Cellular

Satellite



Portal

Access via laptop,

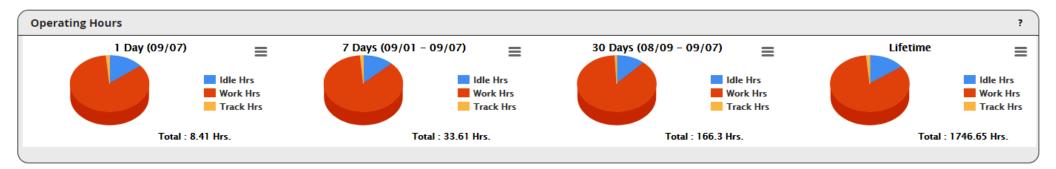
Tablet or Smartphone

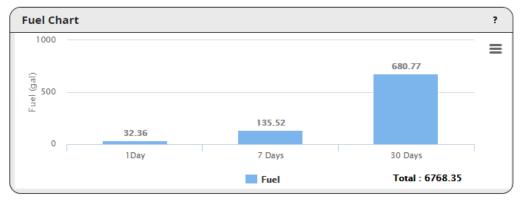
Real time communication between machine and user.

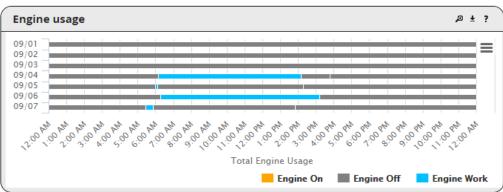


Measuring Efficiencies

Check when a machine is working vs idle. Deploy elsewhere.

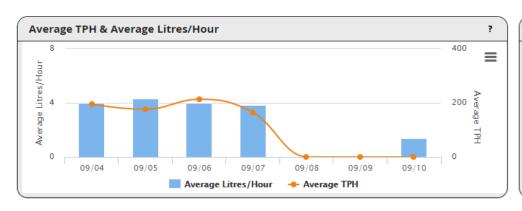


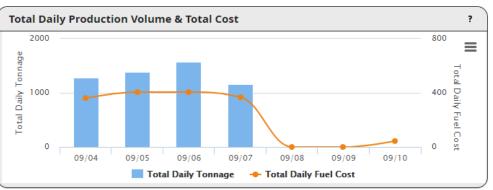




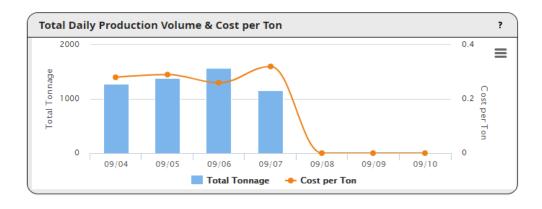
Increasing Production

Try different settings, and compare outputs.









Find the 'sweet spot' of high tonnage and low fuel consumption.

Service Coverage

Track usage for service intervals, monitor fault codes remotely.

	Α	III Alarm Source ▼	All Priority	▼	■ Request Alarms From U	Jnit 🖪 Notificat	ion 🗣 Print Report	■ Export to Excel			
Alarm Details											
SOURCE	ALARM CODE	DESCRIPTION		FMI CODE ACTIV		ACTIVE DATE	LOCATION	PRIORITY			
Engine	1761	Aftertreatment 1 Diesel Exhaust Fluid Tank Level			alid but Below Normal e: Least Severe Level	08/13/2018 09:59:26 AM	0.95mi WSW of Jessup, MD	High			

Sensor History											
READ DATE	ADD BLUE LEVEL (UREA LEVEL)	AUTO START COUNT	AUTO STOP COUNT	BATTERY VOLTAGE	CONVEYOR 1 HOURS	CONVEYOR 1 START COUNT	CONVEYOR 2 HOURS	CONVEYOR 2 START COUNT	COOLANT TEMP	ENGINE HOURS	
09/01/2018	101.60	0.00	0.00	8.10	6.14	1.00	0.00	0.00	99.00	6.80	
08/31/2018	101.60	0.00	0.00	8.10	7.93	2.00	0.00	0.00	100.00	9.70	
08/30/2018	101.60	0.00	0.00	8.11	4.17	2.00	0.00	0.00	104.00	5.25	
08/29/2018	101.60	0.00	0.00	8.10	8.70	1.00	0.00	0.00	103.00	9.30	
08/28/2018	101.60	0.00	0.00	8.10	7.37	3.00	0.00	0.00	102.00	8.85	
08/27/2018				8.09							
08/26/2018	101.60	0.00	0.00	8.10	4.73	1.00	0.00	0.00	94.00	4.95	
08/25/2018	101.60	0.00	0.00	8.10	5.29	1.00	0.00	0.00	97.00	5.45	
08/24/2018	101.60	0.00	0.00	8.11	3.93	1.00	0.00	0.00	93.00	4.20	
08/23/2018	101.60	0.00	0.00	8.10	4.40	1.00	0.00	0.00	91.00	4.70	
08/22/2018	101.60	0.00	0.00	8.10	7.89	1.00	0.00	0.00	97.00	8.35	
08/21/2018	101.60	0.00	0.00	8.10	3.05	3.00	0.00	0.00	92.00	3.35	

Thank you for your time.

lan Williamson
Vice President
Powerscreen Mid-Atlantic
Distributor

Owen Smyth
Territory Manager
Powerscreen USA

Manufacturer

powerscreenmidatl.com

powerscreen.com

