



# EMERALD

EQUIPMENT SYSTEMS INC.



CRUSHING ■ SCREENING ■ MATERIAL HANDLING ■ WASHING ■ WATER TREATMENT ■ ORGANICS

# PORTABLE & MODULAR CRUSHING & SCREENING PLANT

## PORTABLE IMPACTORS

Wheel, closed circuit Impactor range are market leaders with larger rotors and screenboxes, dual reversible cross conveyors and diesel hydraulic/ electric/ hydraulic drive

Impactor Model	Rotor	Screenbox
CRH 1111R	44"	16' x 5'
CRH 1113R	50"	16' x 6'
CRH 1313R	51"	16' x 5'



## PORTABLE CONES



Open Circuit	Cone Head
CRC1150	45"
CRC380x	48"
CRC450x	54"

Closed Circuit	Cone Head	Screenbox
CRC1150s	45"	20' x 6' Hz 3D
CRC380XHLS	48"	20' x 6' Hz 3D



## PORTABLE JAWS



Jaw Model	Feed Opening
CRJ3042	30" x 42"
CRJ3255	32" x 55"
CRJ3750	37" x 50"



## CHAMBER/SCREEN MODULES



### Cone Crushers

Features hydraulic overload\* and adjustment\*. Cone Series options available: TC, MPV & J models



### Jaw Crushers

Feature a hydraulically actuated wedge system allowing quick variable css adjustments. Jaw options: JC, JW & ST models



### Impact Crushers

Vertical and horizontal shaft impactor options with variable rotor options. Available in IP, HSI or VSI models



### Screens

Horizontal or incline options with variable, slope, speed and media options

## SKID MOUNTED



## COMBINATION PLANTS

CRJ 3042 JAW

CRC 380X Cone



CRS620S Screen

# TRACK CRUSHING

Powerscreen are the world leader in mobile crushing and screening technology. Powerscreen's extensive range of mobile crushers includes fully track mounted vertical and horizontal impactors, jaw crushers and cone crushers.

## PREMIERTRAK JAW

Highly efficient drive systems coupled with dynamic jaw profiles makes these an ideal primary crusher.



Model Range	Crusher opening
Metrotrak	36" x 24"
Premiertrak 330	40" x 24"
Premiertrak 400	44" x 28"
Premiertrak 600	47" x 32"
Premiertrak 750	55" x 32"



## MAXTRAK CONE

Suitable for secondary and tertiary crushing applications providing high volumes and excellent reduction ratios.

Model Range	Head size
Maxtrak 1000/SR*	40"
Maxtrak 1150**	45"
Maxtrak 1300	51"
Maxtrak 1400	55"
Maxtrak 1500	60"

\* c/w 11' x 5' 2 deck post screen  
 \*\* optional pre screen

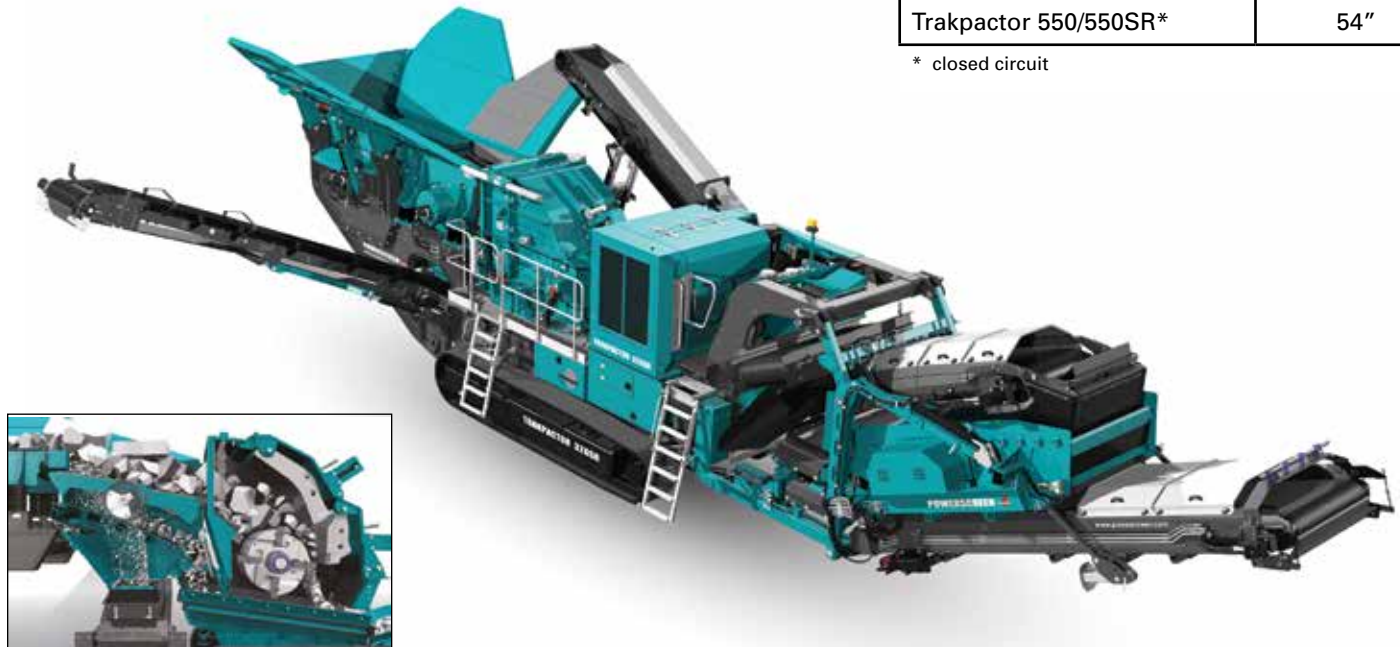




Combinations of crushing plant can be used in multi-stages together with mobile screening units for efficient, cost-effective and high performance aggregate processing applications.

## TRAKPACTOR IMPACTOR

Suitable for primary, secondary or tertiary applications to efficiently crush softer materials at a lower cost per ton.



Model Range	Rotar wdith
Trakpactor 260/260SR*	34"
Trakpactor 320/320SR*	44"
Trakpactor 550/550SR*	54"

\* closed circuit

## VERTICAL SHAFT IMPACTOR

Ideally suited for tertiary crushing, the VSI is a high production unit producing excellent cubic shape.



# TRACK SCREENING

The range can be incorporated into the Powerscreen multi stage crushing trains for optimum performance and enhanced production

## CHIEFTAIN INCLINE

Wheel or track mobile huckbolted incline screens developed for the sand & gravel and quarry industries.

Model Range	Screenbox size
Chieftain 1400	11' x 5'
Chieftain 1700X 2 and 3D	16' x 5'
Chieftain 2100 2 and 3D	20' x 5'
Chieftain Bivitec*	20' x 5'
Chieftain 2200 Double Box 2 and 3D	20' x 5'
*(Bivitec screen technology)	



## HORIZONTAL SCREENS

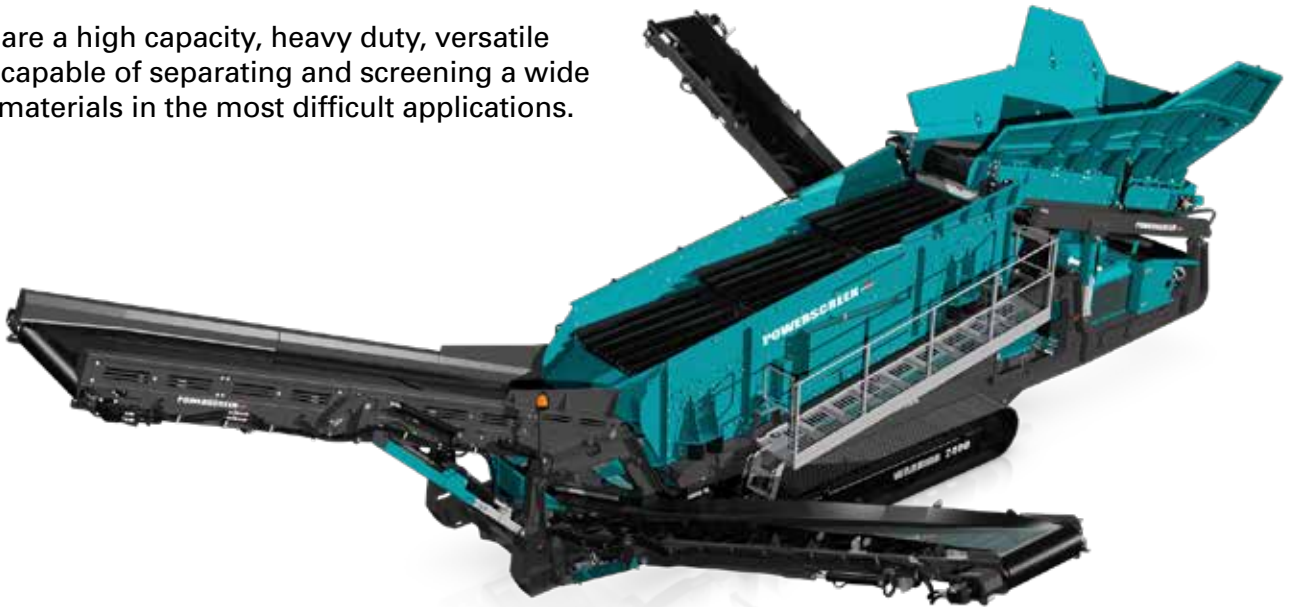
Ideal for handling high volumes of sticky materials and for the exact, fine sizing demanded for producing spec stone.



Model Range	Screenbox Size
H6203	20' x 6'
H6203R	20' x 6' c/w recirc conveyor

## WARRIOR SCALPERS

Warriors are a high capacity, heavy duty, versatile machine capable of separating and screening a wide range of materials in the most difficult applications.



Single Shaft	
Warrior 600	8' x 4'
Warrior 800	9' x 4'
Warrior 1200	12' x 4'
Warrior 1400X	12' x 5'
Warrior 1800	16' x 5'
Warrior 2100 Spalek	16' x 5'

Triple Shaft Technology:	
(higher throw, output and heavier machine)	
Warrior 2100	16' x 5'
Warrior 2400	20' x 6'

## POWERTRAK SCALPER

Geared towards heavy duty scalping in applications such as blasted rock, overburden and Construction & Demolition waste.

Model Range	Screenbox size
Powertrak 750	11' x 9'





# WHEEL PORTABLE ELECTRIC PLANTS

Introducing the Gladiator range of portable crushing and screening equipment. The latest offering bring the best features of the Powerscreen track equipment to electric plants



## GLADIATOR JAW

Primary crushing unit can be fed with an excavator or wheeled loader from the side.

Model	Crusher Opening
PT400	42" x 30"

## GLADIATOR CONE

MX1150 has been designed as a stand-alone unit to accept an all-in feed or alternatively for tertiary crushing. It features a Terex TC1150 Automax cone crusher with roller bearing design and Cedarapids 6203 Hz screenbox on SR models.



MT1150

Model	Head Size
MT1150	45"
MX1150SR*	45"

\*SR model includes 20'x6' 3D Hz screen

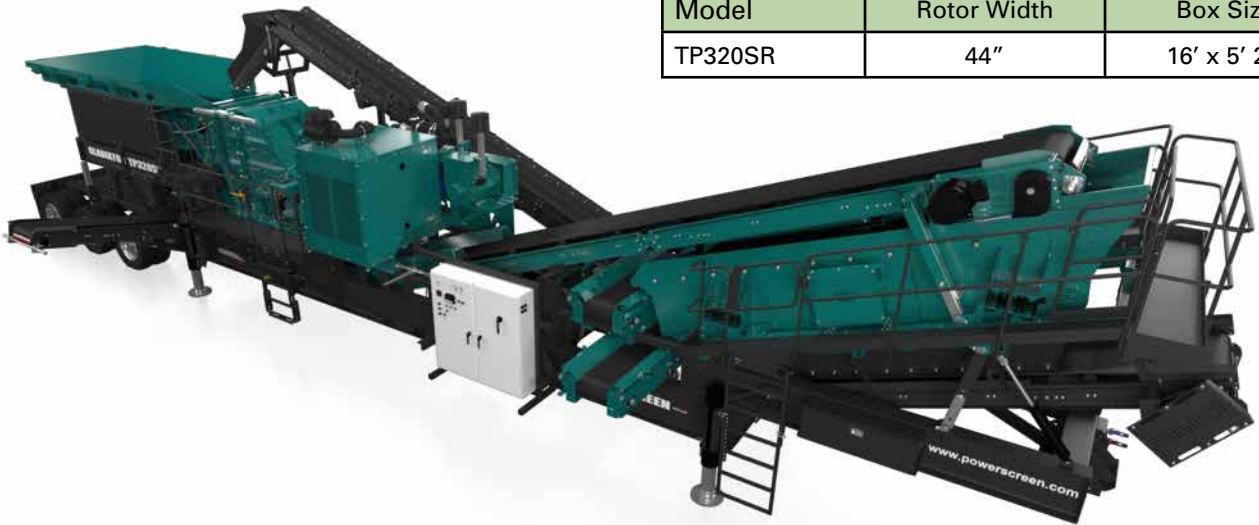


MT1150SR



## GLADIATOR IMPACTOR

TP320SR portable closed circuit cone/screen plant features the Trakpactor 320 impactor and a Chieftain 1700 2-deck inclined screen. The crusher is a direct drive unit via a clutch with onboard diesel engine. All other components are electric driven.



Model	Rotor Width	Box Size
TP320SR	44"	16' x 5' 2D

## GLADIATOR HORIZON

Simple, high capacity mobile unit used for scalping oversize or fine screening high value products for aggregates. Easily adaptable to multiple applications

Model	Screenbox Size
Horizon 6203	20' x 6' 3D
Horizon 8203	20' x 8' 3D



# COMPACT CRUSHING & SCREENING

The Evoquips small footprint allows crushing and screening in confined spaces and reduces transport costs.

## BISON JAW

Compact direct drive jaw crushers ranging from 30-250 tph which can be utilized in quarry or recycling applications.

Model	Chamber Opening
Bison 35	19" x 10"
Bison 120	27" x 16"
Bison 160	28" x 20"
Bison 220	32" x 22"
Bison 280	36" x 24"



## COBRA IMPACTOR

Direct drive chamber with hydraulic over load and adjust features. Optional closed circuit.

Model	Rotor Width
Cobra 230	34"
Cobra 230R	34"
Cobra 290	40"
Cobra 290R *	40"

\*c/w 8' x 4' single deck post screen





Utilized in quarrying and recycling applications, the compact design reduces cost per ton and yields an ultra low fuel consumption.

### COLT SCALPING SCREEN

Compact track scalping screens with production of up to 360tph.

Model	Screenbox Size
Colt 600	8' x 4'
Colt 800	9' x 4'
Colt 1000	14' x 4'
Colt 1600	16' x 5'



### HARRIER SCALPING SCREEN

Double deck screen or grid with high capacities up to 600 tph.

Model	Screenbox Size
Harrier 220	6' 9" x 3' 6"
Harrier 750	14' 8" x 8' 7"



**Complete custom design Construction and Demolition waste (C&D) and Municipal Solid Waste (MSW) processing systems.**

## TROMMEL SCREENS

High performance primary screens to remove fines prior to picking.

- HD trommel screens up to 10' x 40'
- Wheel drive
- Punchplate drums
- Fully enclosed for dust control



## COMPLETE SORTING SYSTEMS

- Feeders
- Conveyors
- Picking Stations
- Magnets
- Eddy Currents
- Blowers
- Optical Separators



## PICKING STATIONS

Multiple picking bay variations to enable the safe separation of the required recoverables such as wood, paper, cardboard and plastics.

- 48" / 60" wide belts
- Optional cabin enclosures





## TRUCK UNLOADERS

Low profile portable drive over truck unloaders reduce handling and reloading costs.

The onboard side ramps and self cleaning hydraulic ramp allow faster setup times, and the variable discharge height conveyor enables multiple discharge options.



Model (belt width)	
42"	1000stph
72"	1500stph



## TELESCOPIC CONVEYORS

HD radial telescopic systems which can be utilized in a range of applications such as organics, quarry and the port loading industry.

The PLC enables consistent fill patterns utilizing all available space.

Options include Genset



	140'		150'		170'		190'
Width	36"	42"	36"	42"	36"	42"	36"
Discharge height	60' 9"	60' 9"	69' 4"	69' 4"	61'	61'	66' 3"
Capacity stph	1000	1500	1000	1500	1000	1500	1000
with optional high lift							



# ORGANIC & WASTE RECYCLING

## UPSWING GRINDERS

The rotor spins in a upward direction pulling the material over and across the screens. This maximizes the exposure and increases the production

Upswing Model	Drum Size	Powerunit
6800CT	40" x 60"	CAT 1050hp or 1200hp
5800BT	40" x 48"	CAT 765hp





## DOWNSWING GRINDERS

Rotor spins in a downward direction pulling the material down and through the screens, which is more forgiving to contaminants

Downswing Model	Drum Size	Powerunit
6400 T	40" x 60"	CAT 1050hp
5400 T	40" x 48"	CAT 765hp



## WHOLE TREE CHIPPERS

Available as wheel or track portable, the CBI 484 is used to chip whole trees in land clearing, biomass fuel and wood chip industries

Rotor Options:

- High quality fuel chips custom size: ½" – 1"
- Micro chips from 0" – ½" from logs up to 24" dia.



ChipMax 484 BP Wheel / Track	
Infeed (w x h)	48" x 52"
Drum Rotor (d x w)	40" x 48"
Knives (l x w)	24" x 7 ¾"
Pockets*	Staggered
Engine	CAT C-18 765hp

\*Optional 2 or 4 pocket rotors





Neuenhauser offer a full range of track and wheel portable trommel, StarScreen, flip flow screens and shredders for the organics market yielding high tonnages at reduced costs.

## STAR SCREEN



2F Starscreen	
Screen Deck	22' 6" x 4" 1"
3F Starscreen	
Fines Deck	22' 6" x 4" 1"
Midsize Deck	12' x 4" 1"

## NH6020 TROMMEL

European style drum reduces spearing, producing a higher quality end product

NH6020	
Drum Size	18' x 6'7"
Powerunit	100 hp



## TARGO 3000 SHREDDER

- Single shaft shredder
- Direct drive reversible shaft
- Hydraulic overload protection on counter comb



**Portable bulk handling equipment designed for the quarry, organic, port and washing markets.**

Telescopic track conveyors, truck unloaders and hopper feeder systems offer the user multiple material handling solutions.

## TRACK STOCKPILERS

Model	
TC4262	62' x 42"
TC421R*	72' x 40"
TC421	72' x 40"
TC424X	80' x 42"
TC624	80' x 40"
TC624R*	80' x 40"
TCL100	100' x 42"

\* Track Radial



## HOPPER FEEDER



Model	
HF518	62' x 42"
HF 520	66' x 42"
HF521	70' x 42"
LF520	66' x 42"
LF823	75' x 42"
MH5680	75' x 48"

## TRUCK UNLOADER

Model
TU515 R
TU1015R





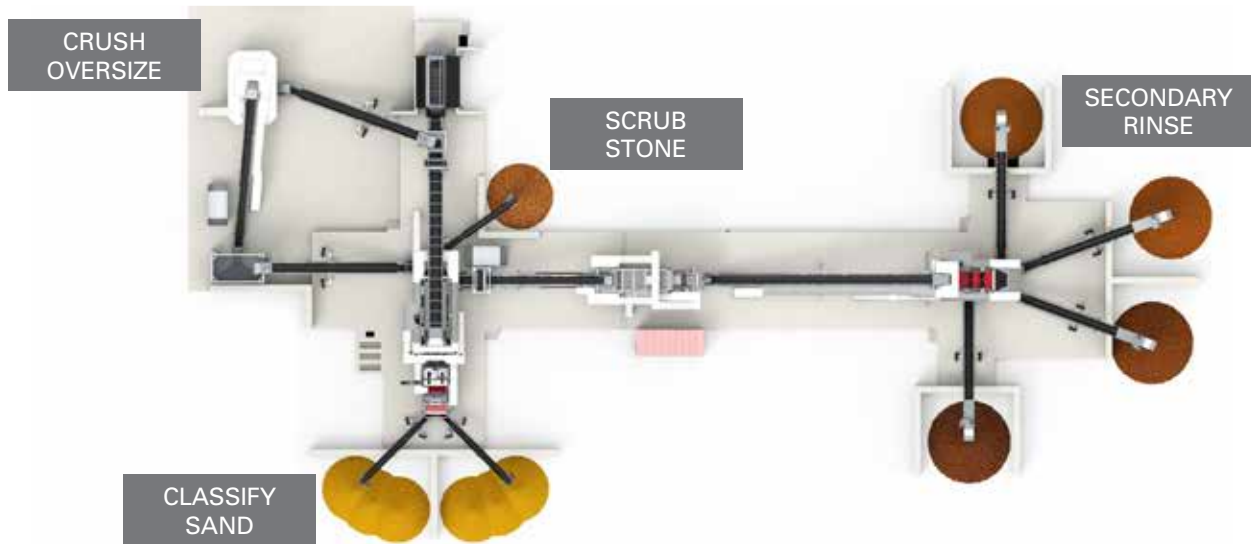
# WASHING SYSTEMS AND FINES OPTIMIZATION



**Customized modular wash plants designed to wash, scrub and dewater material to meet tight material specifications.**

Equipment can be integrated with existing systems to increase production and improve quality of material or used as stand alone units.

Suitable for **quarry, recycling** and **demolition** applications.



## CUSTOM WASHPLANTS





## SAND CLASSIFIERS AND DEWATERERS

Equipment ranges includes single or dual sand screws, bucketwheel with auger screw combinations and cyclone with dewatering screen combinations.

This range offers maximum product versatility, blending capabilities and maximum control over the varying silt content.



## ULTRA / SUPER FINES RECOVERY

UFR's are designed to recover all saleable materials above 400mesh which would otherwise be lost to the pond

Benefits:

- Reduced pond maintenance
- Recovery of all saleable sand
- Specialist sand recovery for additional revenue

## STONE SCRUBBING

The Powerscrub range can be used in a variety of applications to scrub, clean and remove contaminants from the aggregate.

Options such as a multi deck dewatering screen and trash screen, allows aggregate to be sized and stockpiled while the saleable finer material can be sent to a dewatering system.



## MODULAR WASHPLANTS



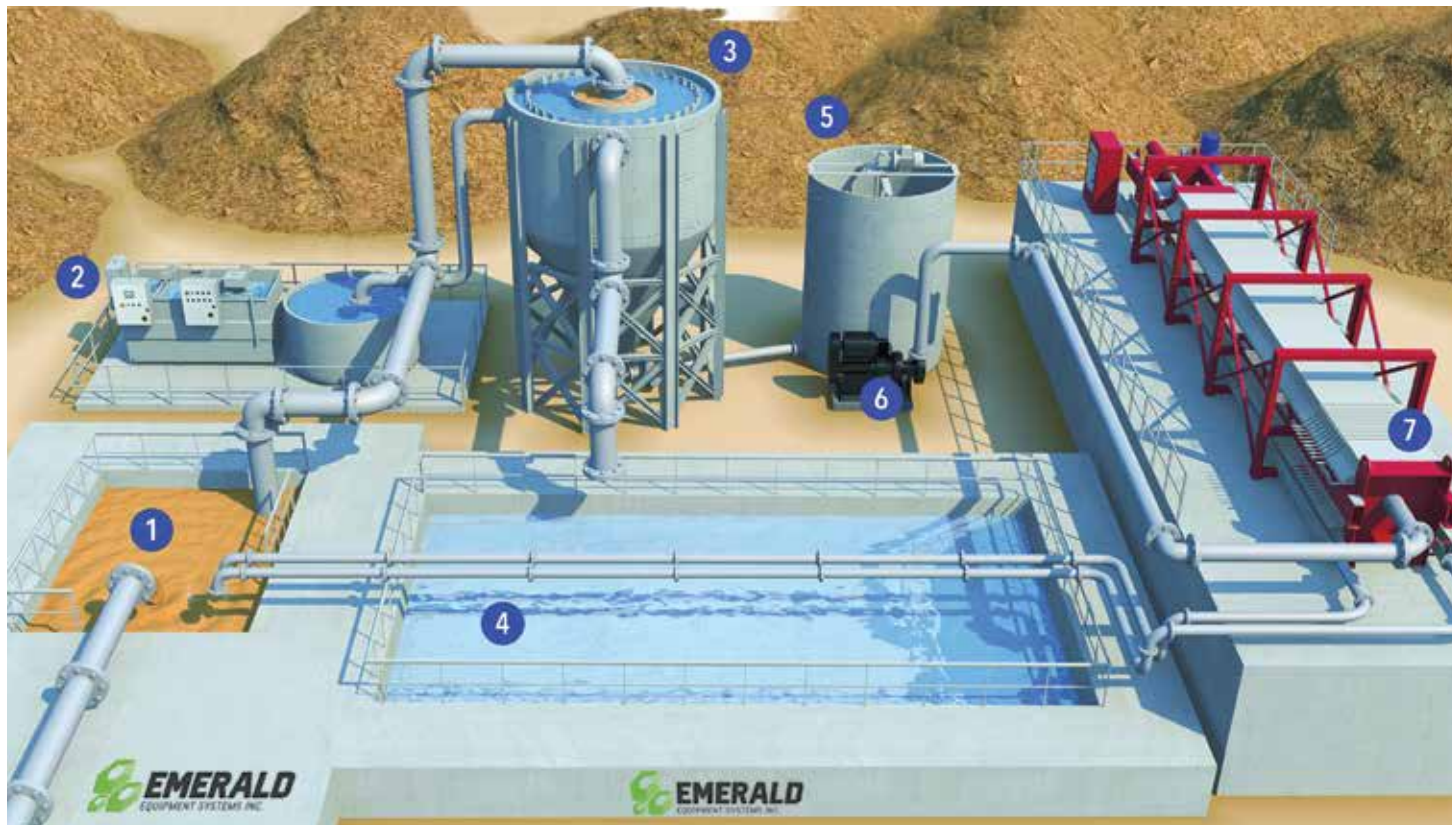
QUICK SETUP • ALL ELECTRIC • WHEEL / MODULAR CHASSIS • HORIZONTAL / INCLINE SCREEN



# WATER TREATMENT AND SILT MANAGEMENT SYSTEMS

## TURNKEY SLUDGE MANAGEMENT SYSTEMS

Custom designed modular systems to eliminate settling ponds, reduce rehandling and disposal costs of waste (silt) material, recover and recycle the water for reuse within the system.



- 1) Waste water (containing silts & clays) from the washing process collects in a Sump and is pumped to the Deep Cone Silo (water clarifier & mud thickener)
- 2) Prepared flocculant is injected into the waste water before it enters the Silo, promoting faster particle / water separation
- 3) Flocculation occurs separating the water and solids. The heavier solids (silts / clays) fall to the bottom of the tank and clean water rises up to the top
- 4) Clean water overflows into the clarified water tank/pit for recycling back through the system
- 5) Thickened mud ( silts/clays) from the Silo, gravity flows into a sludge holding tank when the optimum density has been achieved
- 6 & 7) The HPT pump transfers the thickened mud to the filter press at high pressure for further filtration and dehydration



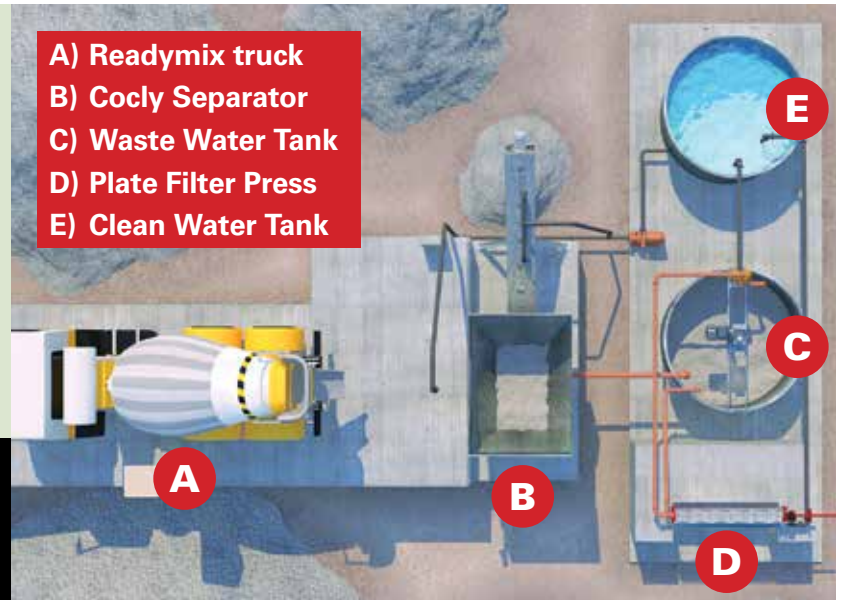


## READYMIX WASHOUT SYSTEMS

The washout system is designed to recover the saleable aggregate, recycle the water and reduce the concrete washout waste by 80%

### BENEFITS OF SYSTEM

- Negate requirement for settlement pits and costly rehandling / crushing of waste material
- Eco-friendly, low maintenance, closed loop automated system
- Recycle and Reuse up to 95% water in the process
  - Reduces sludge volume by 80% by producing low moisture silt cakes
- **Recover, Resize and Recycle aggregate lost in the waste material**
- **Flocculant not required**



## RECYCLED MATERIALS

Modular Washplants and Closed Loop Water & Silt Management plants offer cost effective simple solutions to process recycled aggregates onsite. Plants range from 100 -400tph offering multiple clean spec products



FEED MATERIALS: CLEAN FILL – LOAM – CONCRETE WASHOUT – RECYCLED AGGREGATES



CLEAN WASHED SPEC SAND AND AGGREGATES

SILT CAKES

# AFTERMARKET SUPPORT

## SPARE PARTS

Emerald® design, fabricate and supply a complete range of genuine spare parts that are competitively priced and of the highest quality to ensure maximum productivity of equipment. The knowledgeable product specialists help ensure you receive exactly what you need to get your equipment back on the job quickly and cost effectively.

The **ToughMAX** belting brand promotes longevity with less downtime whilst the custom screen cloths ensures a cleaner product even in the stickiest of applications

With over \$10m of spare parts inventory and dedicated Parts Specialists, Emerald can offer significant savings to the customer and customized aftermarket plans to minimize downtime.

Emerald's expansion now includes a 40,000ft<sup>2</sup> operations facility in PA, to complement their 75'000ft<sup>2</sup> head office in NY. The central position of both facilities enables enhanced service and after market support capabilities within the Northeast corridor.



EES® supply customized screens and belting manufactured inhouse





## SERVICE & TECHNICAL SUPPORT

The Aftermarket specialist engineers are committed to supporting every aspect of the operation, from commissioning and servicing equipment to helping you improve productivity and lower operating costs throughout the working life of your machine.

**Fully equipped service trucks allow the factory trained service technicians to be on your site quickly to keep your operations running smoothly whilst offering the best solution to maintain excellent up time of your machine.**

The addition of a spray booth with sand blasting facility, fabrication workshop and an upgraded 10 bay shop allows multiple operations to run concurrently ensuring expedited service.



Our Service Department offers industry leading product knowledge and expert troubleshooting advice.

With a "one call" approach, service scheduling is made easy for whatever your situation requires.

Our in-house billing and warranty departments are ready at any time to assist our customers.



CEDARAPIDS  
A TEREX BRAND

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**EMERALD**  
EQUIPMENT SYSTEMS INC.

**NEW**  
**FOR 2021**



**Introducing the Gladiator range of portable crushing and screening equipment.**



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