

intelligent washing solutions

FOR OVER 65 YEARS

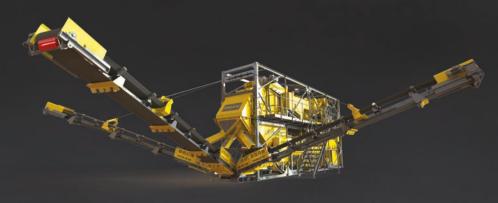


SPAREPARTS

WEARPARTS



intelligent washing solutions





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With over 65 years experience in the Materials Processing Industry Bruce provide turnkey modular washing systems.





Scrubs/Washes/Separates

Complete Self-Contained Wash Plant with only the footprint of a 40ft Container.

FEATURES & BENEFITS

- Smallest working footprint of any complete Washplant
- Fastest on-site set up time
- Factory wired & tested
- Easily transportable with no need for specialist transport
- Aggregate scrubbing, trash removal, aggregate rinsing & sizing plus sand washing in one neat package
- Production of 4 washed products: 3 aggregates & 1 sand
- Fully galvanised walkways & steps
- Branded components throughout
- Radial or integrated Stockpile Conveyors
- Fully automated control system

WHAT'S ON BOARD

- Double or Triple Deck Washing Screen (10' x 5')
- Dewatering Screen (8' x 4')
- Twin Shaft Logwasher
- Twin Cyclones
- Clean Water Tank, Sand Collection Tank and Dirty Water Tank
- Complete with integrated pumps and control panel
- Trash Screen



APPLICATIONS

- Sand & Gravel
- Recycled C&D waste
- Aggregate
- Road Sweepings
- Crushed Rock
- Utilities Waste
- Railway Ballast
- Drainage Medium
- Contaminated Soils
- Recycled Muckaway

TPH

- Aggregate product up to 100tph
- Sand 50tph

- Radial or integrated Stockpile Conveyors
- Feed Hopper
- Feed Conveyor





The Bruce BWR-TL consists of a Pre-screen Twin Shaft Logwasher, Double/Triple Deck Washing Screen and a Trash/Filter Screen all mounted together on a skid frame.



FEATURES & BENEFITS

- Fully mounted washing system consisting of wet Pre-screen, Washing Screen, Twin Shaft Logwasher & Filter (Trash) Screen
- Modular skid frame
- Multifunctional: Easily adaptable to suit various material washing requirements
- Compact unique design with minimal footprint
- Highly productive and efficient Screens with high frequency motors $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($
- Complete with automated control system or wired to mains system control panel
- Hardox Wearparts supplied as standard to ensure extended wear life
- Range of screen sizes to suit application & tonnages

APPLICATIONS

- Sand & Gravel
- Recycled C&D waste
- Aggregate
- Road Sweepings
- Crushed Rock
- Utilities Waste
- Railway BallastDrainage Medium
- Contaminated Soils
- Recycled Muckaway

- Modular Feeding System
- Sand Plant
- Water Treatment



The Bruce Mob-E-Wash offers flexibility that static plants cannot match.

Excels in situations that require temporary installation, campaign washing and quick turnaround projects.



FEATURES & BENEFITS

- Electric drive mobile washing system
- Consisting of a Belt Feed Conveyor, Twin Shaft Logwasher, Trash Screen, Two Deck Washing Screen & Stockpile Conveyors
- Quick set-up
- Unique compact design
- Triaxle chassis
- Highly productive and efficient screens with high frequency motors
- Control panel with power-safe plug & play connectivity touch screen HMI display
- Hardox® Wearparts supplied as standard
- Multifunctional to suit various material washing requirements
- Fully galvanised fold-away maintenance platforms and access steps

APPLICATIONS

- Sand & Gravel
- Recycled C&D waste
- Aggregate
- Road Sweepings
- Crushed Rock
- Utilities Waste
- Railway Ballast
- Drainage Medium
- Contaminated Soils
- Recycled Muckaway

- Associated Fines Recovery Bolt-On System
- Power supply 75 kVA Generator oversized to 100 kVA





The Bruce BWS Sand Plant maximises fines recovery to produce high quality dewatered sand products.

The system consists of Hydro cyclone(s), centrifugal slurry pump(s), Dewatering Screen and collection tank on a skid mounted frame.

FEATURES & BENEFITS

- Can produce one or two grades of material
- Maximises fines recovery
- Sand moisture content reduction
- Rubber lined slurry pump(s) & Hydro cyclone(s)
- High frequency Dewatering Screen with polyurethane media & side wall protection
- Rubber lined cyclone collection tank
- Overflow weir discharge system
- Mechanical diverter plate at screen discharge to blend product
- Adjustable chute under cyclone discharge box for blending coarse and fine product
- Fully automated electrical control panel
- Self-regulating sump with pump protection float system
- Hardox® and rubber lined wear parts

APPLICATIONS

- Sand & Gravel
- Fines Recovery

- Single or twin product
- Dual / Twin Wash Plant
- 40 / 60 / 120 / 200 TPH
- Integrated Bucketwheel (BWSRB)
- Spray bars on Dewatering Screen
- Boiler Box for dry feed application
- Stockpile Conveyors





The Bruce BWSRB Sand Plant maximises fines recovery to produce high quality dewatered sand products.

The system consists of a Bucketwheel, Hydro cyclone(s), centrifugal slurry pump(s), Dewatering Screen and collection tank on a skid mounted frame.



FEATURES & BENEFITS

- Twin bucket wheel with variable speed control
- Can produce one or two grades of material
- Maximises sand recovery
- Sand moisture content reduction
- Rubber lined slurry pump(s) & hydro cyclone(s)
- High frequency Dewatering Screen with polyurethane media & side wall protection
- Rubber lined cyclone collection tank
- Overflow weir discharge system
- Mechanical diverter plate at screen discharge to blend product
- Adjustable chute under cyclone discharge box for blending coarse and fine product
- Fully automated electrical control panel
- Self-regulating sump with pump protection float system
- Hardox® and rubber lined wear parts

APPLICATIONS

- Sand & Gravel
- Fines Recovery

- 120 & 200tph models
- Single and twin product machines
- Spray bar on Dewatering screen
- Boiler box for dry feed
- Stockpile Conveyors







The Bruce BWD Dewaterers are a cost effective way to remove water from washed material. The range is available in 90, 120 & 150tph capacities.

FEATURES & BENEFITS

- Long settling tank & recovery spiral for increased fines recovery
- High capacity variable speed bucket wheel fitted with interchangeable drain plates
- Overflow weirs to control fines recovery
- Rubber lined slurry intake boxes
- Adjustable weir discharge
- Variable speed hydraulic controls
- Robust & durable build quality

APPLICATIONS

- Sand & Gravel
- Recycled sand
- Marine dredged sand
- Fines Recovery'



Electric/Hydraulic powerpack





Bruce twin shaft heavy duty Logwashers are ideal for cleaning and scrubbing aggregates.



FEATURES & BENEFITS

- Robust build for heavy duty applications
- Extended machine life due to interchangeable Hardox® wearparts
- Adjustable water discharge weir system
- Controlled input water flow
- Can be adapted to suit or compliment an existing system

APPLICATIONS

- Sand & Gravel
- Recycled C&D waste
- Aggregate
- Road Sweepings
- Crushed Rock
- Utilities Waste
- Railway Ballast
- Drainage Medium
- Contaminated Soils
- Recycled Muckaway

- Can be supplied as a separate modular unit or as an integral part of a Bruce washing system
- Inlet and discharge chutes tailored to specific requirements





Designed to clarify and recycle water plus concentrate sludge, the Bruce Thickener Tank (BWT) is an efficient solution to wastewater treatment.



FEATURES & BENEFITS

- Fully automated
- Inlet Chamber: Located on the side of the tank. Delivery intake of wastewater and addition of polymer binding agent
- Integrated feed well in centre of tank encourages downward settlement of sludge to central discharge point
- Integrated conditioning rakes
- Perimeter weir: Capture of recovered clean water
- Backwash facility to clear any potential blockages
- Fully galvanised stairs, walkway & fixed bridge
- Support structure
- Centrifugal Sludge Pump
- Full system Control Panel

APPLICATIONS

- Sand & Gravel
- Recycled C&D Waste
- Aggregate
- Road Sweepings
- Crushed Rock
- Utilities Waste
- Railway Ballast
- Drainage Medium

- Available in 6 / 8 / 10 / 12m diameter models
- Flocculent Station / Polyelectrolyte Plant
- Cabin / Housing for Flocculent Dosing Station
- Clean Water Ballast Tank
- Sieve Bed / Filter Screen

Materials Processing Solutions all over the world...





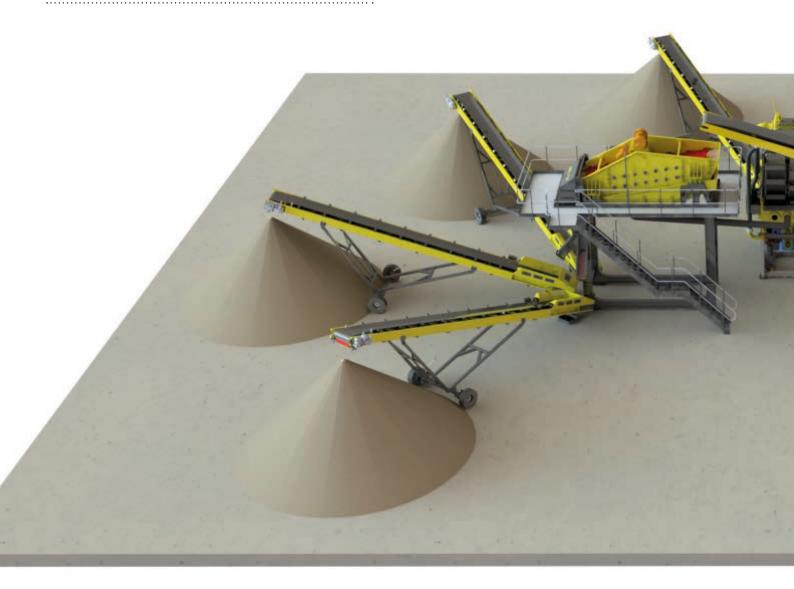






BW-FRD Modular Washing System

The Bruce BW-FRD modular washing system offers feeding, screening, sand washing and stockpiling in one neat package. The range includes numerous modular configurations enabling the production of clean aggregates and sand products.



FEATURES & BENEFITS

- Up to 3 washed aggregates and 2 washed sands
- Modular design to facilitate specific customer requirements
- Intelligent design ethos ensures maximum performance and serviceability with easy access to pumps, screen media and essential components
- Production of aggregates and sand products to a desired specification
- Easily integrated with Bruce water treatment technology for complete package
- Fully galvanised access steps, walkways and guard rails
- Complete with control panel for connection direct to generator or wired to full system control panel

COMPONENTS

- Feeding
- Screening
- Sand Washing & Dewatering
- Stockpiling

OPTIONS

- Single, double or triple deck Washing Screen
- Single or twin product Fines Recovery Plant
- Choice of Bruce BWS, BWSRB, BWD range of fines recovery systems
- Spray bars on Dewatering Screen
- Over-band magnet including support frame and stainless steel chute on Transfer Conveyor
- Belt weigher system on Conveyors
- Removal of Stockpile Conveyors and discharge material to bays
- Can be supplied with Bruce wastewater treatment system for complete turnkey solution

Layout consists of the following:

- Belt Feed Hopper
- Infeed Conveyor
- Washing Screen
- BWS Sand Plant
- Stockpile Conveyors



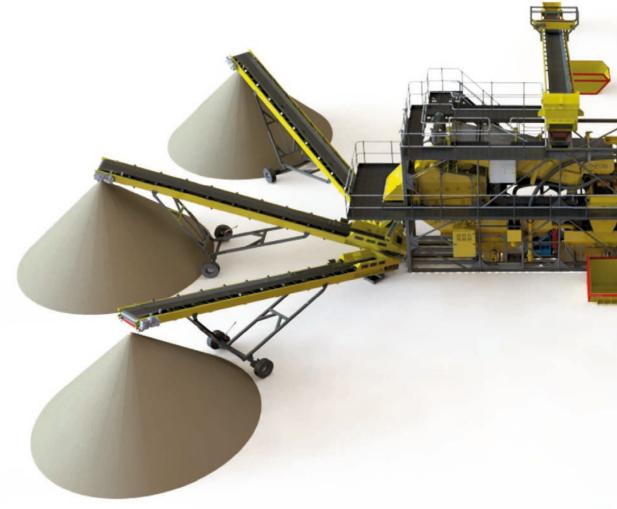








Typical Washing Layout: 02







Typical Washing Layout: 03









Bruce Hoppers & Belt Feeders are designed for feeding quantities of material evenly and consistently to the next stage of processing.



FEATURES & BENEFITS

- Large capacity heavy duty Hoppers and Belt Feeders
- Conform to ISO safety requirements with safety guards and side skirting fitted as standard
- Fixed variable speed drives
- Interchangeable belt scraper segments
- Discharge Conveyors up to 1500mm wide

- Various Hopper capacities available
- Hardox® lined
- Open top or grid with Bofor bars
- Hydraulic Tipping Grid with remote control
- Electric or hydraulic drive



Bruce Scalper

Extremely versatile, robust machine, maximising efficient feeding with compact scalping and screening.

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FEATURES & BENEFITS

- Electric Drive
- Machine can be adapted to produce 2-3 products
- Multiple screening media types available Grizzly Bars, Cascade Fingers, Punch Plate and Woven Wire Mesh
- Counterdirectional Cleaning Conveyor
- Robust Apron Feeding Conveyor complete with Hardox® Shoe Plates
- Oscillating Screen Mounts
- Cardan Shaft Synchronised Drive
- Efficient feed point for site vehicle
- Durability with Hardox® Wearparts
- Quick set-up
- User friendly control system
- Maintenance access on both sides of the machine

APPLICATIONS

- Recycled C&D Waste
- Aggregate
- Demolition Waste
- Sand & Gravel
- Topsoil





Washing Screens

FEATURES & BENEFITS

- High acceleration rate to ensure optimum screening
- Screens driven by low maintenance vibrating motors
- Heavy duty single motor base using a fabricated and machined construction
- Modular skid mounted base
- Spray bars with "Vari-Spray" nozzles
- Hardox® lined discharge chutes
- Variable screen angle 5 20°

OPTIONS

- Single, double and triple deck screens available
- Screen media options; polyurethane, rubber or wire screen mats plus finger decks available
- Reverse phase braking system



Dewatering Screens

FEATURES & BENEFITS

- Modular polyurethane media
- Can be supplied as a separate unit or incorporated into existing plants
- High frequency low amplitude vibration for effective dewatering of fine solids

- Rubber lined Sump
- Spray bars
- Single or Twin Product



Lattice Conveyors

FEATURES & BENEFITS

- Hardox® lined feed boot
- Belt scrapers
- Enhanced guarding
- ISO accredited safety standards

OPTIONS

- Galvanised access steps and walkways
- Chevron belt
- Dust encapsulation covers
- Belt scales
- Electric or hydraulic drive
- Range of lengths and belt widths
- Over-band magnet
- Radial or static
- Boiler box

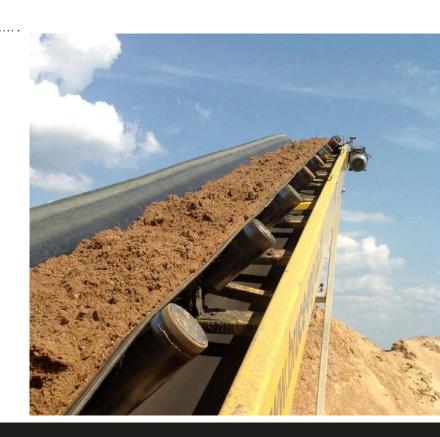


Mobile Conveyors

FEATURES & BENEFITS

- Hardox® lined feed boot
- Belt scrapers
- Enhanced guarding
- ISO accredited safety standards

- Chevron belt
- Dust encapsulation covers
- Belt scales
- Electric or hydraulic drive
- Range of lengths and belt widths
- Over-band magnet
- Radial or static





Bruce Feeding

ELECTRO - MAGNETIC FEEDERS

Electro-magnetic vibrating Feeders are designed with a single drive unit incorporating variable control to ensure a consistent material feed.

ELECTRO - MECHANICAL FEEDERS

The Bruce extensive range of mechanical vibrating Pan Feeders are designed for light to heavy duty applications within the materials handling industries. The Feeders are driven by twin electric motors with an option of variable feed control.

FEATURES & BENEFITS

- Hardox® liners
- Variable speed control
- Quiet operation
- Low maintenance
- Low energy consumption

OPTIONS

- Hopper
- Conveyors
- Various pan sizes
- Available in 40 600t feed rate



Bruce Screening

VIBRATING GRIZZLIES

Bruce Grizzlies have an extremely robust fabricated design.

FEATURES & BENEFITS

- Hardox® liners
- Variable speed control
- Quiet operation
- Low maintenance
- Low energy consumption

- Available in 40 600t feed rate
- Single, double or triple stepped decks









GENUINE SPARE PARTS ON DEMAND!

- Screen Media > Shafts
- **Cyclone Spigots**

- **Springs**
- **Pumps**
- **Vibrating Motors**

- Screw Flights >
 - **Drive Motors**
- **Hardox Wearparts**

- **Rollers**
- **Belts**

Bearings

Water Treatment Partner



Bruce Engineering are proud partners of Tecnoidea Impianti Water & Sludge Treatment Plants.

We can provide the complete solution to wastewater management including:

- Filter Press: Side-beam and Overhead Beam options
- Vertical Clarifiers/Deep Cone Thickeners
- Flocculant Stations
- Clarified Water Tanks
- Pumps





Notes





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