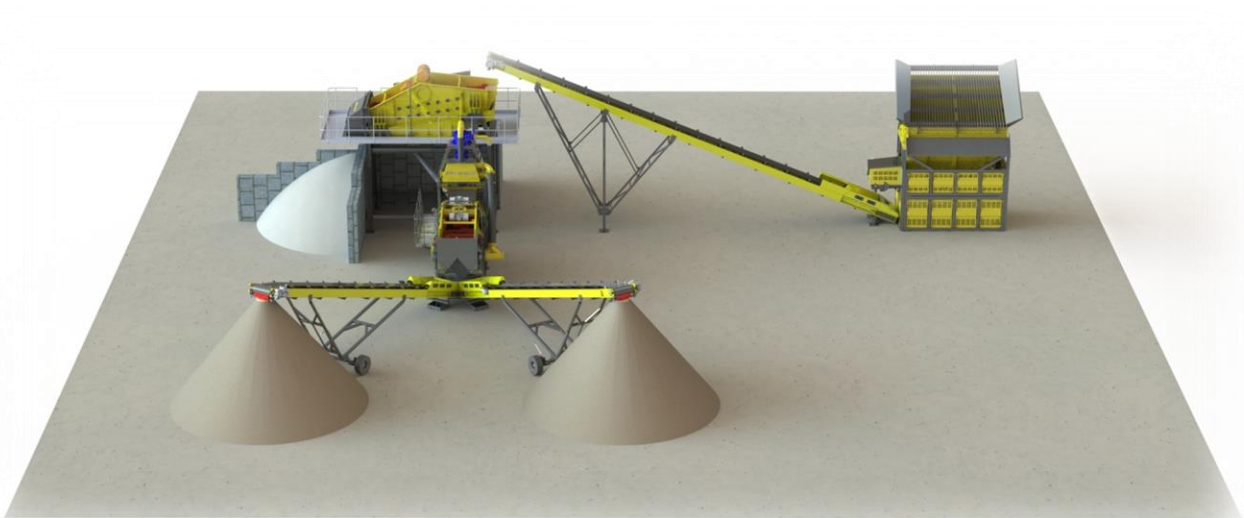


> Specification:

BW-FRD



BRUCE
MATERIALS PROCESSING SOLUTIONS

intelligent
washing solutions

> WASHING/FEEDING/SCREENING/RECYCLING/ENGINEERING/WEARPARTS

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 aggregate and sand products to your specification.

Designed for the processing of manufactured sand and aggregates where little attrition is required.

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.
- Ensure production of aggregate and sand products to your desired specification.
- Easily integrated with Bruce water treatment technology for complete package.
- Fully galvanized access steps, walkways & guard rails.
- Complete with control panel for connection direct to generator or wired to full system control panel.

OPERATIONS:

1. FEEDING
2. SCREENING
3. SAND WASHING & DEWATERING
4. STOCKPILING

1. FEEDING

- Modular Hopper and Belt Feeder
- Choice of 7.5m³ & 15m³ Hopper capacity. Other sizes available on request
- Variable speed Belt Feeder
- Transfer Conveyor– 18m/20m/22m/25m length options. Optional Over-band magnet for removal of ferrous metals and Belt Weighing system.

IMAGE: 15m³ Feed Hopper



2. SCREENING

- Screen Size options:
 - 4.9m x 1.5m (16' x 5')
 - 3.7m x 1.5m (12' x 5')
 - 3.1m x 1.5m (10' x 5')
 - 2.5m x 1.2m (8' x 4')
- Screens driven by 2No. out of balance electric motors (vibrating motors)
- Side tensioned as standard.
- Mounted on compression springs
- Screen media options – polyurethane modules, rubber or wire screen mats and finger decks available
- Water intake manifold
- Independently controlled spray bars with “Vari Spray” nozzles
- Spray bars fitted to independent structure from screen
- Rubber lined sump
- Easily replaceable rubber or Hardox lined feed tray
- Modular skid mounted base
- Fabricated folded construction in Mild Steel.
- Motor base: heavy duty pipe construction with machined motor interface
- Variable screen angle 5 – 20 degrees
- Hinged chute allowing easy access to change screen media
- Hardox lined discharge chutes

IMAGE: DV10 16' X 5' Wash Screen



3. SAND WASHING & DEWATERING

Bruce **BWS & BWSRB** range of modular cyclone sand plants include:

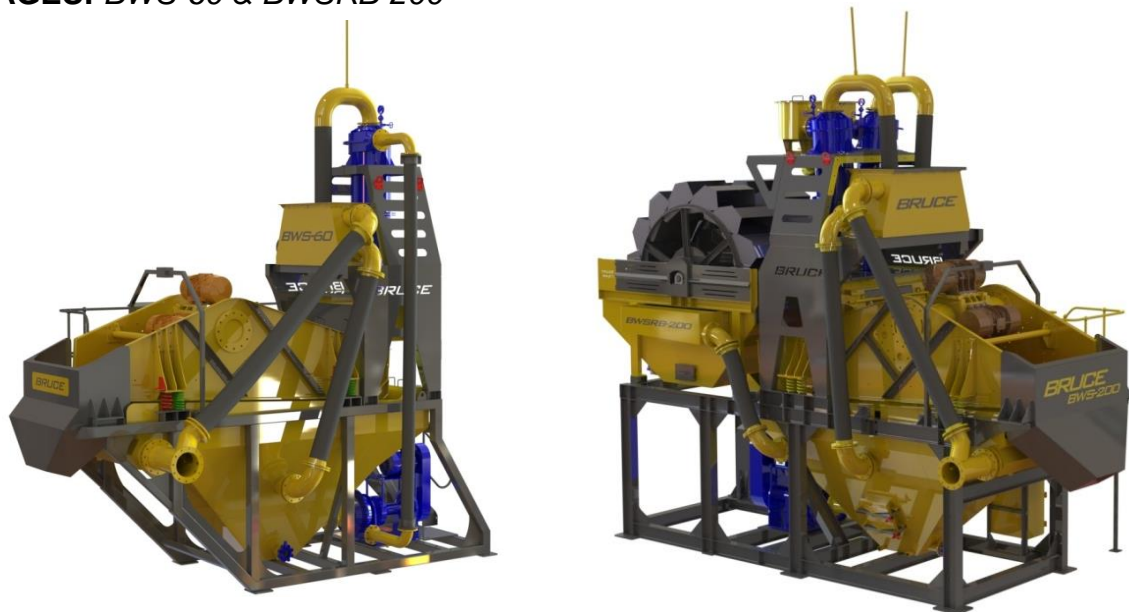
1. Linatex Cyclones

2. Pumps

3. Dewatering Screen and Sump

- Choice of 40/60/120/200 single and twin product systems
- Linatex Hydrocyclones
- Integrated Warman slurry pump.
- High frequency Dewatering Screen mounted on compression springs.
- Modular polyurethane media and side wall protection provided as standard.
- Rubber lined cyclone Feed Box minimises impact of material directly onto screen and aids cyclone discharge across full width of dewatering screen.
- Sigma mining grade hose used to connect slurry pump to cyclone.
- Rubber lined steel pipe work.
- Rubber lined cyclone over-flow box.
- Option to blend at discharge point on dewatering screen by adjustable hinge (twin product applications).
- Hardox lined discharge chutes.
- Sharper fall on the sump sides and also a smaller square suction area on the bottom of the sump increase efficiency of pump. In addition, the suction pipe is cut at an angle for increased suction area.
- Fully automated electrical control panel.
- Self regulating sump with pump protection float system (counterweight and float switch.)
- Consistently dewatered sand output (typical) moisture content less than 12%.

IMAGES: *BWS-60 & BWSRB-200*



4. STOCKPILING

Radial or static Stockpile Conveyors

- Choice of 12m/15m/18m/20m Conveyors. Additional sizes available on request
- 750mm wide belt provided as standard
- Direct drive electric gearbox
- Premium quality PU scraper

IMAGE: 15m Radial Stockpile Conveyor

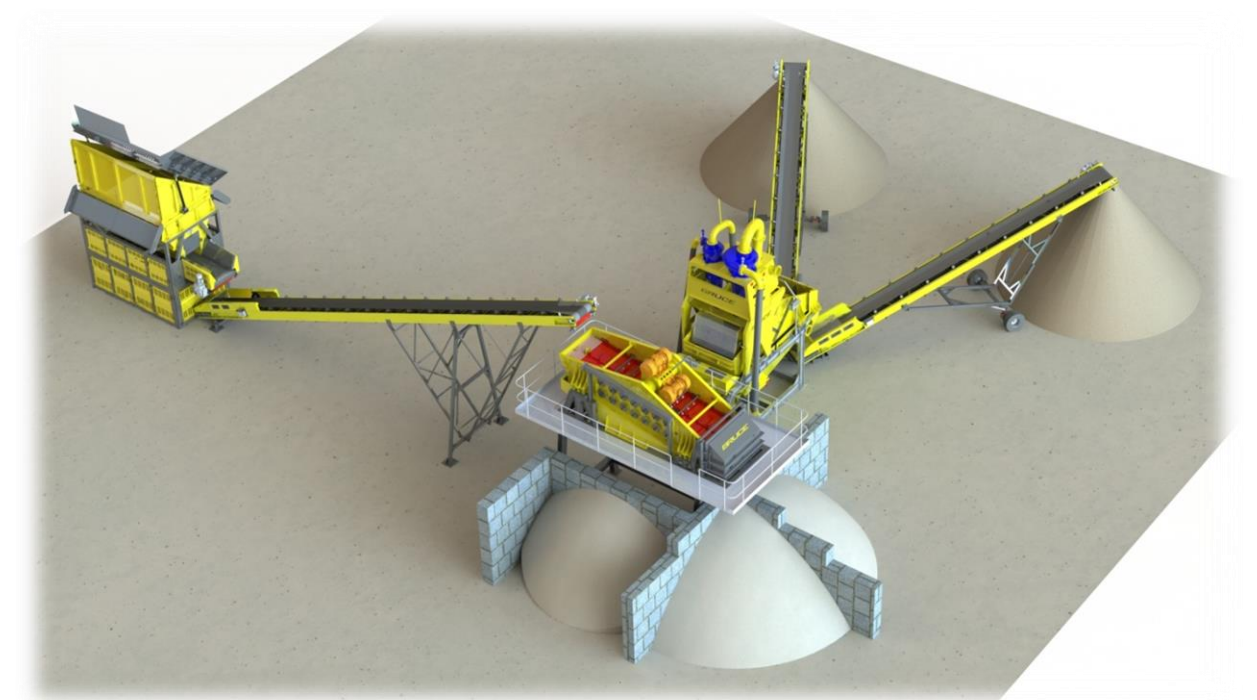
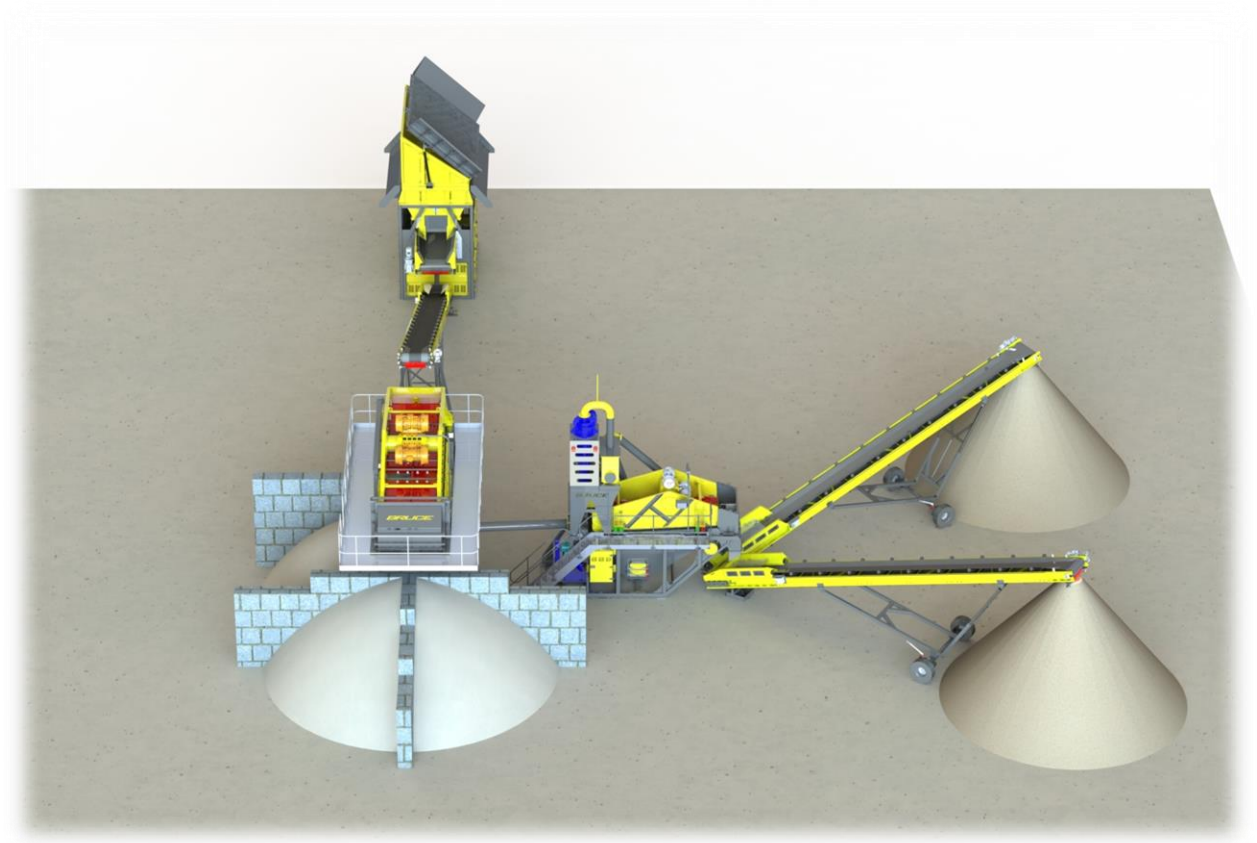


BW-FRD SETUP OPTIONS:

| TPH | Hopper Size | Wash Screen | Sand Plant | Sand Plant (Bucket Wheel) |
|-----|-------------------|-----------------|------------|---------------------------|
| 40 | 7.5m ³ | DV4 - 8' x 4' | BWS-40 | N/A |
| 60 | 7.5m ³ | DV7 - 10' x 5' | BWS-60 | N/A |
| 120 | 15m ³ | DV10 - 16' x 5' | BWS-120 | BWSRB-120 |
| 200 | 15m ³ | DV12 - 20' x 5' | BWS-200 | BWSRB-120 |

OPTIONAL EXTRAS:

- Spray Bars on Dewatering Screen.
- Hydraulic Tipping Grid on Feed Hopper.
- Over-band magnet including support frame and stainless steel chute on Transfer Conveyor.
- Belt weighing system on Transfer Conveyor.
- Integrate Bruce BWSRB – Bucket wheel & Cyclone Combo Sand Plant system.
- Removal of Stockpile Conveyors and discharge material to bays.



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PLEASE NOTE ALL MEASUREMENTS MAY NOT BE EXACT AND ARE SUBJECT TO CHANGE

Note: The information contained in this document is for reference only and can be changed without notice at any time. Any performance information is for guidance only and is not guaranteed

BRUCE
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HARDOX®
WEARPARTS

