

AggreSand 165



FEATURES

- 3 Aggregates, 2 Sand, 1 Machine
- Fully Modular
- Fully Automated
- Radio Controlled
- Containerised Transport
- Pre Wired & Pre Plumbed
- 1 Electrical Connection Point
- 1 Water Connection Point

KEY FEATURES

- Fully Modular
- Fully Automated
- Radio Controlled
- Containerised Transport
- Pre Wired & Pre Plumbed
- 1 Day Set-Up
- 1 Electrical Connection Point
- 1 Water Connection Point
- Curved chassis
- Quick set-up time
- Plug and play' electrical points
- Intelligent chassis design for access and wash down

- 650mm (26") Wide Belt
- Automated Radial Sand Stockpilers
- 350m³ (458yds³) Stockpile Per Conveyor
- 80m² (1046yds³) Single Sand
- PU Primary Scraper

APPLICATIONS

- Virgin Aggregate
- Manufactured Sand
- Sand & Gravel
- Crushed Rock
- Crusher dust
- Scalpings
- Iron ore
- Other mineral ores
- Construction & Demolition Waste Material

- 3.7m x1.5m (12'x5') DW Screen
- Twin Sand Product
- High Frequency Dewatering Screen Delivering Superior Moisture Reduction



- Advanced Fully Automated Control System With Remote Communication And Radio Control

OPTIONS

- High capacity sand option (200tph)
- Single sand
- 2 deck
- Tungsten Tip Scraper
- PU Decks
- Over Band Magnet
- 40mm (4") Grid
- Raisable Head Section For Screen Access



- 4.9m x 1.5m (16'x5') 3 Deck, 2 Bearing Screen
- Isolated Spraybars
- Mesh Deck
- Fully Sealed Catchment Tank
- Aggregate Blending Chute
- Service Accessible Rolling Chute

- 1050mm (41") Wide Belt
- Integrated Sealed Washbox
- PU Primary Scraper

- 650mm (26") Wide Belt
- BTM Deck Overs
- Tungsten Tip Scraper STD

- Optional overband magnet for the removal of ferrous metals when operating in recycling applications

- Roll-In / Roll-Out Pumps For Easy Maintenance

- Fully Modular 12m³ (16yds³) Capacity Hopper
- Radio Controlled Tipping Grid or Vibrating Grid
- Variable Speed Belt Feeder
- Vibrating Grid Option
- 37kw (50hp) electric hydraulic powerpack



AGGRESAND KEY FEATURES

Sand Plant – Double /
Single grade options
available up to 200TPH.



Sand Conveyors – Radial
wheel drive or skid mounted.
9.3m (30' 5") long conveyors
giving a stockpile capacity up
to 350m³ (458yds³).

2 or 3 deck screen box available.
Electric drive, individually controlled
isolated spray bars, media inspection
rubbers, high specification bearings,
polyurethane modular mats

Rolling chute for easy access to change
deck media. Blending gates to mix decks.

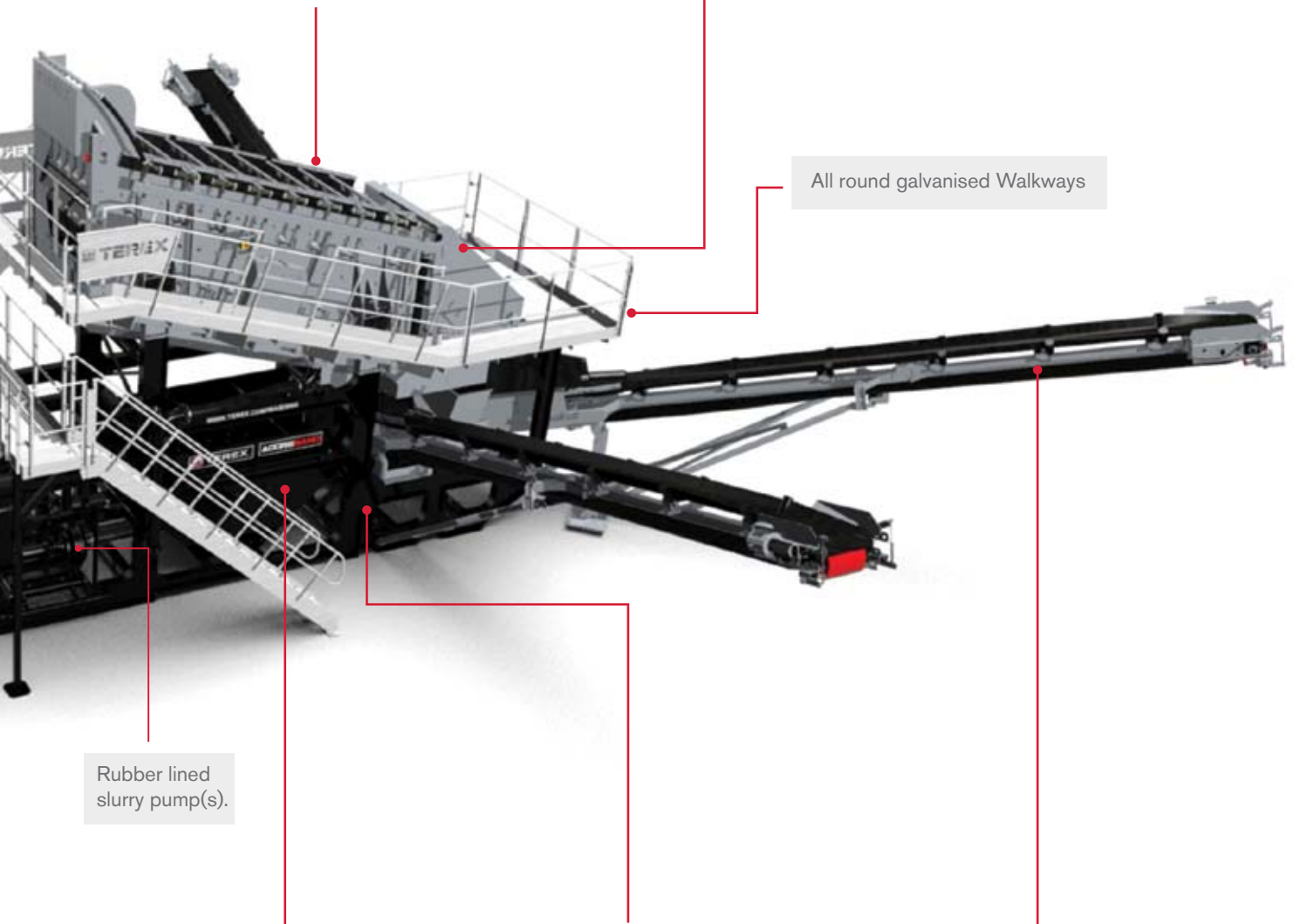
All round galvanised Walkways

Rubber lined
slurry pump(s).

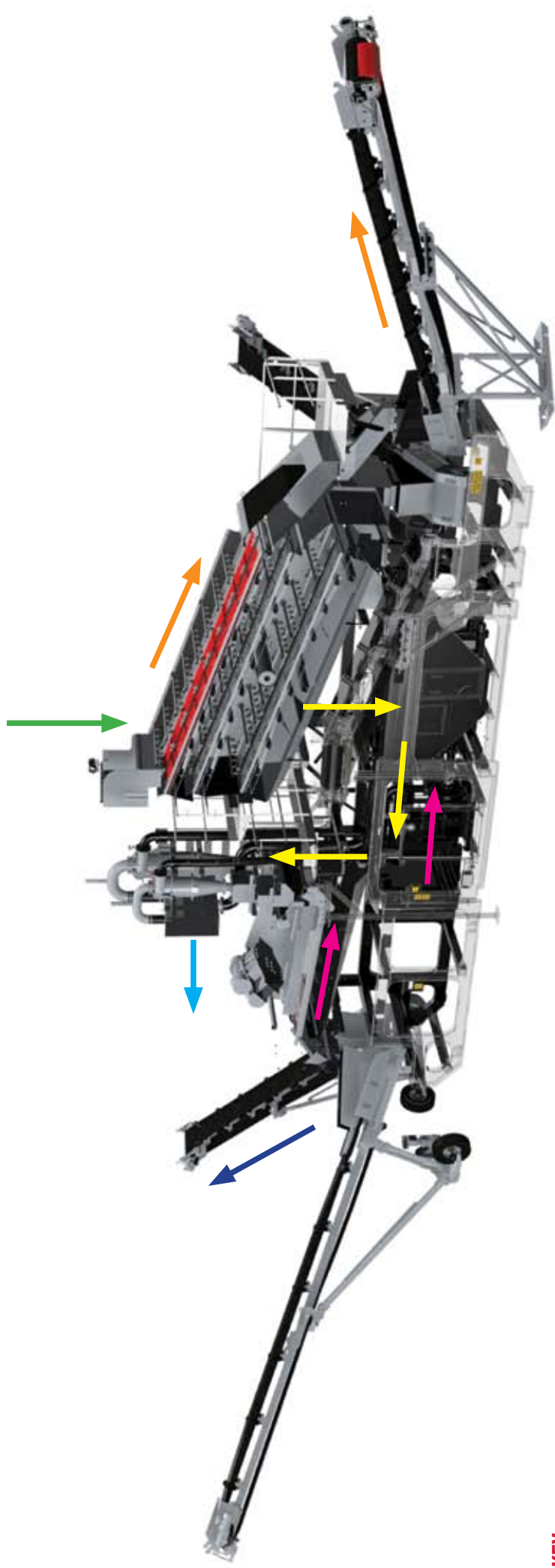
Large volume sump tank
c/w large access doors,
overflow box, baffle
plates, pump protection
system and drain ports

Wash down hose reel

9.3m (30' 5") long aggregate
conveyors. Oversize conveyor can
discharge to either RH or LH side.
Middle deck and bottom deck can be
configured to discharge to either side
opposite each other.



AGGRESAND FLOW

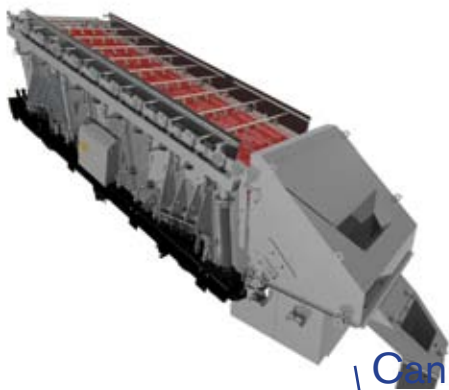


KEY

- Raw material fed from feed conveyor
- Washed aggregate for stockpile
- Slurry (sand & water)
- Dewatered sand for stockpiling
- Cyclone overflow to water treatment (water & silt)
- Dewatering screen underflow back to sump tank

AGGREGATE SCREEN

- 16' x 5' (4.9m x 1.5m) Screen
- 2 or 3 deck Screen box option
- Electrically driven
- Optimum 18 degree working angle
- Enclosed rubber lined wash box complete with independently controlled spray bar
- 8 independently controlled isolated spray bars per deck complete with fan tail plastic nozzles
- Mesh decks as standard (Polyurethane modular deck option)
- Lined rolling chute arrangement complete with blending capabilities
- Rubber lined catch box (complete with 1/3 - 2/3 rubber lined division plate for dual sand models)
- Rubber lined discharge chutes
- HMI Pressure sensor on water manifold



SAND PLANT

- High frequency 3.7m x 1.5m (12' x 5') Dewatering screen – dewatering up to 120TPH of sand
- Polyurethane modules and side protection bars
- Moulded central division plate (double grade only)
- Rubber lined cyclones
- Ceramic lined inlet bends
- Rubber lined underflow boxes - c/w quick release lid
- Rubber lined blending box - c/w quick release lid (double grade only)
- 5.5m (18') dirty water discharge height
- Rubber lined catch box for screen underflow
- Spray bar in catch box
- Polyethylene wear lining in discharge chute
- Adjustable discharge blending chute – double grade only
- HMI Pressure sensor to monitor cyclone inlet pressure



CENTRE CHASSIS

- Rubber lined slurry pump(s) situated upon roll out maintenance platforms
- Ceramic lined bends
- One point water feed
- Large volume sump tank
- Plant wash down hose on retractable reel (option)
- Split tank for double grade (double grade only)
- Float on coarse side of tank (double grade only)
- Letterbox on divider plate to keep tank levels equal (double grade only)
- Overflow box
- Large inspection doors (both sides on double grade)
- Tank drain (both sides on double grade)
- Anti-turbulence baffle plates
- Replaceable rubber lined wear plates on feed area



AGGREGATE CONVEYORS

- Reconfigurable Conveyors
- Plain 26" (650mm) wide belt
- 18 degree angle
- PU Primary Scraper
- Direct drive electric gearbox
- 9.3m (30' 5") long
- 4.1m (13' 5") discharge height
- 3 deck oversize conveyor can discharge to right or left side
- Tungston UP Primary Scraper BTM Deck Overs Only

SAND CONVEYORS

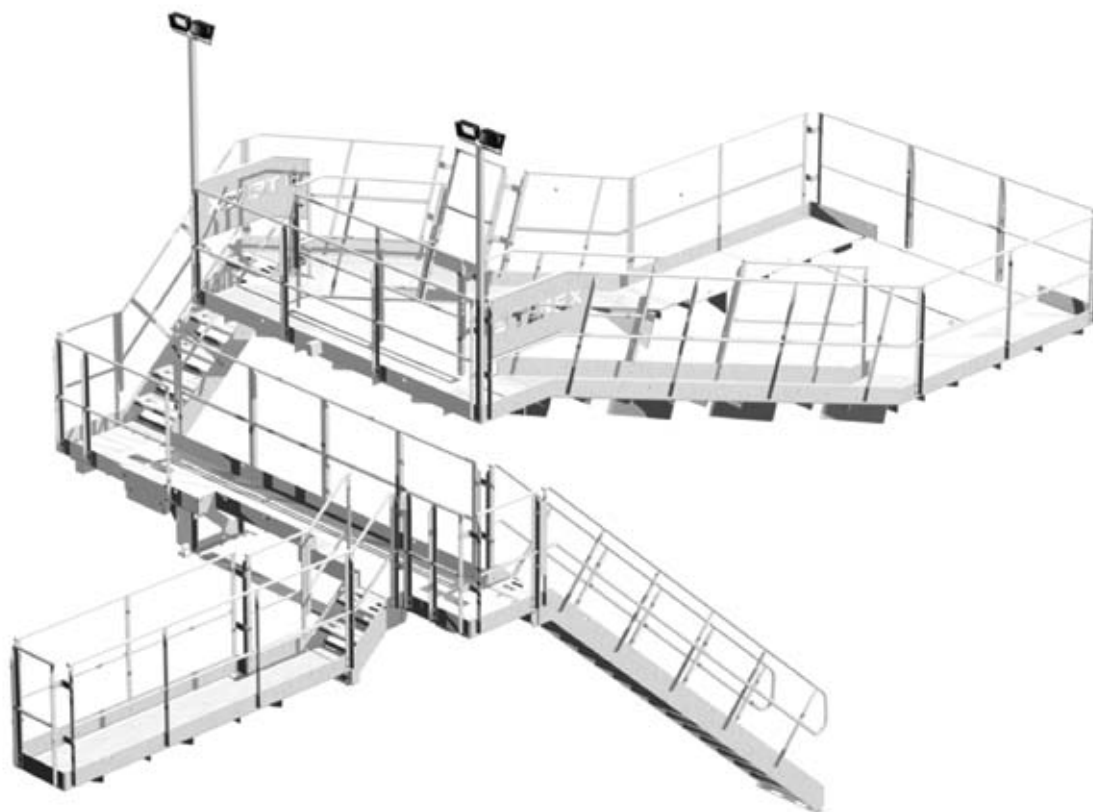
- Rigid – folded for transport
- Radial – skid mounted as standard
- Plain 26" (660mm) wide belt
- 20° angle
- Polyurethane tear drop scraper
- Direct drive electric gearbox
- 9.3m (30' 5") long
- 4.9m (16' 1") discharge height



Can't make out this change?

WALKWAYS

- Fully galvanised
- Walkway round both sides of machine
- Expanded metal walkway floors
- 600mm (24") wide
- Full 360° access



CONTROL SYSTEM

- Robust full color graphic HMI (Human Machine Interface)
- Automated Start / Stop sequence of all plant items
- Automated sequence shutdown on fault detection
- On-screen display of all key Parameters inc:
 - Inlet water Flow
 - Cyclone pressure
 - Hydraulic oil level and temperature
- Radio control of
 - Plant Start / Stop
 - Feeder Start / Stop
 - Sand Conveyor Radial Drive
 - Tipping Grid Raise / Lower
 - Plant Lighting On / Off



OPTIONS

- Telemetry System with remote communication of all alarms and status such as TPH via text message and / or email (can be tailored to exact requirements)
- All motors load currents and voltages

FEED SYSTEM (OPTIONAL)

HOPPER

CAPACITY	12m ³	(16yds ³)
GRID SPACING	100mm	(4")

2 DECK VIBRATING GRID

WORKING ANGLE	10-20°
TIPPING ANGLE	45° max
MOTOR	59cc/rev

POWERPACK

OPTION 1 POWER REQUIREMENTS (FEEDER ONLY)	37kW	(50hp)
OPTION 2 POWER REQUIREMENTS (FEEDER/RADIO TIPPING)	37kW	(50hp)
OPTION 3 POWER REQUIREMENTS (LIVE HEAD/FEEDER/RADIO TIPPING)	37kW	(50hp)

FEED CONVEYOR

LENGTH	18.7m	(61' 4")
BELT	1050mm	(41")
POWER REQUIRED	11Kw	(15hp)

TECHNICAL INFORMATION

SCREEN BOX

2 SAND, 2 AGG

2 SAND, 3 AGG

1 SAND, 2 AGG

1 SAND, 3 AGG

SCREENING AREA	4.9x1.5m (16'x5')	4.9x1.5m (16'x5')	4.9x1.5m (16'x5')	4.9x1.5m (16'x5')
NUMBER OF DECKS	2	3	2	3
POWER REQUIRED	15kW (20hp)	15kW (20hp)	15kW (20hp)	15kW (20hp)
MOUNTING	Spring	Spring	Spring	Spring
SCREEN BEARINGS	2 bearing	2 bearing	2 bearing	2 bearing
MAX SPRAYBAR WATER THROUGHPUT @ 2 BAR	235m ³ /hr (307yds ³)	340m ³ /hr (445yds ³)	235m ³ /hr (307yds ³)	340m ³ /hr (445yds ³)

SAND PLANT

DEWATERING SCREEN	3.7x1.5m (12'x5')	3.7x1.5m (12'x5')	3.7x1.5m (12'x5')	3.7x1.5m (12'x5')
DEWATERING SCREEN POWER REQUIRED	8KW (10HP)	8KW (10HP)	8KW (10HP)	8KW (10HP)
FINES PUMP	150/125 - 15kW	150/125 - 15kW		
COARSE PUMP	200/150 - 22kW	200/150 - 22kW	200/150 - 30kW	200/150 - 30kW

STOCKPILE CONVEYORS

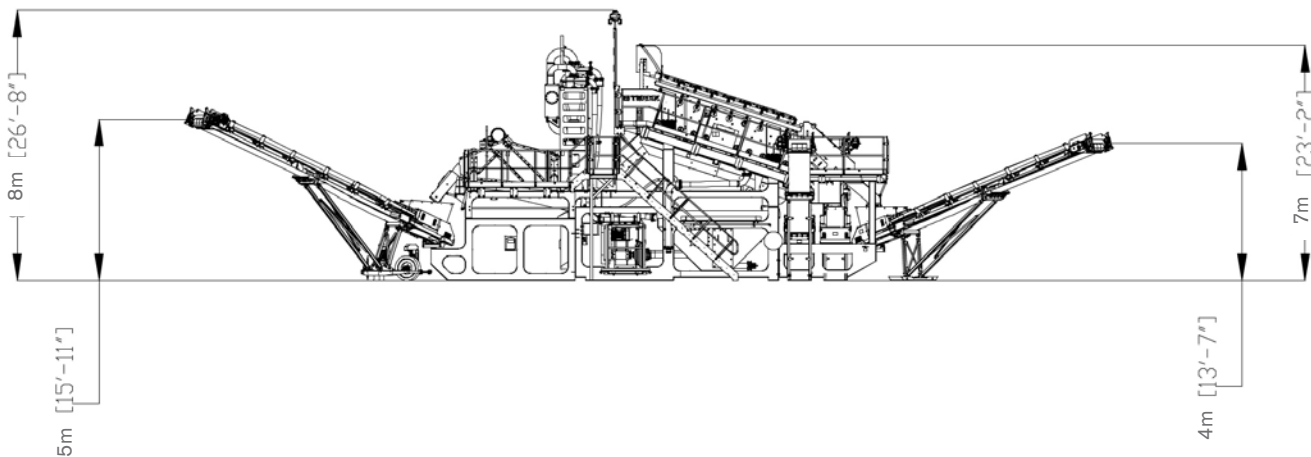
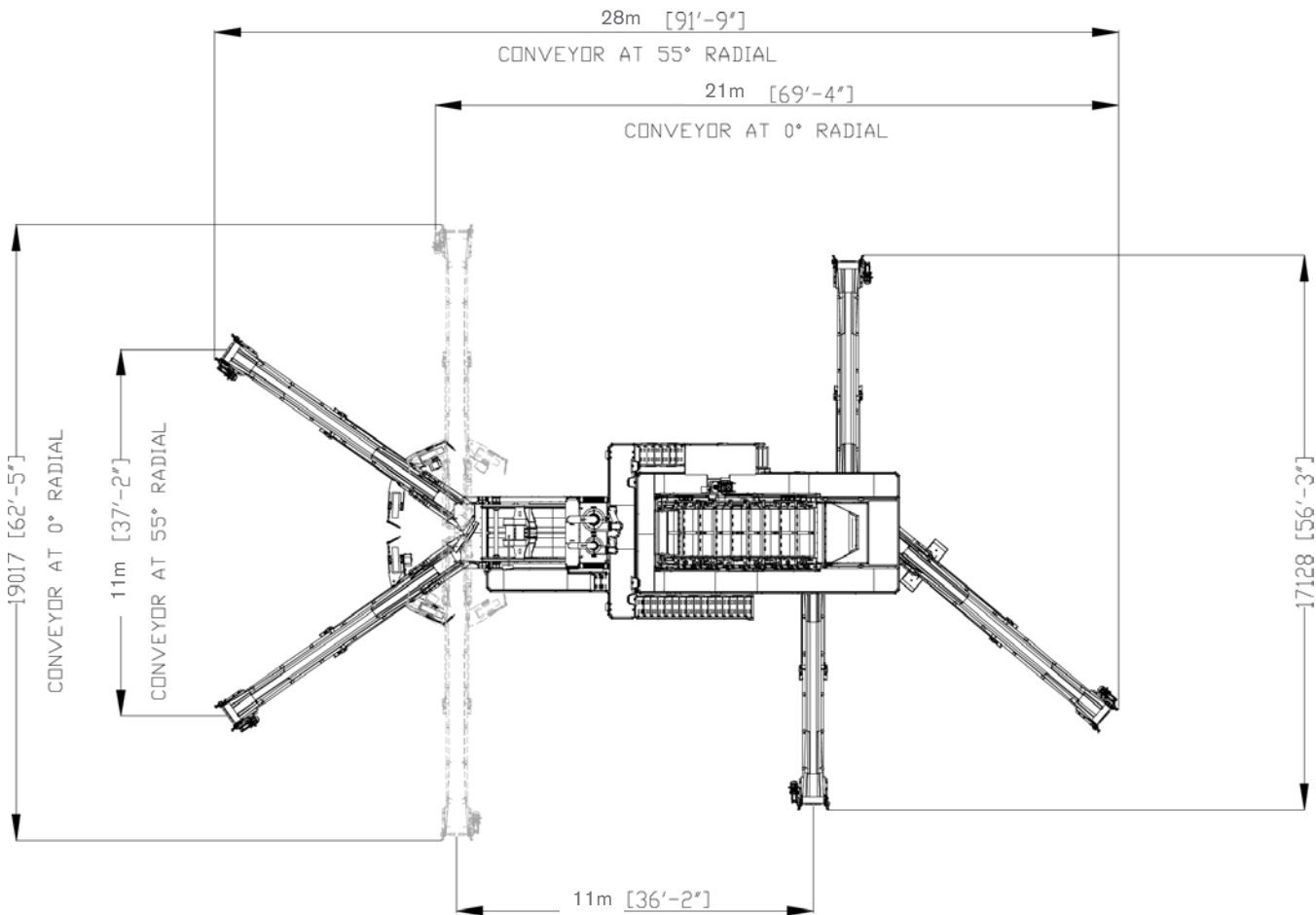
QUANTITY	4	5	3	4
LENGTH	9.3m (30' 5")	9.3m (30' 5")	9.3m (30' 5")	9.3m (30' 5")
BELT WIDTH	650mm (26")	650mm (26")	650mm (26")	650mm (26")
BELT TYPE	650mm EP315 3 ply plain x 3+1.5 covers	650mm EP315 3 ply plain x 3+1.5 covers	650mm EP315 3 ply plain x 3+1.5 covers	650mm EP315 3 ply plain x 3+1.5 covers
STOCKPILE CAPACITY - SAND	350m ³ (458yds ³) (per conveyor)	350m ³ (458yds ³) (per conveyor)	800m ³ (1046yds ³)	800m ³ (1046yds ³)
STOCKPILE CAPACITY - AGGREGATE	100m ³ (131yds ³)	100m ³ (131yds ³)	100m ³ (131yds ³)	100m ³ (131yds ³)
POWER REQUIRED	4kW (5hp) x 4	4kW (5hp) x 5	4kW (5hp) x 3	4kW (5hp) x 4
WHEEL DRIVE POWER REQUIREMENTS	0.37kW (0.5hp)	0.37kW (0.5hp)	0.37kW (0.5hp)	0.37kW (0.5hp)

POWER AND WATER REQUIREMENT

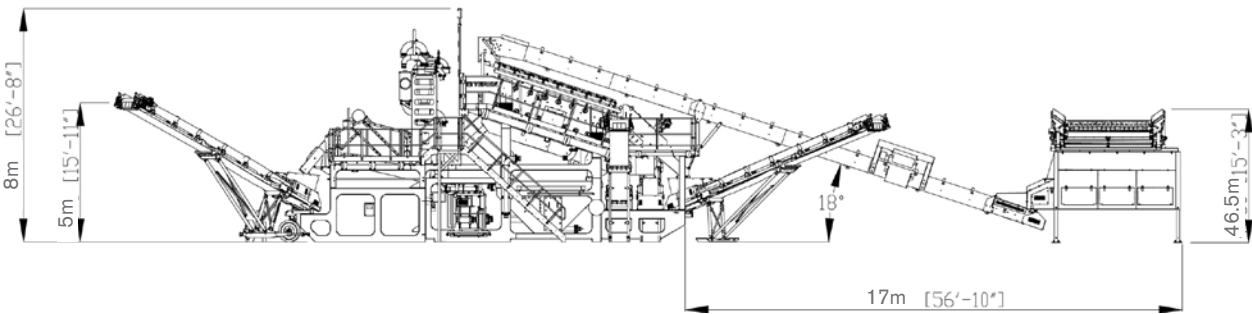
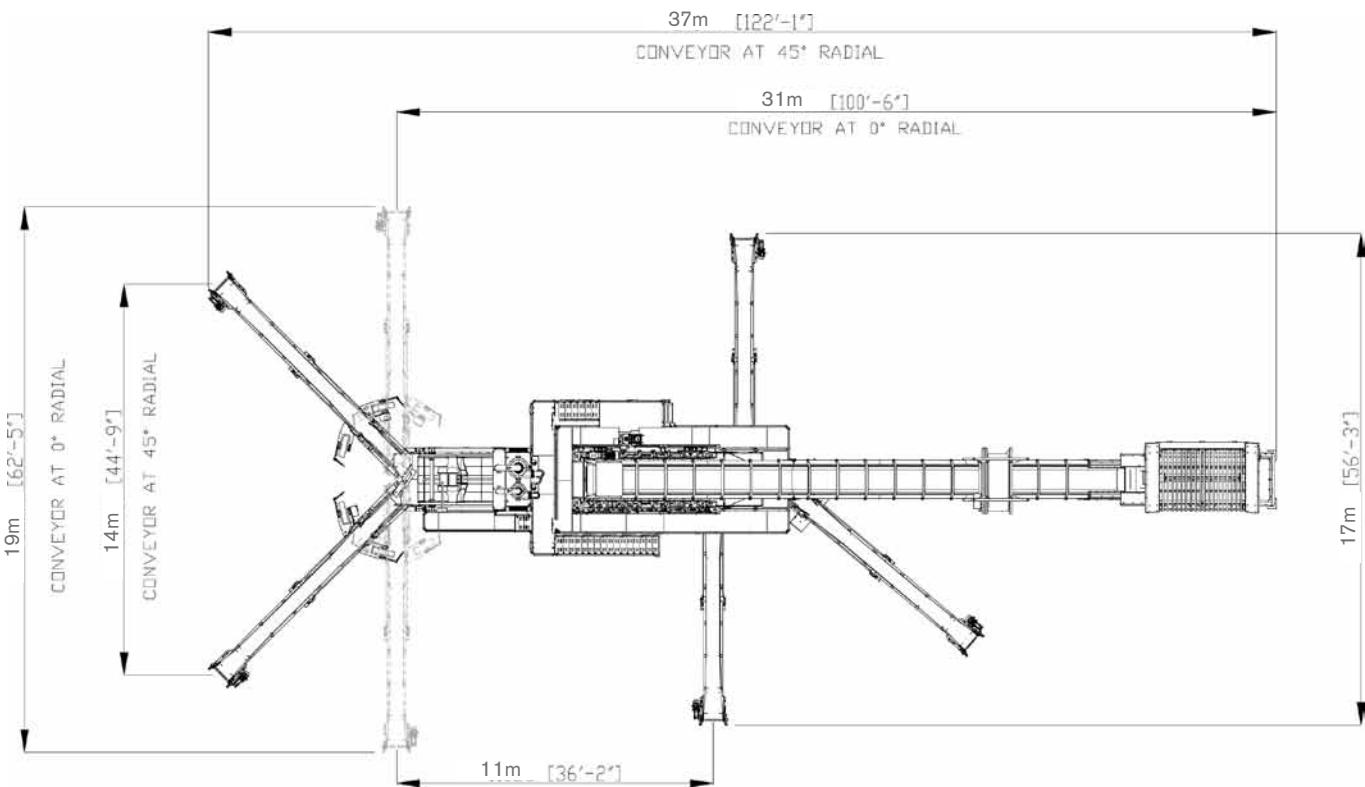
MAXIMUM POWER REQUIREMENT	125.74kW (166.29hp)	128.74kW (172.64hp)	113.37kW (152.03hp)	117.37kW (157.40hp)
AVERAGE WATER REQUIREMENT	250m ³ /hr (327yds ³ /hr)	340m ³ /hr (445yrd ³ /hr)	250m ³ /hr (327yds ³ /hr)	340m ³ /hr (445yrd ³ /hr)

DIMENSIONS

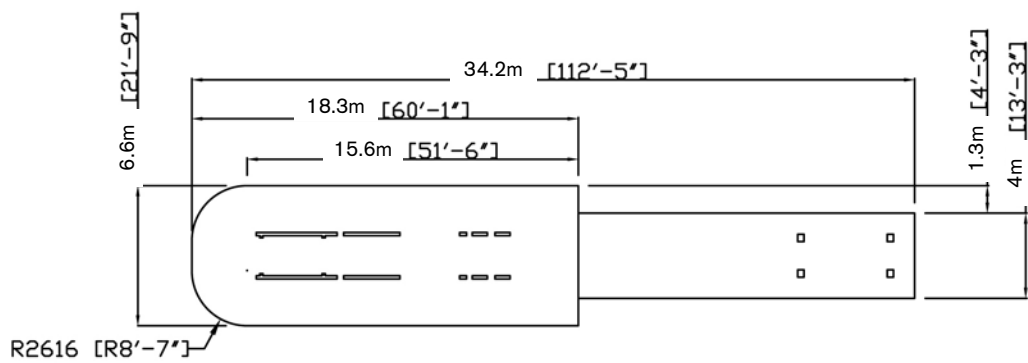
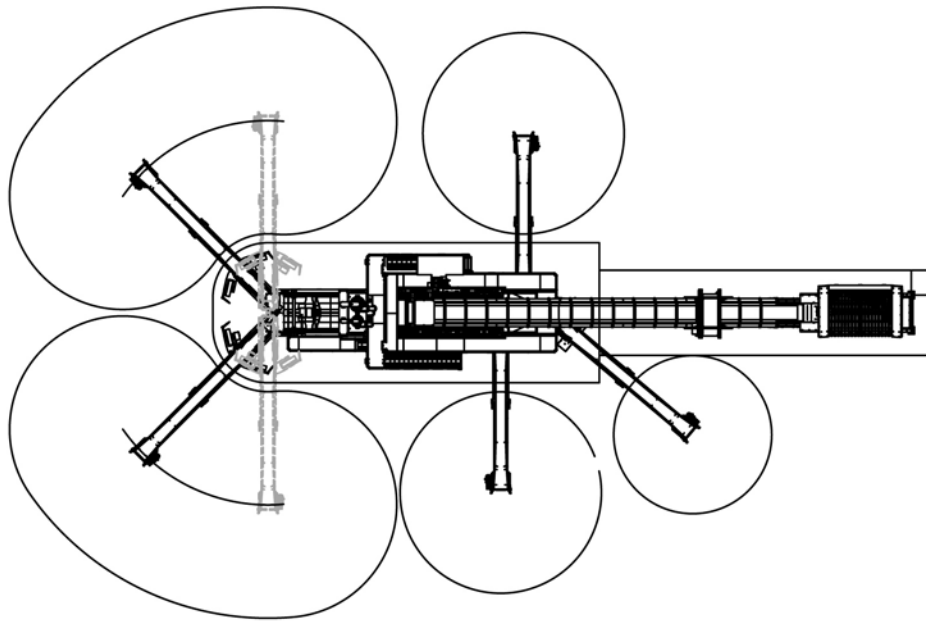
WORKING DIMENSIONS (WITHOUT FEED SYSTEM)



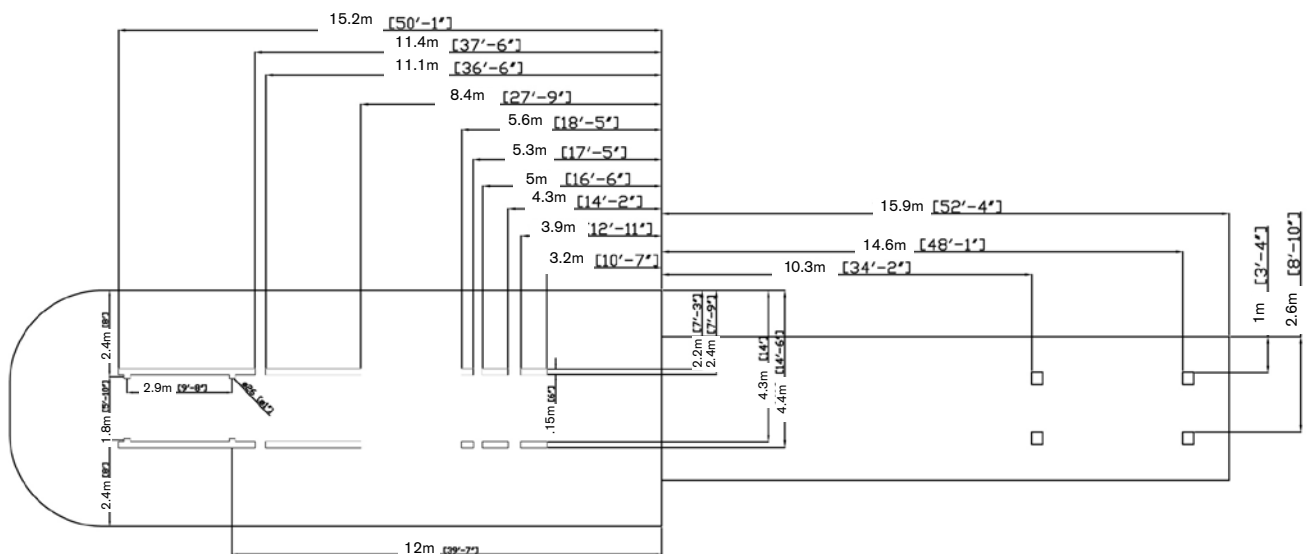
WORKING DIMENSIONS (WITH FEED SYSTEM)



AGGRESAND PLINTH



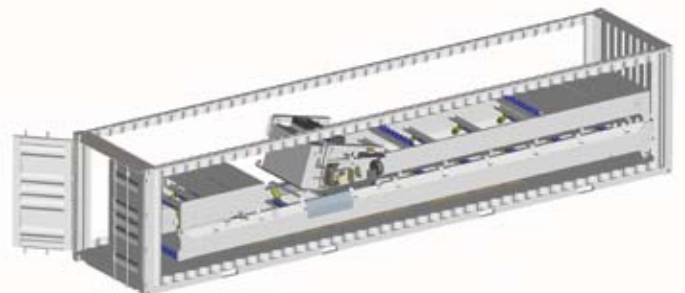
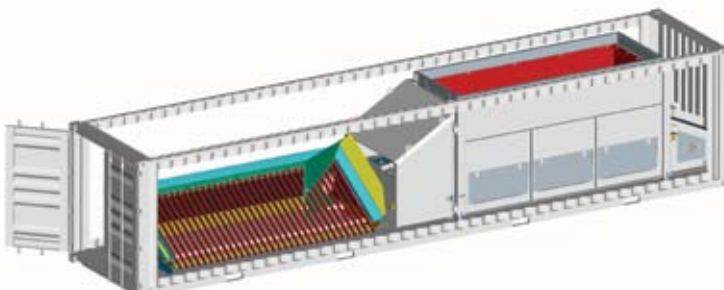
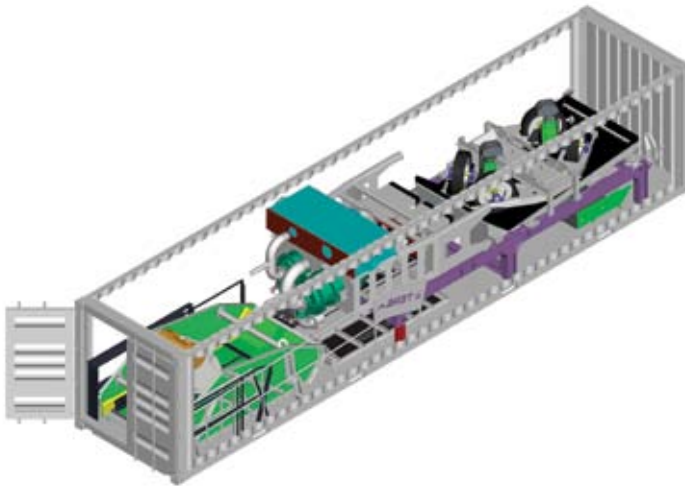
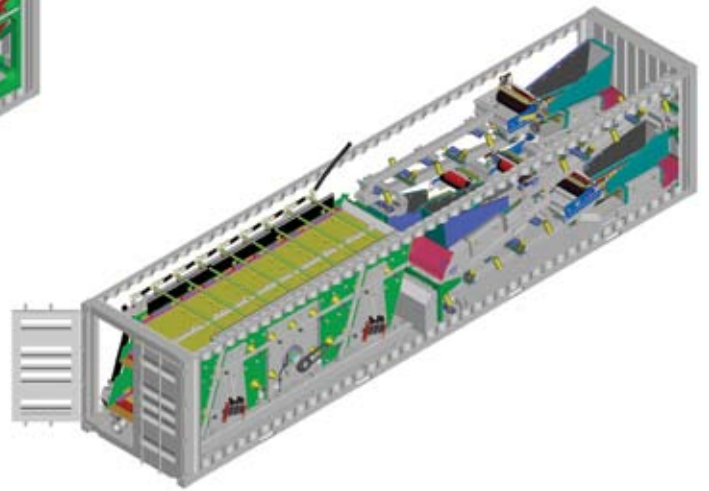
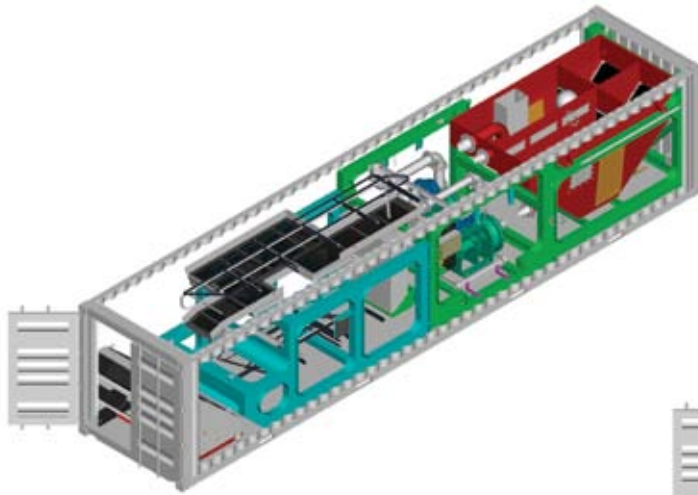
AGGRESAND FOOTPRINT



AGGRESAND

STATIC WEIGHT OF MACHINE ON FOOT PRINT (EMPTY)	40,500kg
DYNAMIC WEIGHT OF MACHINE ON FOOT PRINT (FULL)	52,200kg ±802kg (Vertical) ±401kg (Horizontal)

TRANSPORT CONTAINERS





Aggresand 165, Ireland



Aggregate Screen Fitted with Isolated Spraybars



Integral Aggregate Stockpiling Conveyors



Aggresand 165, High Capacity Sand Plant, USA



3 Deck Aggregate Screen With Rolling Chute For Access



Radial Conveyors



Cutting Edge Control Panel



Centrifugal Pumps, Roll out for Service Access

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