

# AGGRESAND<sup>™</sup> 206



## Features:

- Modular Design For Quick Set-Up
- Automated
- Touch Screen Control
- Pre-Wired & Pre-Plumbed
- Single Water & Electrical Connection Points

AGGREGATES 

RECYCLING 

INDUSTRIAL SANDS 

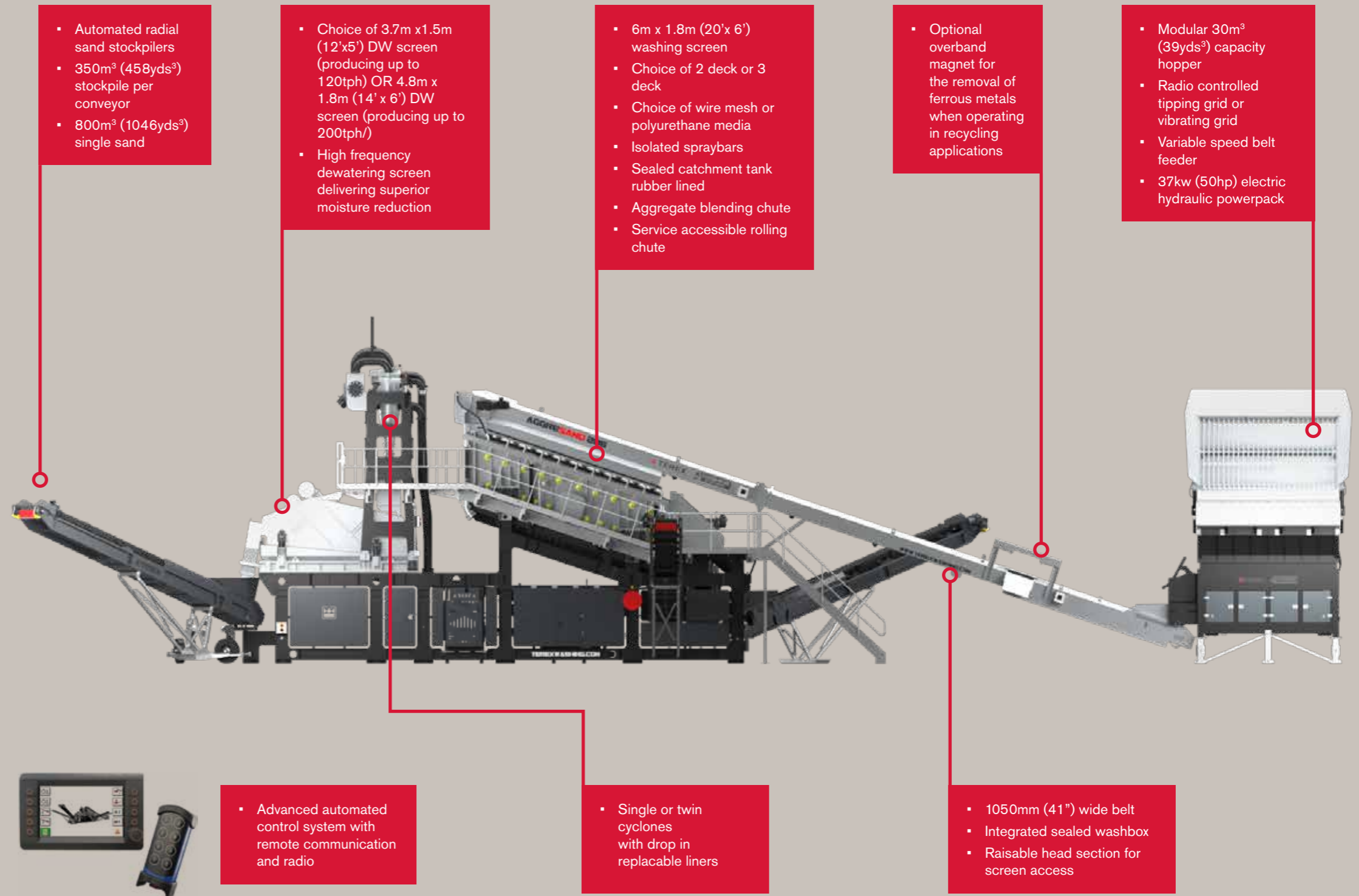
MINING 

AggreSand™ is a highly versatile integrated washing station with outstanding performance capability across a wide range of materials and the ability to offer up to 5 washed and sized products. It's readily portable format makes it particularly suitable for green-field applications / contractor use / temporary planning permission sites but operators more used to static installations will still appreciate the small footprint and minimal site preparations required. In all cases installation time is significantly less than conventional builds thanks to the high level of factory pre-fitting and connections.

The no-compromise design ethos adapted ensures maximum serviceability and performance despite the highly integrated and compact nature of the system with numerous innovative features including easily removed pumps, ready access to screening media and intuitive controls. The range includes numerous modular configurations.

### FEATURES & BENEFITS

- Up to 3 washed aggregates & 2 washed sands
- Modular design with 'plug and play' electrical connections for quick set-up
- Pre-wired & pre-plumbed with single connection points
- Automated touch screen control providing all-round plant information
- Choice of grid and screen media options to suit your application
- Intelligent low level and easy access features for maintenance and wash down
- Transportable in 4-6 containers + 1 flat rack (boat) or 4-6 euroliners + 1 flat trailer (road).



- Automated radial sand stockpilers
- 350m<sup>3</sup> (458yds<sup>3</sup>) stockpile per conveyor
- 800m<sup>3</sup> (1046yds<sup>3</sup>) single sand

- Choice of 3.7m x 1.5m (12'x5') DW screen (producing up to 120tph) OR 4.8m x 1.8m (14' x 6') DW screen (producing up to 200tph/)
- High frequency dewatering screen delivering superior moisture reduction

- 6m x 1.8m (20'x 6') washing screen
- Choice of 2 deck or 3 deck
- Choice of wire mesh or polyurethane media
- Isolated spraybars
- Sealed catchment tank rubber lined
- Aggregate blending chute
- Service accessible rolling chute

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

- Modular 30m<sup>3</sup> (39yds<sup>3</sup>) capacity hopper
- Radio controlled tipping grid or vibrating grid
- Variable speed belt feeder
- 37kw (50hp) electric hydraulic powerpack

- Advanced automated control system with remote communication and radio

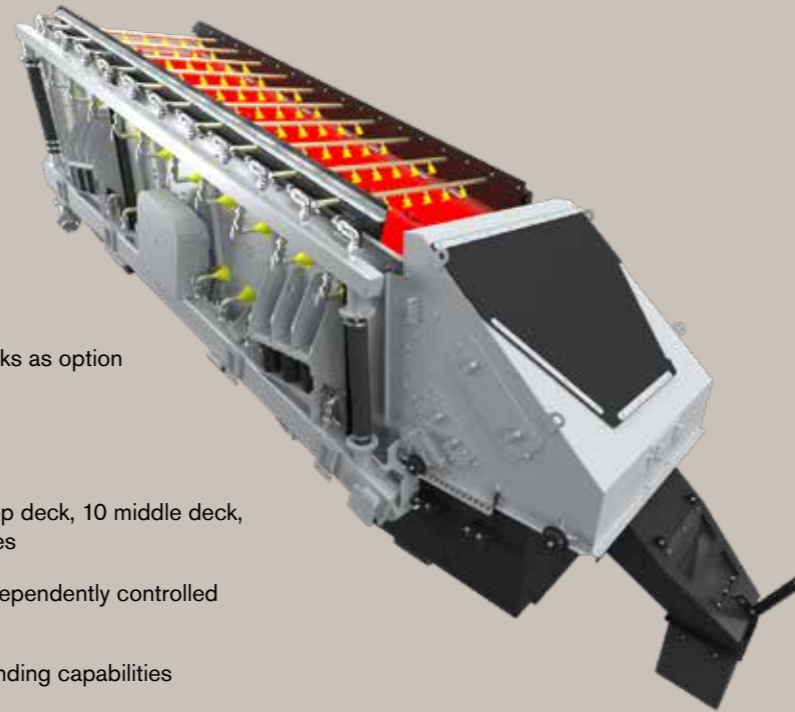
- Single or twin cyclones with drop in replaceable liners

- 1050mm (41") wide belt
- Integrated sealed washbox
- Raisable head section for screen access

Model shown is Aggresand H30

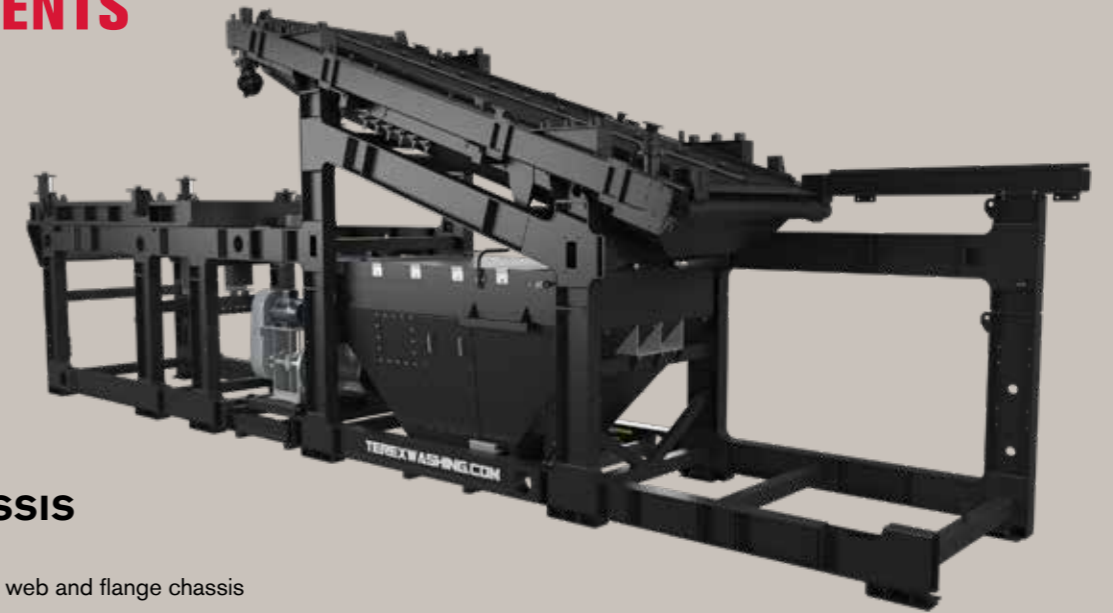


## AGGREGATE SCREEN



- Aggresand 206 - 20' x 6' (6m x 1.8m) Screen
- 2 or 3 deck screen box option
- Mesh deck as standard, polyurethane modular decks as option
- Electrically driven
- Optimum 18 degree working angle
- Independently controlled isolated spray bars: 10 top deck, 10 middle deck, 8 bottom deck, complete with fan tail plastic nozzles
- Enclosed rubber lined wash box complete with independently controlled spray bar
- 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

## COMPONENTS



### CENTRE CHASSIS

- Heavy duty, modular web and flange chassis
- Rubber lined slurry pump(s) situated upon roll out maintenance platforms
- Rubber or ceramic lined bends
- Water connection
- Large volume self regulating sump tank
- Split tank for double grade (double grade only)
- 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
- Plant wash down hose on retractable reel (option)

## SAND PLANT



- Aggresand™ 206 - High frequency 4.3m x 1.8m (14' x 6') dewatering screen - dewatering up to 200TPH of sand
- Polyurethane modules and side protection bars
- Moulded central division plate (double grade only)
- Catch box for screen underflow
- Single or twin cyclones with drop in replaceable liners
- Rubber or ceramic lined inlet bends
- Rubber lined underflow boxes - c/w quick release lids
- Rubber lined blending box - c/w quick release lids (double grade only)
- Polyethylene wear lining in discharge chute
- Adjustable discharge blending chute – double grade only
- Electrical monitoring of cyclone inlet pressure

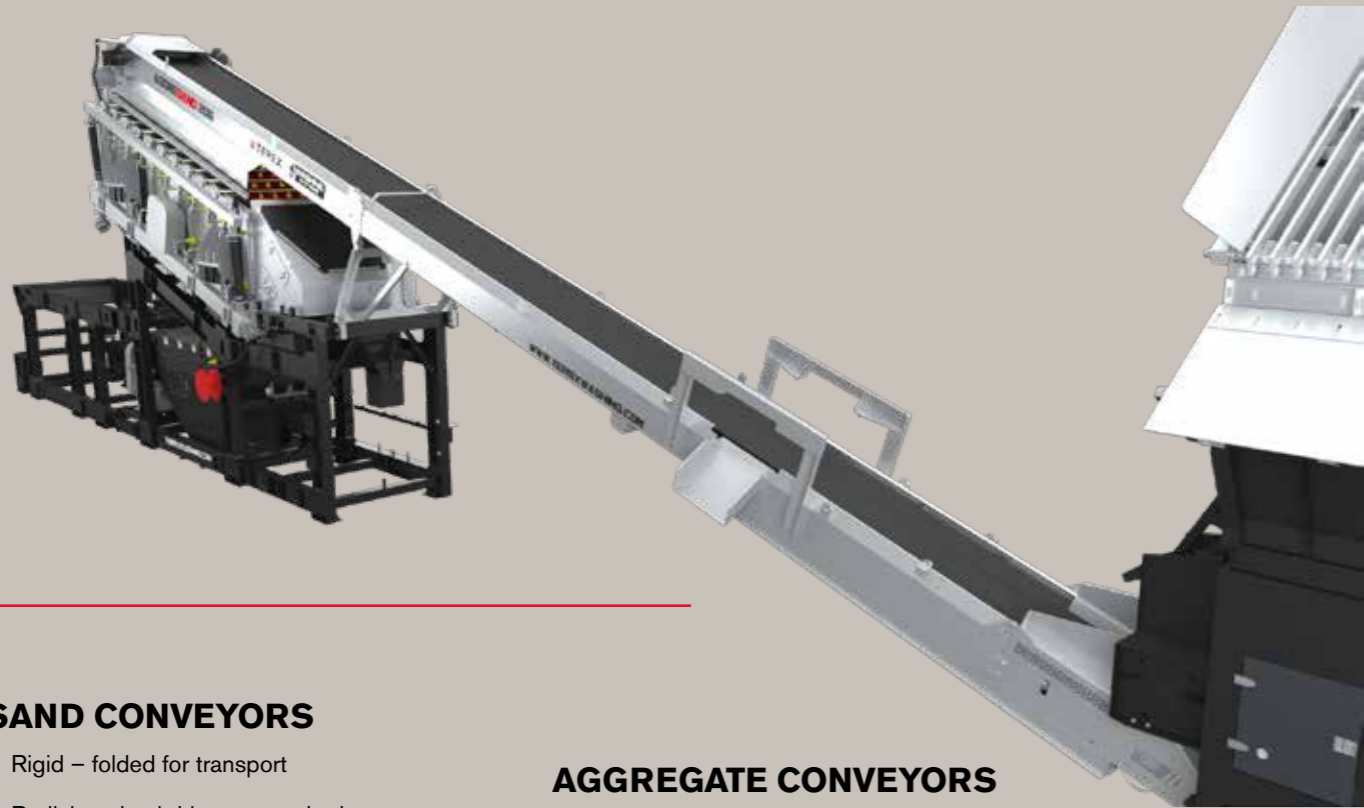


### FEEDER

- Modular 12m<sup>3</sup> (16yds<sup>3</sup>) capacity hopper
- Optional 30m<sup>3</sup> (39yds<sup>3</sup>) capacity hopper available
- Radio controlled tipping grid
- Variable speed belt feeder

## CONVEYOR

- 1050mm (41") wide belt
- Integrated sealed washbox
- Raisable head section for screen access
- Optional overband magnet for the removal of ferrous metals when operating in recycling applications



## SAND CONVEYORS

- Rigid – folded for transport
- Radial – wheel drive as standard
- Plain 26" (660mm) wide belt
- 20° angle
- High quality PU scrapers
- Direct drive electric gearbox
- 9.3m (30' 5") long
- 4.9m (16' 1") discharge height

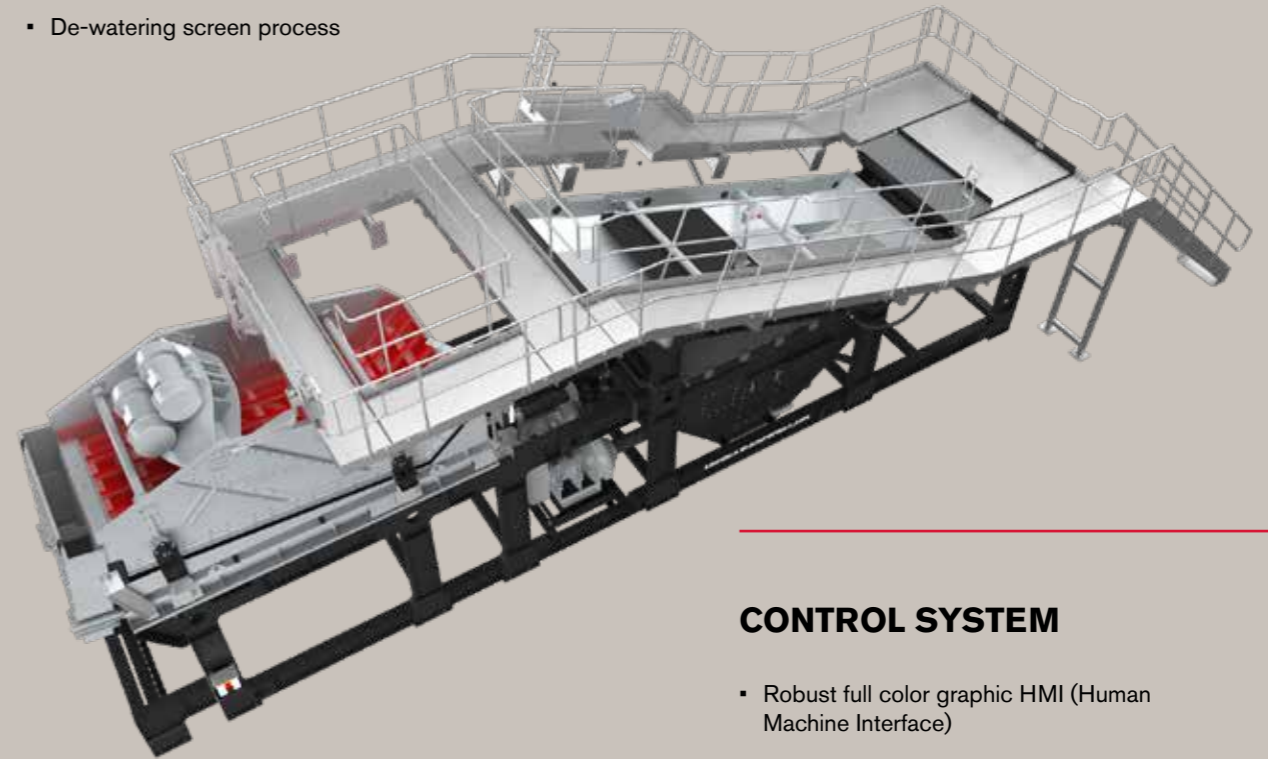
## AGGREGATE CONVEYORS

- Reconfigurable side conveyors (left or right)
- Plain 26" (660mm) wide belt
- 18 degree angle
- High quality tungsten tip scraper on mid-fines conveyor
- High quality PU scraper on mid-overs and over size conveyor
- 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



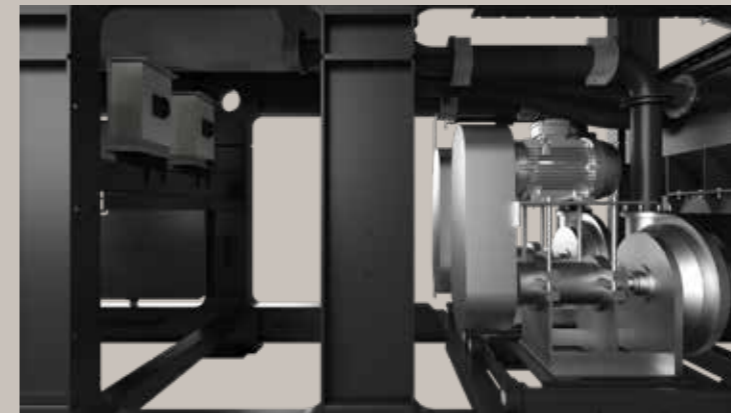
## ACCESS

- Galvanised access platforms & guard rails
- Access around both sides of machine
- GRP walkway floors
- De-watering screen process



## 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
- All motors load currents and voltages
- Radio control of
  - Plant start / stop
  - Feeder start / stop
  - Sand conveyor radial drive
  - Tipping grid raise / lower
  - Plant lighting on / off





# AGGRESAND™ 206

## TECHNICAL INFORMATION

SCREEN BOX	2 AGG, 2 SAND	3 AGG, 2 SAND	2 AGG, 1 SAND	3 AGG, 1 SAND
Screen box				
Screening area	6m x 1.8m (20'x6")	6m x 1.8m (20'x6")	6m x 1.8m (20'x6")	6m x 1.8m (20'x6")
Number of decks	2	3	2	3
Power required	22kW (30hp)	22kW (30hp)	22kW (30hp)	22kW (30hp)
Mounting	Spring	Spring	Spring	Spring
Screen bearings	2 bearing	2 bearing	2 bearing	2 bearing
Max spraybar water throughput @ 2 bar	268m³/hr	400m³/hr	268m³/hr	400m³/hr

### SAND PLANT

Dewatering screen	4.3m x 1.8m (14'x6")	4.3m x 1.8m (14'x6")	4.3m x 1.8m (14'x6")	4.3m x 1.8m (14'x6")
Screen power required	12.4kW (16.5hp)	12.4kW (16.5hp)	12.4kW (16.5hp)	12.4kW (16.5hp)
Fines cyclone	1 x T500	1 x T500	2 x T660	2 x T660
Fines pump	200/150 - 22kW (29.5hp)	200/150 - 22kW (29.5hp)	250/200 - 45kW (60hp)	250/200 - 45kW (60hp)
Coarse cyclone	1 x T660	1 x T660	-	-
Coarse pump	200/150 - 30kW (40hp)	200/150 - 30kW (40hp)	-	-

### STOCKPILE CONVEYORS (All product conveyors are optional, and can be offered with standard TC range conveyors if required)

Quantity	4	5	3	4
Length	9.3m	9.3m	9.3m	9.3m
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	350m³	350m³	800m³	800m³
Stockpile capacity - aggregate	100m³	100m³	100m³	100m³
Power required	4 x 4kW (5hp)	5 x 4kW (5hp)	3 x 4kW (5hp)	4 x 4kW (5hp)
Radial wheel drive power requirements	2 x 0.37kW (0.5hp)	2 x 0.37kW (0.5hp)	1 x 0.37kW (0.5hp)	1 x 0.37kW (0.5hp)

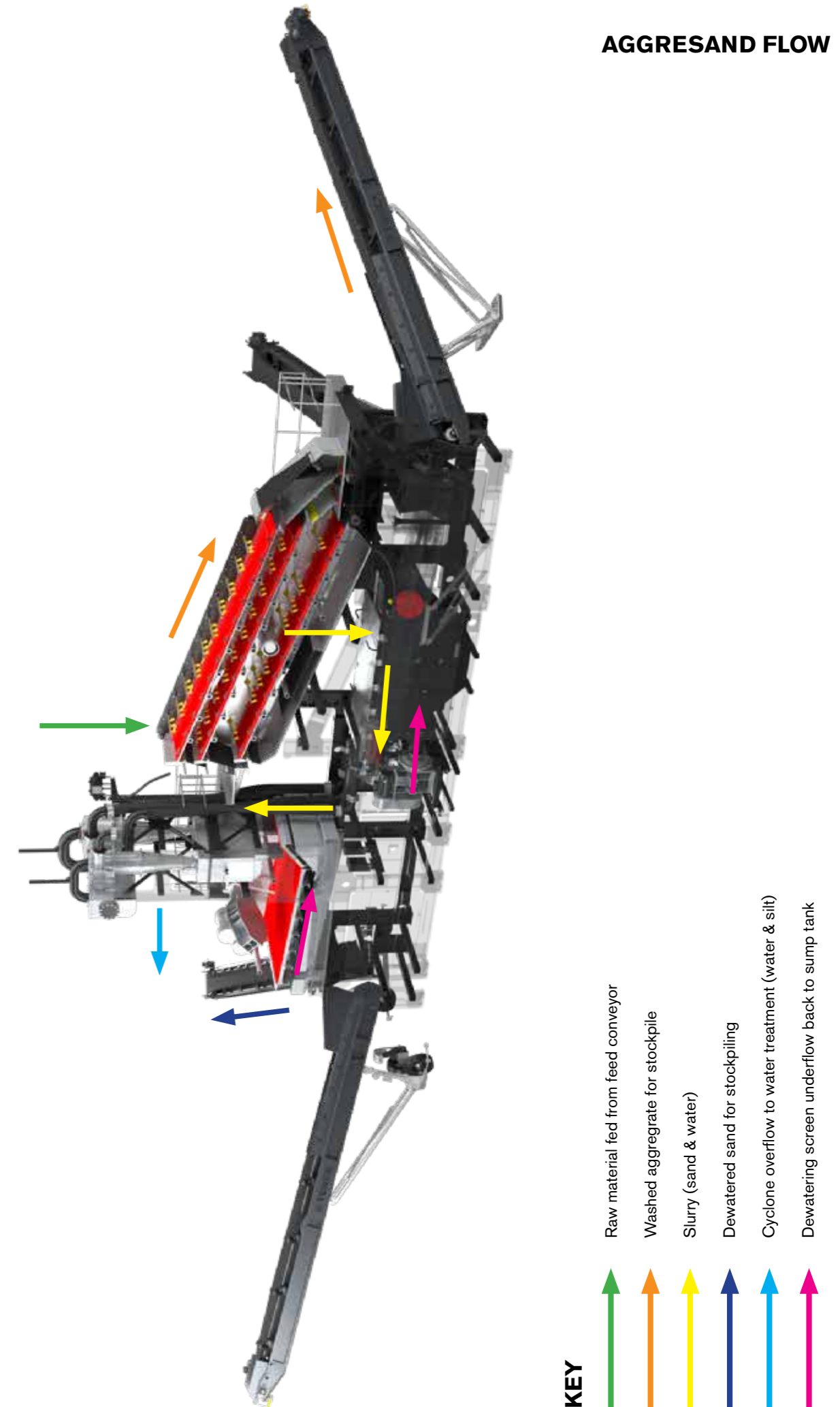
### POWER AND WATER REQUIREMENT

Typical power requirements	162.3kW (218hp)	166.3kW (223hp)	154.5kW (207hp)	157.5kW (211hp)
Water requirements	250-500m³/hr	250-500m³/hr	250-500m³/hr	250-500m³/hr

### Dimensions

Dimensions [mm (Imperial)]	H9	H12	H20	H25	H30
Total Length	5520 (18'1")	6650 (21'10")	4920 (16'2")	4920 (16'2")	5350 (17'7")
Standard Grid Length	4750 (15'7")	4750 (15'7")	4180 (13'8")	4180 (13'8")	4180 (13'8")
Hopper Width	1840 (6'0")	2030 (6'8")	3200 (10'6")	3200 (10'6")	3200 (10'6")
Max Feed Height*	4360 (14'4")	5460 (17'11")	6560 (21'6")	7320 (24'0")	7320 (24'0")
Min Feed Height*	4060 (13'4")	4650 (15'3")	N/A	N/A	N/A
Max Discharge Height*	1530 (5'0")	2330 (7'8")	1420 (4'8")	1420 (4'8")	2010 (6'7")
Min Discharge Height*	1230 (4'0")	1520 (5'0")	N/A	N/A	1410 (4'8")
Vibrating Grid Length	3970 (13'0")	3970 (13'0")	N/A	N/A	N/A
Reject Chutes Total Width	4470 (14'8")	4470 (14'8")	4080 (13'4")	4080 (13'4")	4370 (14'4")

## AGGRESAND FLOW





# AGGRESAND™ 206







**WASHING AS IT SHOULD BE**



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## **TEREX WASHING SYSTEMS**

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