

AggreSand



FEATURES

- 3 Aggregates, 2 Sand, 1 Machine
- Fully Modular
- Fully Automated
- Radio Controlled
- Containerised Transport
- Pre Wired & Pre Plumbed
- 1 Day Set-Up
- 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
- Gaps in chassis for wash down

APPLICATIONS

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

OPTIONS

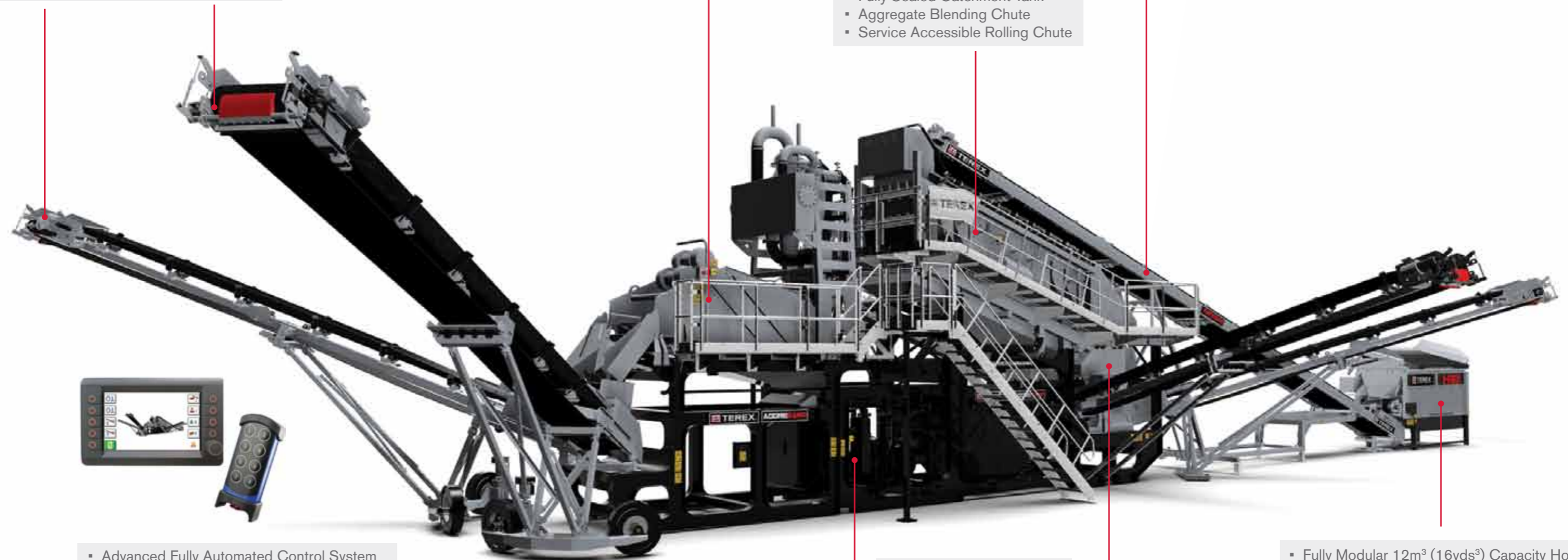
- High capacity sand option (200tph)
- Single sand
- 2 deck

- Automated Radial Sand Stockpilers
- 350m³ (458yds³) Stockpile Per Conveyor

- 3.7m x 1.5m (12'x5') DW Screen
- Twin Sand Product
- High Energy Dewatering Screen Delivering Superior Moisture Reduction

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

- 1000mm (39") Wide Belt
- Integrated Sealed Washbox
- Raisable Head Section For Screen Access

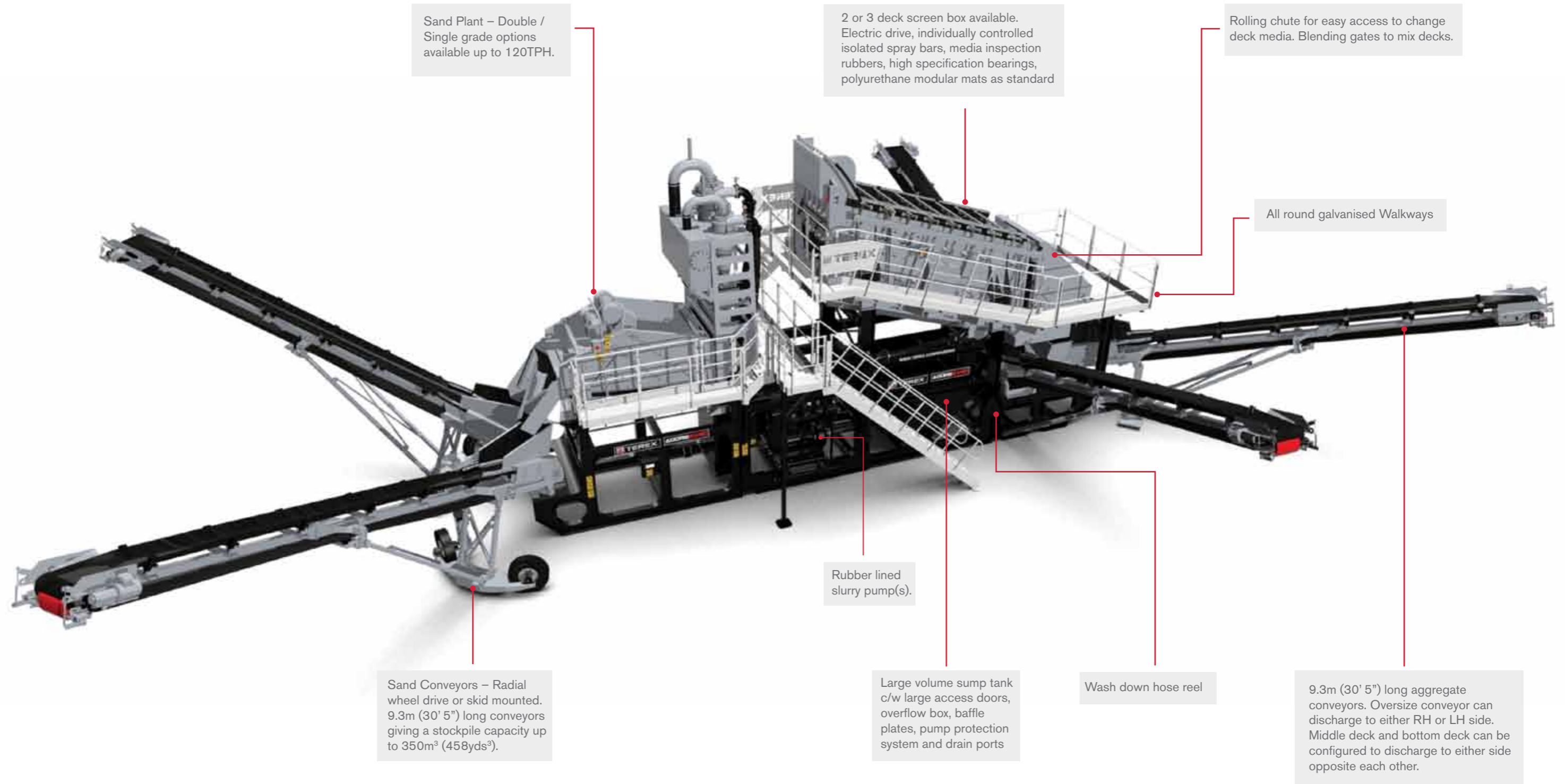


- Advanced Fully Automated Control System With Remote Communication And Radio Control

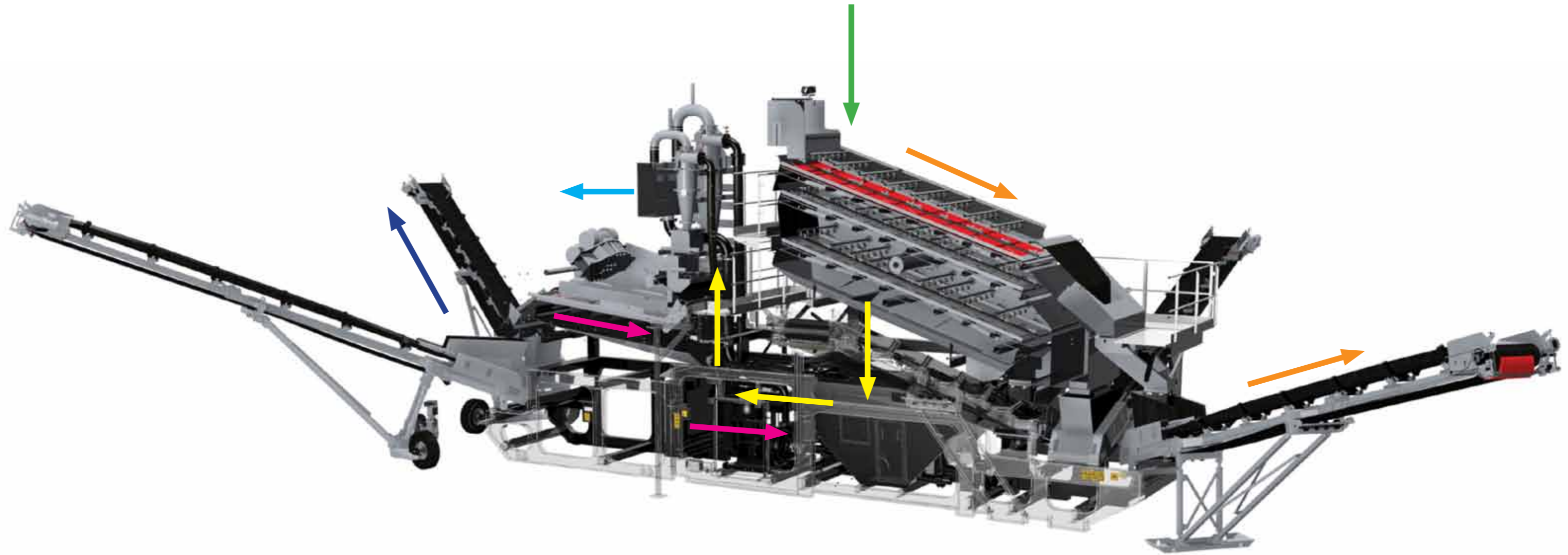
- Roll-In / Roll-Out Pumps For Easy Maintenance

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



AGGRESAND KEY FEATURES



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

- 2 or 3 deck Screen box option
- Electrically driven
- Fixed 18 degree working angle
- Spring mounted
- 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
- Polyurethane modular decks as standard (mesh 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
- Pressure clock on manifold
- Inspection flaps to view screen media



CENTRE CHASSIS

- Rubber lined slurry pump(s) situated upon roll out maintenance platforms
- Ceramic lined bends
- One point water feed
- Pre-wired control panel with external HMI panel
- Large volume sump tank
- Plant wash down hose on retractable reel
- 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



SAND PLANT

- High energy 3.7m x1.5m (12'x5') 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 board in discharge chute
- Adjustable discharge blending chute – double grade only
- Pressure gauge to monitor cyclone inlet pressure
- High specification cyclone inlet hoses c/w flanges



AGGREGATE CONVEYORS

- Reconfigurable Conveyors
- Plain 26" (660mm) wide belt
- 18 degree angle
- SCS tear drop scraper (option)
- 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

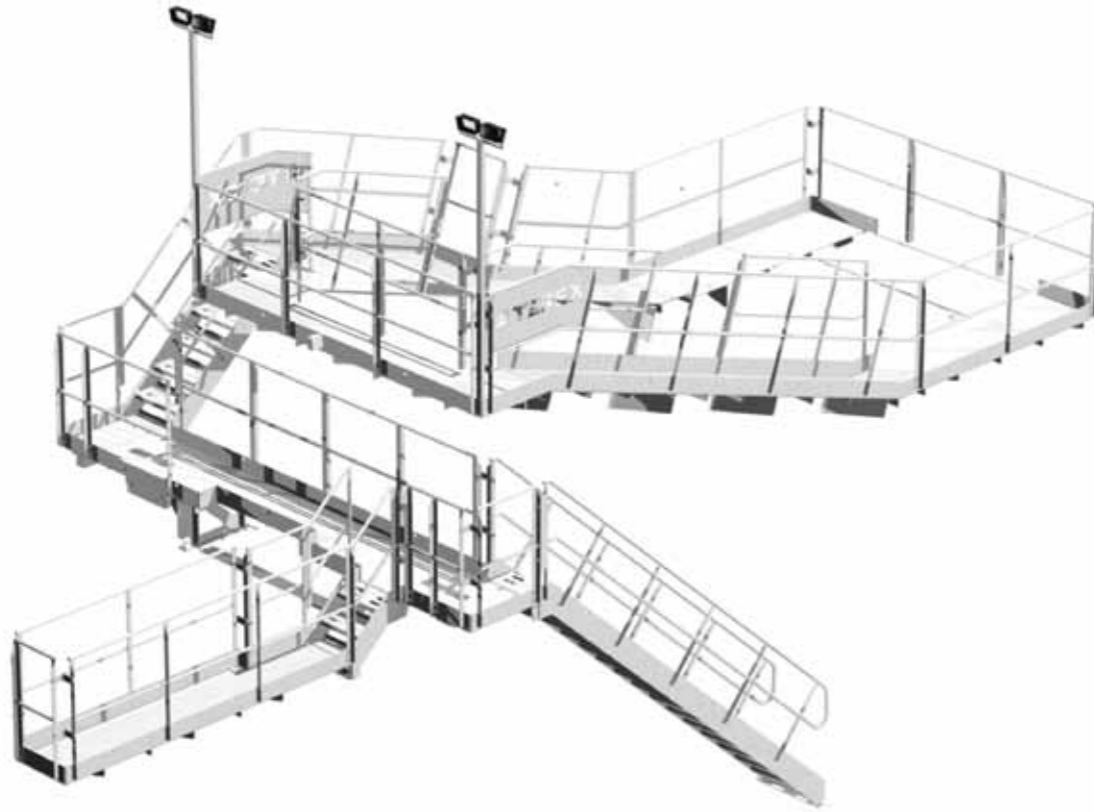
SAND CONVEYORS

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



WALKWAYS

- Galvanised
- Walkway round both sides of machine
- Expanded metal walkway floors
- Curved ends on handrails
- 600mm (24") wide



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



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)

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 | 1000mm | (39") |
| 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) |
| 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 |

SAND PLANT

STOCKPILE CONVEYORS

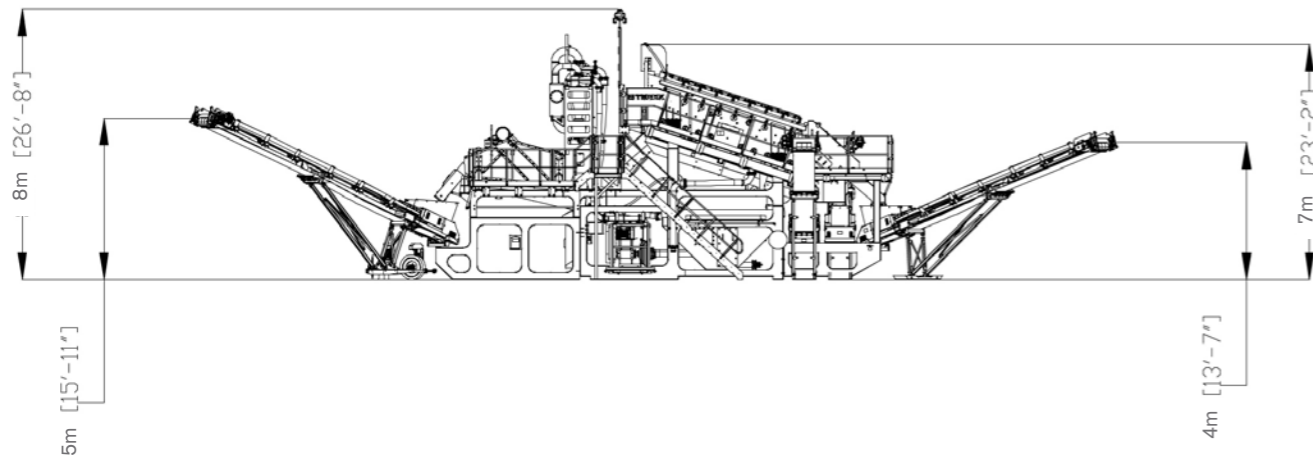
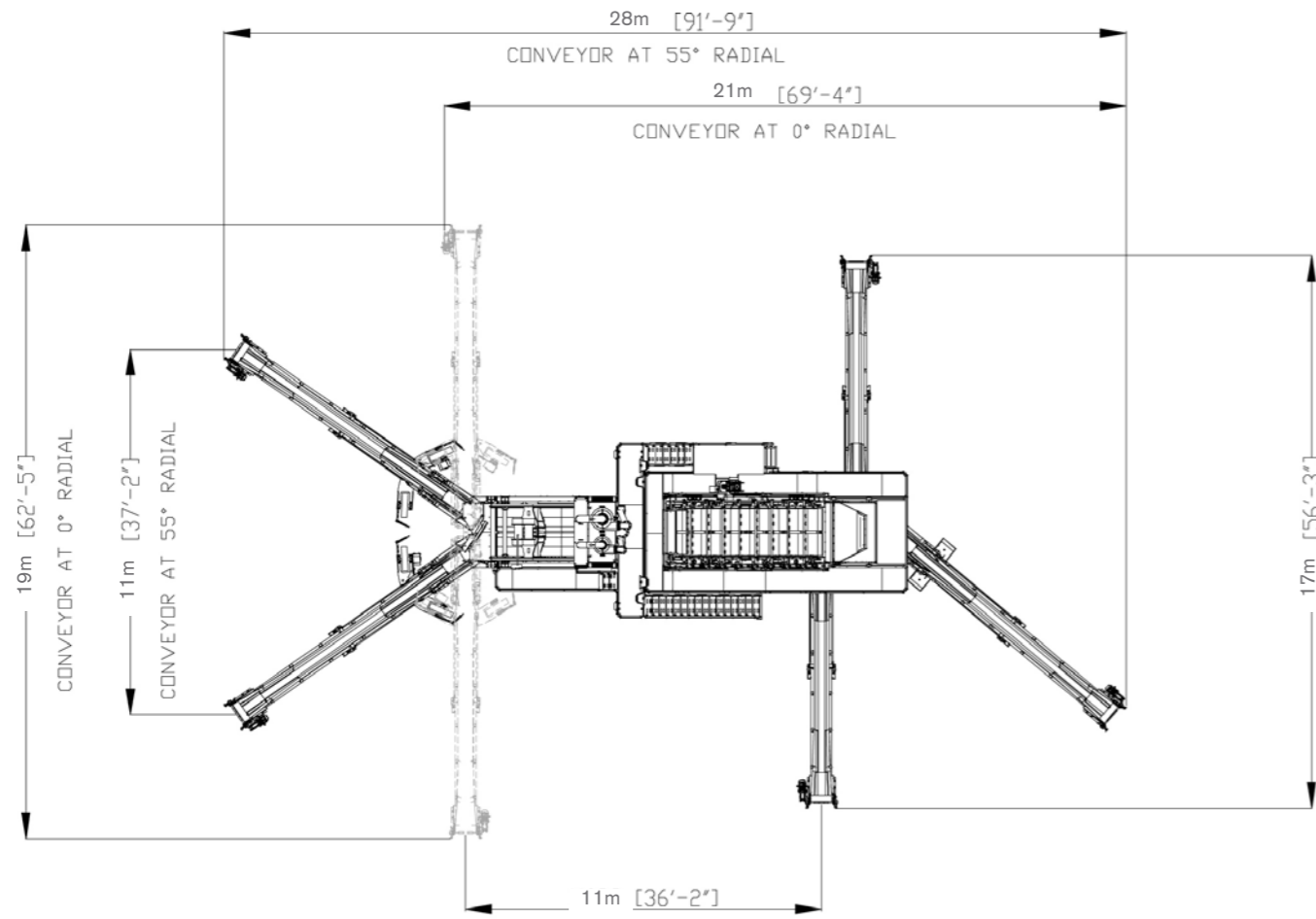
| QUANTITY | 4 | 5 | 3 | 4 |
|--------------------------------|---|---|---|---|
| LENGTH | 9.3m (30' 5") | 9.3m (30' 5") | 9.3m (30' 5") | 9.3m (30' 5") |
| BELT WIDTH | 650mm (26") | 650mm (26") | 650mm (26") | 650mm (26") |
| BELT TYPE | 650mm EP315 3 ply plain x 3+1.5 covers | 650mm EP315 3 ply plain 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

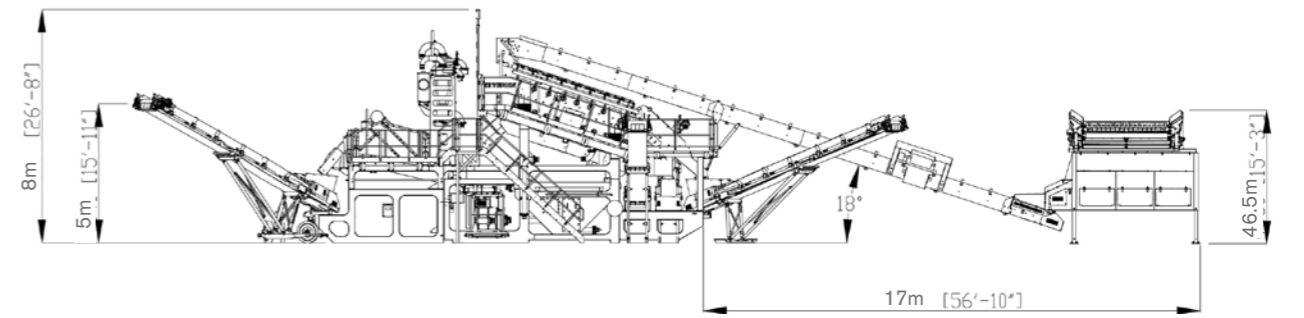
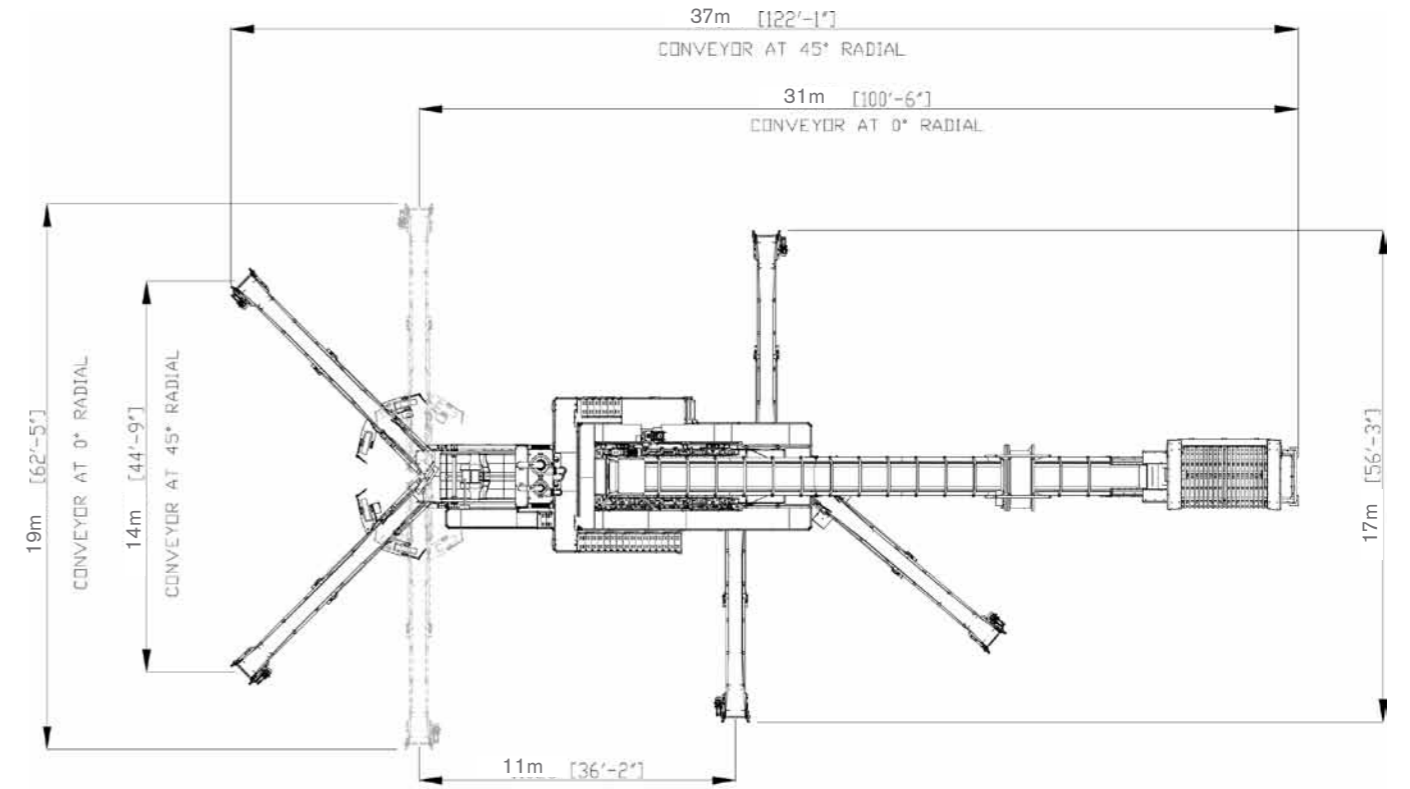
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|---------------------------|---|---|---|---|
| MAXIMUM POWER REQUIREMENT | 125.74kW (166.29hp) | 128.74kW (172.64hp) | 113.37kW (152.03hp) | 117.37kW (157.40hp) |
| AVERAGE WATER REQUIREMENT | 250m ³ /hr (327yds ³ /hr) | 250m ³ /hr (327yds ³ /hr)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

DIMENSIONS

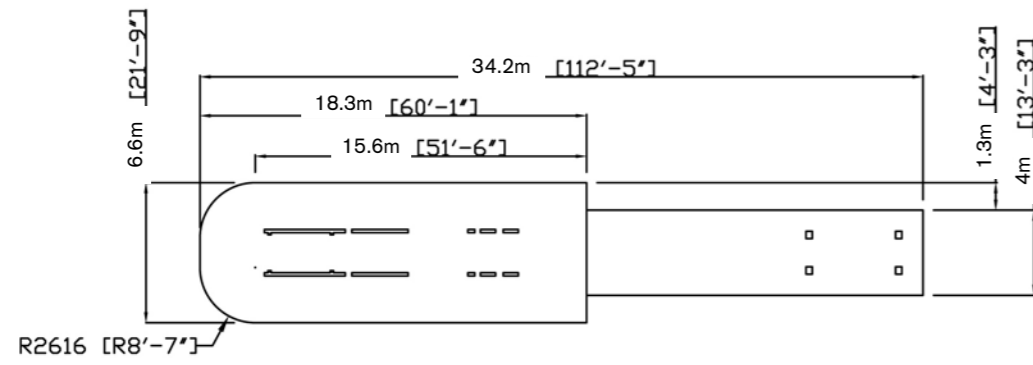
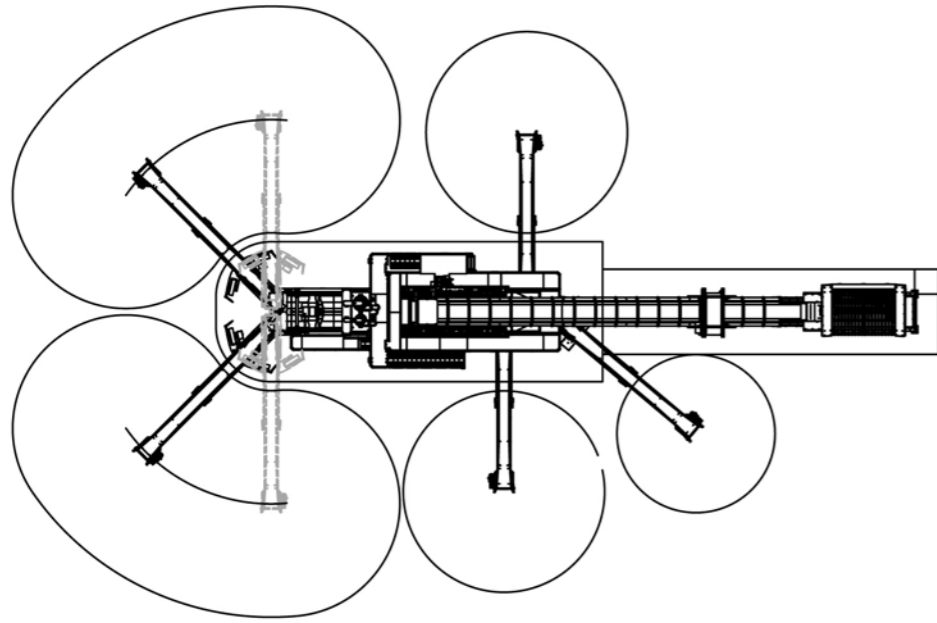
WORKING DIMENSIONS (WITHOUT FEED SYSTEM)



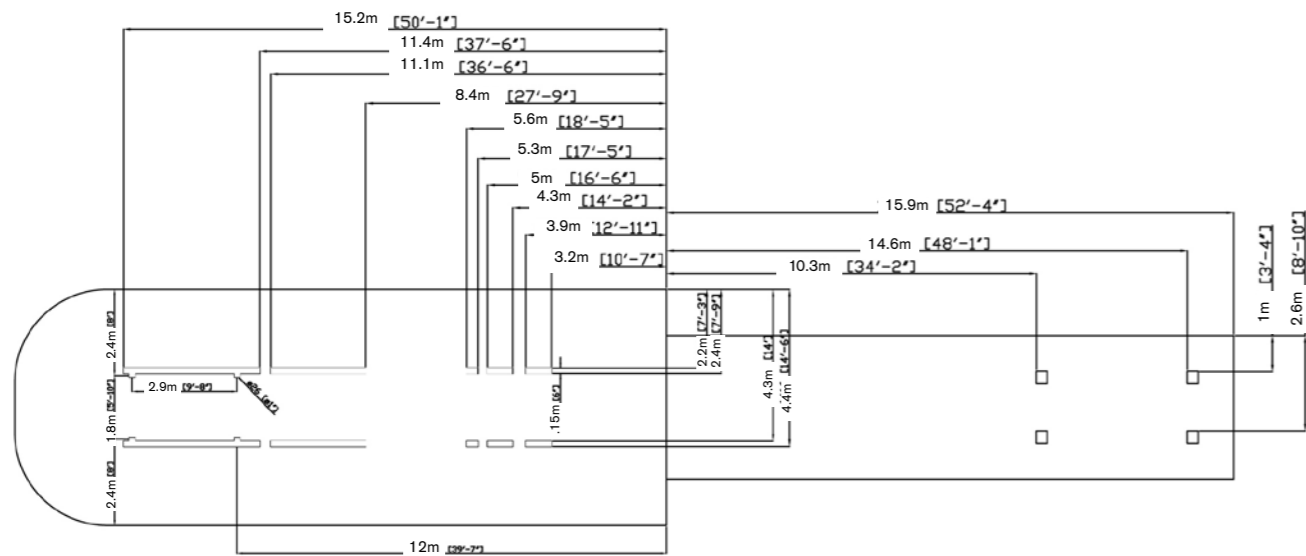
WORKING DIMENSIONS (WITH FEED SYSTEM)



AGGRESAND PLINTH



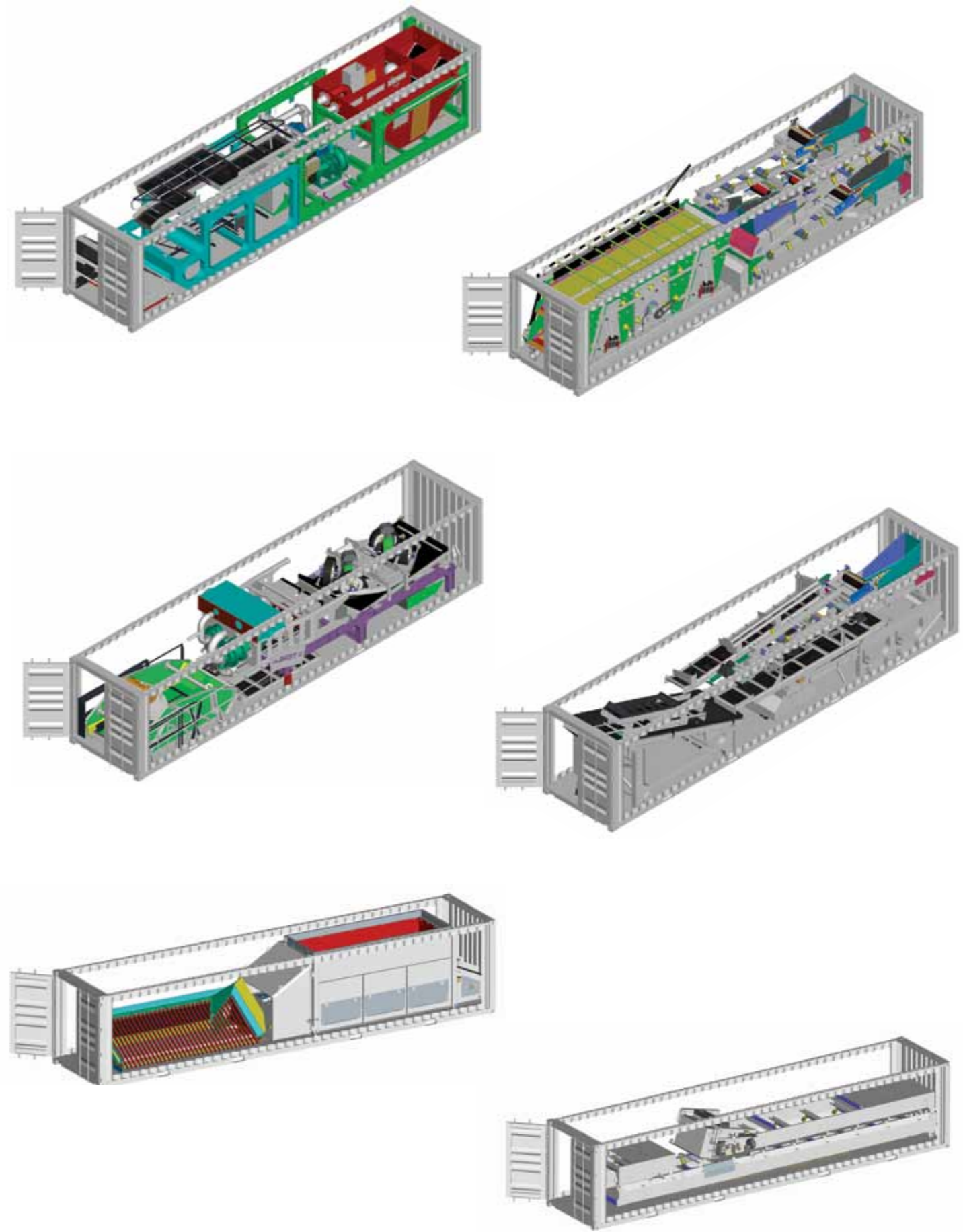
AGGRESAND FOOTPRINT



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



TEREX WASHING SYSTEMS CONTACT DETAILS

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www.terex.com/washing

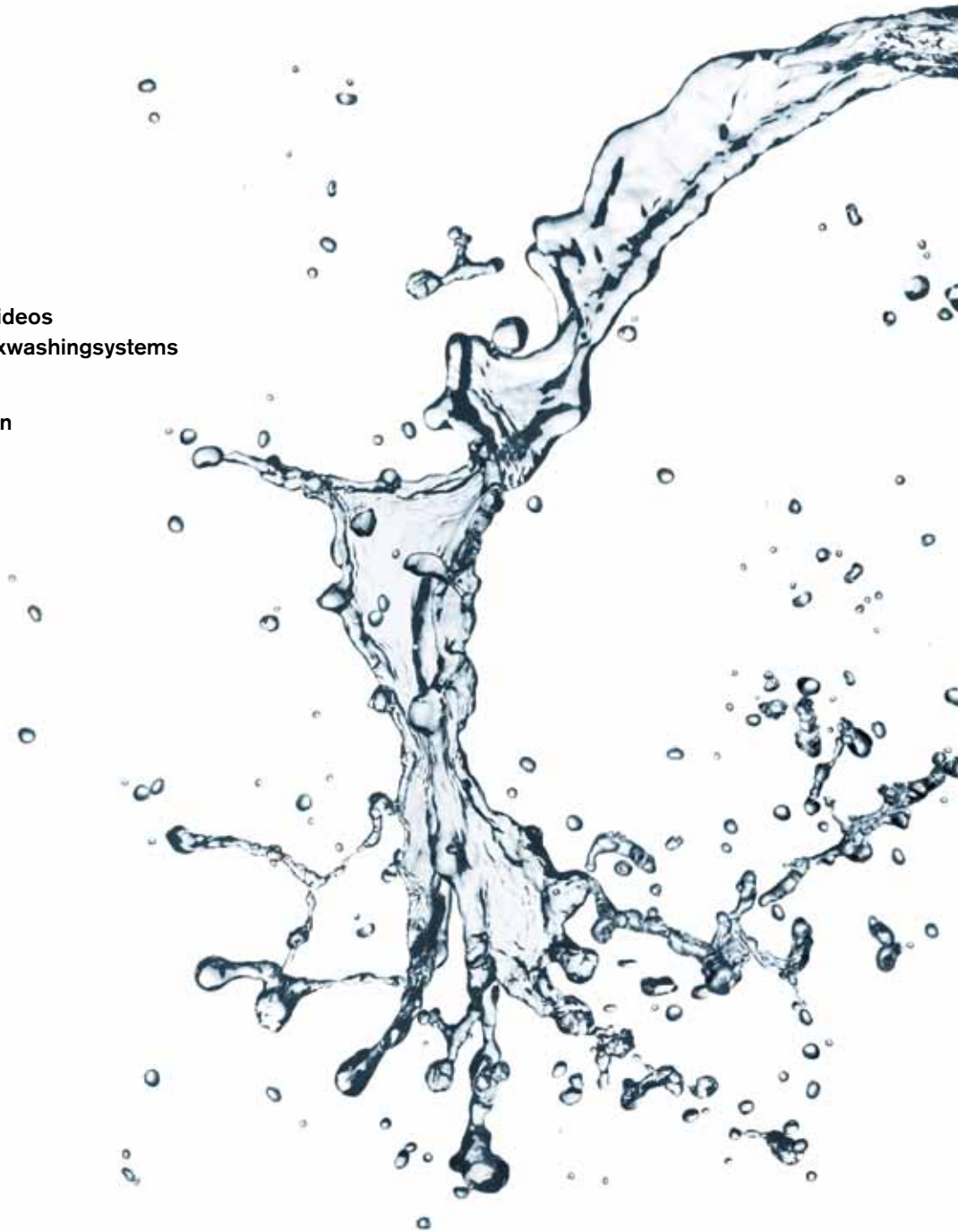
YouTube

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