

CYCLOWASH

A Taurian Brand



CYCLOSWIFT



CYCLOTWIN



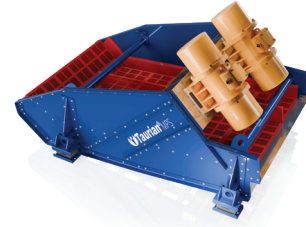
CYCLOBUCKET



FRAC



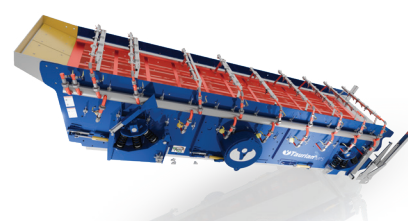
THICKENER



DEWATERING SCREEN



SPIRAL CLASSIFIER



WET SCREEN

- Compact Modular Design

The unit integrates dewatering screen, hydrocyclone, slurry pump, and sump into a single skid-mounted structure. This minimizes footprint and simplifies plant layout.
- Minimal Civil Foundation Requirement

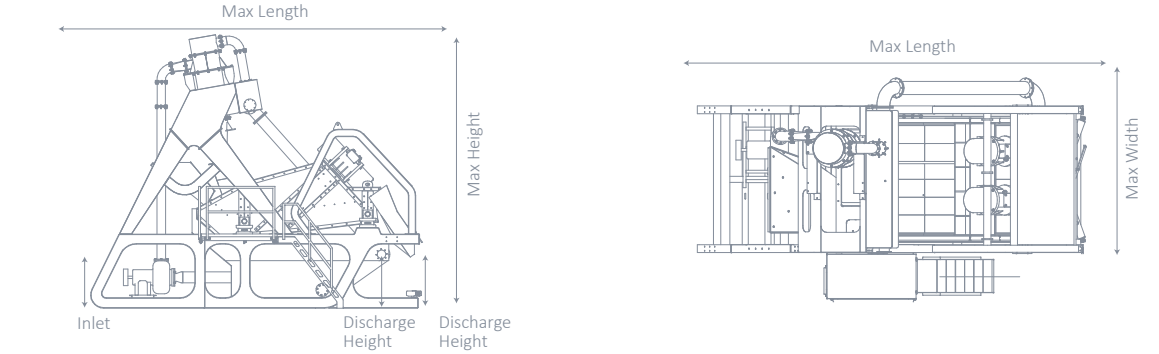
Skid-mounted assembly requires minimal civil work for installation and facilitates faster commissioning and plant mobility when needed.
- Hydrocyclone Classification

The hydrocyclone provides precise cut-point separation, efficiently removing fines below the desired grain size.
- Integrated Dewatering Screen

Removes excess water from classified sand and ensures a drier final product with moisture content typically below 12–15%.
- Sump Tank

Self Regulating Tank (optional sensors)
Bolted cleanout flange to simplify access
Sloped floor to reduce risk of fines buildup
- Pumps and Pipes

Rubber Lined centrifugal pump with replaceable liners
Easy access for maintenance
(optional slide out mechanism)



Dimensions

Model	Dimensions (L x W x H)	Inlet height	Tank waste outlet height	Discharge height
TWS 70	6500 x 3500 x 5400 mm	3000 mm	1070 mm	1000 mm
TWS 100	6500 x 3500 x 5400 mm	3000 mm	1070 mm	1000 mm
TWS 150	6500 x 3500 x 5400 mm	3000 mm	1070 mm	1000 mm
TWS 200	6500 x 3500 x 5400 mm	3000 mm	1070 mm	1000 mm



Technical Specification

Model	TWS 70	TWS 100	TWS 150	TWS 200
Capacity	50 TPH	60-80 TPH	90-120 TPH	120-160 TPH
Hydrocyclone size dia	375 mm	375 mm	500 mm	500 mm
Pump size	100 x 75 mm	150 x 100 mm	150 x 100 mm	200 x 150 mm
Pump motor	22 kW	22 kW	30 kW	30 kW
Slurry flow rate	130 m³/hr	190 m³/hr	240 m³/hr	370 m³/hr
Dewatering screen	1.2 x 2.4 m	1.5 x 2.8 m	1.8 x 3.6 m	2.1 x 4.3 m
Screen motor	2 x 2.2 kW	2 x 2.2 kW	2 x 3 kW	2 x 3 kW
Sump capacity	5.5 m³	5.5 m³	5.5 m³	5.5 m³
Weight	9500 kgs	9700 kgs	13500 kgs	16500 kgs

Double Hydrocyclone Configuration

Two high-efficiency hydrocyclones operate in parallel, enabling higher throughput and improved fine separation.

Sump Tank

Self regulating tank (optional sensors)
Bolted cleanout flange to simplify access
Sloped floor to reduce risk of fines buildup

Integrated Dewatering Screen

Removes excess water from classified sand and ensures a drier final product with moisture content typically below 12–15%.

Pumps and Pipes

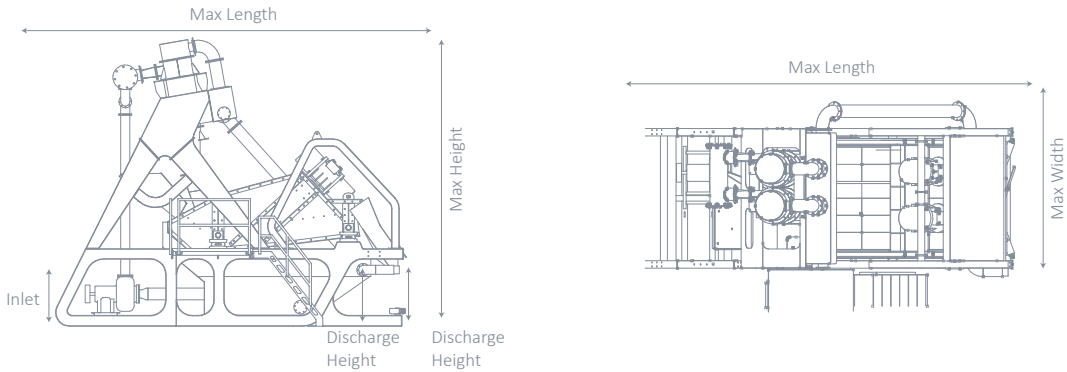
Rubber lined centrifugal pump with replaceable liners
Easy access for maintenance (optional slide out)

High-Capacity Processing

Handles large slurry volumes with stable performance and suitable for medium to high tonnage operations in both natural and manufactured sand plants.

Increased Fines Recovery Efficiency

Maximizes recovery of fine sand fractions while reducing ultra-fines in the overflow, resulting in higher product yield and better sand grading.



Dimensions

Model	Dimensions (L x W x H)	Inlet height	Tank waste outlet height	Discharge height
TWS 150-II	6500 x 3500 x 5400 mm	3000 mm	1070 mm	1000 mm
TWS 200-II	6500 x 3500 x 5400 mm	3000 mm	1070 mm	1000 mm



Madhya Pradesh | Cyclotwin



Rajasthan | Cyclotwin

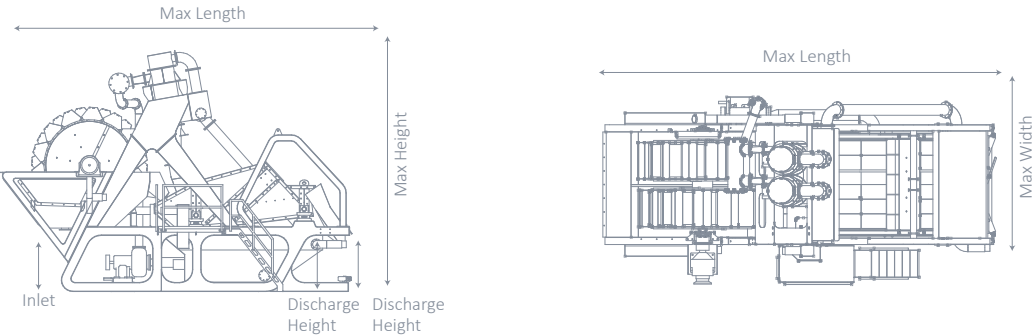


Jharkhand | Cyclotwin

Technical Specification

Model	TWS 150-II	TWS 200-II
Capacity	150 TPH	200 TPH
Hydrocyclone size dia	375 x 2 mm	500 x 2 mm
Pump size	150 x 100 mm	200 x 150 mm
Pump motor	30 kW	30 kW
Slurry flow rate	240 m³/hr	370 m³/hr
Dewatering screen	1.8 x 3.6 m	2.1 x 4.3 m
Screen motor	2 x 3 kW	2 x 3 kW
Sump capacity	5.5 m³	5.5 m³
Weight	13500 kgs	16500 kgs

- Double Hydrocyclone**
Feed Inlet is square to round lined with wear resistant urethane
Custom cut points for quick adjustment in the field
HDPE lined overflow pipe
- Dewatering Screen**
Water moisture content reduction up to 85- 90%
Blending Plate with chute to mix outputs
- Bucket Wheel**
Handles 70% of processing, reducing wear of cyclones and pumps.
Lowers cycle times and reduces operational costs.
Planetary Gearbox to adjust speed of feed
- Sump Tank**
Self regulating tank (optional sensors)
Bolted cleanout flange to simplify access
Sloped floor to reduce risk of fines buildup
- Outputs**
Handles both dry and wet feed
Can remove fines below 75 microns
- Pumps and Pipes**
Rubber lined centrifugal pump with replaceable liners
Easy access for maintenance (optional slide out mechanism)
- Chassis**
Constructed with robust steel
Galvanized walkways and handrails



Dimensions

Model	Dimensions (L x W x H)	Inlet height	Tank waste outlet height	Discharge height
TWS 150B	7850 x 4000 x 5400 mm	2500 mm	1070 mm	1000 mm
TWS 200B	7850 x 4000 x 5400 mm	2500 mm	1070 mm	1000 mm



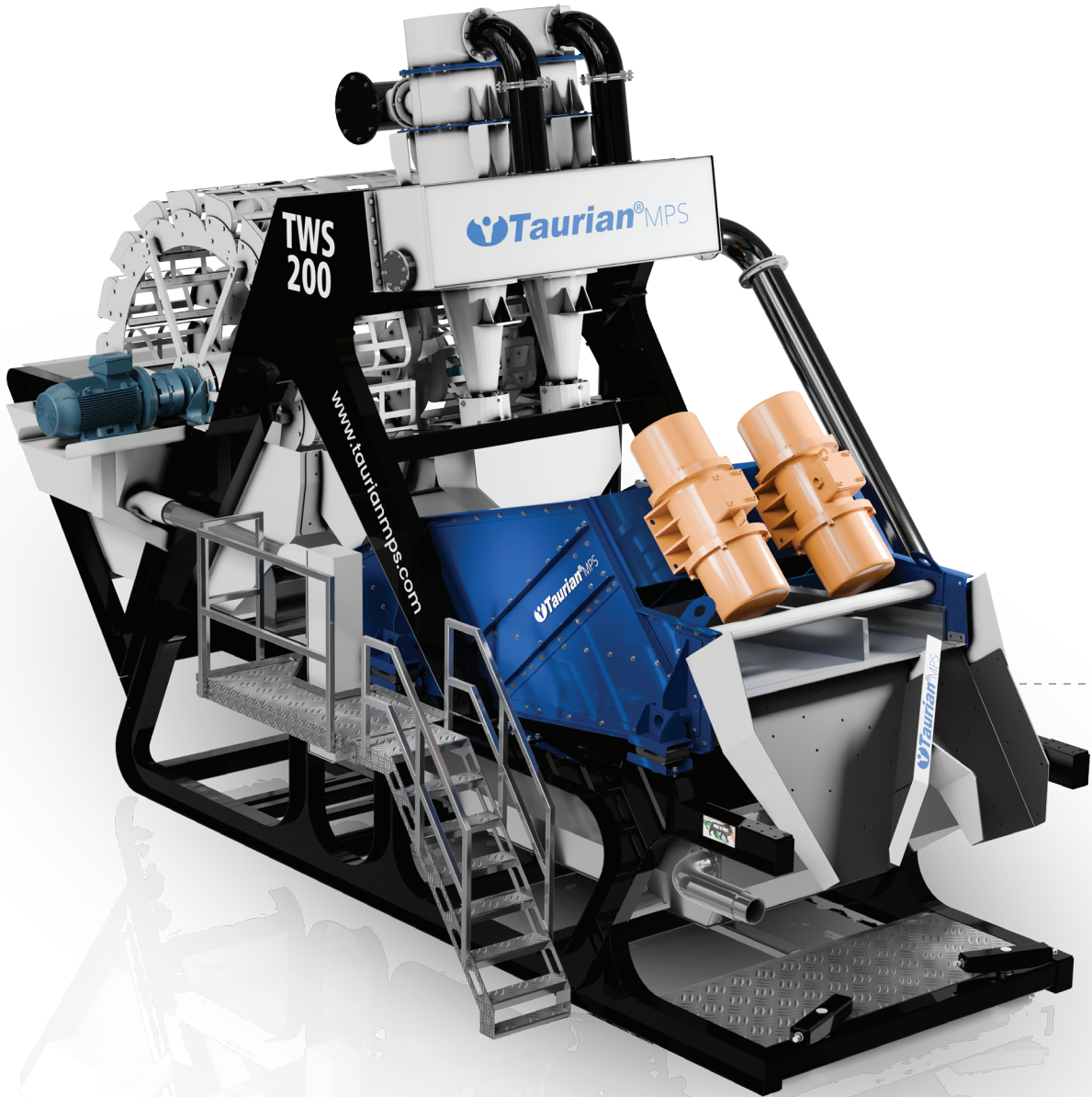
Madhya Pradesh | Cyclobucket



Maharashtra | Cyclobucket



Rajasthan | Cyclobucket



Technical Specification

Model	TWS 150B	TWS 200B
Capacity	80-120 TPH	140-200 TPH
Hydrocyclone size	375 x 2 mm	500 x 2 mm
Pump size	150 x 125 mm	200 x 150 mm
Pump motor	30 kW	30 kW
Slurry flow rate	120-150 m³/hr	200-250 m³/hr
Inlet/outlet flange	250/200 mm	250/250 mm
Wheel diameter	2700 mm	2700 mm
Number of buckets	32	32
Bucket speed	1.3 rpm	1.3 rpm
Dewatering screen	1800 x 2400 mm	1800 x 3700 mm
Screen motor	2 x 3 kW	2 x 3 kW
Bucket motor	11 kW	11 kW
Weight	16500 kgs	18500 kgs

Slurry Box

Fully enclosed, sealed and rubber lined wash box.
Easily replaceable rubber lining.
Water saturation of material.
Targeting of material at rear of screenbox maximising screening area.

Main Tank

Large inspection door(s) on tank
Large volume sump tank with overflow box, baffle plates, pump protection system and drain ports

Sand Conveyors

37ft (11.3m) sand conveyors
Automated Radial
20° incline
Stockpile capacity 575yds³ (440m³)
High-quality polyurethane scraper
100ft (30.5m) conveyor option

Rinser Screenbox

Choice of 2 deck or 3 deck
Patented iso-spray technology for flexibility
Integrated sealed subframe and catchbox
Aggregate blending chute

Pumps

All pumps have replaceable rubber liners for extended wear life
Roll-out pump feature for easy maintenance

Dewatering Screen

Dual and single sand options up to 200TPH
High-frequency dewatering screen delivering superior moisture reduction



Aggregate Conveyors

37ft (11.3m) aggregate conveyors
Positioned to the left or right
18° incline
Stockpile capacity 125yd³ (95m³)
High-quality polyurethane scraper
Galvanised undercarriage

Hydrocyclones

Customizable configuration for unrivaled cut point control
100% rubber lined
Replaceable drop in liners

Feed/Hopper

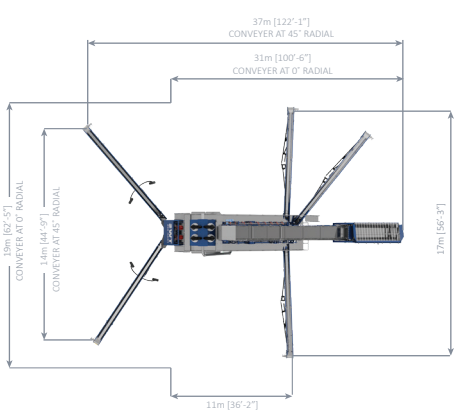
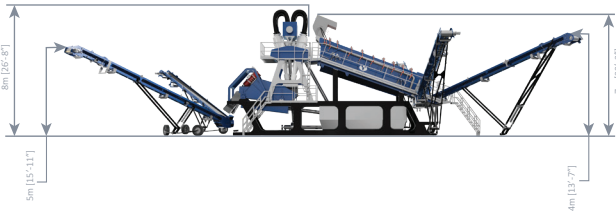
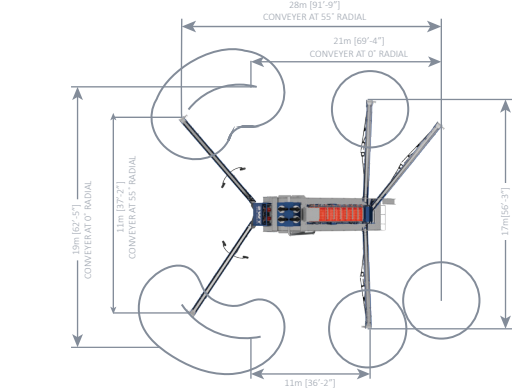
Adjustable door for inspection
Large capacity hopper 12m³
Radio controlled Tipping grid
Vibrating grid option
Variable speed belt feeder

Main Conveyor

41 inch (1050mm) wide belt
Galvanised undercarriage
Overband magnet option for removing ferrous materials in recycling operations

Walkways

Galvanised walkways
30 inch (760mm) wide walkway



FRAC 225

SCREENBOX	2 AGG 2 SAND	3 AGG 2 SAND	2 AGG, 1 SAND	3 AGG 1 SAND
Screening area	4.9m x 1.5m (16'x5")	4.9m x 1.5m (16'x5")	4.9m x 1.5m (16'x5")	4.9m x 1.5m (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	235m³/hr	340m³/hr	235m³/hr	340m³/hr
SAND PLANT - STANDARD CAPACITY (120TPH)				
Dewatering screen	3.7m x 1.5m (12'x5")	3.7m x 1.5m (12'x5")	3.7m x 1.5m (12'x5")	3.7m x 1.5m (12'x5")
Screen power required	8kW (11hp)	8kW (11hp)	8kW (11hp)	8kW (11hp)
Fines cyclone	1 x T375	1 x T375	2 x T660	2 x T660
Fines pump	200/150- 15kW (20hp)	200/150- 22kW (29.5hp)	250/200- 45kW (60hp)	250/200- 45kW (60hp)
Coarse cyclone	1 x T500	1 x T500		
Coarse pump	200/150- 30kW (40hp)	200/150- 30kW (40hp)		
SAND PLANT - STANDARD CAPACITY (200TPH)				
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	2 x T375	2 x T375	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	2 x T500	2 x T500		
Coarse pump	200/150- 30kW (40hp)	200/150- 30kW (40hp)		
STOCKPILE CONVEYORS				
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)	
Radial wheel drive power requirement	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 - standard sand plant	124.9kW (168hp)	128.9kW (173shp)	113.6kW (152hp)	117.6kW (158hp)
Typical power requirements - high capacity sand plant	139.9kW (188hp)	143.9kW (193hp)	128.6kW (172hp)	132.6kW (178hp)
Water requirements - standard sand plant	250-350m3/hr	250-350m3/hr	250-350m3/hr	250-350m3/hr
Water requirements - high capacity sand plant	250-500m3/hr	250-500m3/hr	250-500m3/hr	250-500m3/hr

FRAC 265

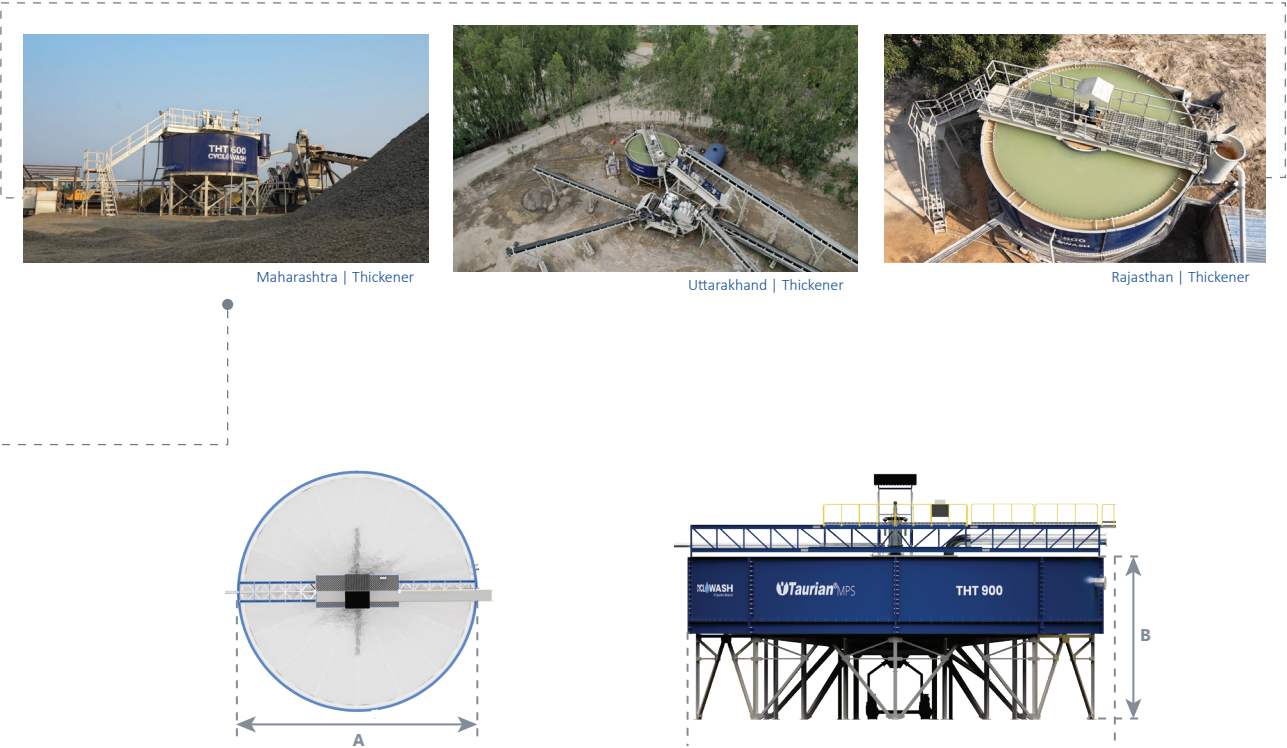
SCREENBOX	2 AGG 2 SAND	3 AGG 2 SAND	2AGG, 1 SAND	3 AGG, 1 SAND
Screening area	6m x 1.8m (20'x6")	6m x 1.8m (20'x6")	6m x 1.8m (20'x6")	6m x 1.8m (20'x6")
Number of decks	2	3	2	3
Power required	22kW (30hp)	22kW (30hp)	22kW (30hp)	22kW (30hp)
Mounting	Spring	Spring	Spring	Spring
Screen bearings	2 bearing	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	2 x T375	2 x T375	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	2 x T500	2 x T500		
Coarse pump	200/150- 30kW (40hp)	200/150- 30kW (40hp)		
STOCKPILE CONVEYORS				
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
2 DECK VIBRATING GRID				
Working angle	10-20°	10-20°	HOPPER	FRAC 225
Tipping angle	450 max	450 max	Capacity	FRAC 265
Motor (Hydraulic)	59cc/rev	59cc/rev	Grid spacing	
FEED CONVEYOR			POWERPACK	
Length	18.7m	22.7m	Motor size- all options	37kW (50hp)
Belt	1050mm (42")	1050mm (42")	Hydraulic pump capacity	37kW (50hp)
Number of decks	11kW (15hp)	2 x 11kW (15hp)		46cc/33cc/33cc
Power required	1.5kW (2hp)	1.5kW (2hp)	Oil cooler motor size	46cc/33cc/33cc
				0.18kW (0.24hp)
				0.18kW (0.24hp)

- Rapid Setup Design**
Pre-wired and factory tested cone section with integrated sludge pump to allow for rapid setup
- Easy Maintenance Access**
Customer-focused solution with unmatched maintenance access
- Walkway**
Truss support bridge with full span galvanised walkway
- Dosing system**
Metered flocculant dosing system with valves, hoses, injectors
- Electric Lift**
Electric drive and lift

- Central Feed Distribution**
Waste water delivered to the centre of the thickener to allow maximum time for material settlement
- Sludge Rake**
Unique rake mechanism for optimal sludge conditioning
- Rigid Support**
Heavy-duty steel support legs and bracing
- Slurry Access**
Gasket sealed outlets with three slurry nozzles and one manhole
- Control Panel**
PLC or Marshalling panel

Technical Specification

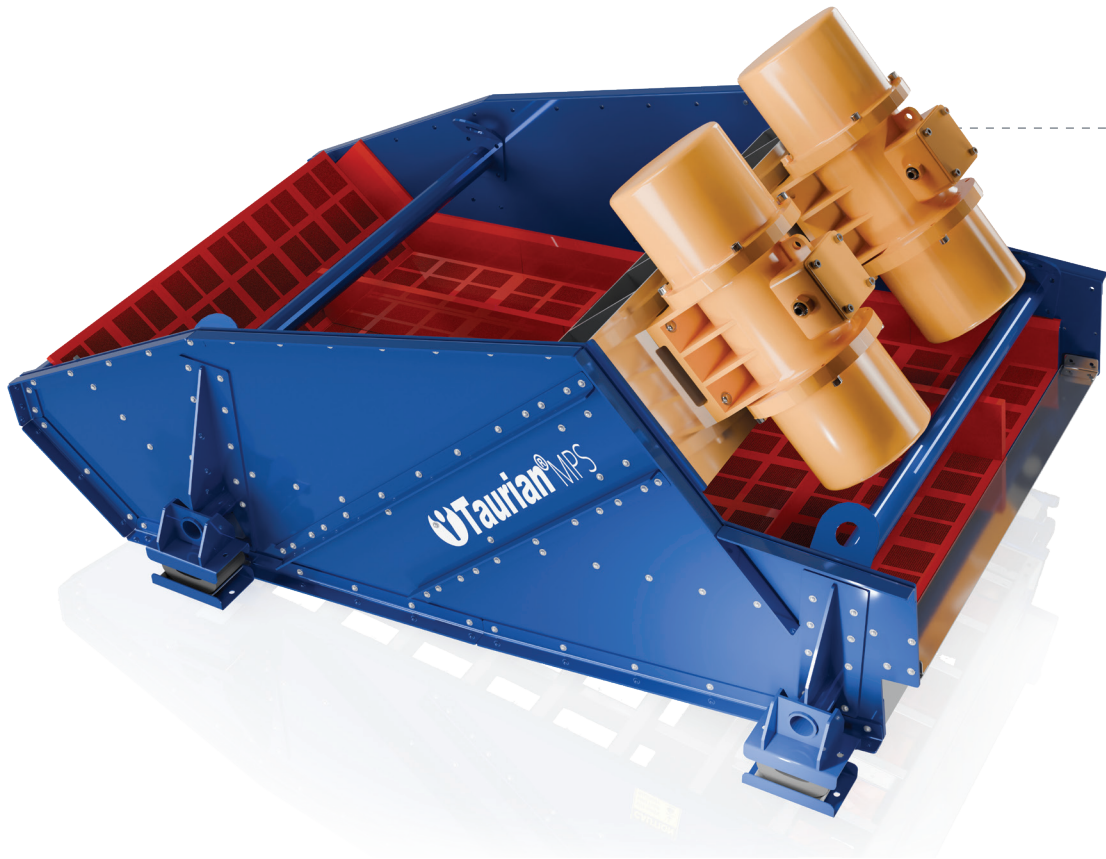
Model		THT 400	THT 600	THT 800	THT 1000	THT 1500
Maximum feed rate		100 m³/hr	200 m³/hr	400 m³/hr	600 m³/hr	1500 m³/hr
Sludge flow rate		5 TPH	10 TPH	20 TPH	30 TPH	80 TPH
Sludge pump		3/2	3/2	4/3	6/4	6/4
Sludge pump motor		11 kW	11 kW	15 kW	30 kW	45 kW
Rakes motor		1.1 kW	2.2 kW	3 kW	4 kW	4 kW
Feed height		131.89 in	142.52 in	174.02 in	181.10 in	283.46 in
Clean water discharge height		135.83 in	143.31 in	176.77 in	188.98 in	188.98 in
Weight (Empty)		8000 kgs	11000 kgs	20000 kgs	25000 kgs	65000 kgs
Weight (Full)		60000 kgs	120000 kgs	200000 kgs	270000 kgs	750000 kgs
Dimensions	Diameter (A)	4 m	6 m	8 m	10 m	15 m
	Height (B)	4 m	4 m	5 m	5 m	5 m



- Screen Deck**
Polyurethane or stainless steel panels.
Provides the surface for material to be dewatered.
Perforations for water drainage.
- Side Plates**
High-tensile steel.
Provides structural stability to the screen.
- Spray Nozzles (Optional)**
For washing materials during the process.
- Dewatering Hopper**
Collects drained water.
Funnel-shaped design for efficient disposal.
- Drive Assembly**
Motor, gearbox, and drive belt.
Powers the vibration mechanism.
- Vibration Motor**
Generates high-frequency linear or elliptical vibrations.
Adjustable settings for varying materials.
- Support Structure**
Mild steel or stainless steel frame.
Ensures stability and proper alignment.
- Screen Panels**
Modular design for easy replacement.
Polyurethane or wire mesh.
- Cross Beams**
Support the screen deck and maintain vibration integrity.
Corrosion-resistant steel.

Technical Specification

Model	TDS 1224	TDS 1824	TDS 1832	TDS 1840
Capacity	100 TPH	150 TPH	200 TPH	250 TPH
Screen size	1200 x 2400 mm	1800 x 2400 mm	1800 x 3200 mm	1800 x 4000 mm
Screening area	2.88 m ²	4.32 m ²	5.76 m ²	7.20 m ²
Motor	2 x 2.5 kW	2 x 3.75 kW	2 x 6.25 kW	2 x 7.5 kW



Maharashtra | Dewatering Screen



Chhattisgarh | Dewatering Screen



Rajasthan | Dewatering Screen

- Bucket Wheel**
Recovers fine sand.
Gentle rotation ensures efficient washing & dewatering.
- Spiral Blade**
Agitates material effectively.
Enhances separation of silt and fine particles.
- Main Shaft**
Drives spiral motion.
Robust construction ensures stability and long service life.
- Dewatering Screen**
High-frequency vibration.
Produces consistently clean and moisture-free sand.



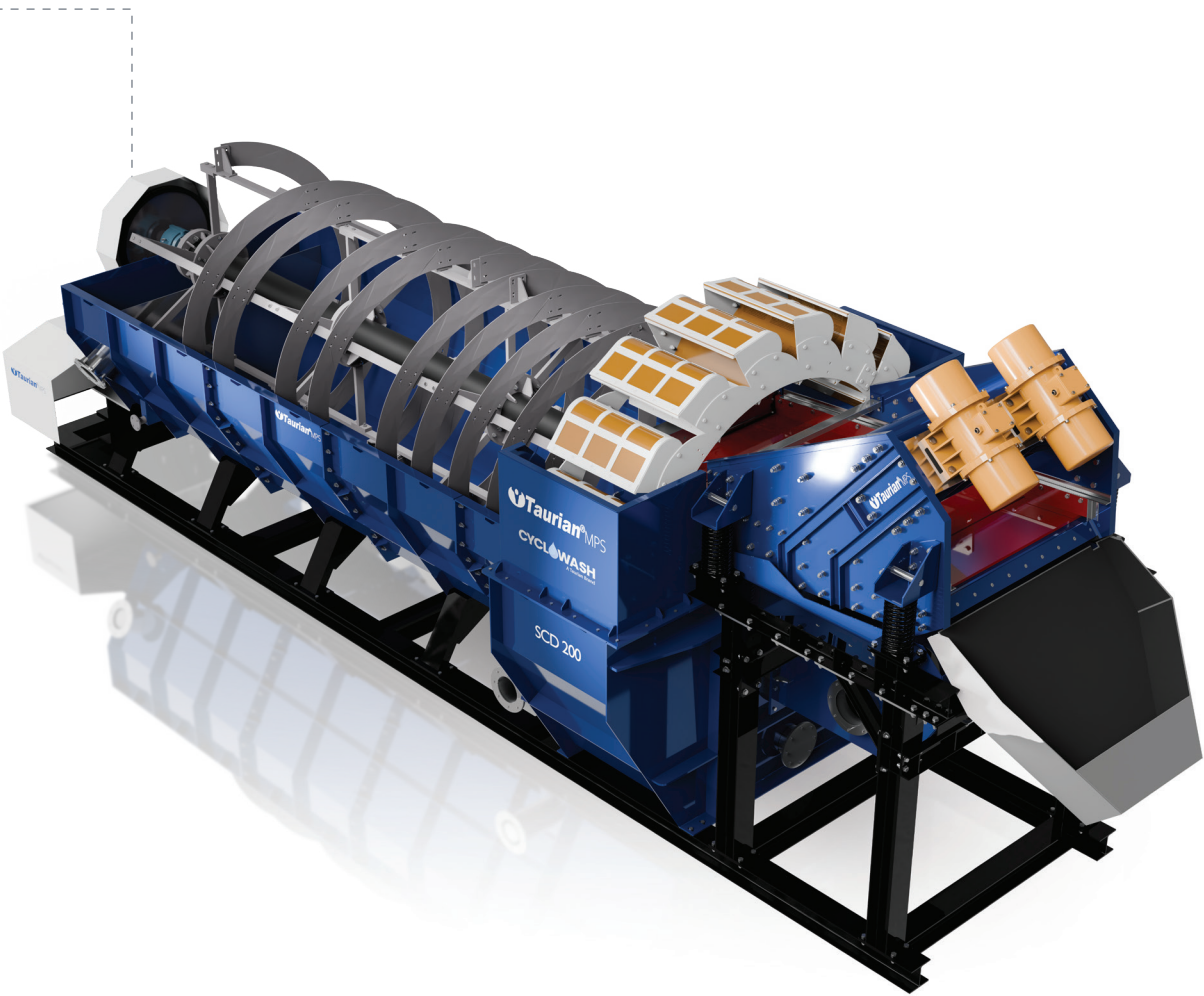
MP | Spiral Classifier

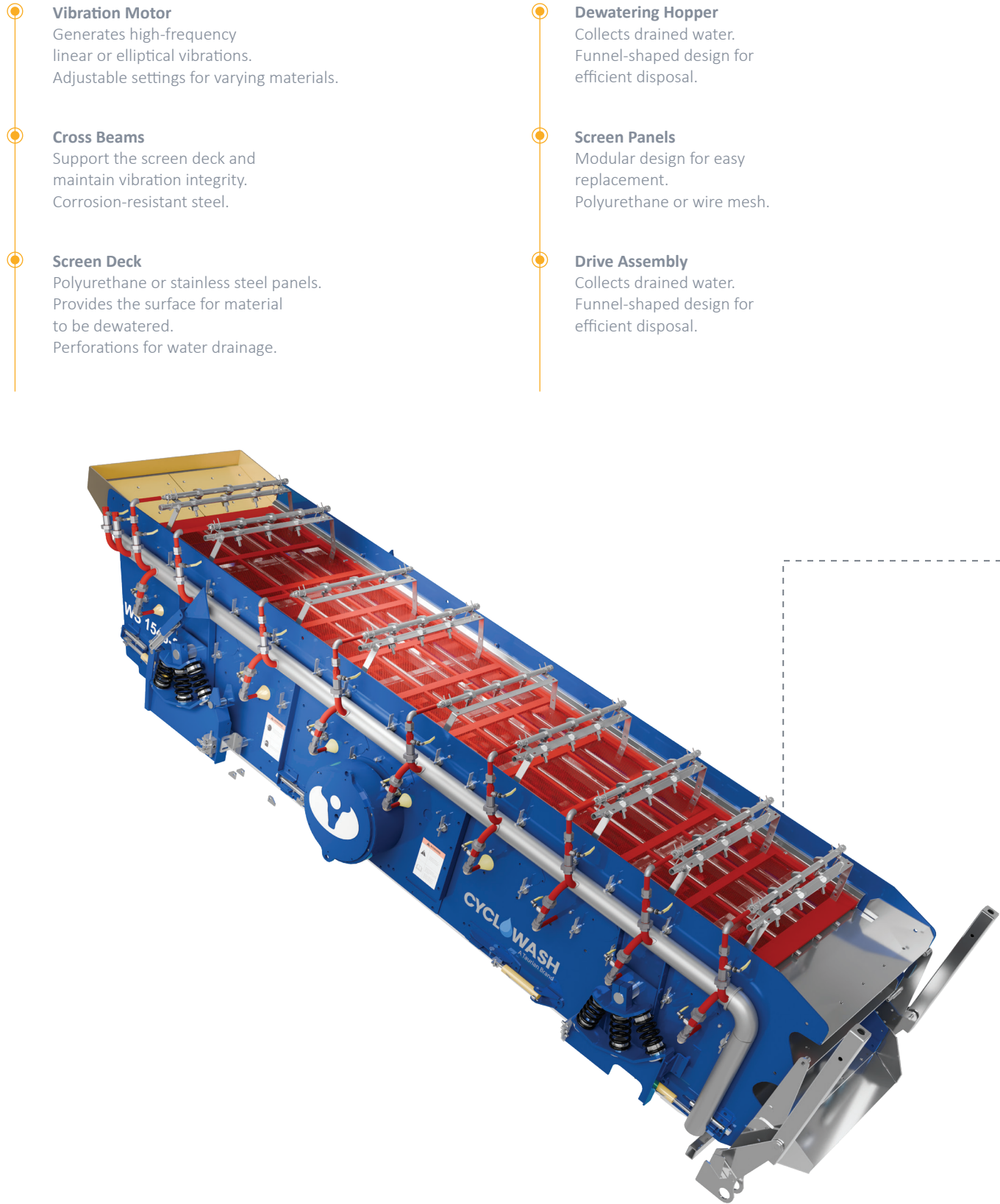
Dewatering Screen

Model	SCD 75	SCD 100	SCD 150	SCD 200
Capacity	45-60 TPH	60-80 TPH	90-120 TPH	120-160 TPH
Screen area (W x L)	900 x 1800 mm	1200 x 2150 mm	1500 x 2500 mm	1800 x 2500 mm
Operating angle	5°	5°	5°	5°
Motor	2 x 1.13 kW	2 x 1.5 kW	2 x 2.2 kW	2 x 3.2 kW
Weight	775 kgs	850 kgs	1300 kgs	1900 kgs

Spiral Classifier with Dewatering Screen

Model	SCD 75	SCD 100	SCD 150	SCD 200
Capacity	45-60 TPH	60-80 TPH	90-120 TPH	120-160 TPH
Wheel diameter	2.27 m	2.5 m	2.75 m	3.1 m
No. of buckets	34	36	42	42
Screw diameter	1800 mm	1700 mm	2200 mm	2800 mm
Water tank capacity	4500 ltrs	5000 ltrs	6000 ltrs	8000 ltrs
Motor	5.5 kW	7.5 kW	9.3 kW	9.3 kW
Weight	3600 kgs	5200 kgs	7100 kgs	8500 kgs





Vibration Motor
Generates high-frequency linear or elliptical vibrations. Adjustable settings for varying materials.

Cross Beams
Support the screen deck and maintain vibration integrity. Corrosion-resistant steel.

Screen Deck
Polyurethane or stainless steel panels. Provides the surface for material to be dewatered. Perforations for water drainage.

Dewatering Hopper
Collects drained water. Funnel-shaped design for efficient disposal.

Screen Panels
Modular design for easy replacement. Polyurethane or wire mesh.

Drive Assembly
Collects drained water. Funnel-shaped design for efficient disposal.

Support Structure
Mild steel or stainless steel frame. Ensures stability and proper alignment.

Side Plates
High-tensile steel. Provides structural stability to the screen.

Spray Nozzles (Optional)
For washing materials during the process.



Technical Specification

Model	WS 1545-2D	WS 1545-3D	WS 1662-2D	WS 1662-3D
Capacity	200-300 TPH	200-300 TPH	250-350 TPH	250-350 TPH
Screen size	4500 x 1500 mm	4500 x 1500 mm	6200 x 1600 mm	6200 x 1600 mm
Decks	2	3	2	3
Motor	11 kW	15 kW	15 kW	22 kW
Weight	2600 kgs	3200 kgs	5445 kgs	6245 kgs