




**Smarter  
Washing  
Solutions**





A trusted reputation for  
designing quality  
products that  
perform





**Our diverse range of capabilities and expertise allows us to design, manufacture, deliver and operate highly productive washing equipment around the globe**

Based on its unrivalled reputation and geographic reach, MWS has become the world leader of delivering Modular, Mobile and Static Washing systems around the globe.

#### INNOVATIVE PRODUCT RANGE

MWS has a rich history of innovation, which has seen us lead the industry with many new products in every application. Formed in 2016, MWS Equipment has continuously designed and manufactured high quality wet processing equipment.

The company began as McCloskey Washing Systems, and the design of **SANDSTORM™**, **AGGSTORM**, **CSP** range became the cornerstone of the MWS Product Line.

Our products have gained a reputation for quality, reliability and agility that is second to none.

#### DEEP INDUSTRY KNOWLEDGE

We pride ourselves on not simply supplying washing equipment, but by supporting customers with a detailed knowledge of their industry and applications, so that products, service and after sales service are tailored to their specific needs. This collaborative approach means that we focus on providing more than just a product, but also a complete product lifecycle solution that adds genuine value to our customers.

#### ENGINEERING SOLUTIONS

We have an experienced engineering team specialized in Wet processing equipment that have delivered 100's of complex projects around the world.

Our application, engineering, production, technical applications, and R&D team work closely together to design, develop and manufacture bespoke projects.

#### OUR COMMITMENT TO QUALITY & RELIABILITY

We place great emphasis on maintaining international quality standards and our products meet the highest possible standards. Our equipment is subjected to a wide range of tests as specified by statutory regulations and customer requirements. These approvals enable our customers to make informed choices as to the suitability of a product for each application.

#### OUR PRODUCT LIFECYCLE APPROACH

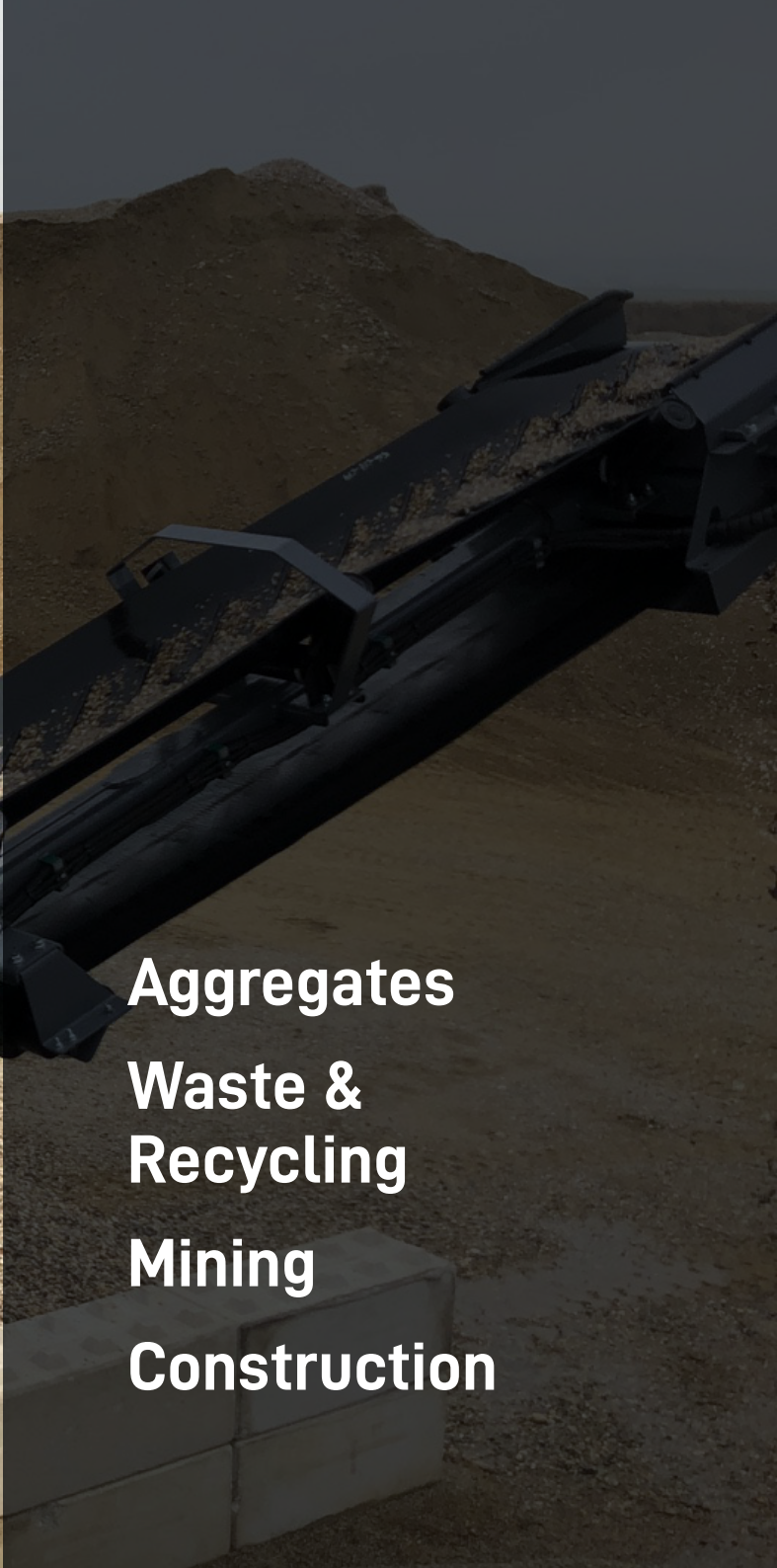
The key to delivering smarter washing equipment is to listen, react and continue to improve relationships with our customer. Following delivery of our highly productive products, our customers benefit from a comprehensive after sales service which ensures we support our customers throughout the product lifecycle.

#### GLOBAL DISTRIBUTION... LOCAL SUPPORT

Our washing equipment is distributed and serviced through our global network of MWS partners. Our selected distribution partners are strategically located within their territory to deliver the best possible service and products to our customers. This approach means our products and know-how are available to the global industries we serve.







Aggregates  
Waste &  
Recycling  
Mining  
Construction

**EXCELLENCE. QUALITY. TRUST.**

At MWS, we listen to your specific needs and requirements to supply and develop the best solutions in collaboration. As a world leader in washing equipment, we provide the widest range of products for all applications. You can also rely on our cutting-edge R&D capabilities to make sure you find the solution for your projects, whether large or small, for all sectors.

MWS are continuously developing new products and solutions to meet customer expectations. For us, innovation is all about adding value.



MWS is committed to the success of your operation. With a focus on machine versatility, high efficiency and low operating cost, dedicated to support your business needs.





MODULAR RANGE

# SANDSTORM™ 516

The Sandstorm™ unique design has eliminated spillage of water and materials, creating a clean and safe working environment. Its unique features deliver exceptional results with minimal maintenance required.



## SPECIFICATION

### KEY FEATURES

Length	145ft (44.2m)
Width	111.5ft (34m)
Height	26ft (7.9m)
<ul style="list-style-type: none"><li>Modular design</li><li>Containerized transport</li><li>1 water connection point</li><li>Fully automated</li><li>Quick setup time</li><li>Radio controlled</li><li>Modular polyurethane screen media</li><li>Pre plumbed</li><li>2 or 3 deck screenbox</li><li>Single or double sand product</li><li>Full walkway access</li><li>Wash down hose reel</li><li>Wired to isolators</li><li>Rubber lined pipework &amp; catchbox</li><li>Rolling discharge chute</li></ul>	

### OPTIONS

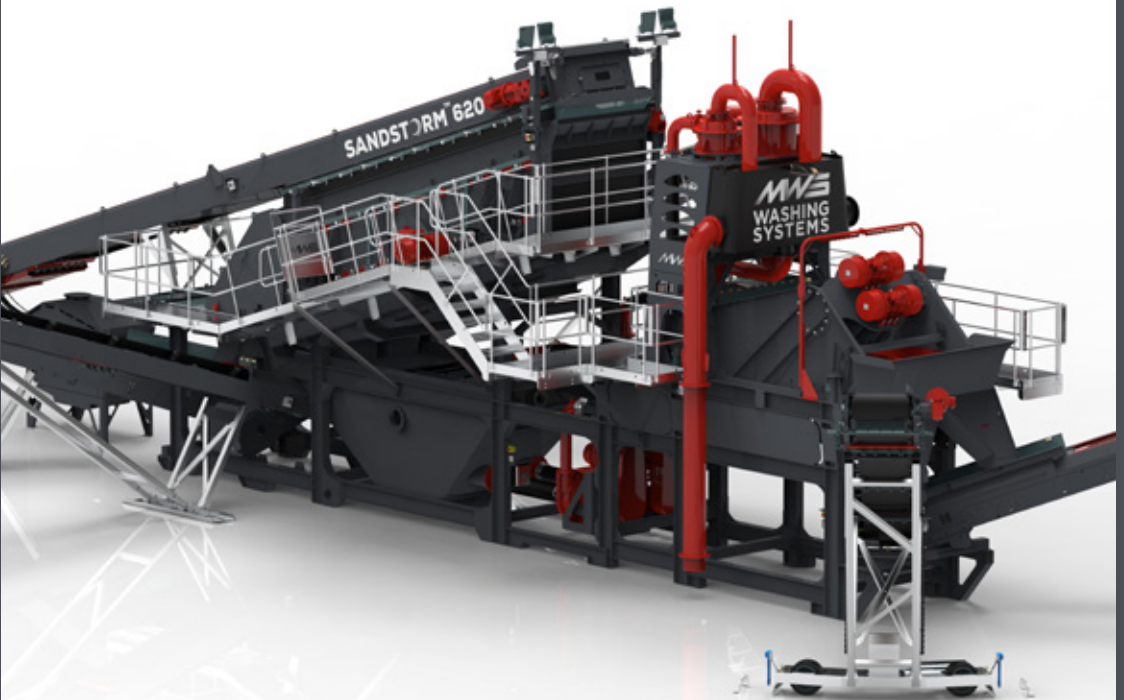
- Vibrating grid
- Main conveyor covers
- 100ft conveyors (30.5m)
- Overband magnet
- Belt weigher on main and product belts
- Full Plant LED Flood Lighting

MAXIMUM POWER REQUIREMENTS	3 DECK	3 DECK
	ONE SAND	TWO SAND
Total kW	123	134
Total Hp	165	180
kVA Approx Required	215	234
AVERAGE WATER REQUIREMENTS	3 DECK	3 DECK
	ONE SAND	TWO SAND
m3/h	300	300
US gpm	1232	1232

MODULAR RANGE

# SANDSTORM™ 620

Due to it's modular and easily customizable design, the Sandstorm™ is perfectly suited to the majority of washing applications. With its innovative design, the plant size has been kept to a minimum, while maximising access to service and maintenance areas.



## SPECIFICATION

### KEY FEATURES

Length	148ft (45.2m)
Width	111.5ft (34m)
Height	26ft (7.9m)
<ul style="list-style-type: none"><li>Modular design</li><li>Containerized transport</li><li>1 water connection point</li><li>Fully automated</li><li>Quick setup time</li><li>Radio controlled</li><li>Modular polyurethane screen media</li><li>Pre plumbed</li><li>2 or 3 deck screenbox</li><li>Single or double sand product</li><li>Full walkway access</li><li>Wash down hose reel</li><li>Wired to isolators</li><li>Rubber lined pipework &amp; catchbox</li><li>Rolling discharge chute</li></ul>	

### OPTIONS

- Vibrating grid
- Main conveyor covers
- 100ft conveyors (30.5m)
- Overband magnet
- Belt weigher on main and product belts
- Full Plant LED Flood Lighting

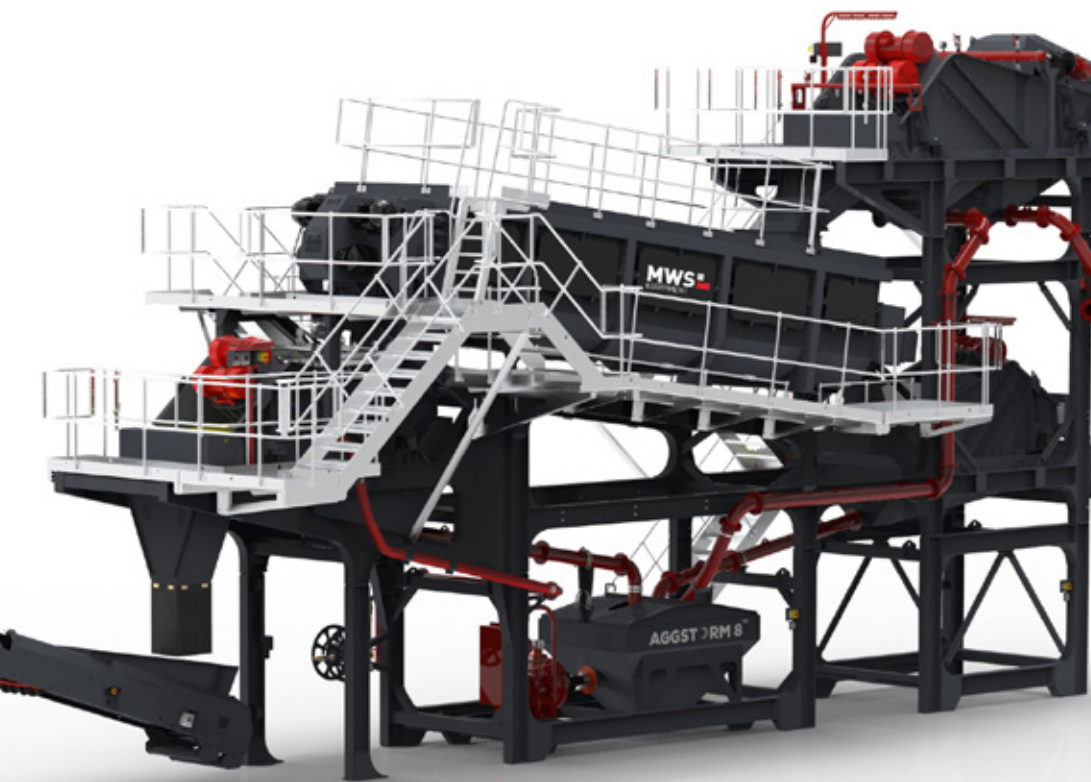
MAXIMUM POWER REQUIREMENTS	3 DECK	3 DECK
	ONE SAND	TWO SAND
Total kW	153	172
Total Hp	206	231
kVA Approx Required	267	300
AVERAGE WATER REQUIREMENTS	3 DECK	3 DECK
	ONE SAND	TWO SAND
m3/h	450	450
US gpm	1497	1497



MODULAR RANGE 8 |15 | XL

# AGGSTORM 8

The MWS AggStorm™ range takes washing to the next level by providing robust and reliable equipment for the most challenging applications.



## SPECIFICATION

### KEY FEATURES

Length	51ft (15.5m) – <i>without conveyors fitted</i>
Width	18ft (5.3m) – <i>without conveyors fitted</i>
Height	30ft (9.2m) – <i>with 12x5 Pre Screen &amp; 9x4 (3 deck) Sizing Screen</i>
<div><div><ul style="list-style-type: none"><li>• Modular design</li><li>• Capacity 80TPH</li><li>• Ability to integrate with the SandStorm™ range</li><li>• Robust for heavy duty applications</li><li>• Low water consumption</li></ul></div><div><ul style="list-style-type: none"><li>• Cast steel blades</li><li>• Rubber lined catch boxes and outlet chutes</li><li>• Full walkway access</li><li>• Wired to Isolators</li></ul></div></div>	

### OPTIONS

- Can be supplied as a complete turnkey washing system or as a separate unit
- Stockpiling conveyors available
  - Wash down hose reel

### SIZING SCREEN

- 8ft x 4ft (2.4m x 1.2m) single deck rinsing screen
- 9ft x 4ft (2.75m x 1.2m) 3 deck
- 12ft x 5ft (3.65 x 1.5m) 2 deck and 3 deck

### TRASH SCREEN

- 6ft x 2ft (1.8m x 0.6m)
- 8ft x 4ft (2.4m x 1.2m)

### MAXIMUM POWER REQUIREMENTS

Total kW	98.5
Total Hp	132
kVA Approx Required	90

### AVERAGE WATER REQUIREMENTS

m3/h	175
US gpm	770

MODULAR RANGE 8 |15 | XL

# AGGSTORM 15

The AggStorm™150 is a modular plant designed to remove harsh, stubborn clay-bound material from natural and crushed gravel, stone and ore feeds that cannot be removed by rinsing or screening alone. AggStorm™ is an effective solution to be used in the aggregate and mining industries.



## SPECIFICATION

### KEY FEATURES

Length	54ft (16.4m) – <i>without conveyors fitted</i>
Width	20ft (6.1m) – <i>without conveyors fitted</i>
Height	29ft (8.8m) – <i>with 8x4 post rinsing screen fitted</i>
<div><div><ul style="list-style-type: none"><li>• Modular design</li><li>• Capacity 150TPH</li><li>• Ability to integrate with the SandStorm™ range</li><li>• Robust for heavy duty applications</li><li>• Low water consumption</li></ul></div><div><ul style="list-style-type: none"><li>• Cast steel blades</li><li>• Rubber lined catch boxes and outlet chutes</li><li>• Full walkway access</li><li>• Wired to Isolators</li></ul></div></div>	

### OPTIONS

- Can be supplied as a complete turnkey washing system or as a separate unit
- Stockpiling conveyors available
  - Wash down hose reel

### SIZING SCREEN

- 8ft x 4ft (2.4m x 1.2m) single deck rinsing screen
- 9ft x 4ft (2.75m x 1.2m) 3 deck
- 12ft x 5ft (3.65 x 1.5m) 2 deck and 3 deck

### TRASH SCREEN

- 6ft x 2ft (1.8m x 0.6m)
- 8ft x 4ft (2.4m x 1.2m)

### MAXIMUM POWER REQUIREMENTS

Total kW	102
Total Hp	137
kVA Approx Required	140

### AVERAGE WATER REQUIREMENTS

m3/h	200
US gpm	880



MODULAR RANGE

# COMPACT SAND PLANT

## 6 | 12 | 20 | 30

The MWS Compact Sand Plant (CSP) range enables superior separation efficiency from the final washed sand product, producing in-spec sands to your desired grade.

As with all of the MWS products, these plants have been designed with absolute focus on the machine operator. In addition to the highest level of quality and performance, significant benefits include simple and fast assembly times, ease of operation, low maintenance and an overall reduced footprint.



## SPECIFICATION

### KEY FEATURES

	CSP 6	CSP 12	CSP 20	CSP 30
Length	5.5m (18' 1")	6.6m (21' 8")	7.2m (23' 8")	7.8m (25' 6")
Width	3.2m (10' 6")	3.8m (12' 6")	4.2m (13' 9")	4.5m (14' 8")
Height	5m (16' 5")	6.8m (22' 4")	7m (23')	7m (23')

- Superior separation efficiency
- Low running and maintenance costs
- Low energy required. Small footprint
- Rubber lined hydrocyclone as standard
- All wear areas rubber lined
- Underflow rubber lined slurry pump
- One or two sand products
- Fully galvanised walkways and access stairs
- Safety shutdown systems

### OPTIONS

- Boiler box for dry feed
- Electrical control panel
- Spraybars
- Stackers
- Handrails painted
- Weather proof control panel
- Separator (Dewatering Cyclone)

### AVERAGE WATER REQUIREMENTS

	6		12		20		30	
	ONE SAND	TWO SAND	ONE SAND	TWO SAND	ONE SAND	TWO SAND	ONE SAND	TWO SAND
M3/h	150	150	300	300	500	500	625	750
Litres/min	2500	2500	5000	5000	8334	8334	10417	12500
US GPM	660	660	1321	1321	2202	2202	2752	3302

Above figures are guidelines for application purposes. Capacities are approximations.





MOBILE RANGE

# S130 RINSER

The S130 Rinser’s fast set up and relocation abilities, make it ideal for contractors and hire fleets. Also, as two machines in one, the S130 Rinser as with all S-Range Rinsers can be easily converted to dry screen mode.



## SPECIFICATION

### KEY FEATURES

Length	16.52m (54' - 2")
Width	3.24m (10' - 8")
Height	3.45m (11' - 4")

- Fast set up time
  - Low cost set-up – no crane hire required
  - Easily converted to dry screen mode
  - Ideal for hire fleets and contractors
  - Wet and dry screening capabilities
  - 8 independently controlled spray bars on each deck delivering 2 bar/29 psi of water pressure at each nozzle
  - Extra coupling facility to run additional equipment such as MWS
- Sand Screws and Stackers.

  - Hydraulic catch box - Allows user to easily lift and lower the catch box
  - Large screen deck - 14' x 5' Top & middle deck, 12' x 5' bottom deck

### OPTIONS

- Polyurethane screen media
  - Single or twin sand production
  - Radio remote control
- Crusher chute (available with 15ft hopper only )
  - Dual power

### AVERAGE WATER REQUIREMENTS

2 DECK	2 Bar / 30 psi with 200 cubic meters per hour	200 m3/h	3329 lpm	880 US gpm
3 DECK	2 Bar / 30 psi with 258 cubic meters per hour	260m3/h	4309 lpm	1138 US gpm

MOBILE RANGE

# S190 RINSER

MWS S190 Mobile Rinser is an extremely adaptable, high capacity mobile washing unit. Available as a tracked or wheeled unit, the S190 3 deck comes complete with 3 side conveyors and split catchbox for up to 3 grades of aggregate and 2 grades of sand.



## SPECIFICATION

### KEY FEATURES

Length	18.2m (59'- 8")
Width	3.24m (10' - 8")
Height	3.45m (11' - 4")

- Fast set up time
  - Low cost set-up – no crane hire required
  - Easily converted to dry screen mode
  - Ideal for hire fleets and contractors
  - Wet and dry screening capabilities
  - 8 independently controlled spray bars on each deck delivering 2 bar/29 psi of water pressure at each nozzle
  - Dual power option
  - Extra coupling facility to run
- additional equipment such as MWS Sand Screws and Stackers.

  - Hydraulic catch box - Allows user to easily lift and lower the catch box
  - Large screen deck - 20' x 5' Top & middle deck, 18' x 5' bottom deck

### OPTIONS

- Polyurethane screen media
  - Single or twin sand production
  - Radio remote control
  - Dual power
- Catchbox division plate 1/3 - 2/3 or 2/3 - 1/3 or 1/2 - 1/2
  - Crusher chute (available with 15ft hopper only )

### AVERAGE WATER REQUIREMENTS

2 DECK	2 Bar / 30 psi with 245 cubic meters per hour	245m3/h	4083 lpm	1078 US gpm
3 DECK	2 Bar / 30 psi with 365 cubic meters per hour	365m3/h	6083 lpm	1607 US gpm



SCREW WASHER RANGE

# SANDSCREW

## 3625S/4432S

MWS Sand Screw Single and Twin range, 3625 and 4432 is used as a cost effective method to clean, classify and dewater fine material sand to produce a broad range of sand product sizes.



## SPECIFICATION

### KEY FEATURES

	3625S	4432S
Length	8.5m (27' – 11")	10.6m (35' – 3")
Width	2.8m (9' – 2")	3.9m (12' – 11")
Height	3.9m (12' – 10")	4.8m (15' – 11")
TPH	100 – 110	170 – 180

- Overflow flume and adjustable weir
  - Material discharge chute
  - Heavy duty hull
  - Large pool area giving maximum capacity
  - Minimal screw-hull clearance
  - Drive belt guards
  - Extra heavy duty gearbox with oil bath gear lubrication
  - Containerised for transport reducing costs
- Heavy duty screws for high capacity fines recovery
  - Replaceable shoe liners
  - Cast wear plates on spiral blades
  - Heavy-duty design with heat-treated helical gears
  - Remote grease points
  - Easy to assemble
  - Low maintenance

REQUIREMENTS	3625S	4432S
Motor Power <i>Recommended</i>	15Hp	25Hp
Maximum water <i>for retaining particles down to 140 mesh</i>	600USgpm (136m3/h)	1175USgpm (266m3/h)

SCREW WASHER RANGE

# SANDSCREW

## 3625T/4432T

MWS Sand Screws can be used in conjunction with our static and mobile washing screens to effectively recover and dewater your washing sand. They offer a low cost solution to sand/fines recovery after rinsing and passing through a washing screen.



## SPECIFICATION

### KEY FEATURES

	3625T	4432T
Length	8.5m (27' – 11")	10.6m (35' – 3")
Width	3.7m (12' – 2")	5.1m (17' – 1")
Height	3.9m (12' – 10")	4.8m (15' – 11")
TPH	200 – 220	350 – 360

- Overflow flume and adjustable weir
  - Material discharge chute
  - Heavy duty hull
  - Large pool area giving maximum capacity
  - Minimal screw-hull clearance
  - Drive belt guards
  - Extra heavy duty gearbox with oil bath gear lubrication
  - Containerised for transport reducing costs
- Heavy duty screws for high capacity fines recovery
  - Replaceable shoe liners
  - Cast wear plates on spiral blades
  - Heavy-duty design with heat-treated helical gears
  - Remote grease points
  - Easy to assemble
  - Low maintenance

REQUIREMENTS	3625T	4432T
Motor Power <i>Recommended</i>	15Hp x 2	25Hp x 2
Maximum water <i>for retaining particles down to 140 mesh</i>	925USgpm (210m3/h)	1750USgpm (397m3/h)



ULTRA FINES RECOVERY RANGE

# ROCSAND

## 6 | 12 | 20 | 30 | XL

Designed for the Manufacturing Sand sector, the Modular Sand Wash Plant is integrated with a Water Treatment Plant that delivers results & rock solid reliability



## SPECIFICATION

### KEY FEATURES

Length	25.9m
Width	16.7m
Height	7.7m
TPH	100 Feed. 80tph -5mm sand.

- Modular Sand Wash Plant with Integrated Water Treatment Plant
- Designed for M-Sand sector
- Containerized transport
- Fast Setup Time
- Pre-wired at factory
- Designed for Ease of Maintenance with Open Chassis Frame
- Small Machine Footprint

### HOPPER

- 6m3 capacity hopper
- Fully electric drive
- Manual tipping grid
- 900mm wide feeder conveyor
- Variable speed belt feeder with adjustable hopper door
- Polyurethane belt blade scrapers

### SAND PLANT

- Direct feed washbox for dry feed with water manifold
- 12ft x 6ft (3.6m x 1.8m) dewatering screen with modular polyurethane modules
- Rubber isolation springs
- 200mm high polyurethane side liners
- 3 independently regulated spraybars
- 500mm hydrocyclone
- 200x150 rubber lined slurry pump
- Polyethylene lined product chute
- Self regulating sump tank

### FEED CONVEYOR

- 650mm wide (26") x 9.7m long conveyor
- Polyurethane belt scraper
- Electric drive

### PRODUCT CONVEYORS

- 650mm wide (26") x 8m long
- Polyurethane belt scraper
- Electric drive

### THICKENER TANK

- 6m diamter
- High torque 4 arm rake
- 100/100 centrifugal sludge pump
- Automatic pneumatically control valves for sludge discharge
- 29m3 clarified water storage tank
- Automatic flocculant dosing tank

STATIC RANGE

# BUCKETWHEEL

## 10 | 15

Highly efficient Bucket Wheel range of Sand Classification Systems designed to operate with maximum versatility for efficient dewatering and fine sand recovery. The twin bucket units provide the removal of clays, silts and slimes to produce up to 2 grades of sand.



## SPECIFICATION

### KEY FEATURES

	BW10	BW15
Length	9.4m	5.95m
Width	3.1m	3.1m
Height	3.66m	3.25m

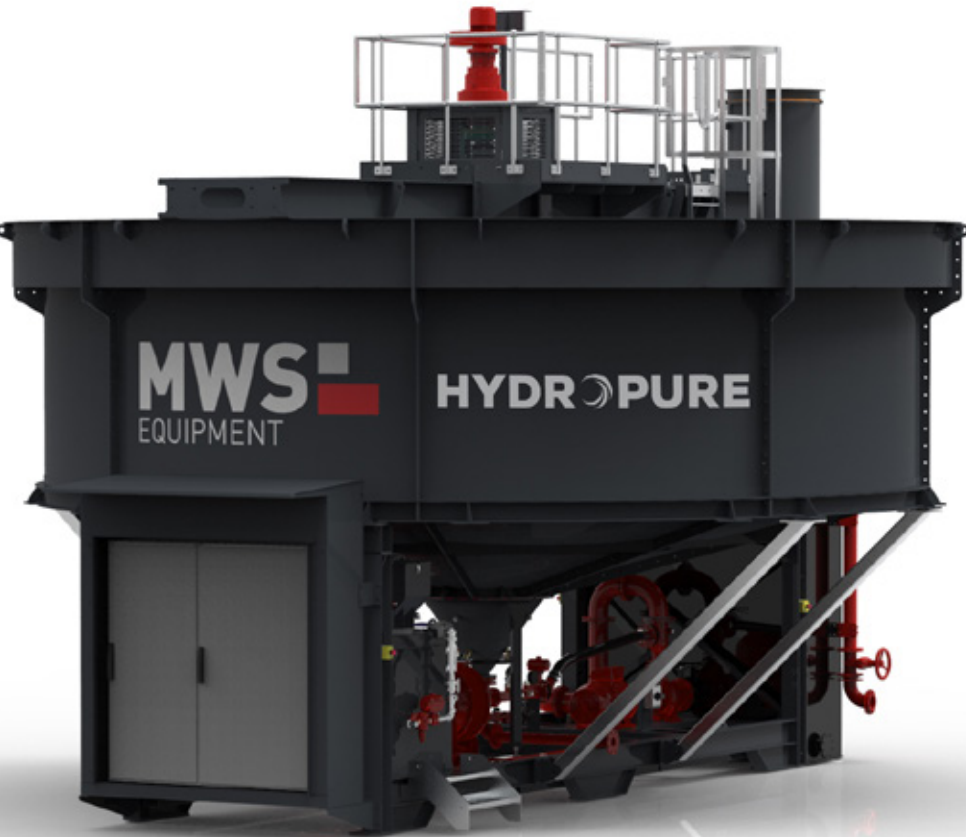
- They are a lower capital cost machine for sand classification
- Low operating cost and power consumption
- The bucket range can be driven from an electric power supply or coupled to an S machine
- Some of the models can classify one or 2 grades of sand
- Long length settlement area and large weir area to increase retention of +63 micron particles
- Speed adjustable bucket wheel and Auger screw
- Fits into 1 x 40ft container



RANGE 7 | 8 | 10 | 12

# HYDROPURE

Designed to maximise water recovery while minimising footprint, HydroPure offers design flexibility



## SPECIFICATION

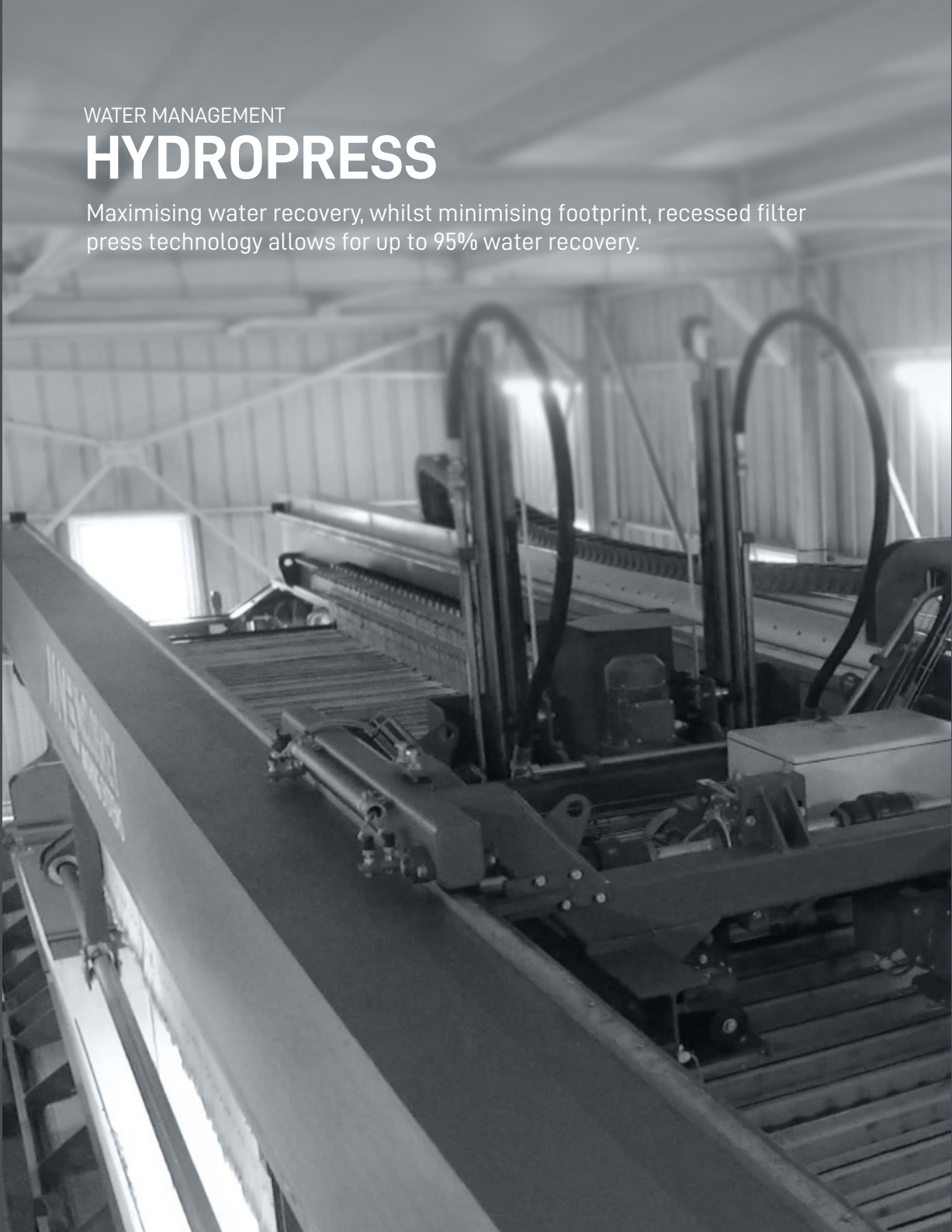
### KEY FEATURES

- Designed to maximise water recovery
- Range of diameters to meet various water flows
- Flocculant makeup and dosing station, on chassis or located remote
- Automated control of sludge discharge and other major functions
- Standalone control panel or integrated into wash plant system control
- Can be used to feed filter press via buffer tank or reduce volume of effluent going to pond
- Minimum footprint
- Flexibility of design

WATER MANAGEMENT

# HYDROPRESS

Maximising water recovery, whilst minimising footprint, recessed filter press technology allows for up to 95% water recovery.



## SPECIFICATION

### KEY FEATURES

By using an MWS, Water Treatment Plant it is possible to:

- reuse up to 95% water
- minimise environmental impact
- reduce need for settling ponds
- improve health and safety onsite

### DESIGN FEATURES

- Side and overhead beam designs
- Various plate sizes and chamber thicknesses
- Fully automated operation – unmanned operation
- Automatic cleaning process

### OPERATIONAL FEATURES

- Maximise water recovery – up to 95%
- Reduce the overall plant footprint by removing settling ponds
- Filter cake can be used as capping material or for agriculture purposes (subject to testing and approval)



PRE WASH

The modular wash plant arrives on-site almost fully assembled in containerized modules with fast set up and easy to assemble. Additional modules can be added as needed to create a complete wet processing plant that is flexible enough to meet any production need.



SPECIFICATION

KEY FEATURES

METRIC	6	12	20
Flow Rate (m³/hr)	180	350	580
Sump Dia (m)	2.5	3.6	4.2
Pump	150/125	200/150	250/200
Cyclone (HK)	150	200	250
Power (Kw)	18.5	37	55

IMPERIAL	6	12	20
Flow Rate (USgpm)	790	1500	2500
Sump Dia (ft)	8.2	11.2	13.8
Pump	60/125	200/6	10/8
Cyclone (HK)	150	200	250
Power (Hp)	18.5	37	55

- High Wear Resistance Rubber Lined Split Case End Suction Centrifugal Pump
- Fitted with Self Lubricating Gland Seal
- Fully Rubber Lined Suction and Discharge Pipework
- Separator Style Dewatering Cyclone used to optimise silt removal over a wide range of feed material
- Conical Sump design to maximize silt removal from feed material
- Rubber Lined Anti Turbulence Feed System
- Drain Valve
- Sectional Design for Ease of transport
- Rubber Lined Sand Outlet Chute Complete with Flush Water connection

ULTRA FINES RECOVERY

The MWS Ultra Fines Recovery Plants are designed to provide maximum performance in reducing pond sedimentation, while producing dry, in spec sand. UFRs provide the finest size-fraction recovery available without the use of added chemicals.



SPECIFICATION

KEY FEATURES

METRIC	UFR 6	UFR 12	UFR 20	UFR 30
Flow rate (m³/hr)	170	290	580	865
Cyclones	2	3	5	8
Pump	150/125	200/150	250/200	250/200
Motor (Kw)	37	45	75	110
Screen	2.4x1.2m	2.4x1.2m	3.6x1.5m	3.6x1.5m

IMPERIAL	UFR 6	UFR 12	UFR 20	UFR 30
Flow rate (USGPM)	760	1270	2540	3810
Cyclones	2	3	5	8
Pump	6/5	8/6	10/8	10/8
Motor (Hp)	50	60	100	150
Screen	8x4	8x4	12x5	12x5

- High efficiency recovery of overflow from sand plant
- Designed to reduce the volume of material going to a settling pond or filter press
- Small diameter cyclones design to maximise recovery of material 38µ (#400) and above
- Flexibility of design and throughput to match customer demands
- Quick installation and setup
- Various control system options available



**FROM CONCEPT TO REALITY  
WE SUPPORT YOU  
THROUGHOUT  
THE PRODUCT  
LIFECYCLE**

## **LIFECYCLE SOLUTIONS**

**PRE-SALES**



**PROJECT DELIVERY**



**AFTERSALES**



**OPTIMISATION**







# AFTER SALES SERVICE



Our partners all operate with full trained service & application support teams. This ensures the customer receives OEM level support locally.



Between MWS & our partners, we ensure that all equipment sold has critical spares held locally & additional volume held at the MWS factory.



We offer tailored service solution packages on our systems to ensure the equipment has maximum uptime.





SANDSTORM<sup>TM</sup> 620  
MWS

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A Metso: Outotec Business

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