



Smarter  
Washing  
Solutions

**SAND SCREW**  
Screw Washer Range





## Smarter Washing Solutions

Around the globe, the Mining and Minerals industry is met with challenges and uncertainty.

There is a growing need to meet today's stringent specifications for cleaner and higher quality aggregates, more effective water recycling processes and the drive to provide highly productive equipment. It is therefore vital to invest in a flawless washing system, that is made to be more productive and smarter today than ever before.

McCloskey International has been a market leader for more than 30 years in providing superior quality equipment to a large customer network worldwide.

To ensure we remain at the forefront of our industry, we make it our goal to assure our customers that the service we provide is second to none and, that we continually meet their exact specifications for their requirements.

We have two state of the art manufacturing facilities, our headquarters in Ontario, Canada and European headquarters in Co. Tyrone, N. Ireland. McCloskey International is the largest

independent manufacturer of portable crushing, screening and washing equipment in the world.

MWS is the obvious choice to be the preferred partner in delivering the Modular, Mobile and Static Washing Systems worldwide.

Our unique approach incorporates partnership, engagement and collaboration underpinned by market leading experience and a commitment to the highest health and safety standards. We ensure the appropriate skill set is applied to the design and quality to all our washing products to meet the specific challenges of our customers' requirements.

MWS is the perfect choice for taking your challenges and delivering smarter and more efficient solutions to washing.



The McCloskey 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.

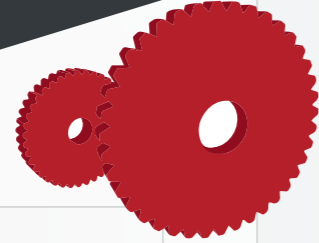
McCloskey Sand Screws can be used in conjunction with our static and mobile washing screens to effectively recover and dewater your washing sand. It offers a low cost solution to sand/fines recovery after rinsing and passing through a washing screen.

McCloskey strives to provide the most robust and reliable equipment for the most demanding applications. We listen and collaborate with our customers to ensure best outcomes for their projects.





# SAND SCREW 3625S/4432S



## MCCLOSKEY GEAR REDUCER

- Heavy-duty design with heat-treated helical gears
- Triple reduction gearing allows 100% to 16% speed changes
- 100% of the shaft's thrust load carried by the output shaft(s)
- Oil bath lubrication for maintenance-free operation
- Drive guards standard equipment

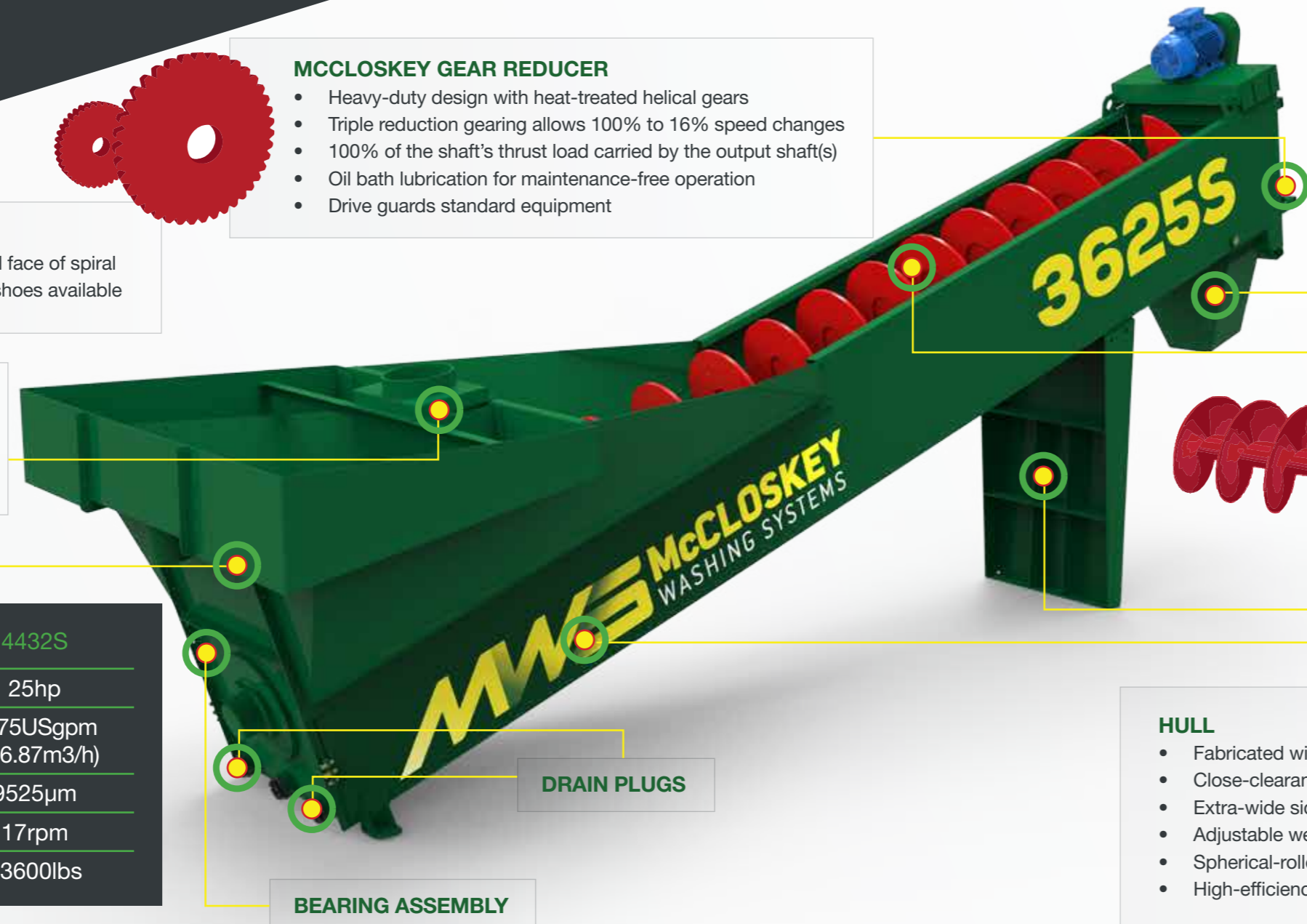
## WEAR SHOES

- Wear shoes cover the full face of spiral
- Optional urethane wear shoes available

## FEED BOX

- Internal and external baffles to deaden feed velocities
- Provides uniform slurry mixture for maximum product retention

## OVERFLOW WEIR



## OPTIONAL EQUIPMENT

- Discharge chute with chute liners
- Washer supports
- Pillow-block rear bearing(s)

## DISCHARGE CHUTE

## SCREW SHAFT

- Helical spiral segments with continuous submerged arc weld
- Extra-thick, one piece shaft tubing

## WASHER SUPPORTS

## HULL

- Fabricated with thick gauge steel
- Close-clearance curved plate runs entire length of shaft
- Extra-wide side flares for maximum product retention
- Adjustable weirs for out of level conditions
- Spherical-roller rear grease bearing(s)
- High-efficiency electric motor(s)

## DRAIN PLUGS

## BEARING ASSEMBLY

REQUIREMENTS:	3625S	4432S
Motor Power Recommended	15hp	25hp
Maximum water for retaining particles down to 140 mesh	600USgpm (136.27m <sup>3</sup> /h)	1175USgpm (266.87m <sup>3</sup> /h)
Max Feed	9525µm	9525µm
Max Screw Speed	21rpm	17rpm
Weight	14500lbs	23600lbs

## KEY FEATURES

### Dimensions & Weights

	3625S	4432S
Length	8.5m (27' - 11")	10.8m (35' - 3")
Width	3.7m (12' - 9")	4.6m (15' - 11")
Height	3.9m (12'-9")	2.2m (7' - 10")
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

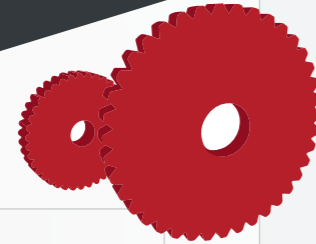
## OPTIONS

- 36" x 25'/44" x 32' Single Screw
- Standalone Electric
- Coupled Hydraulic with 'S' range rinser
- Overflow flume
- Washer supports

## APPLICATIONS

- Sand & Aggregates
- C&D Waste Recycling
- Industrial Sands

# SAND SCREW 3625T/4432T



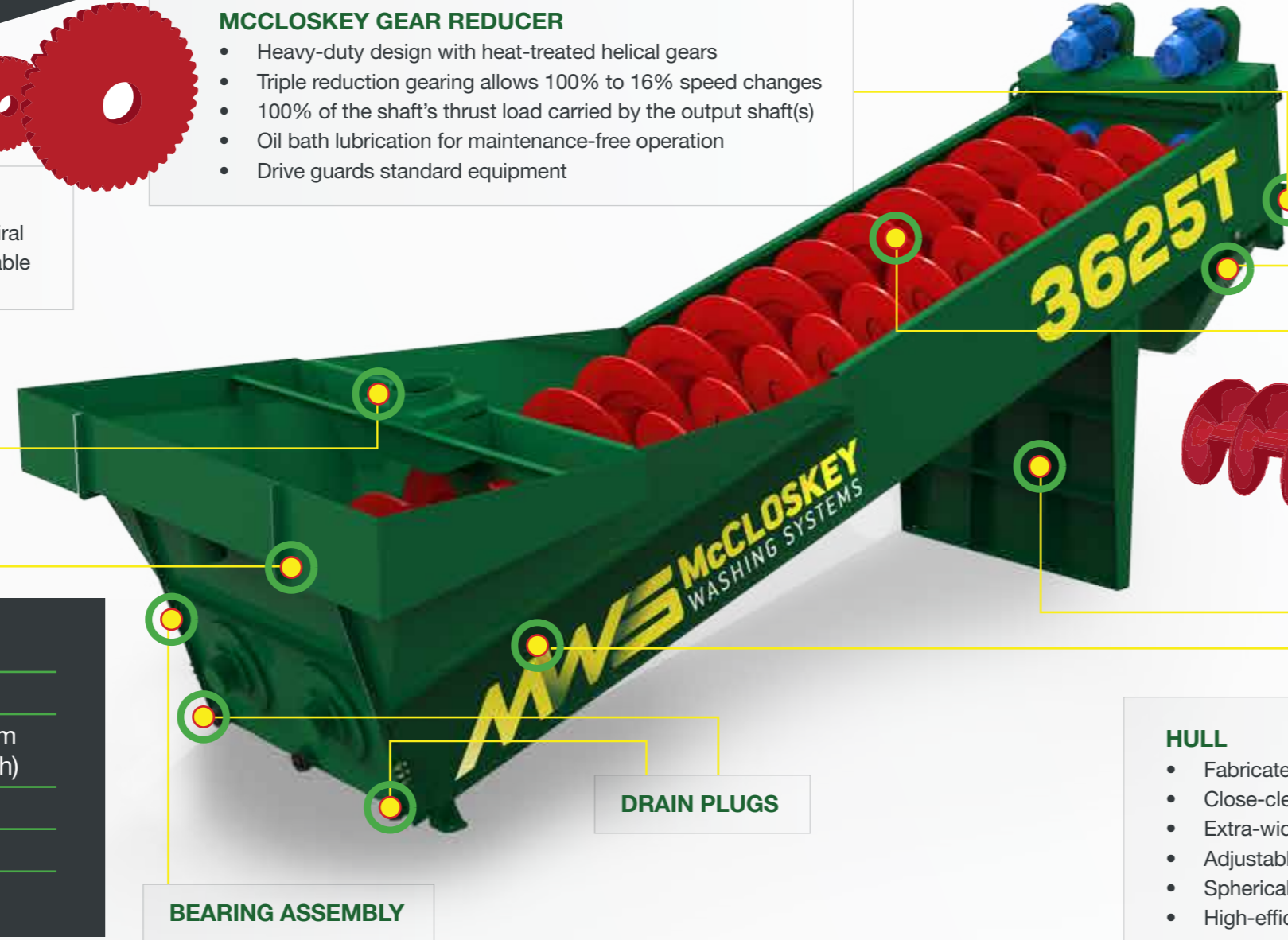
- MCCLOSKEY GEAR REDUCER**
- Heavy-duty design with heat-treated helical gears
  - Triple reduction gearing allows 100% to 16% speed changes
  - 100% of the shaft's thrust load carried by the output shaft(s)
  - Oil bath lubrication for maintenance-free operation
  - Drive guards standard equipment

- WEAR SHOES**
- Wear shoes cover the full face of spiral
  - Optional urethane wear shoes available

- FEED BOX**
- Internal and external baffles to deaden feed velocities
  - Provides uniform slurry mixture for maximum product retention

**OVERFLOW WEIR**

REQUIREMENTS:	3625T	4432T
Motor Power Recommended	15hp x 2	25hp x 2
Maximum water for retaining particles down to 140 mesh	925USgpm (210.09m3/h)	1750USgpm (397.47m3/h)
Max Feed	9525µm	9525µm
Max Screw Speed	21rpm	17rpm
Weight	25500lbs	40000lbs



- OPTIONAL EQUIPMENT**
- Discharge chute with chute liners
  - Washer supports
  - Pillow-block rear bearing(s)

**DISCHARGE CHUTE**

- SCREW SHAFT**
- Helical spiral segments with continuous submerged arc weld
  - Extra-thick, one piece shaft tubing

**WASHER SUPPORTS**

- HULL**
- Fabricated with thick gauge steel
  - Close-clearance curved plate runs entire length of shaft
  - Extra-wide side flares for maximum product retention
  - Adjustable weirs for out of level conditions
  - Spherical-roller rear grease bearing(s)
  - High-efficiency electric motor(s)

**DRAIN PLUGS**

**BEARING ASSEMBLY**

## KEY FEATURES

### Dimensions & Weights

	3625T	4432T
Length	8.5m (27' - 11")	10.8m (35' - 3")
Width	3.7m (12' - 9")	4.6m (15' - 11")
Height	3.9m (12'-9")	2.2m (7' - 10")
TPH	200 - 220	175

- 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

## OPTIONS

- 36" x 25'/44" x 32' Twin Screw
- Standalone Electric
- Coupled Hydraulic with 'S' range rinser
- Overflow flume
- Washer supports

## APPLICATIONS

- Sand & Aggregates
- C&D Waste Recycling
- Industrial Sands



## SAND SCREW WATER REQUIREMENTS PROCESS

	Dry deck clearing water (water added at the top end of the screw)		Rising current water in the back pool area of the screw washer	
	44"x32"			
	Single	Twin	Single	Twin
USgpm @ 25psi	170	170	190	300
m3/h	38.61	38.61	43.15	68.14
Connection Ports	Two (2) ¾"	Four (4) ¾"	Three (3) 1-1/4"	Three (3) 1-1/2"

	Dry deck clearing water (water added at the top end of the screw)		Rising current water in the back pool area of the screw washer	
	36"x25"			
	Single	Twin	Single	Twin
USgpm @ 25psi	170	170	150	275
m3/h	38.61	38.61	34.07	62.46
Connection Ports	Two (2) ¾"	Four (4) ¾"	Two (2) 1"	Two (2) 1-1/4"



## SCREW WASHER CAPACITY

The capacity of the screw washer is related to how fine of a -3/8" sand product being dewatered in the sand screw, specifically how much material is -50 mesh. The finer the sand being dewatered, the slower the screw must operate.

Sand Product passing 50 Mesh	Screw Speed	Dewater Capacity
≤ 15%	100%	100%
≤ 20%	75%	75%
≤ 30%	50%	50%
≤ 50%	25%	25%



## North American Headquarters

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