

MWS McCLOSKEY
WASHING SYSTEMS



Smarter
Washing
Solutions

SANDSTORM™ 620
Modular Wash Range



A Commitment to every mining application

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

Innovative Product Range

McCloskey has a rich history of innovation, which has seen us lead the industry with many new products in every application.

For 30+ years, 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, our service and after sales service are tailored to their specific needs.

This unique approach means that we focus on providing more than just a product, but also a complete solution that adds genuine value to our customers.

Engineering Solutions

Our design team has over 100 years of washing experience in Sand & Aggregates, Waste & Recycling, Mining and Construction sectors. Our application engineering production, technical applications, and R&D team work closely together to design, develop and manufacture bespoke washing solutions.

We have been responsible for many truly ground-breaking products, including the SandStorm™, AggStorm™ and CombiSand™ which ensures we are able to continually meet the ever more stringent requirements of our customers.

Our commitment to Quality & Reliability

We place great emphasis on maintaining international quality standards and our products are approved to CE approval to ensure we meet the highest possible standards for all our products and services.

Our materials are 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 Customer-centric 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 that our quality service and attention to detail goes beyond machine dispatch. This important service is staffed and resourced to provide fast response times and excellent service.

Global Distribution... Local Support

Our washing equipment is distributed through a global network of McCloskey dealers.

Our selected distribution dealers 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.

SANDSTORM™ 620

Due to its 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 serviceable areas.

Its unique features deliver exceptional results with minimal maintenance required.

The Sandstorm™ unique design has eliminated spillage of water and materials, creating a clean and safe working environment.



1. Feed into hopper
2. Material travels up the main conveyor
3. Material is washed and sized on rinsing screen
4. Sand and silt mixture (slurry) passed through bottom deck
5. Slurry pumped to hydrocyclones
6. Hydrocyclones separate sand and silt
7. Sand is dewatered
8. Washed sand sent to stockpile
9. Waste silts removed

KEY FEATURES

Dimensions & Weights

Length	148ft (45.2m)
Width	111.5ft (34m)
Height	26ft (7.9m)

- Modular design
- Containerized transport
- 1 water connection point
- Fully automated
- Quick setup time
- Radio controlled
- Full plant LED flood lighting

OPTIONS

- Vibrating grid
- Main conveyor covers
- 100ft conveyors (30.5m)
- 2 deck screenbox
- Single sand
- Belt weigher on main and product belts
- Overband magnet

APPLICATIONS

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

TECHNICAL DATA

DEWATERING SCREEN

- 14ft x 6ft (4.5m x 1.8m)
- Dual and single sand options up to 200TPH
- Dewatered sand is discharged ready for market

HYDROCYCLONES

- Hydrocyclones produce highly accurate separation of silts and clays from the final washed sand product
- Pump to hydrocyclone delivery system fully rubber lined ensuring maximum wear resistance

WASHBOX

- 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

CHUTE

- Blending chute
- Chute rolls back for maintenance

MAIN CONVEYOR

- 41 inch (1050mm) wide belt
- High quality polyurethane scraper
- Galvanised undercarriage
- Overband magnet option

FEED/HOPPER

- Adjustable feeder and hopper door for consistent material feed
- Large capacity 15ft hopper 16yds³ (12m³)
- Radio controlled Tipping grid
- Grid spacing 4"
- Vibrating grid option
- Variable speed belt feeder

SAND CONVEYORS 1 OR 2

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

WALKWAYS

- Galvanised walkways
- 30 inch (760mm) wide walkways

RINSER SCREENBOX

- 20ft x 6ft (6.1m x 1.8m) 2 deck or 3 deck
- 18 degree optimum working angle
- Rosta tensioned belt drive unit for increased belt life, efficiency and ease of maintenance
- Isolated spraybars
- Integrated fully sealed subframe and catchbox

MAIN TANK

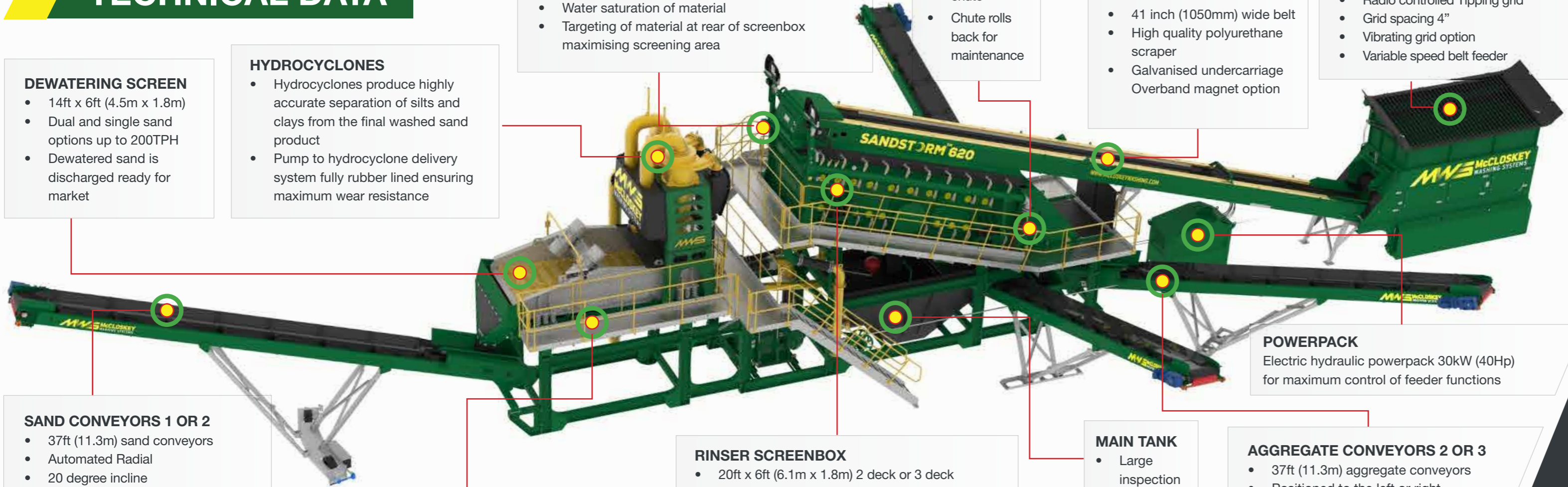
- Large inspection door(s) on tank

AGGREGATE CONVEYORS 2 OR 3

- 37ft (11.3m) aggregate conveyors
- Positioned to the left or right
- 18 degree incline
- Stockpile capacity 125yds³ (95m³)
- High quality polyurethane scraper
- Galvanised undercarriage

POWERPACK

Electric hydraulic powerpack 30kW (40Hp) for maximum control of feeder functions



SANDSTORM™ 620

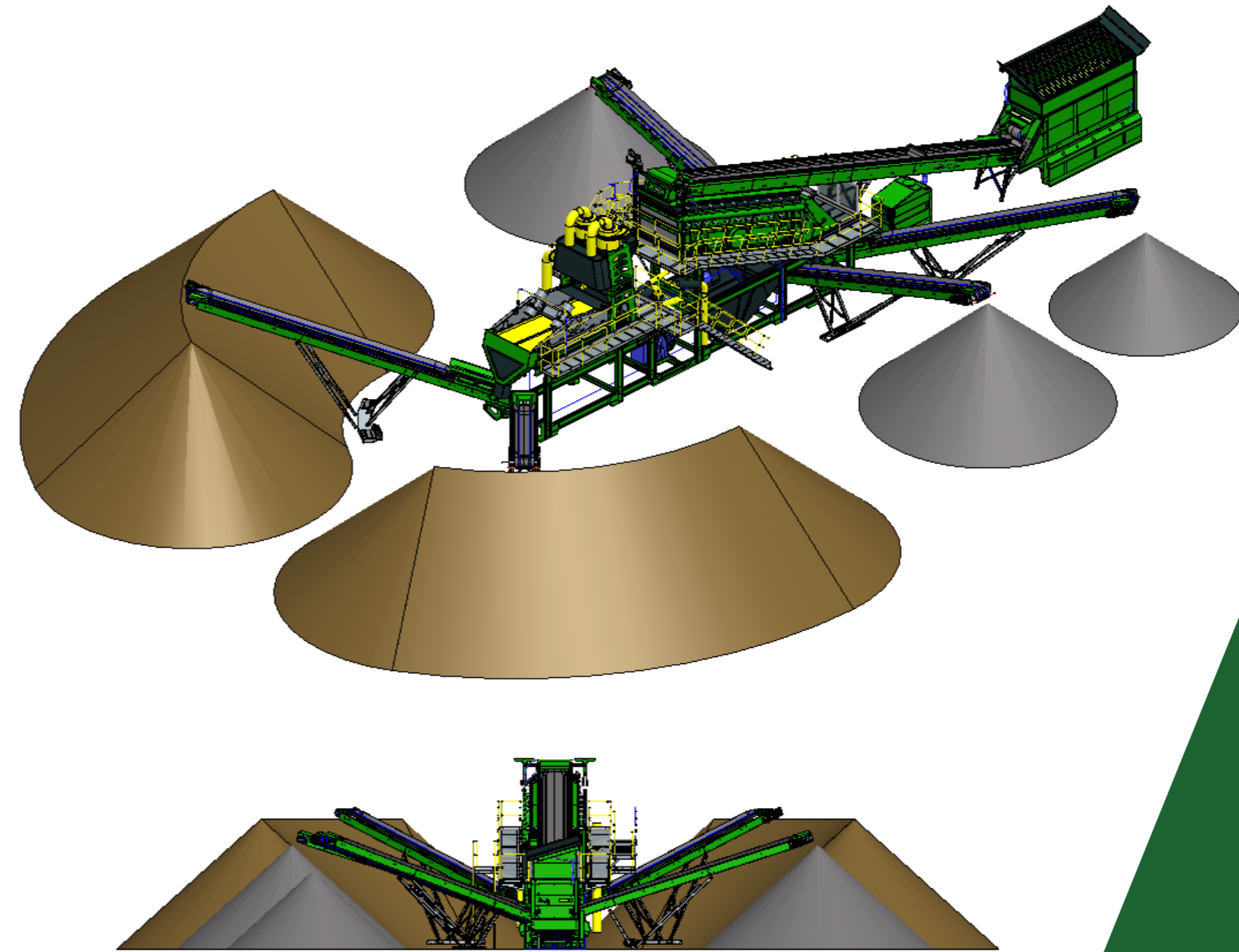
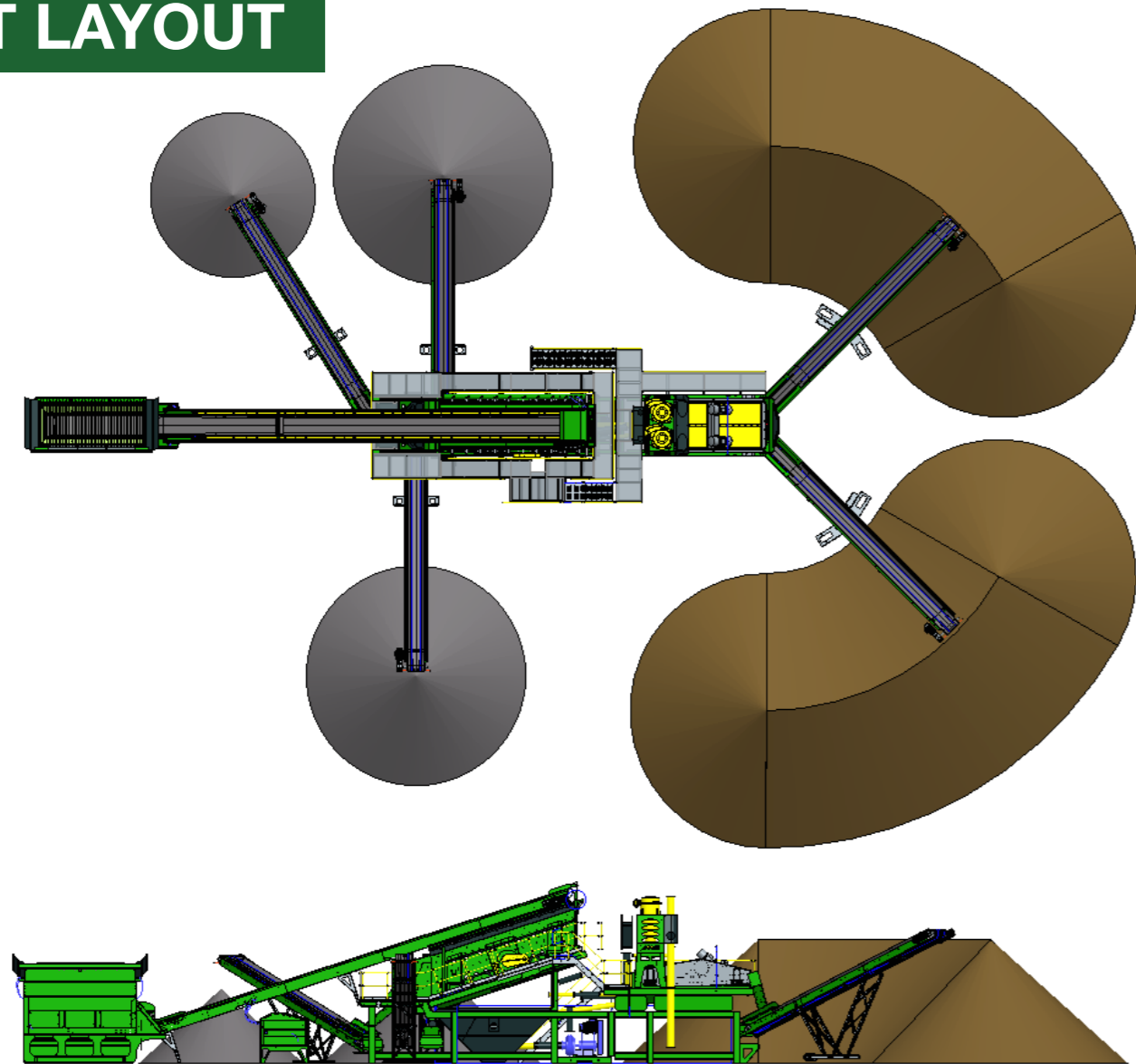
MAXIMUM POWER REQUIREMENT

	3 DECK	3 DECK	2 DECK	2 DECK
	ONE SAND	TWO SAND	ONE SAND	TWO SAND
Total kW	153	172	148	167
Total HP	206	231	198	223
kVA Approx Required	267	300	258	291

AVERAGE WATER REQUIREMENT

	3 DECK	3 DECK	2 DECK	2 DECK
	ONE SAND	TWO SAND	ONE SAND	TWO SAND
m ³ /h	340	340	240	240
US gpm	1497	1497	1057	1057

PLANT LAYOUT



Taking
Washing
to the
next Level

CONTROL SYSTEM

All of our control systems can be modified to suit customer preference and interact with other equipment on site as required.



MACHINE CONTROL SYSTEM

MWS offer a range of control system options on the Sandstorm™ Modular Wash Plant from basic motor isolators on the machine to fully automated controls. Heavy-duty graphical user interfaces are used for ease of operation. All key data such as water flow, pressure, motor current etc. is displayed in real-time to allow operators to keep a close eye on all aspects of the machine. Common functions include automatic start / stop, feeder speed control and conveyor radial drive.

RADIO CONTROL

All major control and automation functions are also available via Radio Control. Our robust transmitter handset is kept with the operator to ensure safe and easy control of the machine.

REMOTE DIAGNOSTICS

The highest level of control allows all key data to be transmitted wirelessly to a second graphical user interface located in the cab of the loader feeding the Sandstorm™. This option gives complete control and information feedback to the machine operator from the comfort and safety of the operating cabin. All operational data as well as any fault codes and parameters are transmitted to the loader display module providing information and warnings to allow the operator to take the appropriate action in a controlled and timely manner.

Wherever
There's
Washing,
We're
There.

OUR GLOBAL NETWORK

Our drive to expand our operational footprint has been a hallmark of the business for many decades. We now trade and operate in more than 100 countries.

McCloskey's success is built on a reputation for designing and manufacturing top quality equipment which offers exceptional value. But this success is not due to McCloskey alone. Key partners in our business are the dealers who market, support and service the products we build.

Excellence.
Simply
delivered.



At MWS we are committed to:

Providing our customers with the highest performance and most reliable products. Our customers rely on us to deliver quality products that go above and beyond expected performance.

Delivering Innovation. We are constantly striving to improve the Mining & Minerals and Waste & Recycling industry by integrating new technologies. These allow our customers to add maximum value, to produce high quality end products and to strengthen their market share.

Maintaining the highest standards for safety and quality is reflected in our innovative methods and our state of the art technology. Most of all, that commitment is reflected in the dedication and expertise of the people who work for us.

AFTER SALES SERVICE

Following delivery of our highly productive products, our customers benefit from a comprehensive After Sales Service which ensures that our quality service and attention to detail goes beyond machine dispatch. This important service is staffed and resourced to provide fast response times and excellent service.



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