

**MWS** McCLOSKEY  
WASHING SYSTEMS



**SMARTER  
WASHING  
SOLUTIONS**

**SANDSTORM™ 620**  
Modular Wash Range

**McCloskey Washing Systems'** (MWS) design team has over **100 years** of washing **experience** with a distinct capability for **Material and Mineral Washing** needs in **Aggregates, Waste & Recycling, Mining and Construction** sectors.

## Choose **MWS** to help you find a **SMARTER SOLUTION** for your **WASHING NEEDS**

Across 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 than 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 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 across the globe.

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 into the design and quality to all our washing products to meet the specific challenges of our customer's requirements.

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

# 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
- 18 degree incline
- High quality polyurethane scraper
- Galvanised undercarriage
- Overband magnet option

**FEED/HOPPER**

- Adjustable feeder and hopper door for consistent material feed
- Large capacity 15ft hopper 16yds<sup>3</sup> (12m<sup>3</sup>)
- 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 575yds<sup>3</sup> (440m<sup>3</sup>)
- 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**

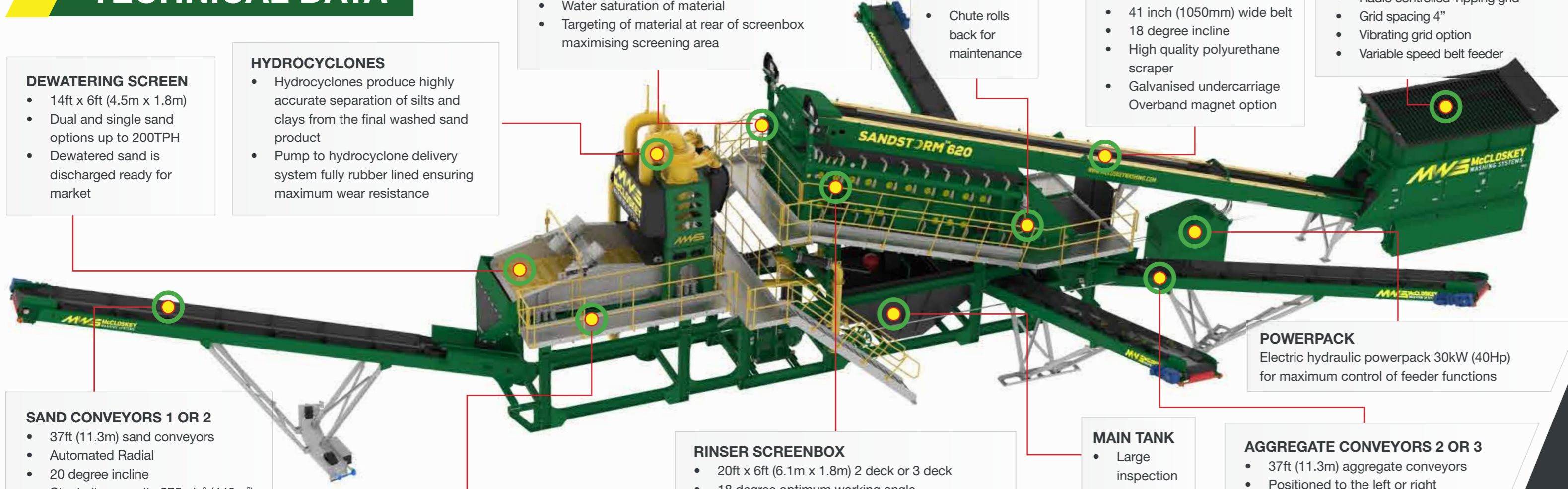
- Large inspection door(s) on tank

**AGGREGATE CONVEYORS 2 OR 3**

- 37ft (11.3m) aggregate conveyors
- Positioned to the left or right
- 18 degree incline
- Stockpile capacity 125yds<sup>3</sup> (95m<sup>3</sup>)
- High quality polyurethane scraper
- Galvanised undercarriage

**POWERPACK**

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



# SANDSTORM™ 620

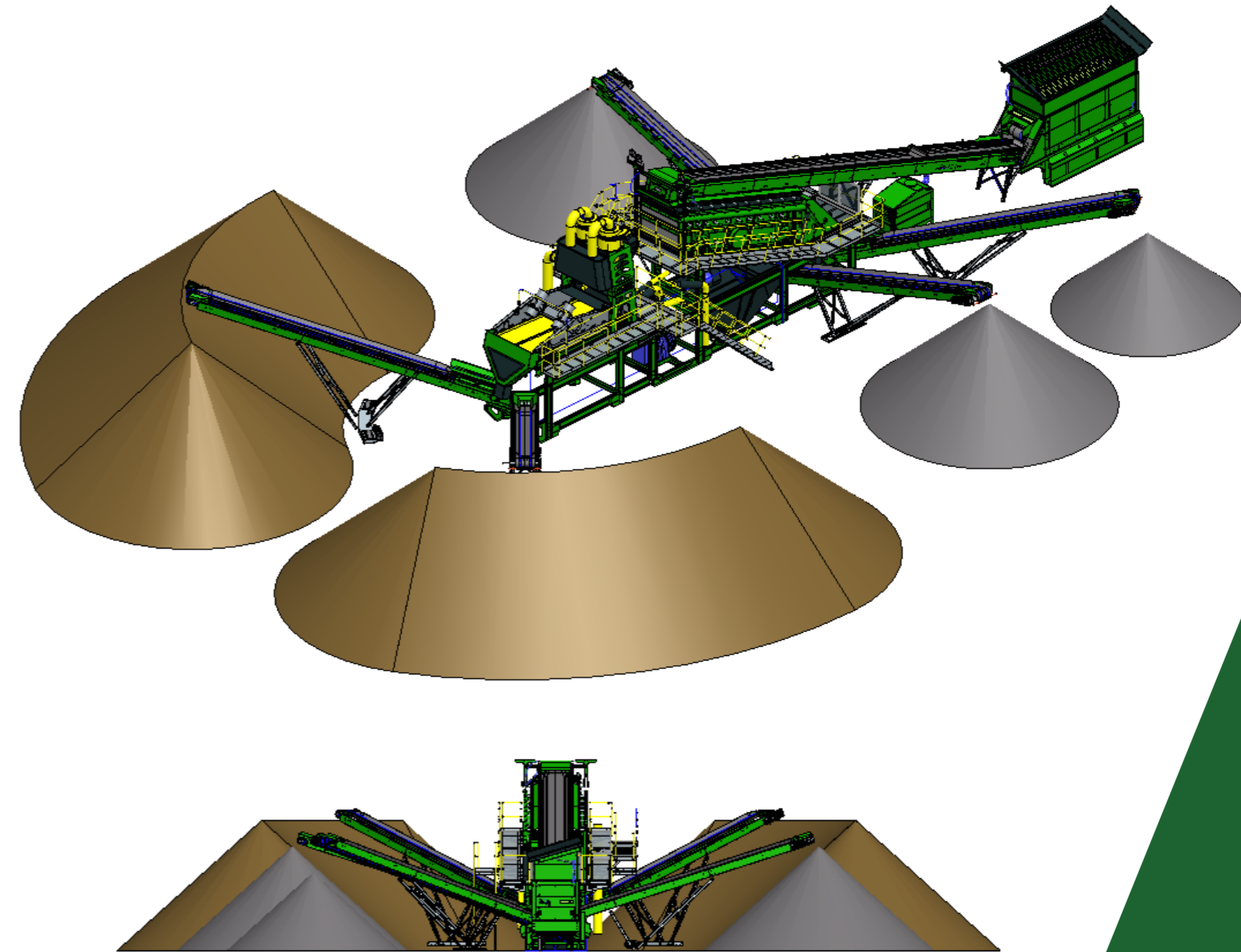
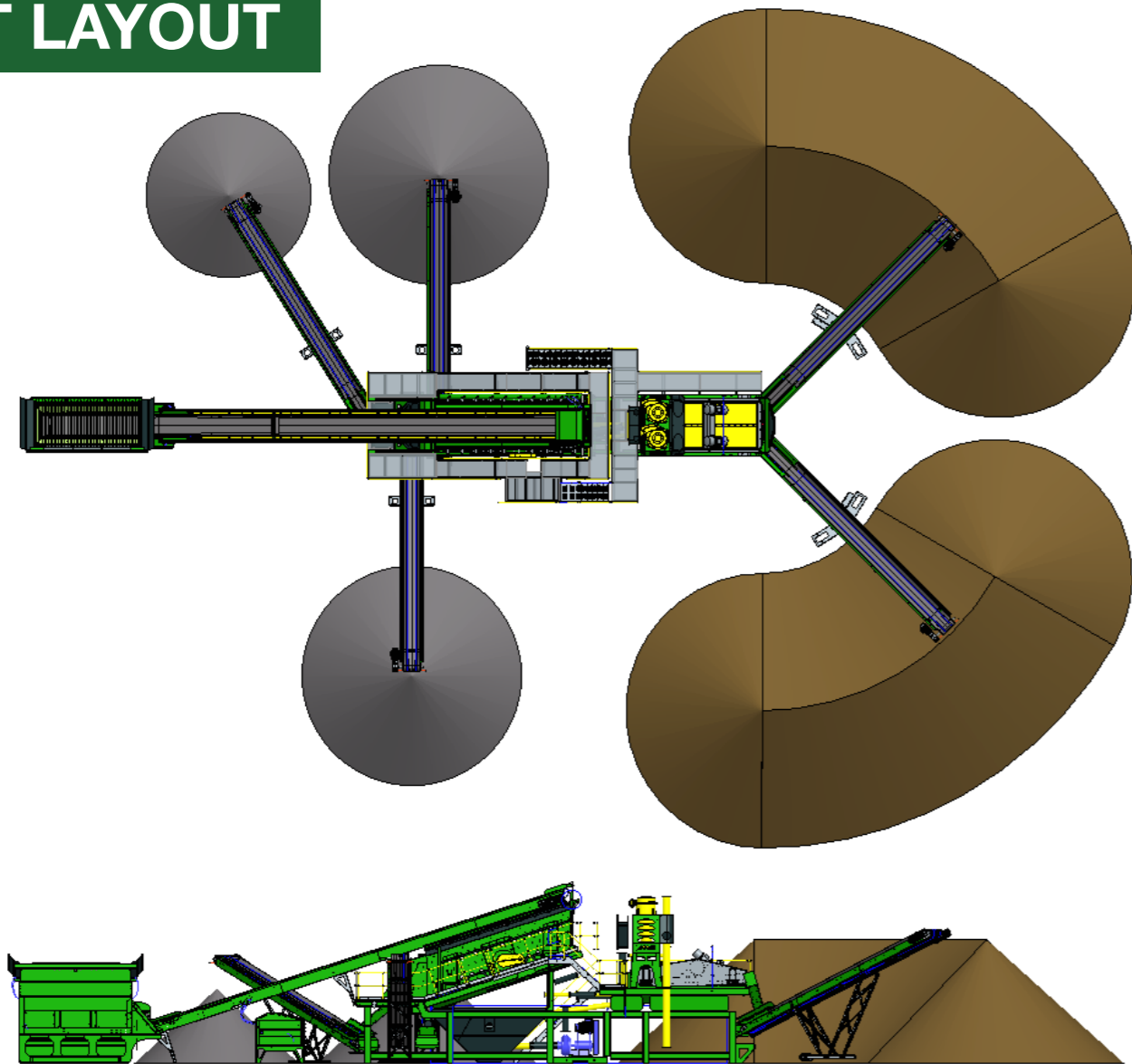
## MAXIMUM POWER REQUIREMENT

	3 DECK	3 DECK	2 DECK	2 DECK
	ONE SAND	TWO SAND	ONE SAND	TWO SAND
Total kW	153	164	148	159
Total HP	206	220	198	213
kVA Approx Required	267	286	258	277

## AVERAGE WATER REQUIREMENT

	3 DECK	3 DECK	2 DECK	2 DECK
	ONE SAND	TWO SAND	ONE SAND	TWO SAND
m <sup>3</sup> /h	340	340	240	240
yds <sup>3</sup> /h	445	445	314	314

# PLANT LAYOUT



## 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.

## 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.



# 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 and Minerals 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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