

Underground Equipment



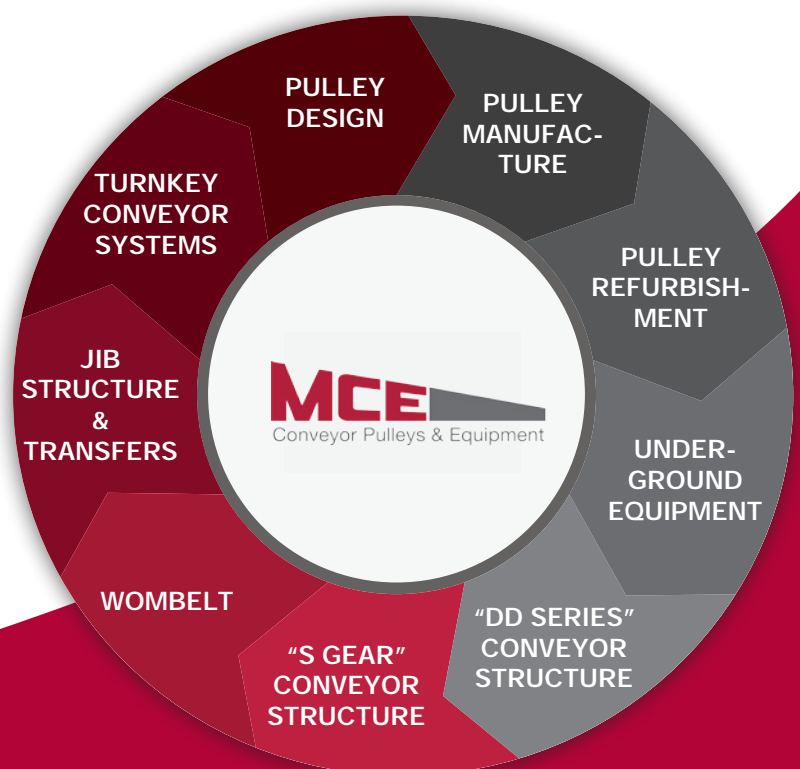
TSGlobal[®]
Conveyor & Polyurethane Specialists



Introducing the latest addition to TS Global - Mackay Conveyor Equipment (MCE), founded in 2010. We are excited to announce the acquisition of MCE, a highly respected manufacturer of conveyor components and accessories. With this strategic move, TS Global is taking a significant step forward in our mission to deliver innovative and efficient conveyor solutions to our clients. MCE is known for its exceptional expertise in designing, manufacturing, overhauling and commissioning material handling equipment for surface and underground mining.

With a unique combination of construction/projects, maintenance, manufacturing and design experience within our team, MCE provide a diverse range of products and solutions for all industries.

-  Proven Performance
-  Quality Product
-  Flexibility in Design
-  On-time Delivery





CONVEYOR PULLEY DESIGN

We specialise in custom pulley solutions tailored to our clients' specific needs. Our engineering team has developed a customised design program to calculate normal, running, and start-up stresses, ensuring that our pulleys can withstand even the most demanding applications. We use 3D modeling and FEA to virtually test each design before production, guaranteeing their quality and reliability. Our capabilities include live or dead shaft pulleys in drive and non-drive configurations, providing customised solutions for any application.

CONVEYOR PULLEY MANUFACTURE

Our pulleys are manufactured using Australian materials and superior components, resulting in a durable product engineered for exceptional value, reliability, and performance. Our pulleys deliver optimal results that meet the highest standards of quality.

CONVEYOR PULLEY REFURBISHMENT

We provide a cost-effective refurbishment service that delivers our clients with a pulley that will perform optimally. This service is equipped with a rapid response time, minimising the impact on our clients.

Our services include:

- Strip, inspect and capture of critical measurements
- Detailed condition report and estimate
- Sourcing of quality parts and materials
- Dispatch on a custom-built pulley transport frame
- Assembly by our specialised technicians
- Lagging to customer specifications
- Testing in our unique, dynamic test rig
- Stringent quality assurance regime

CONVEYOR PULLEY QUALITY ASSURANCE

Our manufacturing and refurbishment services includes comprehensive quality assurance verification as per client specifications (i.e. Inspection and Test Plan, Manufacturers Data Report). Our specialised pulley test rig uses real-time SKF condition monitoring technology for precise analysis.

Underground Mining Equipment

Our unwavering commitment to safety drives everything we do in underground mining operations. This steadfast focus has led us to develop groundbreaking designs that not only enhance efficiency but also prioritise the safety. These innovative solutions have been designed with a focus on minimising the manual handling risk to personnel during installation, requiring fewer people for deployment. This approach not only streamlines the process but also ensures that safety remains at the forefront of our operations.



HYDRAULIC JIB - "JIBAROO"

The MCE Maingate Jib and Transfer is the ideal solution for high-capacity maingate conveyors. This innovative system is pre-assembled for easy transportation, which greatly reduces setup and installation time. Additionally, it is demountable for pulley change-out if needed, and requires no roof support structure.

The hood and spoon arrangement of the "Jibaroo" can be adjusted to accommodate a range of transfer angles, making it a versatile choice for various conveyor systems. Moreover, it comes equipped with retractable idler frames and hard-facing on skirt plates, providing excellent impact protection.



Jibaroo
Video

DRIVE MODULES AND TRIPPERS

We understand the importance of consistency and adaptability when it comes to conveyor system design. That's why we've developed drive modules and tripper/booster drives that are built with a modular approach, allowing for a consistent design across conveyor systems while still being adaptable to various belt types, pulley diameters, tensions, and relaxation distances between drives. We can also integrate a range of drive technologies, which can be mounted via rigid coupling torque arm or aligned drives on pedestal bases. Our drive systems are capable of handling substantial power, with drive powers commonly reaching 750KW per drive and a total of 1.5MW per drive station.

TAIL/BOOT END

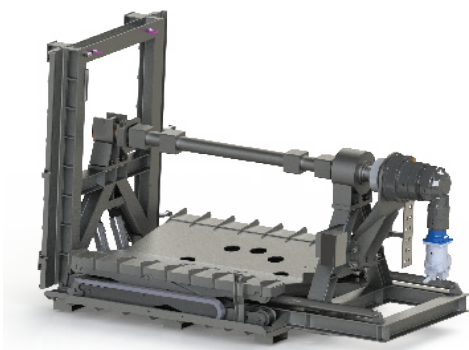
We offer boot ends in various configurations to accommodate belt widths from 1050mm to 2000mm. We provide trough bars or retractable impact frames and can even offer mobile track driven boot ends on request, providing a versatile solution for your conveyor system needs.



BELT REELER - “WOMBELT”

MCE is proud to break with tradition by offering a unique belt reeling system that stands out in the market. Unlike other systems, our solution is designed to receive and install the belt in the correct orientation for transport, eliminating the need for additional rotators or pivot tables. This innovative approach significantly reduces the manual handling requirements whilst increasing efficiency and reducing the risk of belt damage. With the “Wombelt”, you can trust that your conveyor system will be handled with the utmost care and efficiency.

We are committed to providing reliable and efficient solutions for conveyor belt handling, installation, removal, and repair in continuous conveyor systems. Our comprehensive range of belt maintenance systems includes reelers, pinch roll sets and clamps that are expertly designed and optimized for managing belting in the work area. Each of our systems is carefully analyzed using Finite Element Analysis (FEA) and approved by registered engineers, ensuring maximum safety and reliability.



**Wombelt
Video**

PINCH ROLL/CLAMPS

We understand that operational flexibility is key to achieving optimal performance in conveyor systems. That's why we've developed a modular pinch roll and clamp system that offers unparalleled versatility. Our system is made up of individual modular canisters, which can be installed singularly or as a set. This innovative design allows for consistent implementation regardless of the orientation or height requirements of the installation, providing a seamless and efficient solution for your conveyor system needs. With MCE's modular pinch roll and clamp system, you can enjoy the highest degree of flexibility, ensuring that your conveyor system is always operating at peak performance.



“DD SERIES” CONVEYOR DRIVE

Our development drive range are an all inclusive mobile conveyor system. Predominately used in a underground coal mine for development or board and pillar operations.

The “DD Series” Development Drive offers several benefits for those in the mining industry. One commissioning of the system is completed prior to delivery, and the compact design of the 75-150KW range means that less time is needed for installation and commissioning on site.

Additionally, the alignment of the loop take up with the ground allows for greater capacity and ultimately offers greater length capability. This also means that there are less stringent requirements on the placement of the tail piece.

The “DD Series” Development Drive also features an on-board starter, ensuring a speedy start-up. Furthermore, the starter can be mounted either on the drive in NERZ or off the drive for ERZ1 applications.

For those requiring dynamic tensioning at higher capacities or longer distances, the VWF winch option is available. Finally, post-installation adjustment of the jib pulley position allows for simple transfer adjustment, ensuring alignment of center loading.





“S GEAR” CONVEYOR STRUCTURE

The “S-Gear” structure system has been developed in response to changes in the industry requiring larger capacity conveyor systems.

The “S Gear” is a highly flexible belt support system that streamlines the conveyor extension and retraction process, significantly reducing the need for manual intervention. This innovative system can be applied to any conveyor system that is regularly or periodically extended or retracted, and is adaptable to work alongside storage loop take ups and other belt maintenance equipment.

With the “S Gear” Conveyor Structure, you can enjoy greater efficiency in your conveyor system, as the structure provides the necessary support while allowing for effortless extension and retraction. Remove tedious manual handling and adopt a more streamlined, automated process.





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