



TYRES WHEELS AXLES

# OTR TYRES WHEELS AXLES EARTHMOVING WHEELS









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# CUSTOM MANUFACTURING

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OTR manufactures wheels and axles to meet clients specifications, be it for a tractor, a harvester, a dump truck or any other machinery that is used in Mining, Construction, Industrial, Agriculture and Earthmoving. When OTR sell the product, the relationship does not end there. On-site support is as important to us as it is to the customer. With tyres to suit the application and backed by an experienced sales & support team, OTR is there to keep you on the move.

OTR is the market leader in the design, development and manufacture of wheels to the 'off-highway' industry. Supplying the world's most respected original equipment manufacturers like Caterpillar, Volvo, Komatsu and Hitachi & Liebherr means that our product, service and delivery must consistently meet the high standards set by these companies.

In addition, OTR designs, develops and manufactures wheels for the agricultural, construction and mining industries. From earthmoving equipment, trucks and tractors to forklift and industrial vehicles, no mobile tyre problem is too big or too challenging. We will get your vehicles on the move again fast, minimizing downtime and maximizing the return on your tyre investments. OTR offers a complete range of wheels, from 6" through to 63" in diameter, including fixed welded wheels, adjustable bolted tractor wheels, demountable (spider mount) rim options and clipon dual applications.

Manufacturing capabilities are backed by the best wheel engineers, Customer Service Department and dedicated sales team all ensuring that components are manufactured to the highest standards and delivered on time. As a customer-focused and process-oriented company, no other wheel manufacturer can match our experience, capability, quality and design. Environmental accreditation along with attention to waste control is a reflection of our company values.

The wheel is the most integral part of a ground vehicle. Every aspect of design and development is unique for each application. By working with our customers we continually improve current designs and research technology to develop more effective products. Our in-house wheel and rim inspection, repair and certification services are performed by our fully qualified staff in accordance with AS:4457.1: 2007 and related standards in Western Australia (WA), Queensland (QLD), New South Wales (NSW) and Victoria (VIC).

## **CUSTOM MANUFACTURING MADE IN AUSTRALIA FOR AUSTRALIAN CONDITIONS**

# TESTING & REPAIRS

All wheel and rim inspections, repairs, modifications and manufacturing are in accordance with AS4457.1:2024 and all other referenced documents. OTR can supply a full service from simple repairs, through to supplying new wheels and components.



1. Wear assessment (NDT Inspection)



2. Back Grinding (Section Replacement)



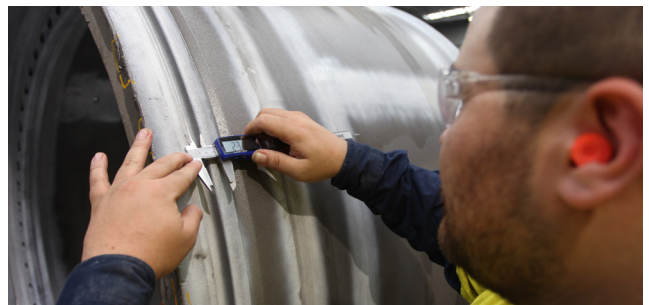
3. Welding (Section Replacement)



4. Welding (Section Replacement)



5. Machining (Repair Preparation)



6. Wear assessment (NDT Inspection)



7. Workshop



8. Finished product.

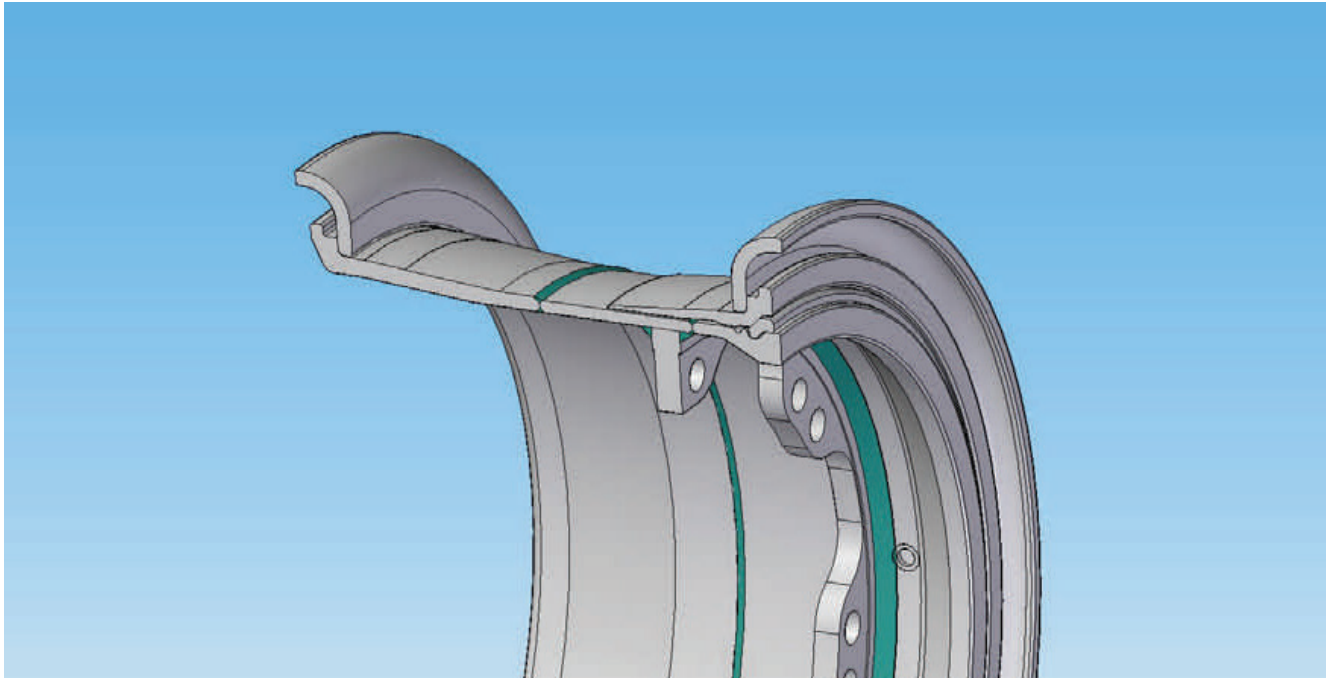


# RIM & WHEEL TYPES

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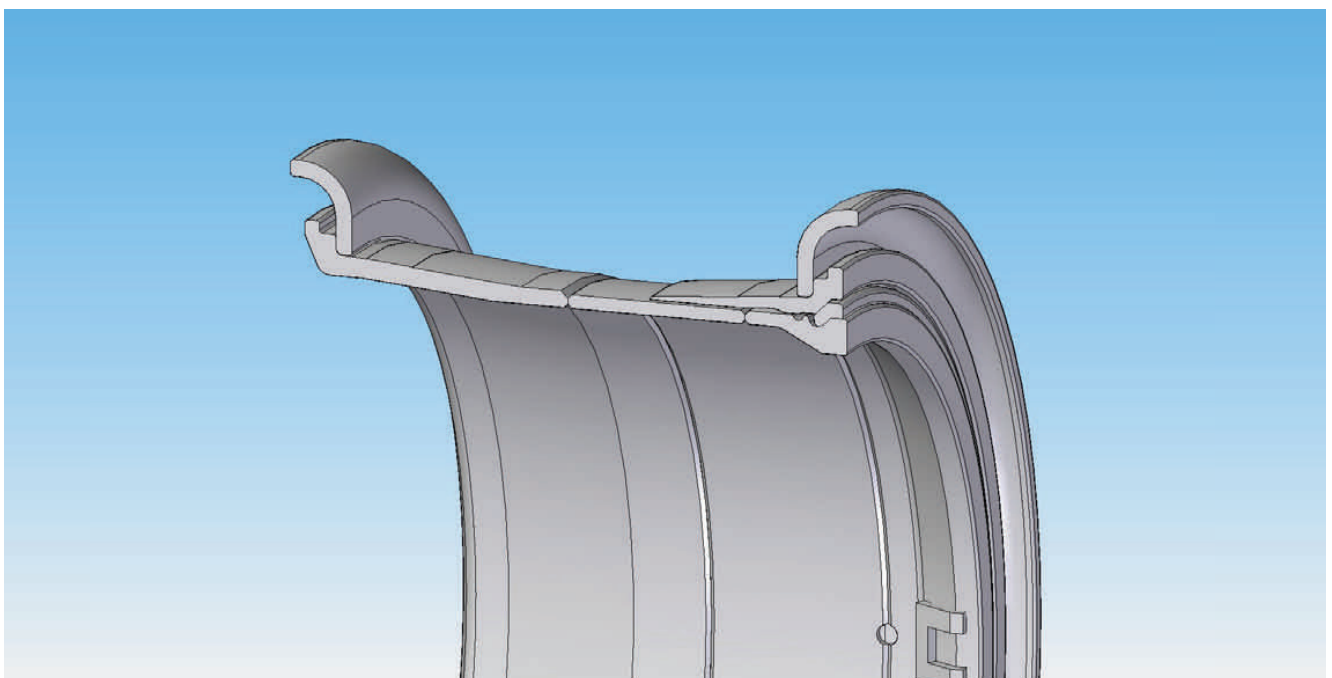
## NON-DEMOUNTABLE WHEEL

**Non-Demountable Wheel** is when a rim is fitted with a mounting disc to suit a specific application.



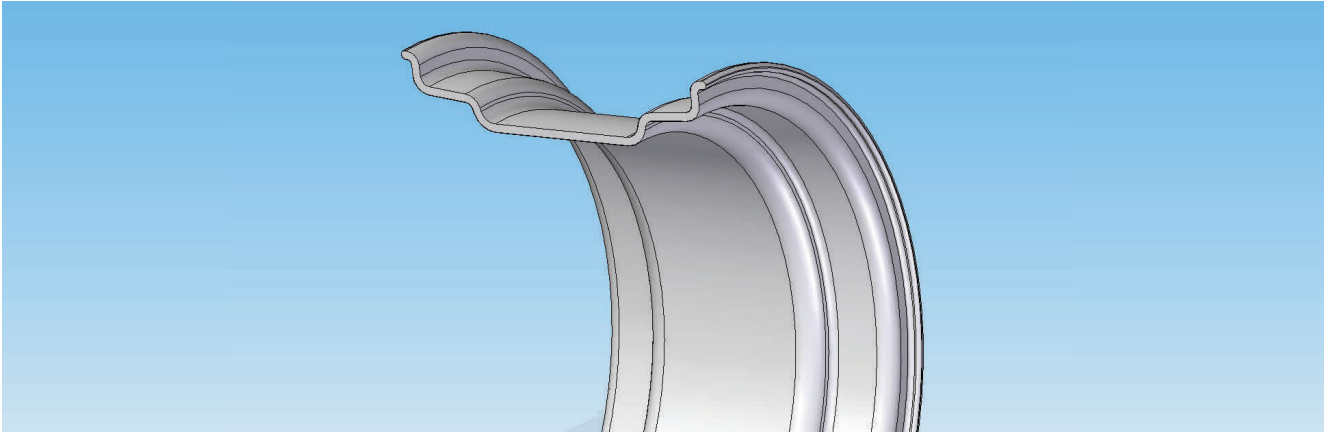
## DEMOUNTABLE RIM

**Demountable Rim** has no mounting disc fitted.

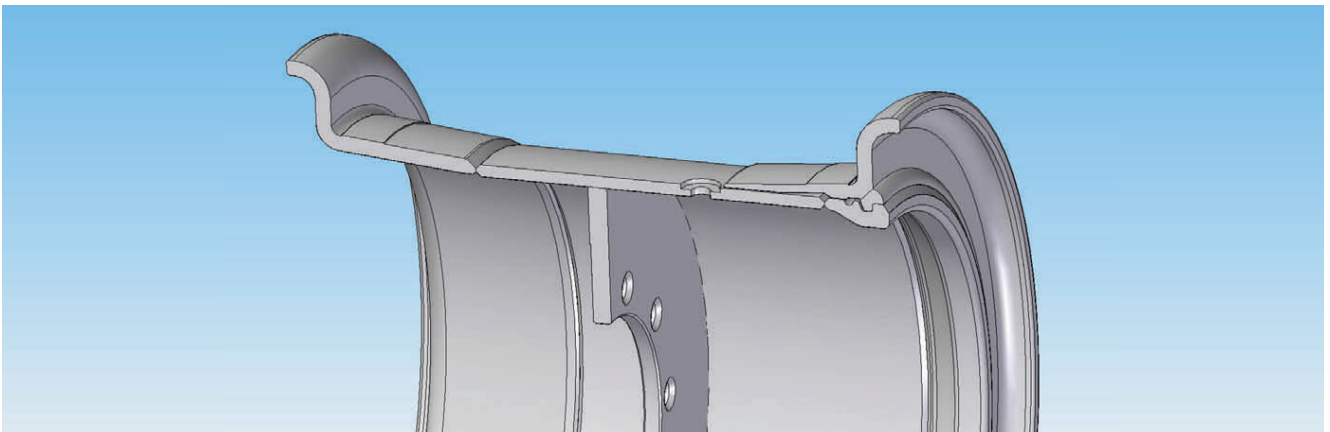


# RIM & WHEEL PROFILES

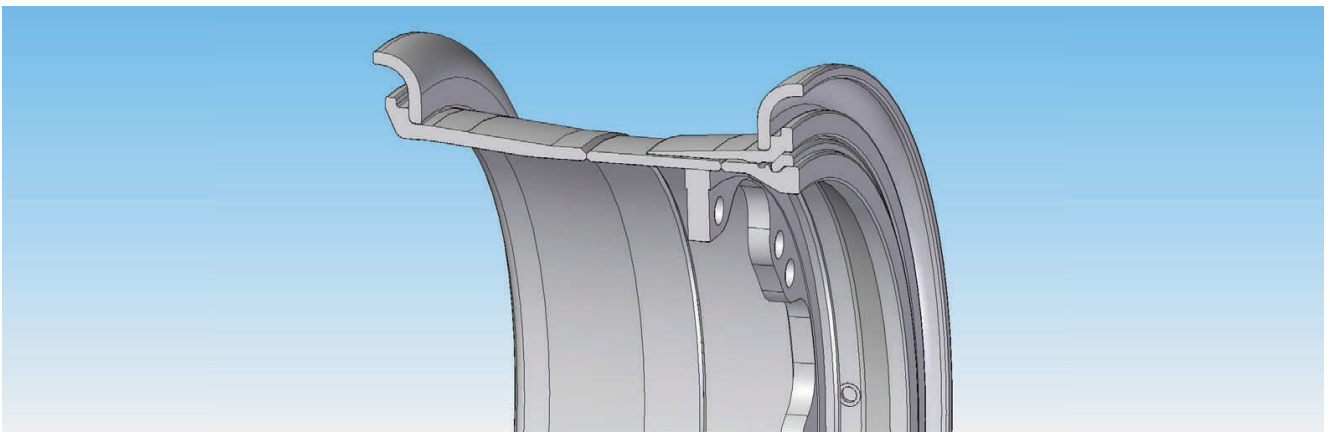
## 1 PIECE ASSEMBLY



## 3 PIECE ASSEMBLY

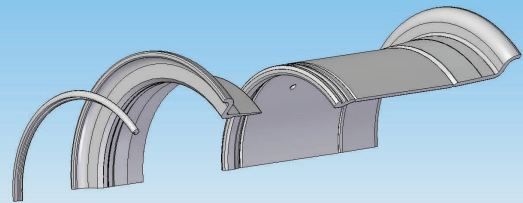


## 5 PIECE ASSEMBLY

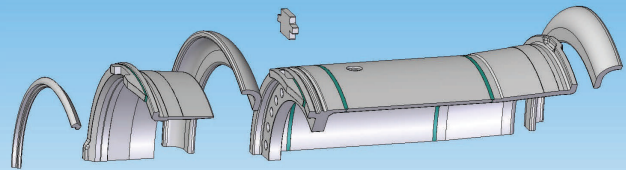


# RIM & WHEEL COMPONENTS

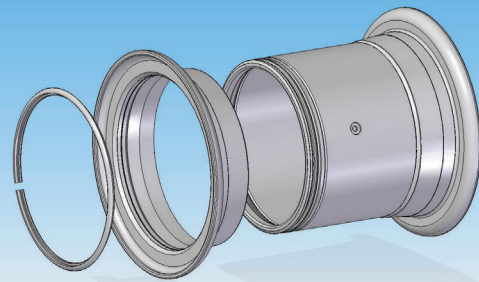
## STANDARD SPECIFICATIONS



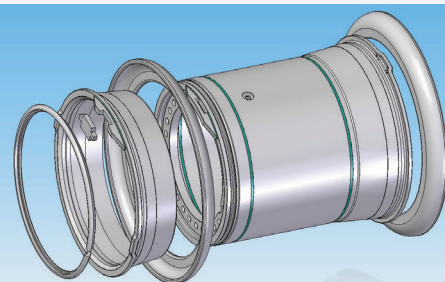
## DRIVER POCKET SPECIFICATIONS



## 3 PIECE RIM STANDARD



## 5 PIECE RIM WITH DRIVER





# QUICK CHANGE RIMS (QCR)

The QCR system provides longer rim life, reduced downtime and lower maintenance costs, combined with improved safety for tyre personnel. The QCR system is specifically designed to meet strict specifications and performance requirements under the demanding loads of large mining trucks.

Compared to the standard fitment five-piece rims currently offered, the QCR provides an increased crack test interval, longer rim life, improved safety and fewer rim based remove/install procedures during tyre changes. The QCR is available as an attachment option for most makes and models of large mining trucks.

## **The benefits of the QCR system:**

- Reduced down time - machine
- Increased crack test intervals up

downtime is reduced by greater than 50 percent on tyre change-out times using the QCR System, when compared to the standard five-piece rims.

- Reduced tyre maintenance costs.
- Reduced manual handling and fatigue on tyre maintenance personnel - the need for tyre service personnel to use impact guns is dramatically reduced, thus improving ergonomics of the tyre change process.
- Quicker tyre change process will encourage more frequent and effective tyre rotations and inspections resulting in improved tyre life.

to 15,000 hours, compared to 5,000 hours for standard five-piece rims.

- Reduced potential damage to wheel retaining bolts, studs and hubs - minimize stud and wheel station damage due to improperly tightened wheel nuts.
- Machines can have the rear tyres (both inner and outer positions) vertically mounted in the same manner as the front tyres without the need to return to the service bay to have the wheel nuts re-tightened (as long as rims have not been removed).
- Minimal level of rim base inventory is required.



## This image shows a single page of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.







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