

The Machined Extreme Service (MES) series of rims and components were introduced by Rimex in 1988 and were the first wheels produced using fully machined sections. With the introduction of radial tires in the marketplace, a stronger wheel was needed that would withstand the increased pressures these tires were transferring into the rims.

MES style wheels are commonly utilized in a wide variety of mining and industrial applications.

MES products are designed with fully machined bead seating areas and hot formed side rings for superior strength and tire support. It is important to note that MES

components are manufactured to be fully compatible with other industry standard products, however Rimex's manufacturing processes allows for material mass in critical areas to be added where breakages tend to occur.

Components are fully machined from rolled steel or seamless forgings to ensure optimal roundness; providing an exact fit of rim components and tire bead. The tire bead has 75% more contact area on the rim to seal air in the tire, preventing air loss and reducing tire slippage.



5 piece MES assembly

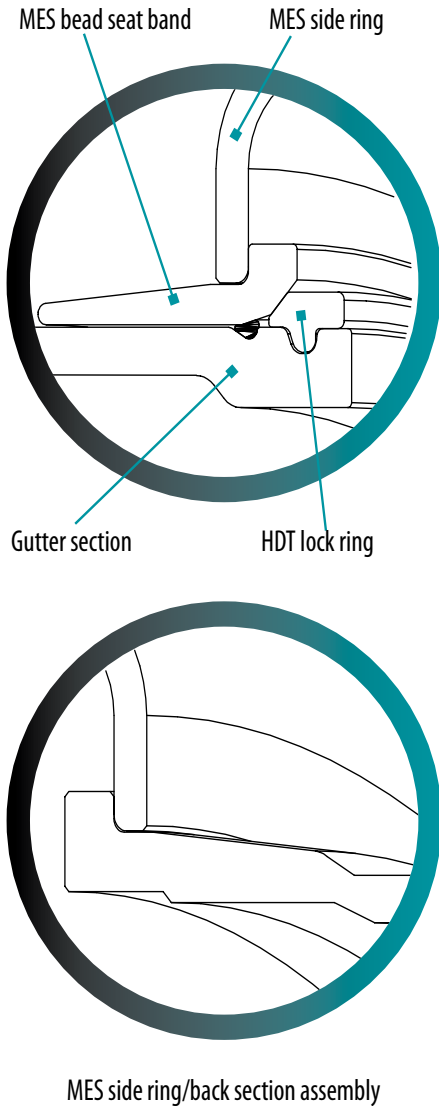


MES IGLR assembly
(to be used with DGS)



MES DGS assembly
(position sensitive outer dual wheel)





Features	Benefits
Fully machined and truly round in critical areas	<ul style="list-style-type: none"> Improved rim component and tire bead fit Reduces wear and fatigue of rim components Longer component life achieved
Knurless back section and bead seat bands have 75% more contact area than competitors rim products	<ul style="list-style-type: none"> Air loss is eliminated due to tire slippage Reduces tire slippage as beads are able to seat properly Eliminates bead damage from tire slippage
Increased component thickness	<ul style="list-style-type: none"> Enables reliability and safety More robust product over industry standard products Longer component life
Compatibility	<ul style="list-style-type: none"> fully interchangeable with industry standard products in most applications

For more information about DGS and IGLR wheels, please refer to our [DGS & IGLR Overview](#)

Rimex is able to manufacture custom solutions where standard product just does not perform. We have wheel solutions for all types and sizes of equipment.



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RIMEX TAPER SECURE RADIAL (TSR) SERIES

Building better wheels

The unique design of the **Taper Secure Radial (TSR)** series uses a taper concept to secure all components in place. First produced in 1992, the TSR offers absolute stability of the tire and wheel components. This is achieved by eliminating the movement between parts. When the tire is inflated, the rim parts lock into their tapered landing areas.

The key benefit of the TSR design is absolute tire support. The flanges of the wheel do not move on the base. The tire is anchored with complete stability resulting in no loss of air pressure. The life of rim components is increased as there is no wearing or fatiguing of the parts from component movement.

Why TSR?

Unique Tapered Design—The tapered design and increased material in critical mass areas eliminates component movement and flexing. The close machining tolerances and the 100% roundness of the machined taper design virtually eliminates beadseat band and lock ring damages that are common with standard designs. Additionally, the fully machined bead seating areas of the rim makes the mounting and demounting of tires easier and faster, reducing the truck's downtime.

No Tire Bead Damage—The fully machined bead seat areas give a smooth surface for the tire beads to mount against. Damage to this area of the tire is a major cause of air loss and is virtually eliminated because of this design feature. By keeping the bead areas of the tire intact, tires that have repairable tread damage will have better air retention when reinstalled.



5 piece TSR assembly



TSR IGLR assembly
(to be used with DGS)

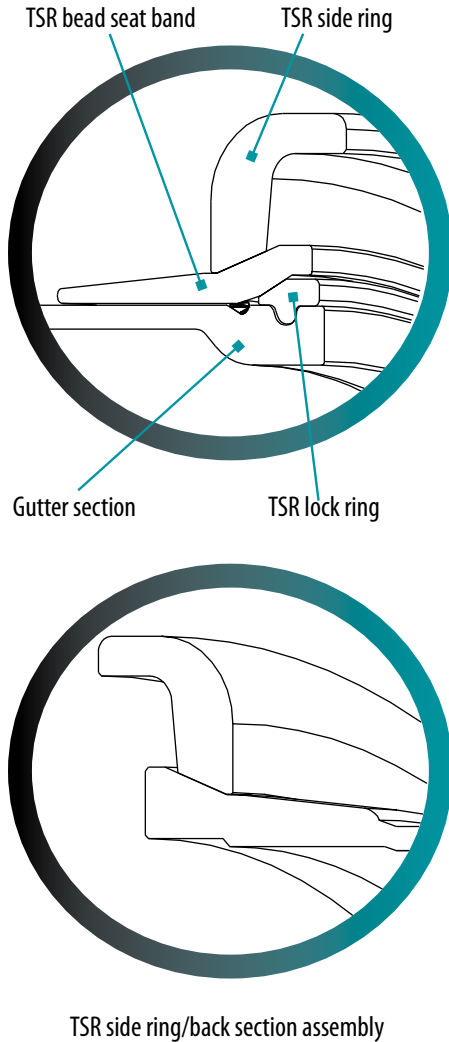


TSR DGS assembly
(position sensitive outer dual wheel)



RIMEX TAPER SECURE RADIAL (TSR) SERIES

Building better wheels



Features	Benefits
Taper design secures ALL components in place	<ul style="list-style-type: none"> Eliminates moving or flexing Extends component life Less wear and fatigue equals increased safety
Tire beads are secure and stable	<ul style="list-style-type: none"> Air loss is eliminated Helps tires run cooler and maintain even air pressure Increased tire life
Increased component thickness	<ul style="list-style-type: none"> Increases reliability and safety Stronger product Increased component life
TSR lock rings are red	<ul style="list-style-type: none"> Easily identifiable in service Only compatible with TSR components

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