Super Solid Tyres

Trident International specialises in the design, development and supply of solid industrial tyres for construction, quarrying, underground mining, port and material handling equipment.

TRIDENT has developed new range of super solid tyres in a mining specific compound and pattern specifically for wheel loaders, side discharge loaders (SDL), skid steer loaders, load haul dumpers (LHD), low platform dump trucks (LPDT), shuttle cars, roof bolters, jumbo drills, etc. The sizes range from 10-16.5 to 26.5-25.

Normally, these machines are fitted with pneumatic tyres that are prone to punctures, damage and fast wear. This results in loss associated with frequent repair and replacement, downtime, and leads to additional inventory costs. The cut resistant compound specifically addresses the challenges faced in mining operations to provide an unparallelled level of uninterrupted service and completely eliminating equipment downtime due to tyres.

Super solid tyre.

The use of solid tyres on mining and other specialised equipment is a relatively new phenomenon, which has been gaining acceptance as the benefits become more apparent.

Solid tyres are hundred per cent puncture-proof and are made from highly wear-resistant rubber compounds and ideally suited for short haul, high load, low speed machines working in yards and confined areas with harsh underfoot conditions. The tyres have an extra-deep tread with a greater wear volume that gives them a lifespan three to five times that of conventional pneumatic tyres. These tyres also significantly improve occupational safety as there is no possibility of tyre blow-out related accidents.

Solid tyres are a viable cost-effective alternative.

Trident's super solid tyres have significantly deeper treads compared to pneumatic tyres, for eg, the 23.5-25 super solid tyre has tread depth of 250 mm (10 inch) increasing wear volume, and thereby life span. Features such as sidewall apertures absorb shocks when moving over irregular surfaces and debris thereby providing a soft ride.

Durable construction provides customers with a reliable option that reduces expenses and time losses incurred due to frequent tyre damage and replacement. Users benefit from a longer usage-cycle, reduced costs and wastage, and a smoother frequency of operations.

Cost continues to be a factor in the wider acceptance of the solid tyre concept especially when one considers that on average solid tyres cost about three times the price of pneumatic tyres.

It is important to note that solid tyres are puncture-proof and their life is four to five times that of pneumatic tyres. Costs associated with puncture-related issues such as machine downtime, idle operator time and operational delays are automatically eliminated. Fewer replacements mean that costs associated with re-purchase, inventory and repair are significantly reduced. Solid tyres are therefore a viable cost-effective alternative for the customer to consider seriously. EI

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