



Double hump

The wheel has 2 'humps' - on both the tire seats. This helps in holding the tubeless tire better, lowering the chances of tire shift from the tire seat in case of airloss during drive.



Groove at bore

The unique 'groove' at the bore reduces the contact area. This lowers the chances of corrosion build-up and avoids 'seizing' of the spigot mounted wheel. This facilitates easy de-mounting.



Smoother contour

The unique contour is designed specifically to provide great looks coupled with 'easy to clean' smooth surface.



Protected Valve

The valve is positioned so as to protect it from the stones thrown by the brake rotor.



**FORGED
ALUMINUM WHEELS**



WHEELS INDIA LIMITED

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WHEELS INDIA LIMITED



Wheels India Limited promoted by the TVS Group is the leading manufacturer of steel wheels for passenger cars, utility vehicles, trucks, buses, agricultural tractors and construction equipment in India. The company is a leading supplier in India. Export sales constitute 18% of the company's turnover.

Creativity in design, supported by the latest CAD/CAM technology ensures product specifications to meet global standards.

Each wheel design is subjected to severe fatigue tests in order to meet international standards.

The Forged Aluminum wheels are produced in the state of the art facility set up by WIL.

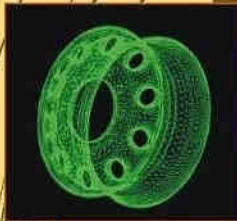
Our Aluminum wheels are forged and spun for high strength from a single piece alloy billet.

Wheels are subjected to special heat treatment process that gives High strength and Elongation.

Wheels are fully CNC machined to give great control over dimensions and trueness.

Wheels are pre-stressed at important areas to provide improved fatigue strength.

Wheels are polished to a superior finish with special machinery.



Light weight

extra payload & improved mileage

Weight advantage over steel wheel.

- ▶ Typical steel wheel 81 lb
- ▶ Equivalent forged aluminum wheel 49 lb
- ▶ Weight saving per wheel 32 lb
- ▶ Weight saving on a typical truck of 10 wheels $10 \times 32 = 320$ lb
- ▶ Weight saving on a typical bus of 6 wheels $6 \times 32 = 192$ lb

The fleet operator can carry extra payload per trip to this extent or can keep this off to get improved mileage.

Forged alloy wheels for truck/bus application are lighter to the tune of 11 lb compared to cast aluminum wheels of similar application.



Stronger Wheel

- ▶ The wheel is stronger as it has no joints - made from single piece alloy billet.
- ▶ Forging & spinning aligns the metal grains and shapes contours of the wheel for maximum strength.
- ▶ Special Heat treatment and selection of high strength alloy gives better fatigue strength.



Lower operating costs

Longer tire & Brake life due to

- ▶ Better 'tire-wheel balance'
- ▶ Better heat dissipation of aluminum.
- ▶ Quicker tire / Wheel change enabled by lesser weight of wheel.



Smoother ride

Improved Ride comfort enabled by

- ▶ Low un-sprung mass on the wheel
- ▶ Truer running wheel



Great looks

▶ Choice of high corrosion resistance alloy allows the wheel to be used without painting-unlike steel & cast alloy wheels-which need painting.

▶ Smooth contour & surface finish reduces chances of mud/dirt accumulation-easy to clean and maintain.



Applications

- ▶ Trucks, Trailers & Buses.
- ▶ Chemical carriers & Oil carriers.
- ▶ Special applications like Ambulances.

