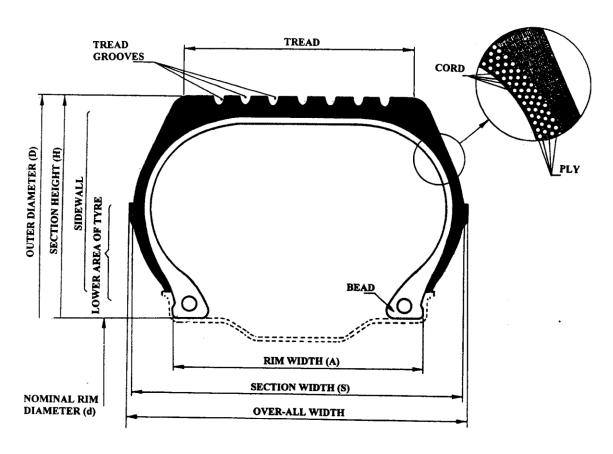
TYRE

Nomenclature of tyre:



- **Bead** Part of a pneumatic tyre which is of such shape and structure as to fit the rim and hold the tyre on it.
- **Tread** Part of a tyre which comes into contact with the ground and contributes to ground adhesion.
- **Cord** Strands forming the fabric of the plies in tyre.
- **Ply** Layer of rubber-coated parallel cords.

Types of tyre:

1. Diagonal or bias ply- Structure in which the ply cords extend to the beads and are laid at alternate angles of substantially less than 90° to the .centre line of the tread.

2. Radial- Structure in which the ply cords extend to the beads and are laid substantially at 90° to the centre line of the tread.

Specification of tyre:

- 1. Width of tyre.
- 2. Aspect ratio of tyre
- 3. Type of construction (Radial/Bias)
- 4. Load index of tyre.
- 5. Speed rating of tyre.



Typical specification of a tyre.

Types of tyre wire:

- 1. Feathering
- 2. Cupping
- 3. One edge.
- 4. Centre or both edges.

Causes and remedies of tyre wear:

Feathering:

Causes

- Improper alignment (TOE)
- Worn or damaged steering and/or suspension parts
- Hard cornering

Remedies

- Check/correct alignment
- Check/replace steering and/or suspension parts
- Based on tread depth rotate/replace tire.

Cupping:

Causes

- Worn or damaged steering and/or suspension parts
- Improper balancing

Remedies

- Check/replace steering and/or suspension parts
- Check/correct balance
- Check/replace wheels
- Based on tread depth rotate/replace tire

One edge:

Causes

Improper alignment (CAMBER)

Remedies

Check/correct alignment

- Worn or damaged steering and/or suspension parts
- Check/replace steering and/or suspension parts

Centre or both edges:

Causes

- Center wear over inflated
- Both edges under inflated overloaded slow leak

Remedies

- Adjust air pressure
- Check fitment
- Check/correct air leak