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2. Safety systems to improve braking performance &prevent accidents

1.Types of brakes

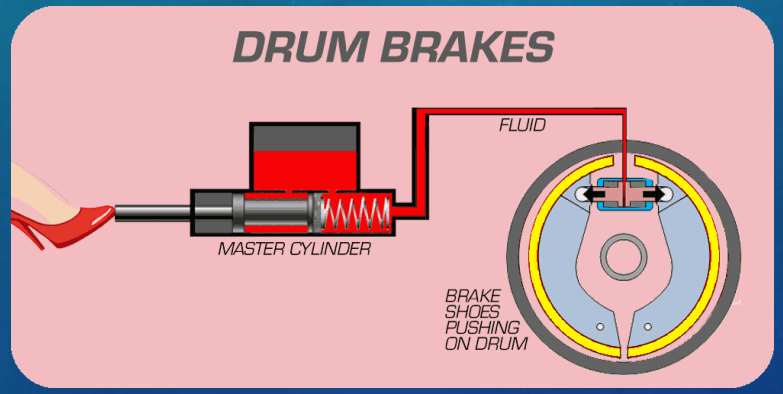
1. Drum Brakes,
2. Disc Brakes,
3. Rim brakes
4. Regenerative Brakes

1.Drum Brakes

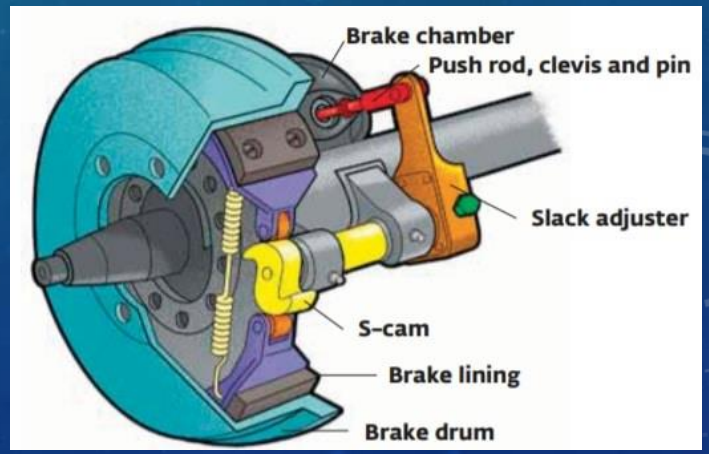
A cylindrical drum rotates with the wheel, with brake shoes inside that press against its inner surface.

Mechanically operated drum brakes

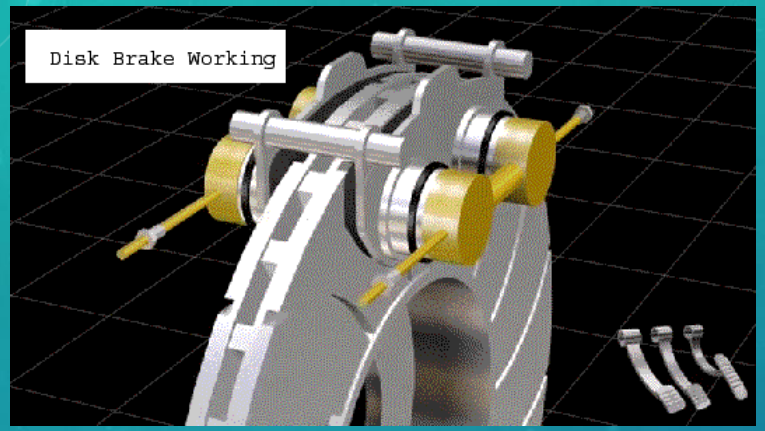
Hydraulically operated drum brakes



Air pressured operated Drum brakes



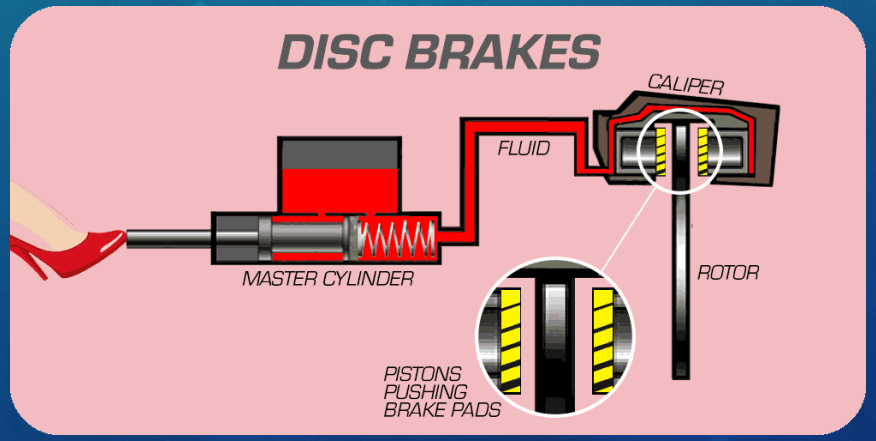
2.Disc Brakes



A flat disc (rotor) attached to the wheel is squeezed by brake pads on either side.

Mechanically operated disc brakes

Hydraulically operated disc brakes



Air pressured operated Disc brakes

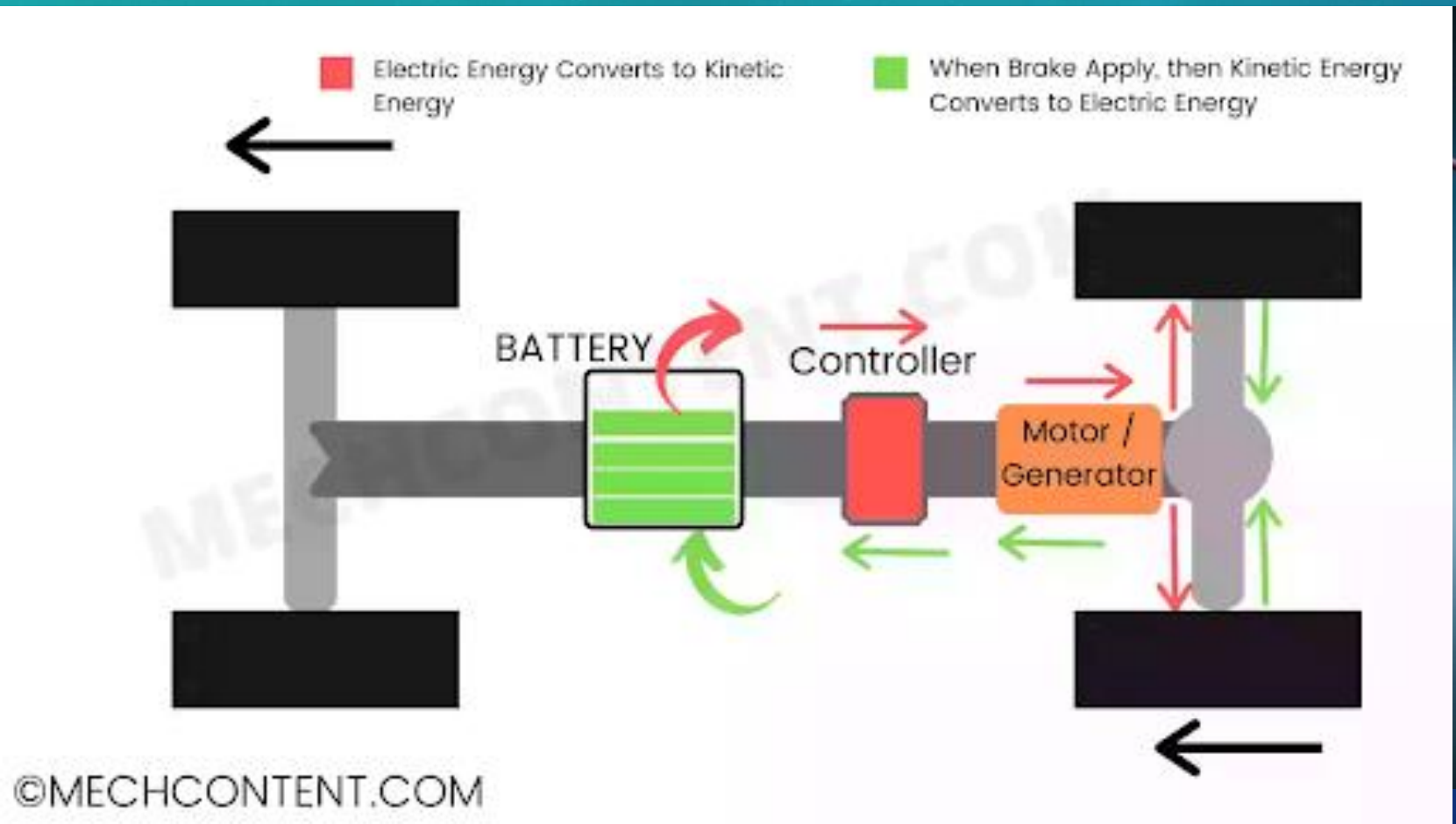
3. Rim brakes

are categorized under **friction brakes**

Brake pads press against the wheel rim to create friction

4. Regenerative braking

•**Energy Recovery**: Converts kinetic energy from braking into electrical energy using the electric motor as a generator.
•**Efficiency**: Stores the generated energy in the battery, improving overall energy efficiency while often workingalongside conventional brakes.



2. safety systems or technologies designed to improve braking performance & prevent accidents

Anti-lock Braking System (ABS):

- It's a **technology** that prevents the wheels from locking up during hard braking,
- allowing the driver to maintain control of the vehicle.
- It works with existing brake types (like disc or drum brakes) to improve safety, especially during emergency stops.

Collision Mitigation Brakes:

- This is part of an **advanced driver-assistance system** that detects potential collisions and automatically applies the brakes to either avoid or reduce the severity of an impact.
- It works **with the existing brake system**, not a type of brake itself.

Thank You !!

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