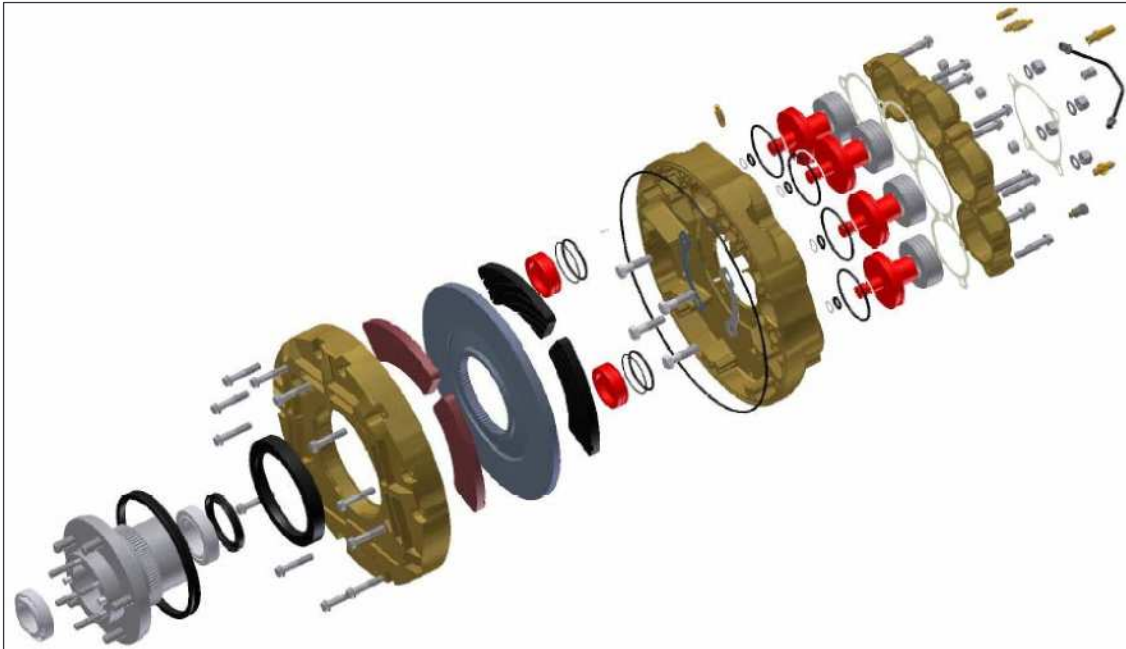


## Introduction



**FIGURE 1** Exploded view of Rear Brake

Your Sealed Integrated Braking System (SIBS®) shown above as exploded view in **figure 1**, is a unique new product leading the way in motion control technology.

SIBS® is an enclosed single rotor high-speed disc brake. It provides greater reliability in a compact enclosed package.

SIBS® design and development is primarily concerned with:

- Safety
- Advanced Technology
- Simplicity

A SIBS® is simple to install, simple to operate and increases reliability significantly. It utilizes conventional actuation and can be applied to any rotary equipment, large or small, industrial or automotive, on and off road.

A SIBS® incorporates a service brake, a park brake and an emergency brake into a single brake. It is an Australian invention that is patented worldwide. It is the only brake in the world that is able to perform consistently every time, regardless of its environment, while requiring minimal maintenance throughout its life under the most demanding braking applications.

**SIBS®**

A SIBS® set comprises four individual brakes. Each fully sealed brake consists of a sliding rotor, brake pads and a small quantity of specially formulated SIBS® fluid. Because it is fully sealed, there is no ingress of foreign substances, and brake debris is not released into the atmosphere.

Both front assemblies provide service braking only.

The rear assemblies provide service brake, EMMA™ park brake and emergency brake.

All the service pistons are actuated by a brake master cylinder; the EMMA™ pistons are applied by disc springs and released by hydraulic pressure from a standalone pump unit. This system is referred to as an Electronically Modulated, Mechanically Applied (EMMA™ fail safe braking mechanism) system.