

MAXiMB

Failsafe Braking Systems

Providing

PEACE of MIND

3000 SERIES

Trailers, UVs

NCS Engineering

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Operating Principle

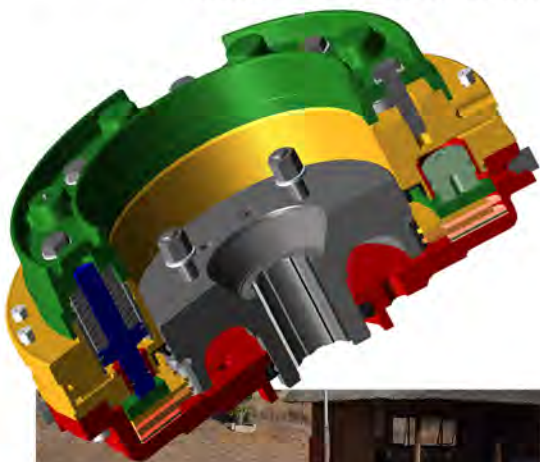
The brake is a sealed liquid cooled unit which works on the principle of oil shear between the rotating and stationary components. The unit has separate service and failsafe system providing a very robust and safe solution for safety critical items such as the brakes used underground.

Service braking: Service brake is applied by exerting pressure using the standard foot brake valve.

Emergency braking: The emergency brakes will apply when the emergency/park brake valve is actuated by the operator and/or when the engine of the vehicle stalls or is switched off.

Fitment

The brakes can be fitted to the electric motor gear reduction boxes of Shuttle Cars or a single brake can be fitted to the differential of a light LHD or ADT. The system can also be fitted to the tractor towed trailers for mining applications, with brakes fitted to the wheel ends.



Technical Features

Fully enclosed, oil immersed system.

Failsafe braking system meeting mining standards.

External wear pin indicator showing friction disc wear.

The system is SABS approved to SANS 1589.

Fitment Features

Simple interfacing with minimal OEM product modifications.

Ease of fitment.

Low fitment cost with minimal production downtime.

24-hour field service backup.

Other System Features

Affordability.

Wheel end failsafe solution.

Low operational costs.

Low maintenance costs.

Low service exchange cost and turnaround time.

Specifications

Number of Discs		2	3	4	5	6
Service Brake Torque @ 8 Mpa		2,116 Nm	3,174 Nm	4,232 Nm	5,290 Nm	6,350 Nm
Standard Springs	Failsafe Brake Torque	2,000 Nm	4,040 Nm	5,900 Nm	7,420 Nm	8,900 Nm
	Response Time to 80% Torque	0.35 sec				
	Hydraulic HoldOff Pressure	7 Mpa				

Customer References

Anglo Platinum, Anglo Base Metals, Anglo Coal, Aquarius Mines, Eastern Platinum, Harmony, BHP Billiton, Implats, Xstrata, Exxaro, Barlow World Equipment, Caterpillar, Sasol Mining