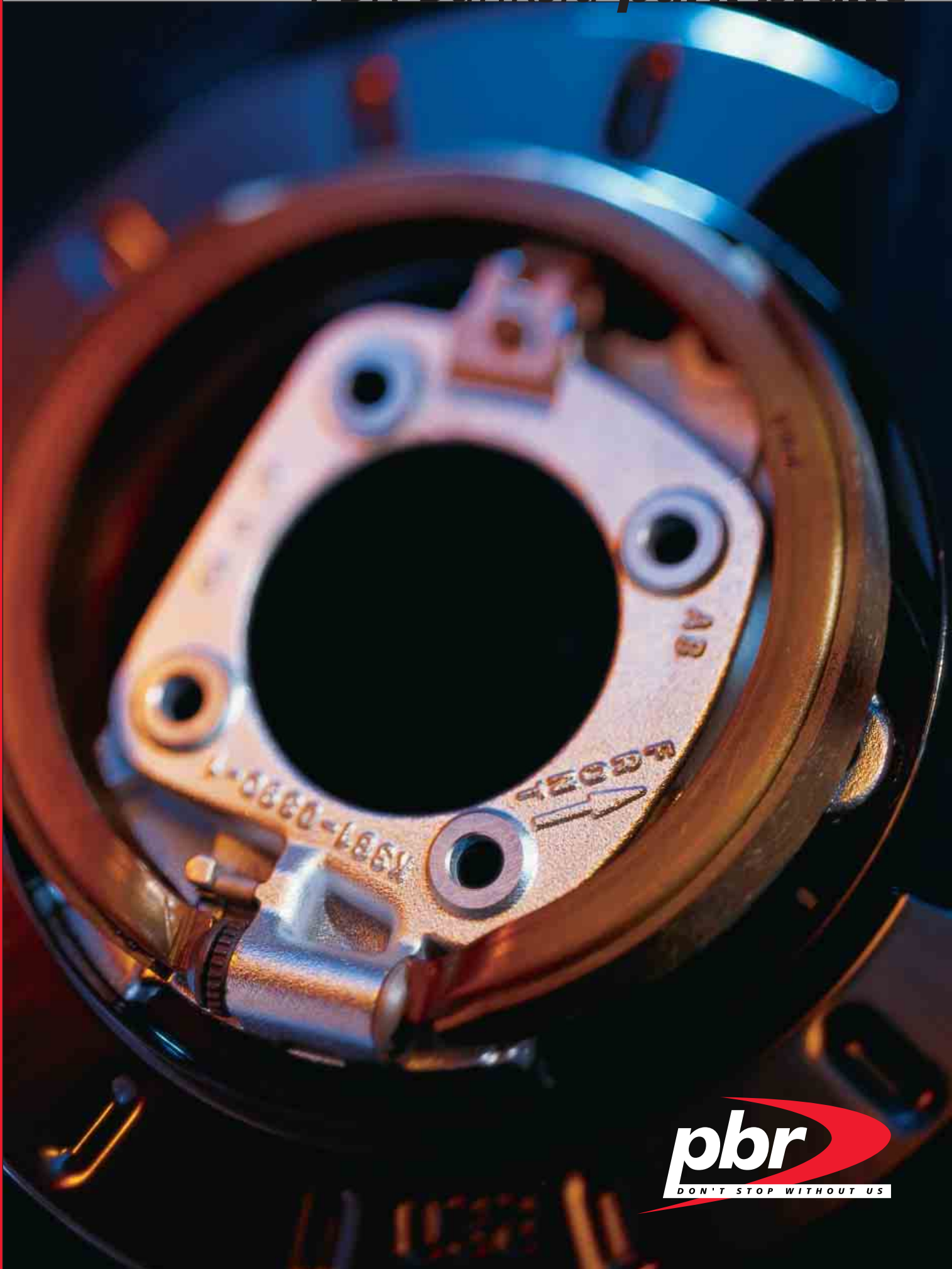


PBR Banksia **park brake**



pbr
DON'T STOP WITHOUT US

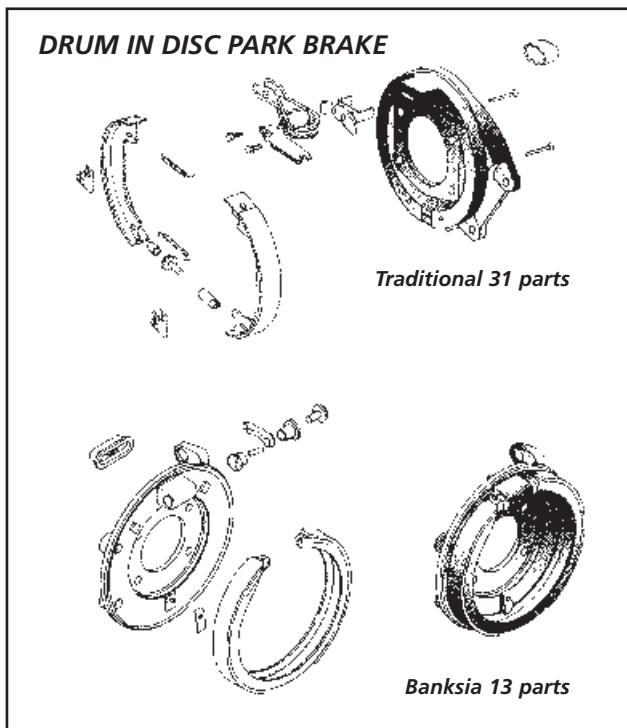
a technological brakethrough

PBR has revolutionised the braking industry with its Banksia drum park brake - a duo-servo unit utilising a single, continuous rolled sheet metal shoe.

This simple but highly effective design is a breakthrough in the automotive industry. The traditional design for park brakes is based on heavy, relatively complex designs involving two shoes, but PBR's Research and Development team engineered the Banksia in such an innovative way that the number of parts has been slashed from 31 to just 13.

The resultant savings in weight (up to 20%) make the Banksia a highly effective braking assembly well suited to today's market demands.

In addition, the Banksia features a unique grinding technique, developed especially for this product which makes the brake perform



more effectively than conventional designs whether in a green or burnished condition.

MANUFACTURED FOR THE DRIVER

By coupling the patented single shoe concept with a unique actuation system, PBR has enabled the Chassis Engineer to use a variety of cable actuation designs ranging from forward to cross pull.

By using a separate park brake, the car designer can optimise the service brake system's performance and minimise Noise, Vibration and Harshness (NVH) concerns. With PBR's Banksia park brake the designer can lower the load needed by the driver to apply the park brake, yet still achieve excellent hill-hold performance.

APPLICATIONS OF THE BANKSIA PARK BRAKE

Ultra light weight – for sports cars and IRS applications

Popular on high performance cars and applications aimed at optimal fuel efficiency with GVM up to 5700 lbs. The flexibility of Banksia design enables the size and hence the weights of the backing plate to be greatly reduced.

- Cable abutment – bolted to knuckle
- Dust shield – labyrinth pressed metal sheet
- Other features – ABS sensor mount
- Shoe diameter – 190mm
- Weight 1.2 kg

Unit Bearing Design – for sub-compacts, compacts and front-wheel drives

This park brake is mounted on a unit bearing hub which is used on vehicles up to 5700 lbs. The entire unit is self-contained to aid vehicle assembly. It is possible to integrate the Banksia actuation abutment as part of the unit-bearing hub to eliminate the need for mounting bolts.

- Backing plate – not required
- Cable abutment – bolted to bearing hub
- Dust shield – full size pressed metal sheet
- Other attachment – not required
- Shoe diameter – 175mm

Full backing plate with labyrinth – for rear-wheel drives, SUVs and 4WDs

This design combines simplicity with rigidity. The backing plate can accommodate the ABS sensor, carries the caliper and serves as an effective dust shield. Recommended for vehicles up to 5700 lbs.

- Actuation abutment configuration – integrated to backing plate
- Cable abutment – on axle tube or bolted to knuckle
- Other features – ABS sensor and caliper mount
- Shoe diameter – 190mm
- Weight – 2kg

Lightweight backing plate – for light trucks and SUVs

A lightweight parking brake used on truck applications up to 7300 lbs. Cast-in cable abutment and caliper mounting lugs on the backing plate helps to simplify the design of other mating components (such as the knuckle).

- Actuation abutment configuration – integrated to backing plate
- Cable abutment – integrated to backing plate
- Other features – caliper mount
- Shoe diameter – 210mm
- Weight – 3kg

Heavy duty park brake

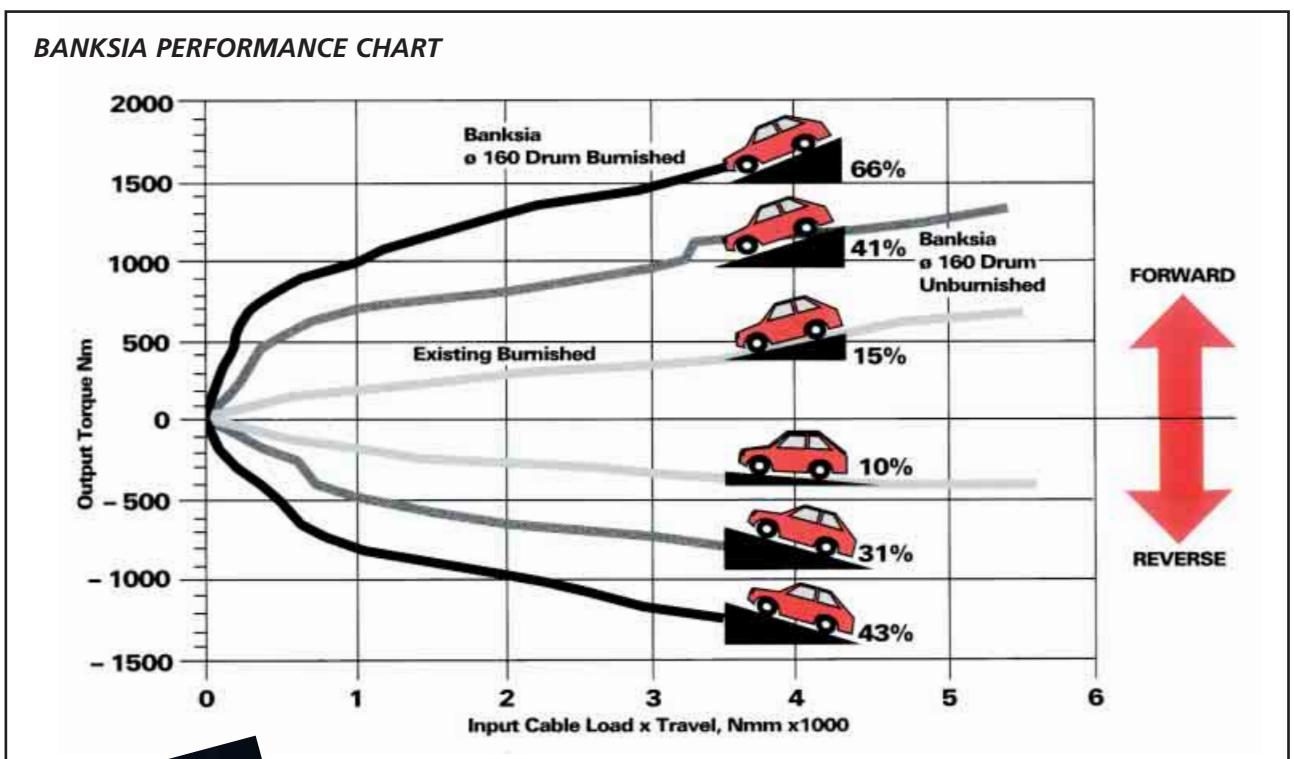
A parking brake designed with the unique one piece T-section shoe for the use on vehicles with GVW up to 12,000 lbs.

- Actuation abutment configuration – integrated to backing plate
- Cable abutment – integrated to backing plate if required
- Dust shield – full size pressed metal sheet
- Other features – caliper mount
- Shoe diameter – 206mm

Electric Banksia park brake

The electric Banksia is designed to enable greater flexibility in vehicle interior design by unitising an electronic actuation system to activate PBR's full range of Banksia park brakes to deliver unmatched hill-hold performance.

- Actuator type – electric motor
- Backing plate type – Spider, Banana or Full backing plate
- Actuation abutment configuration – integrated to backing plate
- Dust shield – full size pressed metal sheet
- Other features – caliper mount and ABS mount if required
- Shoe diameter – up to 210mm



PERFORMANCE WHERE IT COUNTS

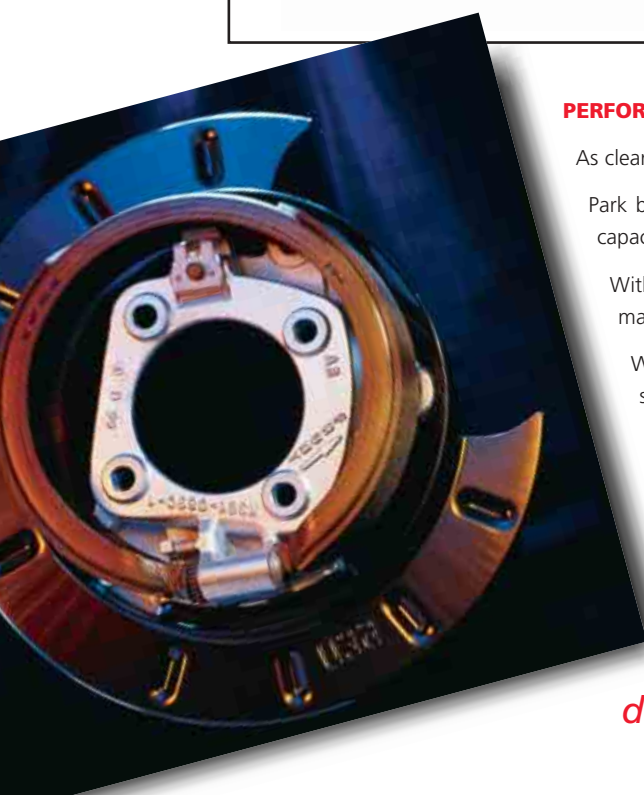
As clearly demonstrated in the above graph, the Banksia outperforms conventional park brakes.

Park brake performance is judged by output torque, which in turn determines the brake's hill-hold capacity. In extensive testing by PBR, the Banksia was 30-200% better than conventional designs.

With results like this, it's not surprising the Banksia has already been recognised by a number of car manufacturers. Contracts and licences have been established in Australia, Asia, Japan and the USA.

Whether it is fitted to specialist police cars or four-wheel drive vehicles, Banksia provides superior performance.

The Banksia is currently available in four sizes to suit vehicles ranging from sub-compact cars to medium size trucks up to 7300 lbs Gross Vehicle Mass. Heavy duty Banksias for vehicles weighing up to 12,000 lbs are being developed.



dependability through innovation





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