





## we think transport

It is the goal of the BPW Group to support our customers in the transport and logistic industry in the best possible way. This is why our first priority is to wholly focus on your requirements. This consists of listening to you, targeting our solutions to your individual needs and being there for you in any situation. This objective based on partnership means: **we think transport**

To help you with your transport tasks, we have bundled the experience and industry knowledge of BPW and its subsidiaries.

As a mobility partner, we offer vehicle operators an optimal package of products and services. This helps you make your loading and transport processes transparent, for greater safety and efficiency, and easier control of your fleet.

Our telematics solutions for trucks and trailers keep you informed at all times and ready to intervene when necessary. We help you to choose the right vehicle and are also available with our partners to assist with financing and leasing.

We know that your vehicle availability takes first priority. That's why you can trust our worldwide service network: More than 3,200 service partners are there when you need them. And so that you can keep your mind on more important things, we offer our own service contracts: They are reasonably priced and tailored to your needs.

If you would like to know more, we'll be glad to share our expertise. We also offer seminars and training near you.

# The BPW ECO Disc: Trailer disc brakes and motors for simultaneous innovation.

Disk brakes for commercial vehicles have made significant leaps in development over recent decades. Here BPW has deliberately gone its own way, developing disc brakes that can be optimally adapted to suspensions and trailer requirements. The ECO Disc reflects our sound development and production expertise on the entire suspension – the result of a unique tradition spanning many years.

At our plant in Wiehl, near headquarters, we have created optimal conditions for producing and further developing ECO Disc trailer disc brakes. Through continuous investment, we have optimized all relevant production areas here and gathered them under one roof: Design and development, mechanical processing of single components, highly automated assembly, functional testing, documentation, logistics and quality assurance.

Total process reliability takes the highest priority in all areas, as does permanent compliance with BPW's stringent quality standards.

Ever since the new BPW ECO Disc trailer disc brakes were brought to market, we have offered you a whole host of advantages – including faster brake service, strength and durability in all applications, and the ECO Plus 5-year warranty valid all over Europe with no mileage limit.

## 1970-1990

- › BPW's first disc brake patent application

## 1992

- › Adaptation of a brake with its own disc for use in trailer suspensions, in collaboration with Knorr-Bremse AG

## 1992-1995

- › First field trials with BPW disc brakes on more than 50 vehicles

## 1996

- › BPW starts mass production of the first trailer disc brake axles on the market

## 1998

- › Mass production of disk brake cylinders developed by BPW
- › BPW markets steering axles with disc brakes
- › BPW collaborates with Porsche to develop a disc brake involving a fixed calliper with electronic positioning

## 2000

- › Presentation of the "ECO Disc Tronic" study at the IAA

## 2002

- › Disc brake converted to a monoblock housing: significant weight reduction in the calliper, in collaboration with Knorr-Bremse AG

## 2003

- › BPW is the first to introduce size SB 4309 brakes – now the market standard for trailer disc brakes
- › In addition, the innovative tangential screw connection is introduced – it offers a host of service benefits and reduces weight still further

## 2014

- › Over 1 million ECO Disc brake callipers in use

## 2012

- › The ECO Vision study wins the 2013 Trailer Innovation award: A disc brake axle with an axle beam made of GRP
- › ECO Disc Challenge: In the finals of the world competition for the fastest disk replacement team in Europe, at IAA 2012, BPW demonstrates the ECO Disc's competitive advantages: brake service Formula 1 style

## 2011

- › 4 million BPW brake cylinders are in use throughout the world

## 2009

- › Market introduction of the new BPW ECO Disc trailer disc brakes
- › Mass production of brake callipers at Busch-Hungária Kft. (Wholly owned by the BPW Group since 2010)
- › The high-grade, automated plant in Hunsheim goes into operation, manufacturing the BPW ECO Disc

## 2006

- › Worldwide field trials start on the BPW ECO Disc

## 2004

- › BPW starts processing brake components in house, such as frame, callipers, etc.

## 2007

- › Introduction of the ECO unit ECO Plus 2: Weight reduction, bayonet lock for convenient calliper assembly/disassembly, use of an axle bolt with torque limit

## 2005

- › BPW's first roller centrifugal mass test bench goes into operation. The test bench allows a complete axle to be tested under realistic conditions. BPW is the only company in the industry with a test bench of this kind.
- › Development starts on the BPW ECO Disc

## 2008

- › ECO Disc trailer disc brake presented at IAA



# The BPW trailer disc brake – and its **key selling points.**

With three different basic versions, the BPW ECO Disc offers the appropriate design for each application. Despite their differences with respect to wheel size and axle load, they all have something in common: Their robust, compact design and ease of maintenance set the standard for low life cycle costs.

### Quality to the finest detail:

With its compact design, the brake is directly connected to the axle beam.



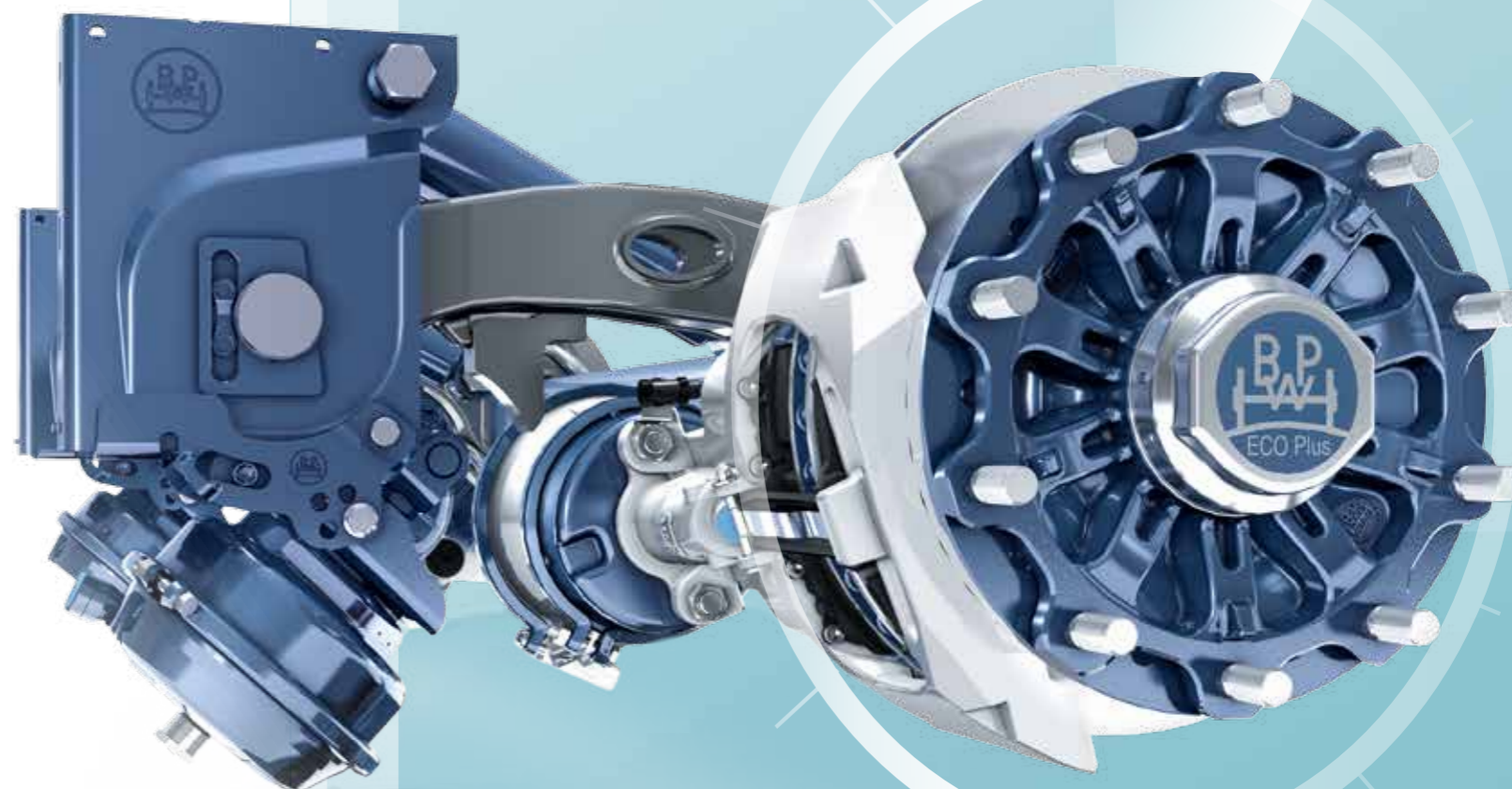
The internal folding bellows ensure optimum protection.



The external resetters are easier to reach; thus offering the best possible serviceability.



The ECO Principle makes a quicker brake disc change possible without removing the brake calliper.



# 1 hour faster

for brake disc replacement in a 3-axle unit

# 39 kg in weight savings

with the TSB 4309 in a 3-axle unit

## When it comes to **brake technology that meets the standard**, BPW ECO Disc says it all.

It's easy to look good on paper. But BPW's ECO Disc is impressive on the street – day after day, in tough continuous use. This is confirmed by those who rely on it every day on the job to deliver everything it promises.



### COST-EFFECTIVE

“When it comes to expenses, **I stand on the brakes.**”

You already save time and money with fast, simple brake disc and pad replacement. Then there's the legendary durability, which speaks for itself. **By the way, the BPW ECO Disc comes in three different versions, optimally adapted to my needs.**

Karsten Thöling, CEO of Spedition Thöling OHG



### EASY TO MAINTAIN

“For us, **every second counts.**”

Time is money. This especially goes for maintaining trailer brakes. With the ECO Disc we're in safe hands. Thanks to the intelligent design, the brake calliper doesn't need disassembly. That's how you service brakes in record time.

**It means lower labour costs — and no unnecessary trailer downtime.**

Harald Seifert, CEO of Seifert Logistics GmbH

### ROBUST

“**Robust, economical ... It's got the qualities we bet on.**”

Long service life and robustness are the ECO Disc's key selling points. BPW's disc brakes are versatile and reliable. This is thanks to the special bellows and the KTL coating. **They protect the inside of the brakes from dirt and the brake calliper from rust.**

Sergey Baklitskiy, head of Russia's international carrier association



### LIGHT


“Our logistics partners skimp on weight, **not on stability.**”

The BPW trailer disc brake ensures shorter braking distances. And less time at the shop. With the ECO Disc from BPW, you'll be more than just a nose ahead. Thanks to its light, compact design, you can even save up to 39 kilogrammes per three-axle unit. **Then there's the robust construction, which is an absolute must for long brake life.**

Markus Haller, head of Purchasing & Network Planning at Hermes Transport Logistics GmbH

# Something for everyone – the ECO Disc in overview:

TSB	43	09	
TSB			Trailer disc brake
	43		Disc Ø 430 mm
		09	9 t axle load



## CURRENT DESIGNS

Axle load	Wheel size		Brake	Brake disc Ø x thickness	Offset
	19.5"	22.5"			
9 t	•	•	TSB 3709	370 x 45 mm	0/120
10 t	•		TSB 3709	370 x 45 mm	0
9 t		•	TSB 4309	430 x 45 mm	0/120
10 t		•	TSB 4309	430 x 45 mm	0
12 t		•	TSB 4312	430 x 45 mm	0

All brake sizes can be equipped with ABS and delivered for single or twin tyres.

## CURRENT ACCESSORIES



Disc Protector (optional): additional protection for trailer disc brakes in tough applications.



Wear sensor (optional): reliable technology that punctually detects when the wear limit of the brake linings has been reached.



Original brake disc from BPW: high wear and crack resistance ensured.



## Everything in view. Everything in hand.

Cost and time pressure demand that transport companies operate efficiently. BPW's innovative telematics solutions allow greater transparency and efficiency in fleet management. With the cargofleet telematics application and TControl hardware, we offer you the first complete single-source truck and trailer solution. It intelligently links products, services, hardware, software and expertise in a forward-looking solution that enhances your competitiveness.

### The main features:

- › custom, scalable telematics solutions focused on the customer
- › reliable information on vehicle and load in real time
- › vehicle tracking and tracing in real time
- › complete monitoring of the trailer and load by sensing safety-relevant and wear-prone components
- › continuous monitoring of cooling temperature, door activity, tyre pressure, etc., and active alarms when defined threshold values are reached
- › integration of data from truck and trailer telematics and access to the data relevant to you, through a manufacturer-independent Internet platform; 18 months of storage upon request

### Truck functions

- GPS/GLONASS
- Route tracking
- Driving periods/breaks
- Truck navigation
- Tachometer information
- Driver's log
- Driver's Card
- Alarms
- Order processing
- Top driver
- eco EcoResponse
- TLogMobile
- FMS FMS data

### Trailer functions

- GPS/GLONASS
- Door monitoring
- EBS information
- Temperature monitoring
- Tyre pressure monitoring
- Brake lining wear sensing
- Temperature monitoring on the brakes
- Roof-height monitoring
- Loading area detection
- Freight security

### BENEFIT FROM THESE ADVANTAGES:

- › optimization of your scheduling and vehicle availability
- › improved utilization of the entire fleet
- › shorter reaction times
- › no empty runs
- › predictive maintenance planning
- › relevant data always available from a manufacturer-independent Internet platform
- › lower cost through efficient operation

## Our services speak for themselves – **your advantages.**

The BPW group is a mobility partner for transport companies. Today our product range includes a multitude of products and services needed for vehicle operation. Optimal coordination of all components and services adds real value for you: outstanding transparency and efficiency in all transport and loading processes.

### **ECO Plus warranty**

You can absolutely rely on BPW's quality: Our ECO Plus warranty covers you for five years on the road. Across Europe and without mileage restrictions. We also offer you the option of an extended warranty for another three years.



### **Training and seminars**

By professionals for professionals – and certified. BPW's seminar programme is extensive and is aimed at vehicle manufacturers, transporters, workshops and trading partners. We offer you a comprehensive training programme. You can perform hands-on maintenance and repair on a BPW disc brake axle under the guidance of a specialist, for example.

### **Technical documentation**

Whether for assembly, maintenance or ordering replacement parts – technical documentation is indispensable for vehicle manufacturers and users. That is why BPW provides you with all relevant documentation for the ECO Disc trailer disc brake, structured by content and target group and in a clear format – including maintenance and workshop manuals. Our user information is produced with the same care we give to BPW products – our quality doesn't stop with the product.



### **BPW Service for the road**



Download the BPW Mobile app free:  
[www.bpw.de/en/support/bpw-apps.html](http://www.bpw.de/en/support/bpw-apps.html)



You can find more information and downloads at: [www.bpw.de](http://www.bpw.de)



# Mobility round the clock – worldwide.

We care about your mobility. That is why we offer you durable products like the BPW ECO Disc trailer disc brake and truck and trailer telematics. An all-round trouble-free package:

## Service network

Our service network is always "around": Around the clock and around the world, 3,200 service partners are always at your side. You can rely on 24-hour service, trained staff and a constant stock of original BPW replacement parts.

Our cooperation with ADAC TruckService and Europe Net extends our service network to 4,500 partner workshops with professional, 24-hour customer service in 39 European countries. In short: **our services cut your downtimes!**

## Replacement part service

We adapt to your needs – even when supplying replacement parts. We guarantee a global supply of BPW original replacement parts – within 24 hours, when necessary.

Naturally, you can rely on custom replacement components in proven OEM quality: **compatible and a perfect fit.**

## End customer support

Whether it's about the right suspension for your trailer, the advantages of trailer disc brakes, or the scope of our telematics services... Our end customer support will help you with any questions regarding your suspension. Gladly, quickly and with no runaround.

