

# LIGHTWEIGHT BRAKE DISCS FOR HIGH-PERFORMANCE VEHICLES



Monobloc Brake Disc  
Composite Brake Disc  
Advanced Composite Brake Disc (ACBD)

COMPANY INFORMATION

The product range of SHW Brake Systems located in Tuttlingen, Neuhausen ob Eck and Haimen comprises lightweight brake discs used in a wide range of high performance vehicles.

## DID YOU KNOW?

In 1964 Porsche and SHW began to develop the first internal ventilated brake disc, appearing as early as 1966 on the Porsche 911s. Later in 1993 SHW developed and produced the first serial lightweight pin disc for BMW M.

## MARKET AND TECHNOLOGY LEADER



Established



**1950**

Production of



**3-4 Mio. Discs/a**

Certificates and Labels

more details on [www.shw.de/en/downloads/our-certifications/](http://www.shw.de/en/downloads/our-certifications/)



## COMPOSITE BRAKE DISC



### ADVANTAGES:

- Up to 2.5 kg mass reduction possible compared to monobloc disc
- Reduced thermal strain due to floating friction ring
- Excellent cooling
- Extreme durability and safety
- Improved brake-comfort
- Distinguished appearance
- Significant CO<sub>2</sub>-reduction over lifetime

## ADVANCED COMPOSITE BRAKE DISC



### ADVANTAGES:

- Up to 3.5 kg mass reduction possible compared to monobloc disc
- Reduced thermal strain due to floating friction ring and more homogenous mass allocation
- Superior cooling
- Highest endurance, durability and safety
- Excellent brake-comfort
- Distinguished appearance
- Optimized CO<sub>2</sub>-reduction over lifetime

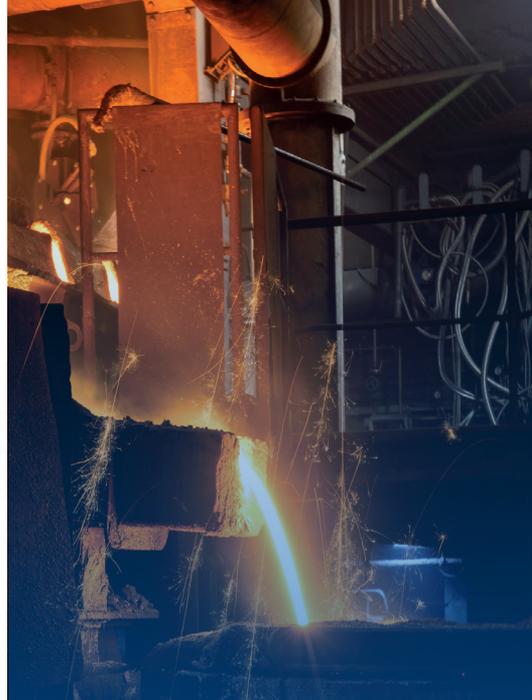
## ALSO AS LOW-EMISSION-BRAKE (LEB) WITH COATING FEASIBLE.

LEB is a technical solution for the reduction of brake-induced particulate emission.

## MONOBLOC BRAKE DISC



- Massive or inner-/outer-ventilated design
- Diverse cooling channel geometries feasible
- Turn-milled or fine-turned friction surfaces
- Tight tolerances of raw- and finished-part feasible
- Friction plates cross drilled, grooved or combination of both realizable
- Different types of paint applicable



SHW is proud to be the **only pin disc manufacturer who encompass every step of manufacturing fully inhouse.**

This allows **maximum control over quality** and ensures we are not reliant on third parties, thus always maintaining a reliable, repeatable supply of products globally. SHW has as well their own aluminum foundry and machining and finishing centres.



## FUNCTION

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improvement of resistance to corrosion, brake performance and durability/safety

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## ENVIRONMENT

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reduction of brake-induced emissions (brake dust) and wear behavior

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## WEIGHT

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further weight reduction, e.g. due to optimized design with focus on cooling behaviour

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## ECONOMY

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cost efficient design and economic local production

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CONTACT US

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