



**The full range from a single supplier:** Lighting Technology from Bosch



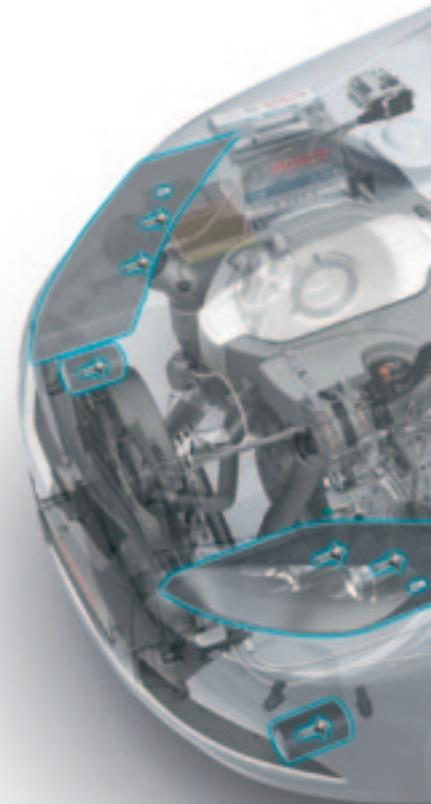
**BOSCH**

Invented for life

# The latest lighting technology:

## The complete range from Europe's leading supplier

Bosch lighting systems satisfy the highest standards and offer exactly the right product for every application. The extensive lighting systems range includes headlamps, rear lamps, auxiliary lamps, work lamps, rotating beacons and a wide selection of bulbs.



### Headlamps

- ▶ A broad range for a wide variety of vehicles in Europe
- ▶ Always up-to-date: Available at series launch of vehicles
- ▶ Perfectly matched: Bosch diagnostics. For efficient repair, adjustment and bulb replacement for Xenon and AFS headlamps
- ▶ Innovative technology including LED, night vision and adaptive headlamps
- ▶ Exclusively original-equipment quality

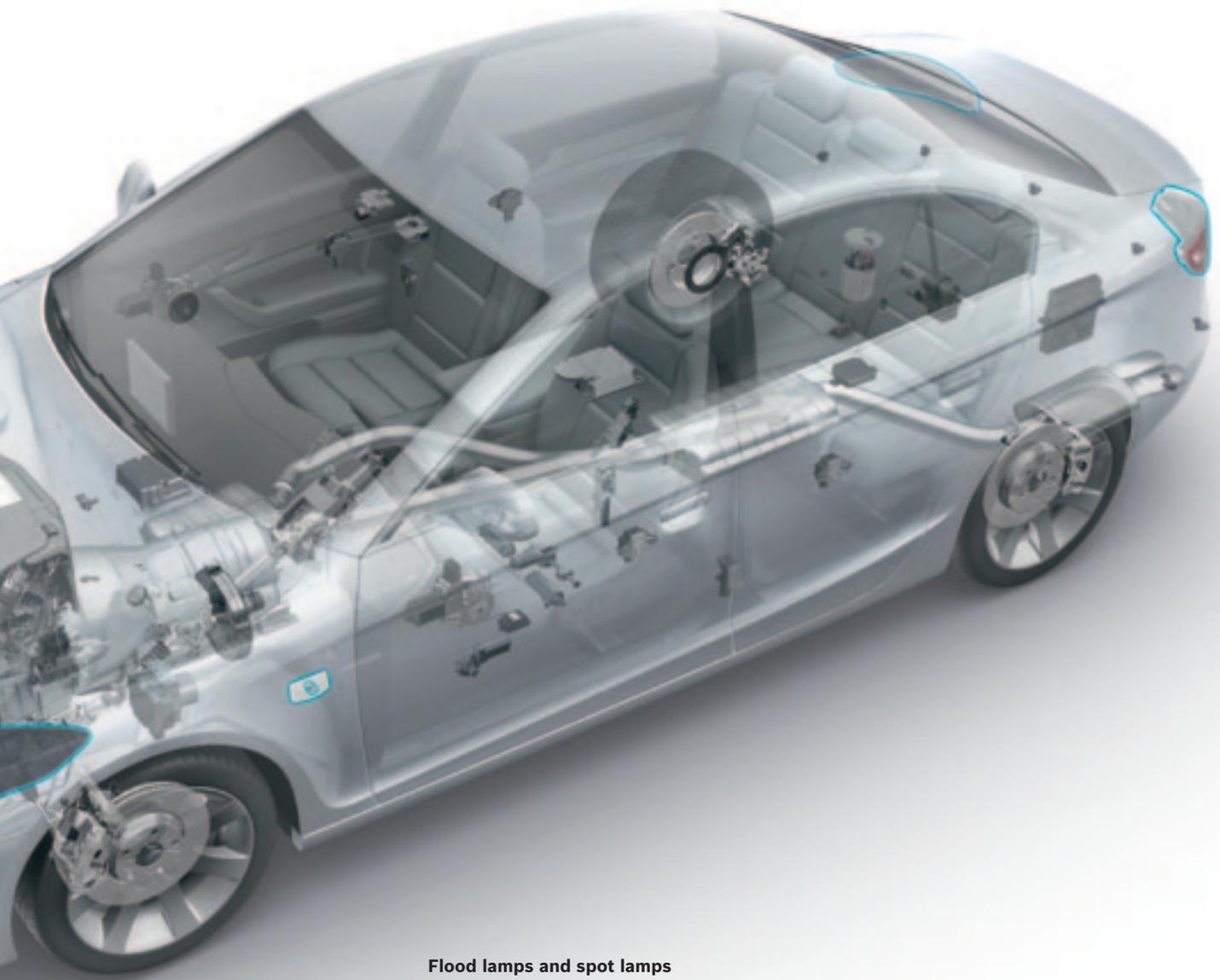
### Bulbs

- ▶ A wide range: Suitable for more than 95% of all vehicles in Europe
- ▶ Range available in practical workshop packaging and popular DIY packaging
- ▶ Attractive sales displays
- ▶ Good selection of product lines with different focuses: The right bulb for every application



### Rear lamps

- ▶ A broad range for a wide variety of vehicles in Europe
- ▶ Always up-to-date: Available at series launch of vehicles
- ▶ Innovative technology such as LED
- ▶ Exclusively original-equipment quality



#### **Flood lamps and spot lamps**

- ▶ Xenon, halogen and LED range for a wide variety of applications
- ▶ Robust, high quality designs: Shatter-proof as well as corrosion and impact-resistant
- ▶ Flood lamps for bright illumination of larger areas
- ▶ Spot lamps with a concentrated beam of light for focusing on distant individuals and objects



#### **Auxiliary lamps**

- ▶ Modern, top quality design
- ▶ Flexible installation options
- ▶ Durable, heavy duty Bosch quality for SUV and commercial vehicles
- ▶ High light output providing perfect illumination
- ▶ Xenon, halogen and LED range for a wide variety of applications

#### **Rotating beacons**

- ▶ Individual solutions for the most diverse requirements and applications
- ▶ Convenient operation, installation and bulb replacement
- ▶ Wear-free design: No maintenance and a long service life
- ▶ Optimum warning effect with high visibility

# See and be seen: The latest developments in lighting technology



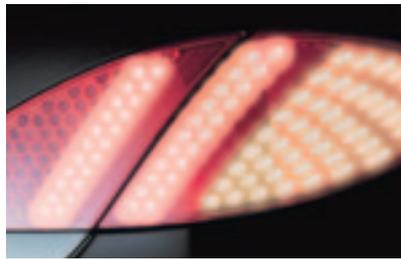
## For better visibility and safer driving

With innovative components for advanced lighting systems, Bosch makes a crucial contribution to road safety.

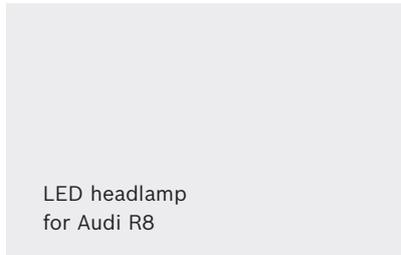
## LED headlamps and LED lights

An extremely short response time, a long service life and low energy consumption – these are the benefits of LED technology. What's more, LEDs offer new possibilities in terms of headlamp and light design. Red and yellow rear light LEDs with tail light, fog light, indicator and brake light functions guarantee optimum visibility.

A new feature of headlamps is the use of white LEDs with a high light output for position and daytime driving light functions. And a European first: The approval of headlamps featuring LED technology for low and high beam functions.



LED rear lamp for Peugeot 307 CC



LED headlamp for Audi R8



## Night Vision

Better vision at night without blinding oncoming traffic? No problem with Night Vision from Bosch. The Night Vision unit provides drivers with a sharp, realistic view of the road situation. Thanks to active infrared technology from Bosch, Night Vision also ensures early detection of easily overlooked obstacles such as road debris or pedestrians in dark clothing.



**Night Vision:** Enables drivers to see the course of the road, other road users and obstacles up to 150 meters away.

### A reliable partner

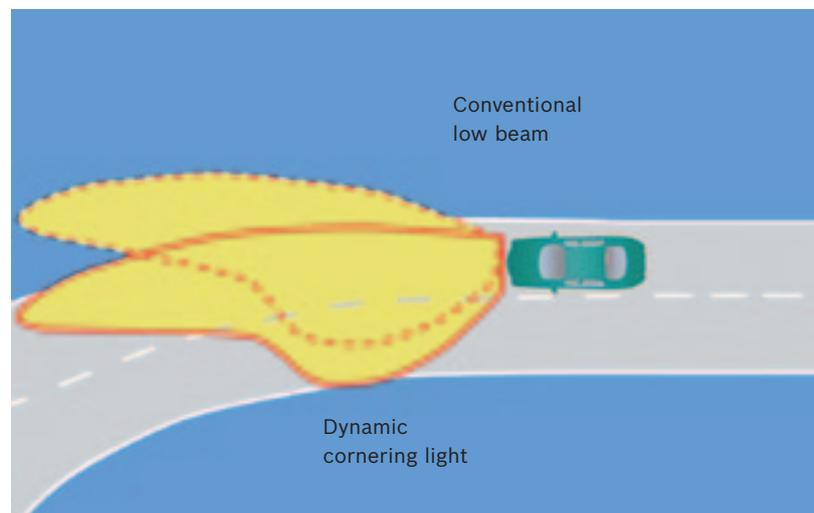
A great number of vehicles in Europe are equipped with Bosch lighting systems. All of course with the familiar high Bosch original-equipment standard. The range is constantly being updated and extended to include new passenger and commercial vehicle headlamps.



### Adaptive Headlights

Give drivers a far better view and are a considerable boost to safety. Three different AFS (Advanced Front lighting System) versions are used:

- ▶ Static cornering light: An additional reflector illuminates the turning-off area at right angles
- ▶ Dynamic cornering light: The light beam adjusts automatically and exactly to the course of the road as a function of vehicle speed and steering wheel angle
- ▶ Adaptive cornering light: Sensors monitor parameters such as steering angle and vehicle speed. Swiveling headlamps automatically adjust the light to the direction of travel, vehicle speed and the weather conditions

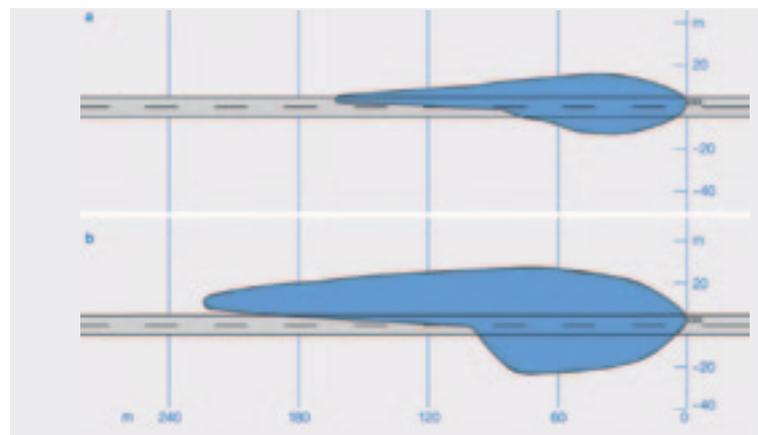


Illumination of road with dynamic cornering light

### Xenon headlamps

At night and with poor visibility, drivers are reliant on every possible detail. Xenon or bi-xenon headlamps provide a level of light output far superior to that of conventional halogen headlamps. Due to this superiority, more and more vehicles are being fitted with xenon technology as original-equipment. The advantages of xenon headlamps at a glance:

- ▶ Around 2.5 times higher light output
- ▶ Light appearance similar to daylight
- ▶ Roughly 1/3 lower energy consumption
- ▶ Longer service life and greater reliability



Comparison: Halogen light distribution (top) and xenon light distribution (bottom)

# More light?

Bosch can offer the right light for every application

## Extra light: Bosch universal lamps

The versatile range of auxiliary lamps, work lamps and rotating beacons provides safety and convenience in all situations and for all requirements. Bosch has the answer to all lighting questions, combining a robust design with reliable technology and an attractive appearance.



## For added brightness: Bosch auxiliary lamps

Auxiliary lamps from Bosch provide added safety both in the dark and in snow, fog and rain. A wide range of applications, reliable operation and an attractive design for more safety and style are the prominent features of Bosch auxiliary lamps.

- ▶ Comprehensive range to suit all requirements
- ▶ Rugged, a long service life and high light output

## Light up the night: Bosch flood lamps and spot lamps

Bosch flood lamps provide a broad, even distribution of close-range light and are thus ideal for illuminating stationary and mobile work areas. By contrast, Bosch spot lamps offer a concentrated beam of light over longer distances.

- ▶ Extremely sturdy construction for reliability and a long service life
- ▶ Numerous attachment options, including a magnetic mount
- ▶ Compact design

## For high warning effect: Bosch rotating beacons

Guaranteed to give sufficient warning so that no danger is overlooked. Bosch rotating beacons provide reliable protection both for vehicles and for stationary and mobile equipment.

- ▶ Different versions to suit every application
- ▶ Optimum warning effect and high visibility
- ▶ Convenient operation, installation and bulb replacement
- ▶ No interference from any type of radio or car phones
- ▶ Wear-free construction for a long, reliable service life
- ▶ Various fitting options for greater flexibility



## For better vision: Bosch bulbs

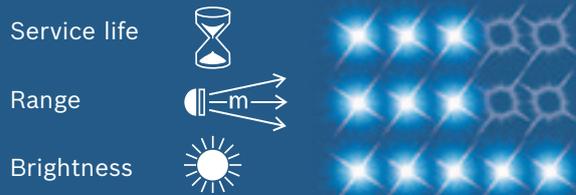
Bosch is full of bright new ideas and product highlights for the bulb market as well.

- ▶ A variety of product lines: Comprehensive range for more or less every vehicle and all applications
- ▶ Workshop and DIY range: Two tailor-made ranges to achieve optimum sales results through all distribution channels
- ▶ For all lamps: Exactly the right bulbs with 6 V / 12 V / 24 V electrical system voltage

## The star concept

The star concept highlights the special features of every bulb at first glance. The service life, range and brightness ratings give an immediate indication of which bulb is best suited to meet the specific requirements.

### The star concept based on the Xenon Blue range:



#### Pure Light:

The standard complete range in original-equipment quality.



#### Rallye:

Special high-power bulbs for halogen headlights with maximum light output. These bulbs are not approved for driving on public roads. Only for use in areas not subject to the German Road Traffic Act (StVo).



#### Longlife Daytime:

Up to three times longer service life and up to 10 % more light\*. Also particularly suitable as daytime driving light thanks to long-life technology.



Plus 30



Plus 50/60

#### Plus 30 / Plus 50 / Plus 60:

Up to 30 % / 50 % / 60 % more light on the road\*. For added safety and better road illumination.



#### Xenon Silver:

White light similar to daylight; for halogen headlamps providing up to 50 % more light on the road\*. See and be seen more clearly and over a longer distance.



Plus 90

#### Plus 90:

Our most light-intensive halogen bulb in the field of public roads. Up to 90 % more light on the road\*.



#### Xenon Blue:

Powerful bluish-white light, similar to Xenon light for halogen headlamps.



Trucklight



Trucklight Maxlife

#### Trucklight / Trucklight Maxlife:

Complete 24 V range for commercial vehicles in original-equipment quality. Trucklight Maxlife is particularly robust and durable.



#### Magic Effect:

Indicator with magical color effect – lights up only orange when activated.



Xenon

#### Xenon:

Gas discharge lamp with high light output providing excellent visibility, low energy consumption and long service life.

\*in comparison to standard halogen bulbs



The readers' choice: In 2012 Bosch once again won the "Best Brands" title awarded by "auto motor und sport" in the category Lights/Bulbs.



# Bosch: Bringing you the workshop of the future

For over 125 years, Bosch innovations have been keeping vehicles on the road and getting people to and from their destinations while improving safety and peace of mind along the way.

Bosch Automotive Aftermarket offers workshops and retailers a comprehensive portfolio of products that is unmatched worldwide:

- ▶ Efficient diagnostics
- ▶ Innovative workshop equipment
- ▶ Quick, reliable delivery
- ▶ The world's most comprehensive range of spare parts – including both new and remanufactured
- ▶ Workshop concepts to meet every requirement
- ▶ Comprehensive training
- ▶ Targeted sales and marketing support
- ▶ A competent service hotline
- ▶ 24-hour online workshop services
- ▶ Affordable leasing services for workshop equipment and software

From parts to scheduling, organization and results, our solutions are combined with additional services to ensure your needs will be perfectly met, helping you to maximize your potential.

**Your address for genuine Bosch quality:**

**For more information:**  
[www.bosch.com](http://www.bosch.com)



Technical changes and program modifications are reserved

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## The world of Bosch:

- ▶ Diagnostics
- ▶ Diesel systems
- ▶ Gasoline systems
- ▶ Braking systems
- ▶ Spark plugs
- ▶ Energy systems
- ▶ Batteries
- ▶ Filters
- ▶ Wiper systems
- ▶ Lighting technology
- ▶ Comfort electronics
- ▶ Technical hotline
- ▶ Knowledge database
- ▶ Service training
- ▶ Workshop concepts



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