

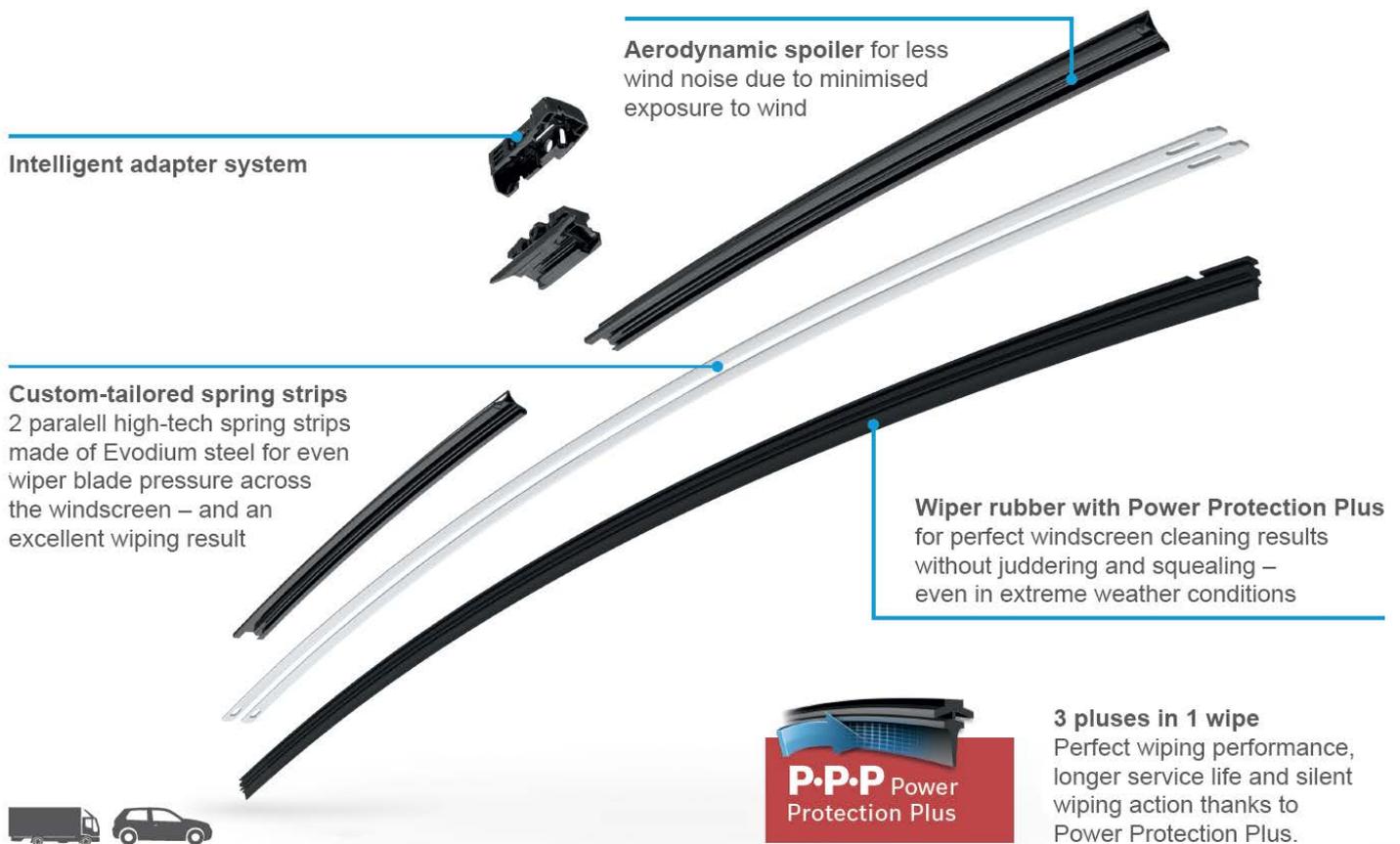
# Tips and technology

## Aerotwin passenger car flat-blade wipers

### Product details & technology

#### **Bosch Aerotwin: leading technology in the field of flat-blade wipers –**

The aerodynamic design and patent Power Protection Plus wiper rubber ensure optimum visibility in any weather conditions



### Benefits at a glance

- **Perfect wiping performance in any weather conditions, longer service life silent wiping action:** the patent Power Protection Plus wiper rubber coating
- **Quick and easy installation:** intelligent adapter systems for simple and fast wiper changes
- **A clear view even at high speed:** the custom-tailored high-tech spring strips ensure an even wiper pressure so the wiper rubber can provide optimum cleaning performance across the entire windscreen
- **Extremely low-noise wiping action:** the aerodynamic design minimises the area exposed to the wind
- **Perfect fit and safety:** comprehensive vehicle-specific quality and functional testing based on OEM parts standards, compatibility with all popular wiper arm interfaces

# Windscreen wipers

## Development, manufacture and quality testing



### Development and innovation

#### Maximum comfort, trailblazing design

All components are developed based on specific vehicles, and cutting-edge tools are used to fine-tune the wiper system

Bosch uses the wind tunnel to perform tests under various wind conditions and speeds up to 160 km/h, for instance

*Bosch develops windscreen wipers in Bühl (Germany) and Tienen (Belgium)*

### Large-scale manufacturing



#### Special, multi-award-winning Bosch rubber mixture

Consistently high rubber mixture production quality thanks to sophisticated lab analyses prior to production approval

The wiper rubber is durable due to its high resistance to abrasion, UV light and aging as well as high cold and heat elasticity

### Performance and stress testing



#### Safety and reliability are the foremost principles

Strict performance and stress tests carried out in the testing laboratory as well as directly on the vehicle are the basis for the consistently high quality of Bosch windscreen wipers

Subject to testing are, among others, resistance to environmental and ozone impacts, chemical stress and abrasion

Performance tests assess wiping quality, noise generation, high-speed performance and service life to ensure long-lasting wiping quality

# Aerotwin products

## Product lines

### Aerotwin Original A, e.g. A 979 S



#### Das Original-Set

- ▶ Complete range of sets optimised for specific vehicles
- ▶ More than 150 part numbers with more than 99 % market coverage of OE interfaces
- ▶ Quick and easy installation due to the pre-installed original adapter customised for the corresponding passenger vehicle model

### Aerotwin Universal AM, e.g. AM 462 S



#### Das Universal-Set

- ▶ Compact range with universal-fit sets for the most common OE wiper arm interfaces
- ▶ Range of 7 part numbers with more than 25 % market coverage of OE interfaces
- ▶ Quick and easy installation due to the pre-installed Multi-Clip adapter for the 4 most common wiper arm interfaces in the vehicle market

### Aerotwin Universal AP, e.g. AP 24 U



#### Das Universal-Single

- ▶ Compact single wiper product range with the modular adapter system universal optimised for OE wiper arm interfaces
- ▶ Range of 15 part numbers with more than 90 % market coverage of the OE vehicle fleet
- ▶ Always the right solution with the modular adapter system: 4 adapters fit the 10 most common wiper arm interfaces

### Aerotwin Upgrade AR, e.g. AR 601 S



#### Das Upgrade-Angebot

- ▶ Compact range of universal-fit sets and singles for hook-type wiper arms
- ▶ 50 part numbers with more than 99 % market coverage of hook-type wiper arms
- ▶ Quick and easy installation due to the pre-installed adapter