

# WIPERS FOR TELESCOPIC STEEL COVERS

The wiper systems for steel covers can be sub-divided into three main groups:

- Types P 01/P 02/P03 - wiper lip cannot be replaced
- Types DSP/DV/LP - wiper lip can be replaced
- Types LV - wiper system can be replaced. Replacing of wiper lip **without dismantling of cover**

## Wiper type P 01/P 02/P03

Wiper of types P 01/P 02 can be used universally. They can be used horizontally for telescopic steel covers or vertically for guideway wipers. A polyurethane wiper lip is vulcanised onto one or two steel profiles and thus permanently bonded. An additional support by steel frame is available as an option. When worn, the complete wiper must be replaced. These wipers lips are available in lengths of 500 mm.

## Wiper Type DSP/DV/LP

Wiper lips of these types can be replaced when worn. The service should be done by professional service personnel. They are fixed by spot welding. These wipers are compatible with many systems common in the marketplace. The metal profiles are produced from stainless steel.

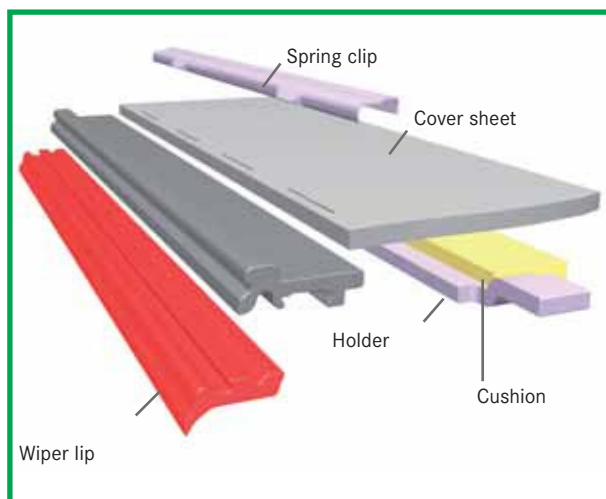
Wiper lips are available in lengths from 1,000 to 10,000 mm, metal profiles from 1,000 to 3,000 mm length. Wiper lips and metal profiles can be ordered separately.

## Wiper Type LV

This innovative system enables a significant reduction of maintenance time and costs. The wiper lips of type LV can easily be changed when worn. Replacement can be made by customers own personnel. For replacement of the wiper lip, only the spring clips have to be loosened, and the profile with wiper removed and replaced.

**There is no further dismantling of the cover required.**

In comparison to standard wiper systems, machine down time can be reduced by up to 15%.



LV Wiper System

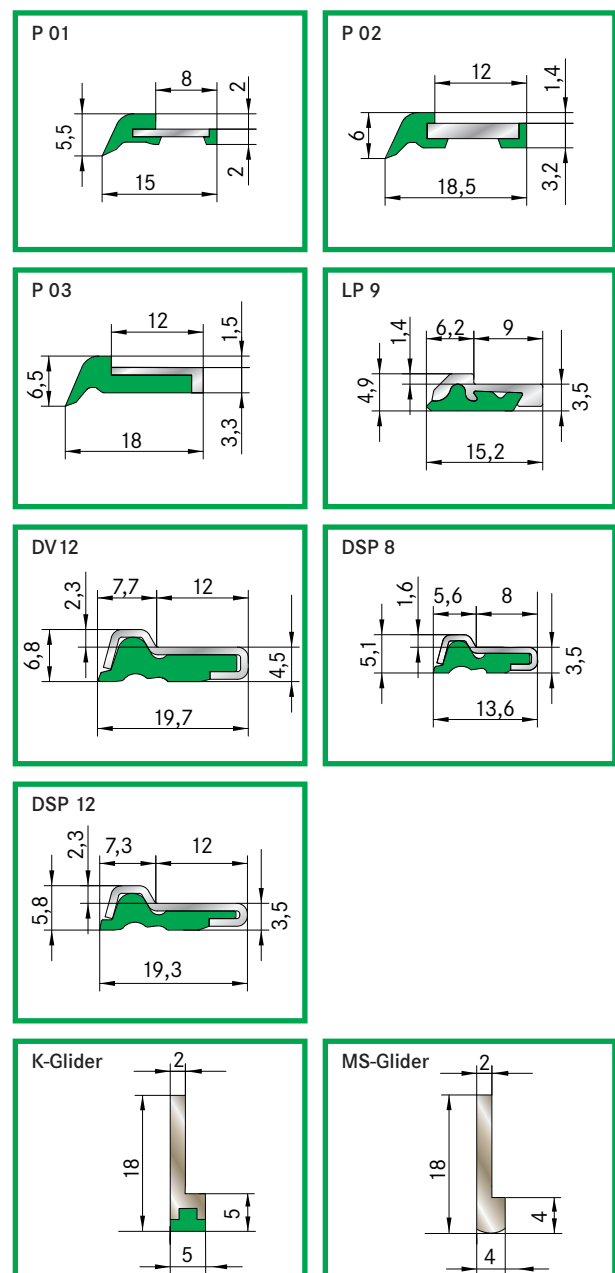
Wiper lips are available in lengths from 1,000 to 10,000 mm, metal profiles from 1,000 to 3,000 mm.

## Material of wiper lips

The wiper lips are manufactured from high-grade polyurethane and offer good mechanical and chemical properties.

They are temperature resistant up to a maximum of 130°C (natural rubber up to 135°C), continuously up to 90°C (natural rubber up to 100°C).

## Wiper profiles for Telescopic Steel Covers



## WIPERS FOR GUIDEWAYS

The guideways of machine tools must be kept free of chips and debris. Therefore wipers are important. Wipers for guideways are designed specifically to occupy minimum space.

These wipers can be produced in different forms, dimensions, and in different materials. For each application there will be an optimal version available.

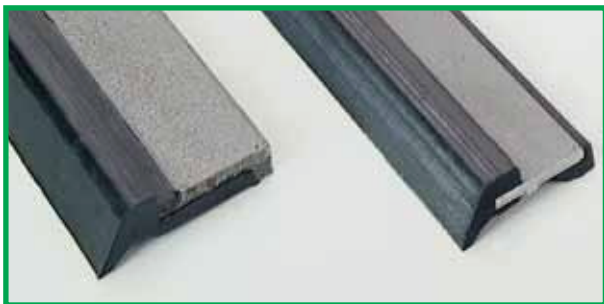
For guideway wipers there are four different types available:

- Wiper Type P
- Wiper Type L
- Wiper Type S - for welded wiper
- Individual designed, vulcanised wiper

### Wiper type P

Wipers of this type can be used universally. They can be mounted horizontally for Telescopic Steel Covers or vertically for guideways.

A polyurethane lip with a steel core is vulcanised to a steel profile. An additional steel band reinforcement is available as an option.



Wiper type P

### Wiper type L

This wiper type is produced as an insert with a lip of natural rubber. This lip possesses excellent mechanical qualities and a high resistance to abrasion.

The material is resistant to mineral oils, coolants, and micro-organisms



Wiper type L

### Wiper type S

These wipers are equipped with a special two-sided lip, providing rear sealing to coolant.

Its outer support of nickel chromium steel offers high rigidity and stability under load.



Wiper type S with additional metal wiper

### Individual wiper

Vulcanised wiper systems are available according to customer's drawing. They can be produced in many forms.

For economic production a minimum of 20 pieces must be ordered.



Individually designed type with vulcanised wiper lip

### Design

Standard wipers are available in the following lengths:

- Wiper Type P: 500 mm
- Wiper Type L: 500 mm
- Wiper Type S: 530 and 1,000 mm

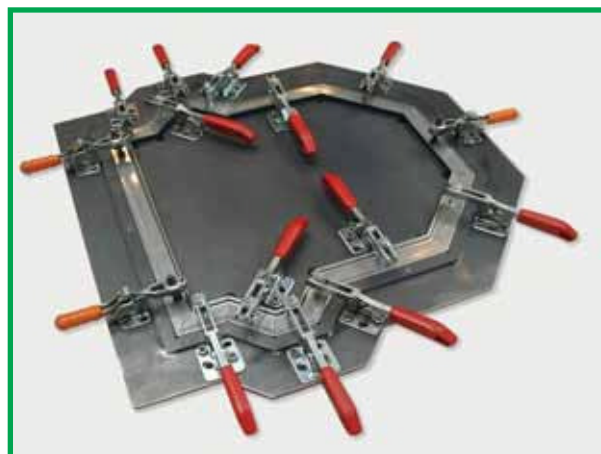
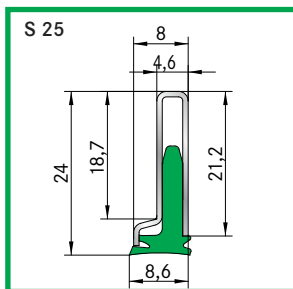
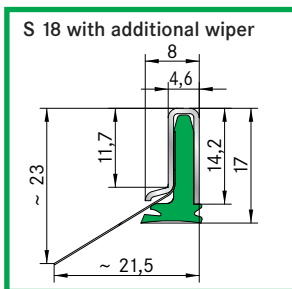
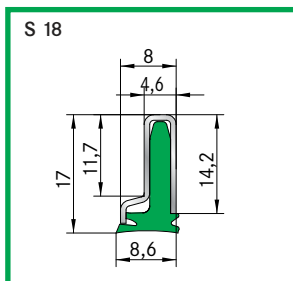
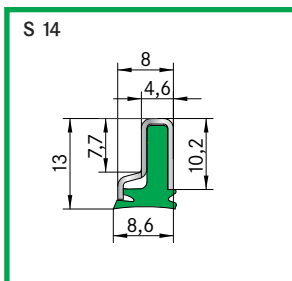
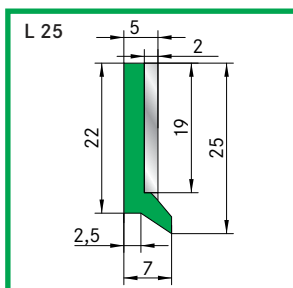
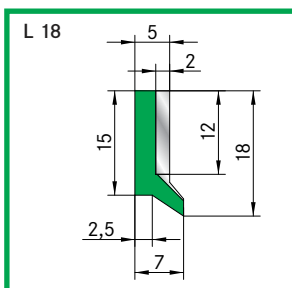
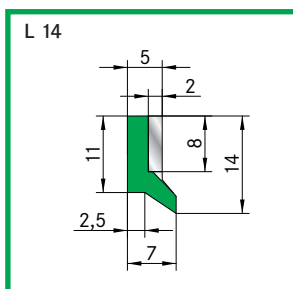
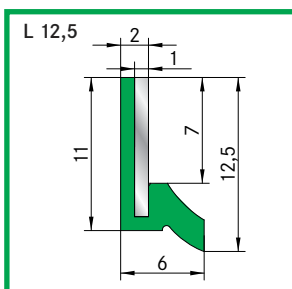
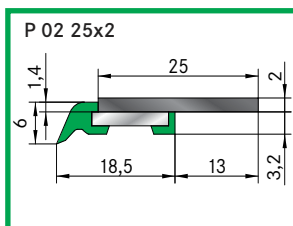
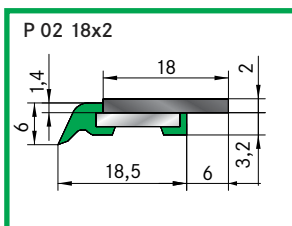
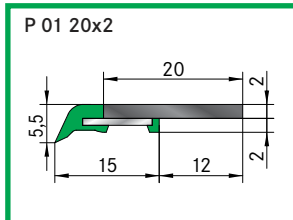
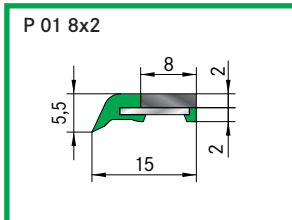
Wipers according to customer's specification can be produced. Additionally they can be equipped with an extra steel wiper. Preload of wiper is generally 1 mm.

### Material wiper

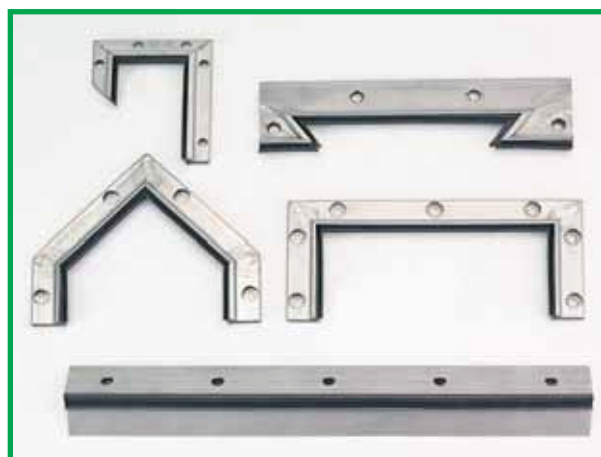
- Polyurethane
- Temporary temperature resistant up to 130°C
- Permanent temperature resistant up to 90°C
- Resistant to mineral oils and coolants
- Excellent resistance to absorption
- High resistance to micro-organisms

# WIPERS FOR GUIDEWAYS

## Wipers for guideways



Preparation of wiper



Individual designed wiper according to customer's requirements