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WAY-WIPERS

Economical and easy to install KabelSchlepp way-wipers offer the machine builder or end user complete slideway protection for original equipment and retrofit applications25.02



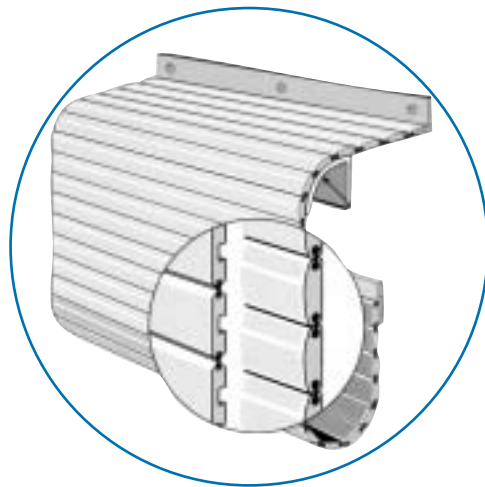
CONICAL SPRING COVERS

Completely enclosed design offers protection for lead screws, ball screws, hydraulic rods, die posts, etc.25.04



APRON WAY COVERS

High strength aluminum extrusions provide positive protection of machine ways from hot chips, abrasives, and other wear causing agents25.05



Strong armor
Chip Protection Systems
Machine protection
tool

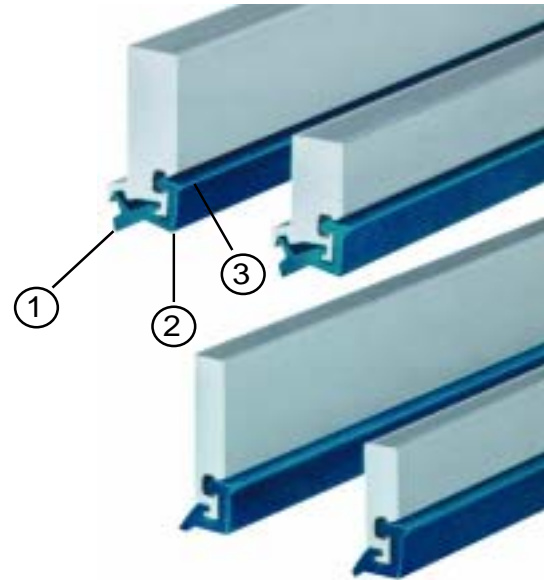
Way Wipers

For long-life machine tool protection

KabelSchlepp's complete three-point seal

KabelSchlepp's way-wipers offer an exclusive three-point sealing system which ensures that your close-tolerance machine tool slideway receives all the protection it needs from hot chips, abrasives and cooling agents.

The tough polyurethane wiper blade is specially designed to seal against these wear-causing agents at three critical points:



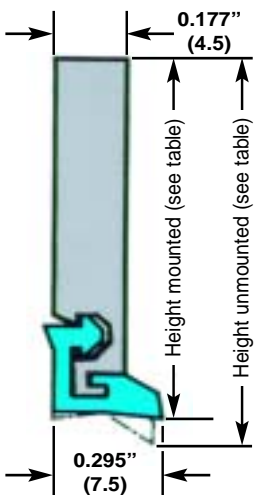
- 1 Front lip of blade is suspended under tension to provide a tight seal on the machine slideway.
- 2 The rear lip gives additional protection for both directions of machine travel.
- 3 The unique top lip seals the moving part of the machine preventing harmful material from seepage between wiper and machine from above.

Other important features:

- Four types and sizes are available - two with frame overhang to protect the blade from hot chips.
- Solid aluminum alloy frame - lightweight and non-corrosive.
- Mounting holes are drilled through the frame only, which in turn ensures that there is no distortion to the wiper blade.
- Blade elements are easily replaceable.
- Optional copper alloy chip shields can be added for complete protection of wiper blades from hot chips.

Versatile wiper types and sizes

Type BA18 & 25



When ordering, please specify type and size (e.g. BA25, BAS25). Optional copper alloy hot-chip shields available for Type BAS

Type BAS18, 25 & 40

(Available with hot chip shields)

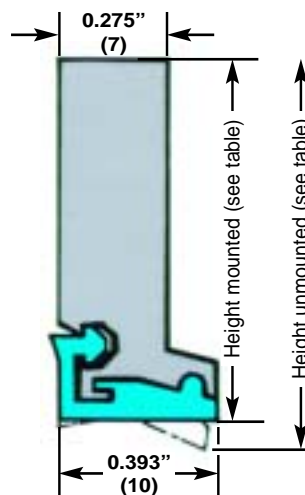


Table of heights

Order No.	Unmounted height	Mounted height
BA18	0.708" (18mm)	0.669" (17mm)
BA25	0.944" (24mm)	0.905" (23mm)
BAS 18	0.708" (18mm)	0.669" (17mm)
BAS25	0.944" (24mm)	0.905" (23mm)
BAS40	1.575" (40mm)	1.535" (39mm)

KabelSchlepp Way wipers afford flexibility for both OEM and end user

Order pre-assembled way-wipers



KabelSchlepp way-wipers can be ordered pre-assembled to your exact specifications. Just send us a drawing of the slideway and moving part of the machine and we'll cut and assemble the wiper to any

configuration - right angle, U or V-shape, dovetail, prismatic - all standard and special slideway shapes. All you need to do is mount the finished custom fit wipers on your machine.

Cut and assemble to your needs

KabelSchlepp provides convenient 39.4" stock lengths for economical and fast in-plant assembly.

Cut and assemble your own wiper following the easy four step installation procedure, reducing ordering time and eliminating the fabrication cost.

Easy four step installation

- 1. Measuring** - Simply order stock lengths and measure slideway to be protected.
- 2. Cutting** - Lightweight Aluminum alloy frame with wiper blade in place is easily cut to required lengths and angles.
- 3. Pinning** - Drill two holes through each angle.
- 4. Mounting** - Drill holes through the metal frame and drill and tap the moving part of the machine. Attach the wiper to the machine.

Optional hot-chip shield

For additional protection from hot chips, KabelSchlepp offers a pre-formed copper alloy strip for use with Type BAS that can

be attached with mounting screws. The hot chip shield provides complete protection for the wiper blade from hot chips and will not scratch the slideway surface.



Economical and easy to install for the machine tool builder or end user. KabelSchlepp way-wipers offer complete slideway protection for original equipment or retrofit applications.

Specifications:

- Length:** Standard length of 39.4" (1000mm).
- Height:** 0.669" (17mm), 0.905" (23mm), and 1.535" (39mm) mounted.
- Frame:** Solid, non-corrosive aluminum alloy. Type BAS protects wiper blade from hot chips.
- Blade:** Polyurethane. Long wearing and resistant to oil, cooling agents, most chemicals. Will withstand temperatures up to 200° F.
- Tension:** 0.0394" (1mm).

Conical Spring Covers



- Inexpensive and effective method of protecting sensitive areas on and around machinery.
- Completely enclosed design offers protection for: lead screws, ball screws, hydraulic rods, die posts, and personnel.
- Dynamic telescopic action results in automatic expansion and contraction.
- No mounting clamps required.
- Mounting "seats" available.
- Made to order - prompt delivery.
- Available in Stainless or Carbon Steel.
- Good aesthetic appearance.
- Made in America.

How to determine size requirements yourself?

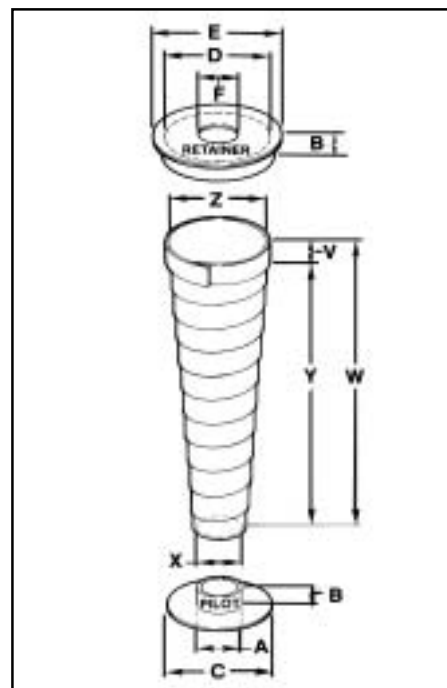
<i>Cover:</i>	(inches)
X = Inside diameter = Shaft diameter + 0.25"	=
W = Extended length = Max. exposed length of shaft	=
V = Collapsed length = Min. exposed length of shaft	=
Y = Stroke = W - V	=
Z = Outside diameter = Max. allowable area	=

Tolerances: X = +.094/- .000 Z = +.000/- .125

<i>Flanges:</i>	(inches)
A = X - 0.25"	=
B = V x 0.75"	=
C = Z	=
D = Z + 0.125"	=
E = Z + 0.375"	=
F = X - 0.188"	=

How to Order?

- Shaft diameter = _____
- Shaft RPM = _____
- Shaft type = smooth, or screw, or spline
- Minimum allowable inside diameter (**X**) = _____
- Maximum allowable outside diameter (**Z**) = _____
- Maximum extended length required (**W**) = _____
- Maximum collapsed length required (**V**) = _____
- Stroke (travel) speed = _____
- Cycles/min. = _____, or cycles/hour = _____
- Application will be horizontal angular
 vertical variable
- Operating conditions indoor outdoor wet
 dry corrosive abrasive
 high-temp magnetic pressure



Apron Way Covers

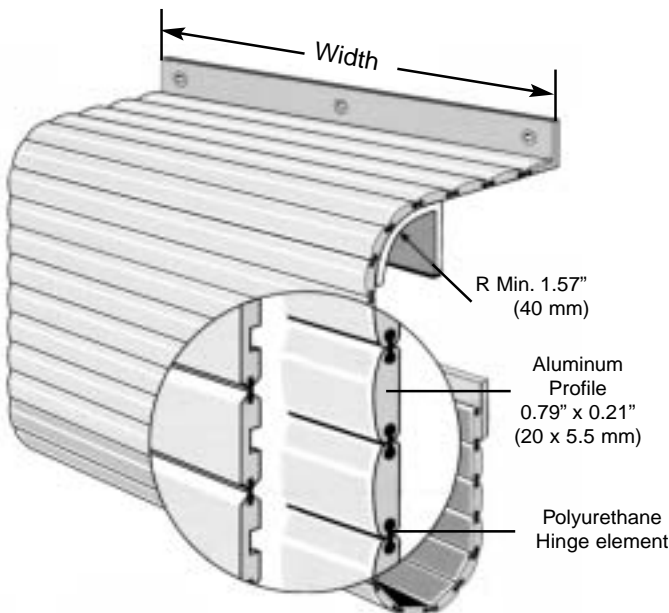
Low-cost, long-life machine slideway protection

KabelSchlepp's unique way cover system helps maximize machine tool investment.

1 Simple angle mounting of the apron can be used when the free end does not touch floor.

2 Apron Covers can be mounted by use of an angle and/or flat mounting brackets. Standard mounting holes are 5/16" diameter for 1/4" mounting screws. Fastening to end link of the apron cover is also possible. If necessary, a roll-up mechanism can also be employed as an option.

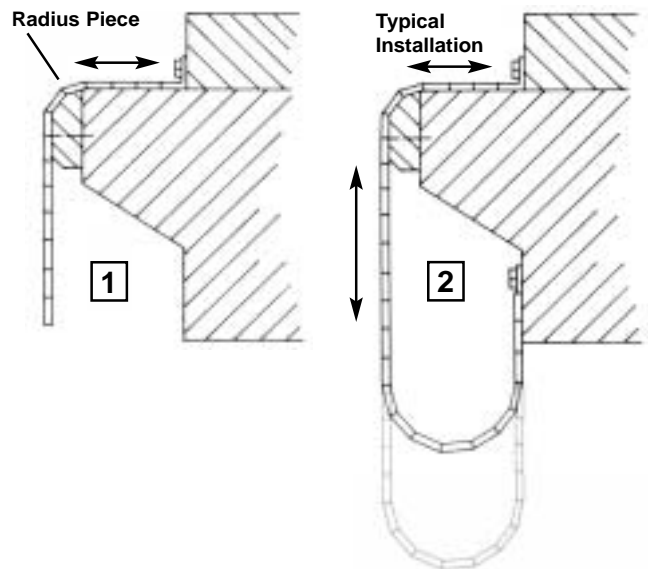
3 **HOW TO ORDER?**
Please specify the required *length* and *width*. Maximum width 72". Standard aluminum mounting 90° angles (3/4" x 3/4" x 1/8") and flat brackets (1-1/4" x 1/8") riveted to the apron are available.



Angle mounting bracket



Flat mounting bracket



Key Advantages:

- High strength aluminum extrusions provide positive protection of machine ways from hot chips, abrasives and other wear-causing agents.
- Aluminum elements interlocked with durable, long-lasting polyurethane hinge elements.
- May be used as an alternative to a telescopic way cover.
- Requires a minimum amount of space.
- Low-cost solution to potential high-cost repair or replacement.
- Simple and quick mounting.
- Helps assure long maintenance-free guideway life.

DESIGN AND LAYOUT NOTES

Name: _____	Date: _____
Dept.: _____	Phone: _____ Fax: _____
Company: _____	Machine Type/Name: _____
Address: _____	

A large grid area for design and layout notes, consisting of a 20x20 grid of small squares, intended for drawing or technical notes.