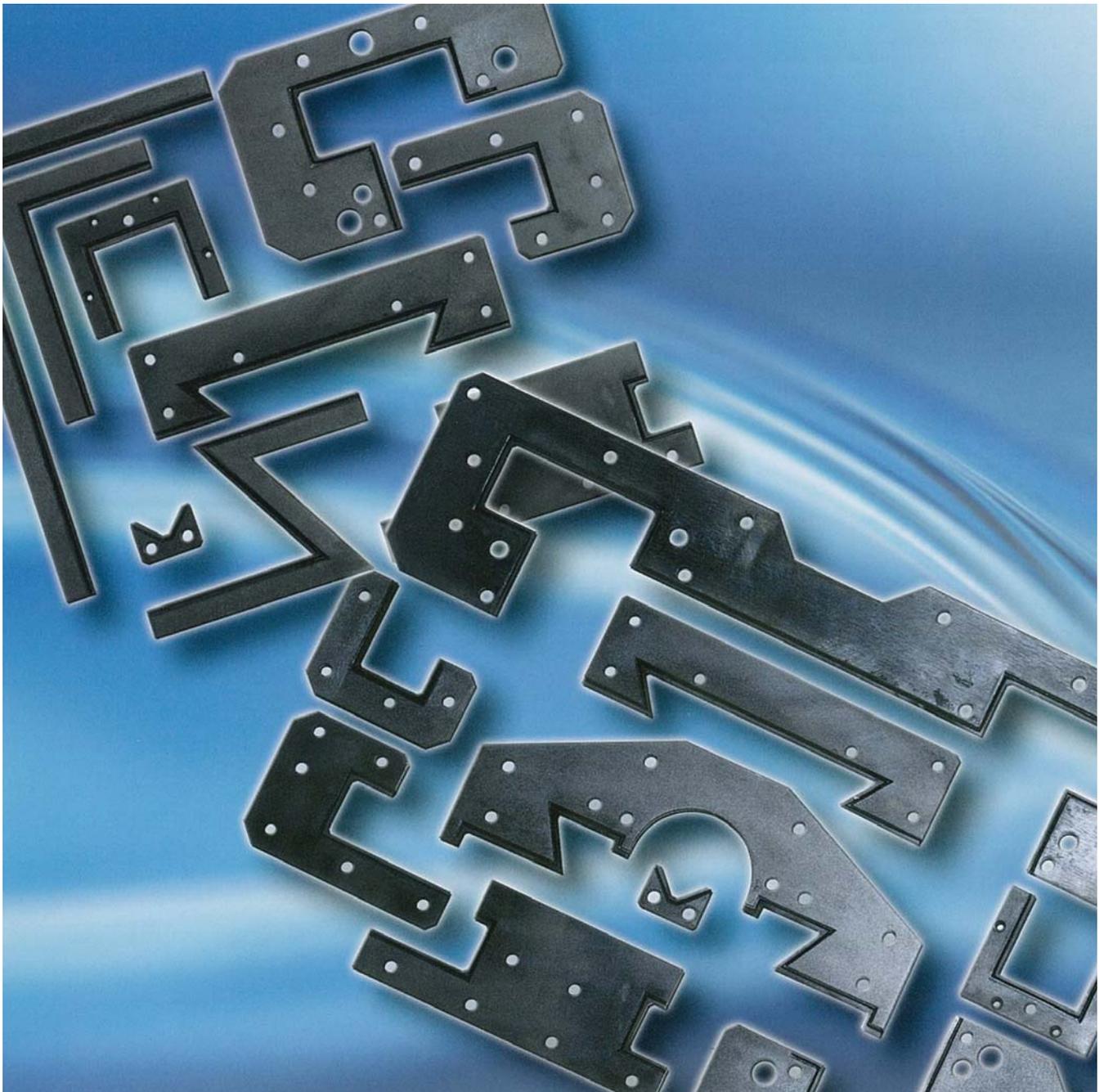




NITTA

Industrial Wiper Products

U-WP-10

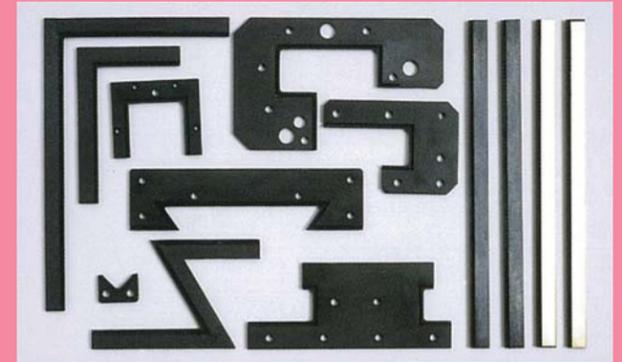


Slide Seal • Lip Seal • Telesco Seal • Cover Seal

Nitta Industrial Wiper Products: tight sealing effect combined with high durability, easy mountability

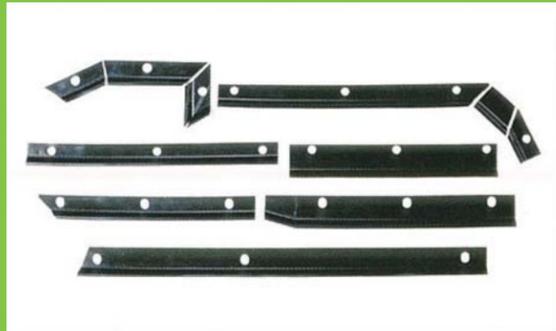
Nitta wipers are sealing materials that keep the accuracy of the sliding bed surface and sliding cover of multi-functional, high-speed machine tools and industrial machinery at their best, to help meet the strict product specifications required. Their sharp lips make for a highly effective seal, they excel in oil and abrasion resistance, and they are easy to mount on the machines.

With their proven performance and high quality, **Nitta wipers** greatly help to **enhance** the operation of every type of general industrial machine.



Slide Seal (See Page 4)

This is a wiper best suited for machine tools where maintaining the accuracy of the sliding bed is critical. In addition to our standard line of products, we can also offer custom-made, seamless molded seals in special shapes.



Lip Seal (See Page 8)

This is a seal for sheet metal covers and can handle even slightly curved surfaces.



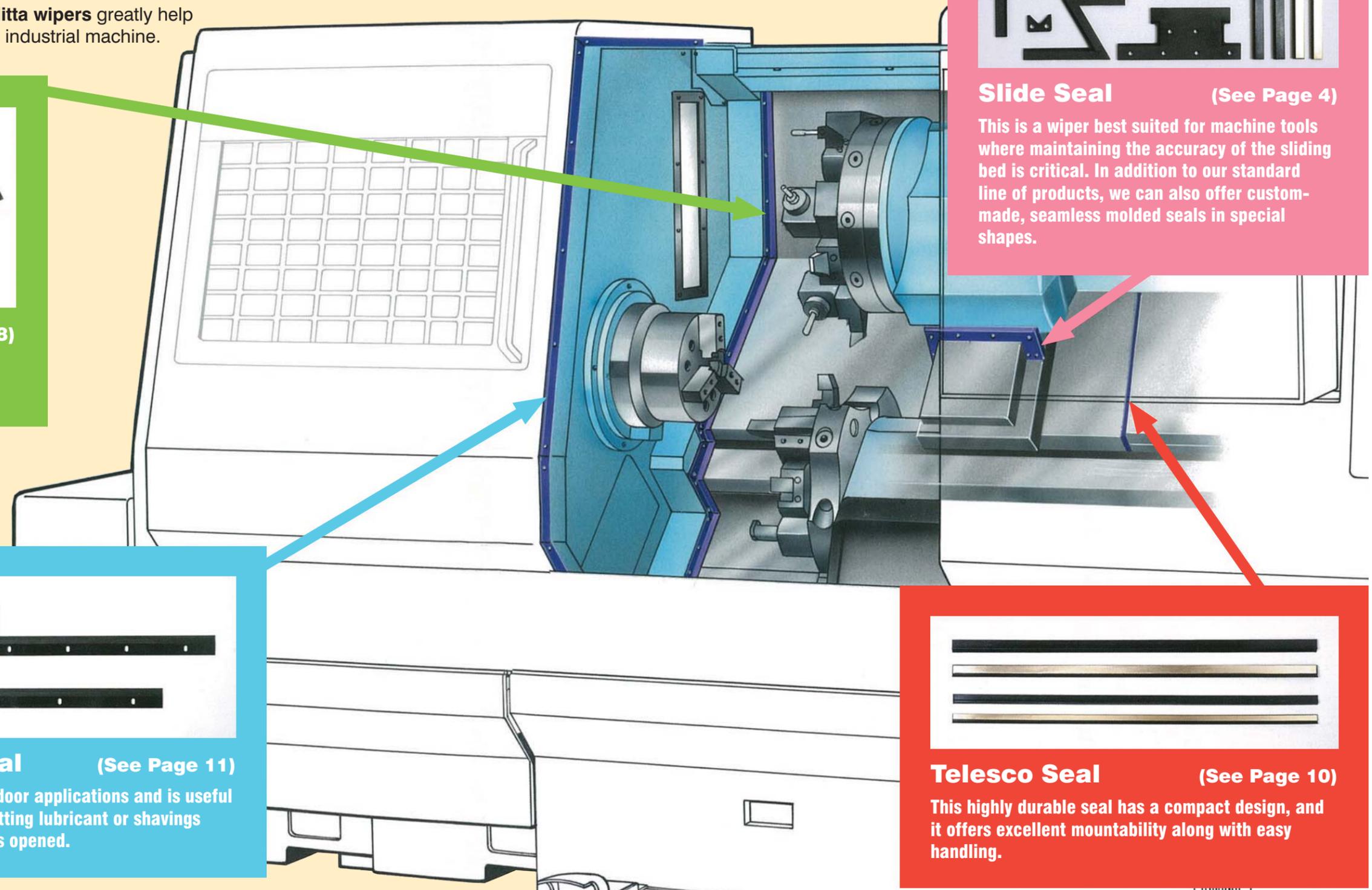
Cover Seal (See Page 11)

This seal is for door applications and is useful for removing cutting lubricant or shavings when the door is opened.



Telesco Seal (See Page 10)

This highly durable seal has a compact design, and it offers excellent mountability along with easy handling.



There are 4 types of industrial wiper products available: Slide Seal, Lip Seal, Telesco Seal and Cover Seal.

Slide Seal

Standard Model (Standard Material)

Straight Type

Highly effective seal

The superior oil- and abrasion-resistant sharp lip is made of synthetic rubber and constantly maintains its uniformity along the sliding bed.

Excellent durability

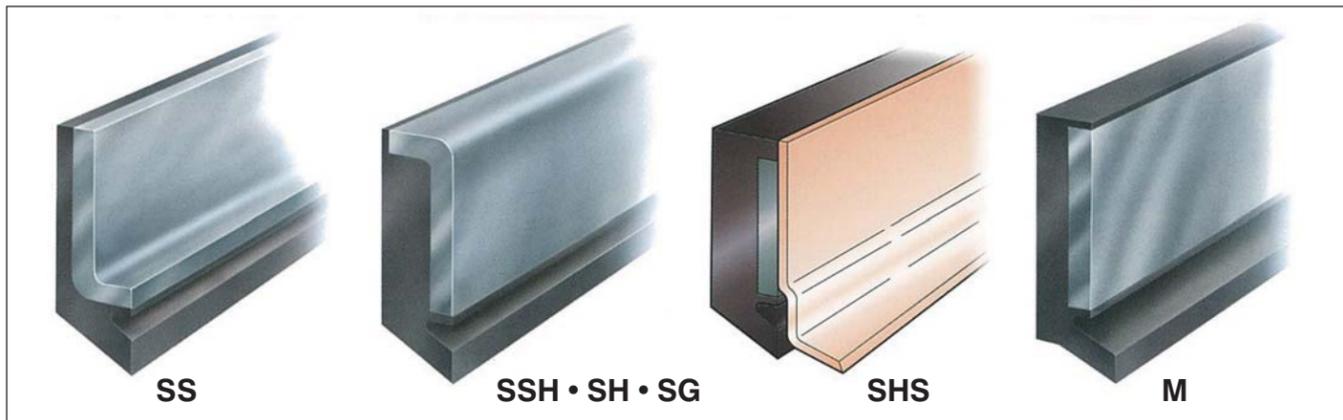
Our high-quality rubber and superior production technology have led to a substantial increase in the usable life of our straight seals, which means less maintenance is required.

Economical design

Our full range of products for a variety of needs makes economical design possible.

Improved functionality of tooling machines

Because the sharp lip guarantees effective wiping, shavings cannot interfere with machining, and precision is maintained.



Cross Section

Type	SS	SSH	SH	SG	SHS	M
Cross Section						
Features	Can be attached even in very tight spots.	This general-purpose wiper is our most popular model.	The reinforcing plate is made of brass, offering superior corrosion resistance.	Polyurethane gives this wiper excellent abrasion resistance.	This model is ideal for places where hot shavings might come into direct contact with the rubber lip.	This model is ideal for places where there is a slight gap between the sliding part and the surface, or where a stronger press is required.

- Please ask us if you need the thickness of the core.
- The surface of the steel reinforcing plate is treated with black rust-preventive coating.

Dimensions

Type	Product Number	Overall Length (mm)*3	W (mm)	B (mm)	L (mm)	T (mm)	Recommended Press-Fit Distance (mm)
SS	SS-0	300	18	5	12.7	2.0	0.5
	SS-3	300	25	6	18.4	2.6	0.5
	SS-4	300	30	6	23.4	2.6	0.5
	SS-6	300	40	6	33.4	2.6	0.5
SSH	SSH-00	300	16	5	12.1	5.0	0.5
	SSH-0	300	18	5	13.8	5.0	0.5
	SSH-3	300	25	6	19.6	6.0	0.5
	SSH-4	300	30	6	24.6	6.0	0.5
	SSH-9	600	25	6	19.6	6.0	0.5
	SSH-0-1100	1,100	18	5	13.5	5.0	0.5
	SSH-3-1100	1,100	25	6	19.6	6.0	0.5
*1	SSH-4-1100	1,100	30	6	24.6	6.0	0.5
SH	SH-00	300	16	5	12.1	5.0	0.5
	SH-0	300	18	5	13.8	5.0	0.5
	SH-3	300	25	6	19.6	6.0	0.5
	SH-9	600	25	6	19.6	6.0	0.5
SG	SG-0	300	18	5	13.8	5.0	0.5
	*2	SG-3	300	25	6	19.6	6.0
SHS	SHS-0	300	18	11	9.6	5.2	0.5
	SHS-3	300	25	12	16.6	6.2	0.5
M	M-0	300	18	7	12.0	5.0	1
	M-3	300	25	8	19.0	6.0	1

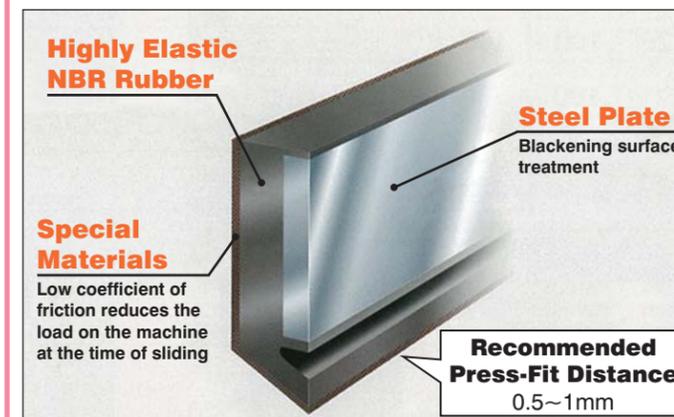
*1. Only SSH-0-1100 has a flat core.

*2. Only SG type has pin holes to fix the core.

*3. The overall length is nominal.

Slide Seal for high-speed sliding – GW-SSH

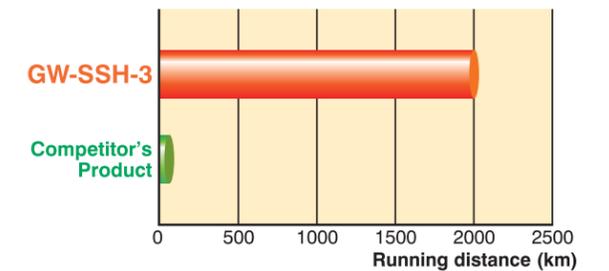
Structure & Features



High speed

A new structure to cover the sliding surface of the GW wiper with a special material resulted in unprecedented high-speed compatibility and long life.

- High-speed running test – no lubricant (run at 70m/min.)



Dimensions

Type	Product Number	Length (mm)	W (mm)	B (mm)	L (mm)	T (mm)	Shape
GW	GW-SSH-0	300	18	5	13.5	5	
	GW-SSH-3	300	25	5	20.5	5	

* Please contact us if you have any questions about how to process.

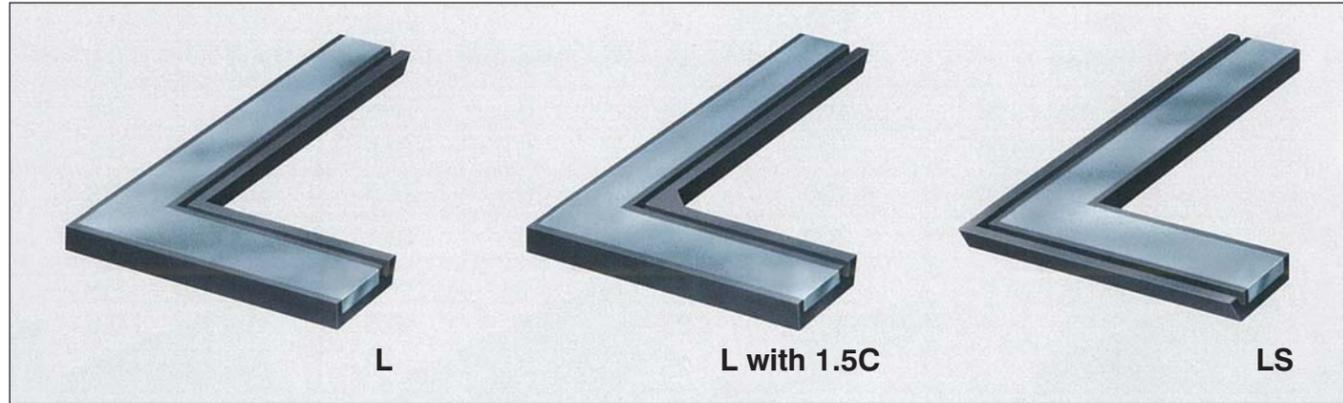
Slide Seal

Standard Model (Standard Material)

L-Shaped (corner portion casting)

Standard L-shaped parts are cast without any joint in the corner portion of the sliding bed. The L type has an inside lip, and the LS type has an outside lip. Two sizes, standard type and mini-type, are available.

Also, we offer a line of L-type seals for corners with 1.5C chamfering.



Dimensions

● Mini-type (75 x 125mm)

Type	Product Number	W (mm)	B·T (mm)	L ₁ (mm)	L ₂ (mm)	ℓ ₁ (mm)	ℓ ₂ (mm)	Shape	
L	L-L-SSH-0 M	18	5	75	125	93	143	L-L (corner on the left)	
	L-L-SSH-3 M	25	6	75	125	100	150		
	L-L-SSH-0 M-1.5C	18	5	75	125	93	143		
	L-L-SSH-3 M-1.5C	25	6	75	125	100	150		
	L	L-R-SSH-0 M	18	5	75	125	93	143	L-R (corner on the right)
		L-R-SSH-3 M	25	6	75	125	100	150	
		L-R-SSH-0 M-1.5C	18	5	75	125	93	143	
		L-R-SSH-3 M-1.5C	25	6	75	125	100	150	

● Standard type (150 x 250mm)

Type	Product Number	W (mm)	B·T (mm)	L ₁ (mm)	L ₂ (mm)	ℓ ₁ (mm)	ℓ ₂ (mm)	Shape	
L	L-L-SSH-0	18	5	150	250	168	268	L-L (corner on the left)	
	L-L-SSH-3	25	6	150	250	175	275		
	L-L-SSH-0-1.5C	18	5	150	250	168	268		
	L-L-SSH-3-1.5C	25	6	150	250	175	275		
	L	L-R-SSH-0	18	5	150	250	168	268	L-R (corner on the right)
		L-R-SSH-3	25	6	150	250	175	275	
		L-R-SSH-0-1.5C	18	5	150	250	168	268	
		L-R-SSH-3-1.5C	25	6	150	250	175	275	
LS	LS-L-SSH-0	18	5	150	250	132	232	LS-L (corner on the left)	
	LS-L-SSH-3	25	6	150	250	125	225		
	LS-R-SSH-0	18	5	150	250	132	232	LS-R (corner on the right)	
	LS-R-SSH-3	25	6	150	250	125	225		

● The standard press-fit width is 0.5mm

● The surface of the steel reinforcing plate is treated with black rust-preventive coating.

Z-Shaped (60° corner portion casting)

Cast without any joint in the 60° corner portion of the sliding bed. Because of their Z shape, these seals provide a 60° angle on both the inner and outer lips.

Dimensions

Type	Product Number	W (mm)	B·T (mm)	L ₁ (mm)	L ₂ (mm)	H (mm)	Shape
Z	Z-L-SSH-0	18	5	100	100	82	Z-L
	Z-L-SSH-3	25	6	100	100	75	
	Z-R-SSH-0	18	5	100	100	82	Z-R
	Z-R-SSH-3	25	6	100	100	75	

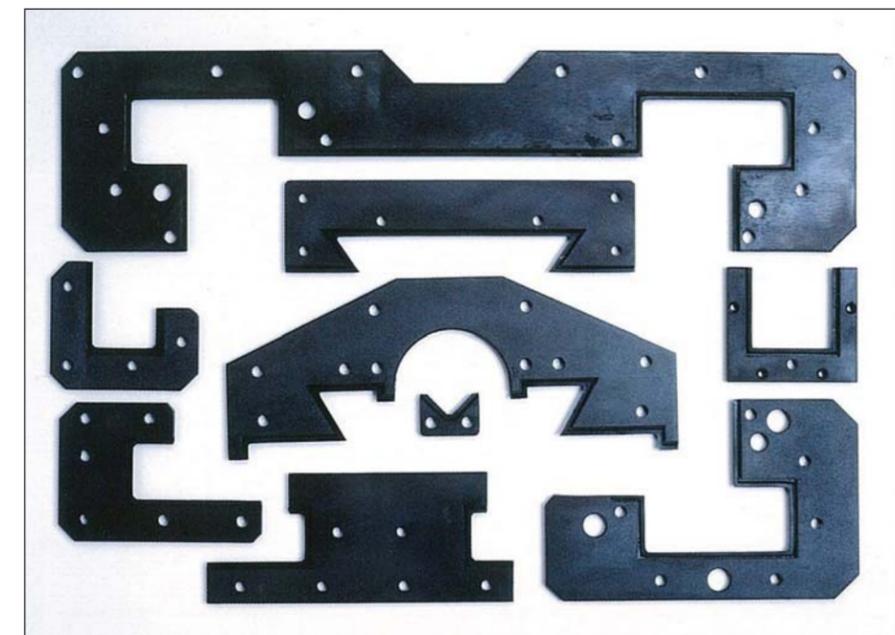
● The surface of the steel reinforcing plate is treated with black rust-preventive coating.

Cast Seals

Cast slide seals are produced to match all types of sliding beds, and their superior quality and functionality make them the ideal product for functional design.

Please contact us for information on molding GW type seals. The following are advantages of molded seals:

- The metal mold makes complicated shapes possible. Since there is no seal joint, they provide a perfect seal with the surface.
- They are much easier to attach to a machine.
- Compared to using combinations of standard materials, your inventory will be reduced.
- We can cut costs because they are manufactured in large quantities.



● For casting specifications for various types of sliding beds, please contact us.

Lip Seal

Steel Plate Wiper

Unsurpassed seal function

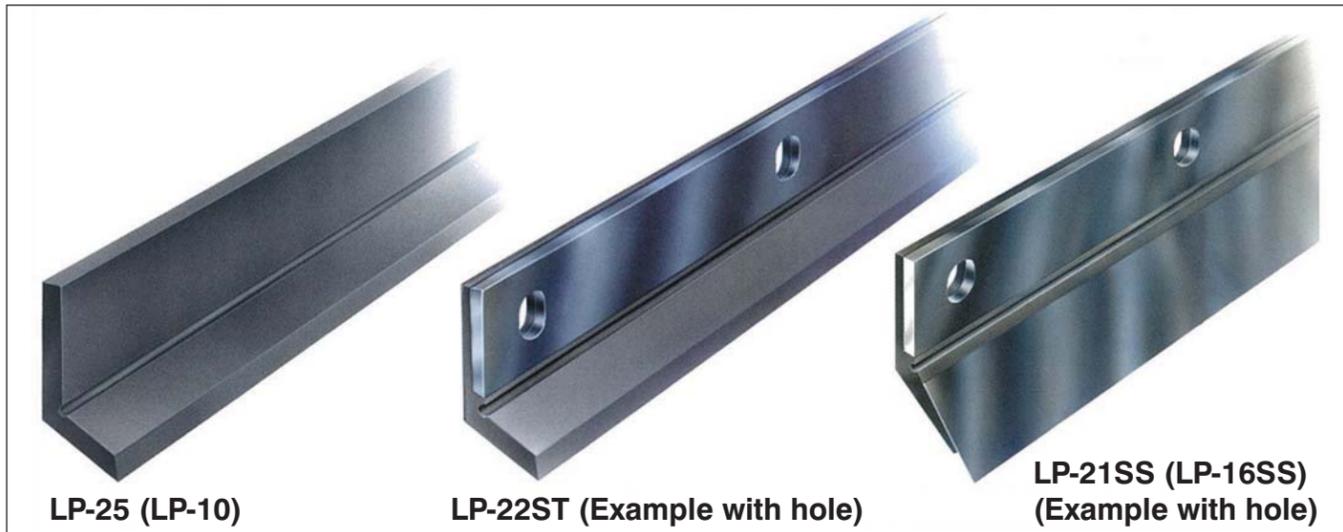
Even if the sliding bed metal plate has some curvature, these seals maintain complete contact and do not miss even the smallest shavings. Also, due to no coolant leakage, conductive or electric parts won't be damaged.

Superior resistance to oil and abrasion

These seals utilize synthetic rubber that is highly resistant to oil and abrasion. The rubber lip portion is long-lasting and maintains uniform pressure on the metal surface of the sliding bed.

Long-lasting stable seal

The rubber blade of conventional seals is cut and attached to the steel plate. It sometimes curls or does not maintain complete contact with the sliding bed, so some shavings are missed. With lip seals, this situation is improved dramatically. Due to the effectiveness of this breakthrough design, our lip seals are able to provide long-lasting, stable performance.



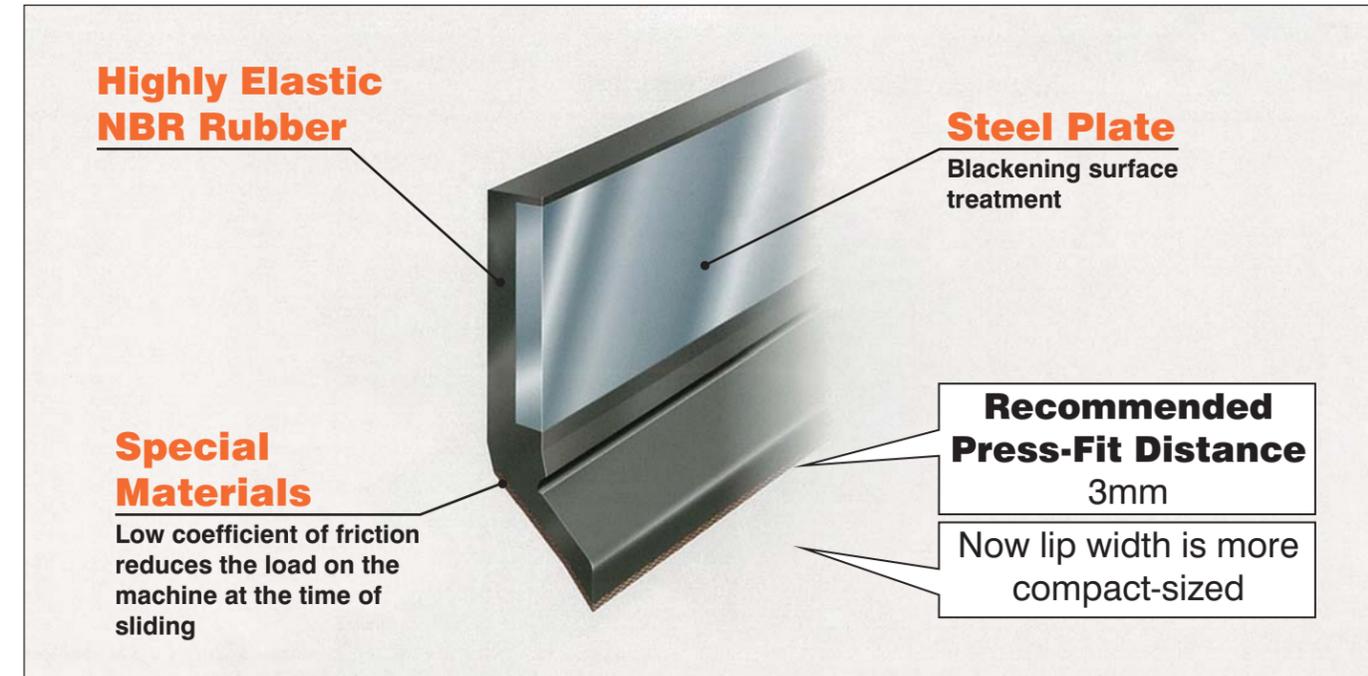
Dimensions

Type	Product Number	Overall Length (mm)*1	W (mm)	B (mm)	L (mm)	T (mm)	P (mm)	Rec. Press-fit Distance (mm)	Shape
LP	LP-10	300	12.2	3.8	8.2	2	5	1	
	LP-25	700	31.5	7.7	25	2	10	2	
	LP-22ST	600	28.5	11.3	18.5	3	13	3	
	LP-22ST-1200	1,200	28.5	11.3	18.5	3	13	3	
	LP-16SS	700	27	16.4	13.5	3	20	3	
	LP-16SS-1200	1,200	27	16.4	13.5	3	20	3	
	LP-21SS	700	32	16.4	17.5	3	20	3	
	LP-21SS-1200	1,200	32	16.4	17.5	3	20	3	

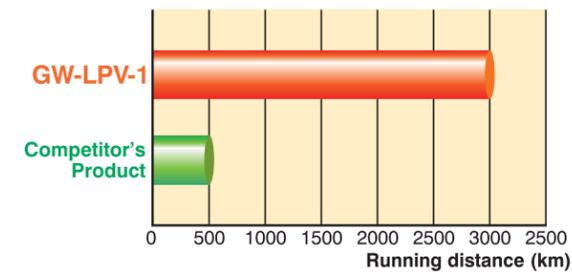
*1. The overall length is nominal.

Lip Seals for High-Speed Sliding

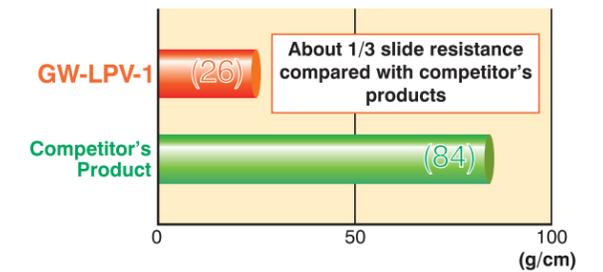
Structure & Features



High-speed running test – no lubricant (run at 70m/min.)



Slide resistance



GW-LPV1 Type Measurements

Type	Product No.	Overall Length (mm)	W (mm)	B (mm)	L (mm)	T (mm)	P (mm)	Rec. Press-fit Distance (mm)	Shape
GW	GW-LPV1	1,000	30	9.5	18	3	14.2	3	

*1. The overall length is nominal.

Telesco Seal

Easy to use with superior durability

This seal utilizes vulcanized bonding to attach highly oil-resistant synthetic rubber to the reinforcing plate, and the result is a durable, easy-to-use wiper.

A design that does not reduce machine performance

Because the reinforcing plate is made of brass, scratching of the sliding surface is eliminated, ensuring smooth operation.



Dimensions

Product No.	Overall Length (mm)*1	W (mm)	B (mm)	L (mm)	T (mm)	t ₁ (mm)	t ₂ (mm)	Rec. Press-fit Distance (mm)	Shape
SH-8	600	16	6.5	10	3	2	1.5	1.3	
SH-8-1200	1,200	16	6.5	10	3	2	1.5	1.3	
SH-10	600	21	9.3	15	5	2.3	2	1.8	
SH-11	1,500	18	10.0	10	6.1	1.6	2.3	2	
SH-12	1,100	17	8.7	10	5.7	2.3	0.7	0.5	
SH-15	600	20.5	9.0	14	5	2	2	1.8	

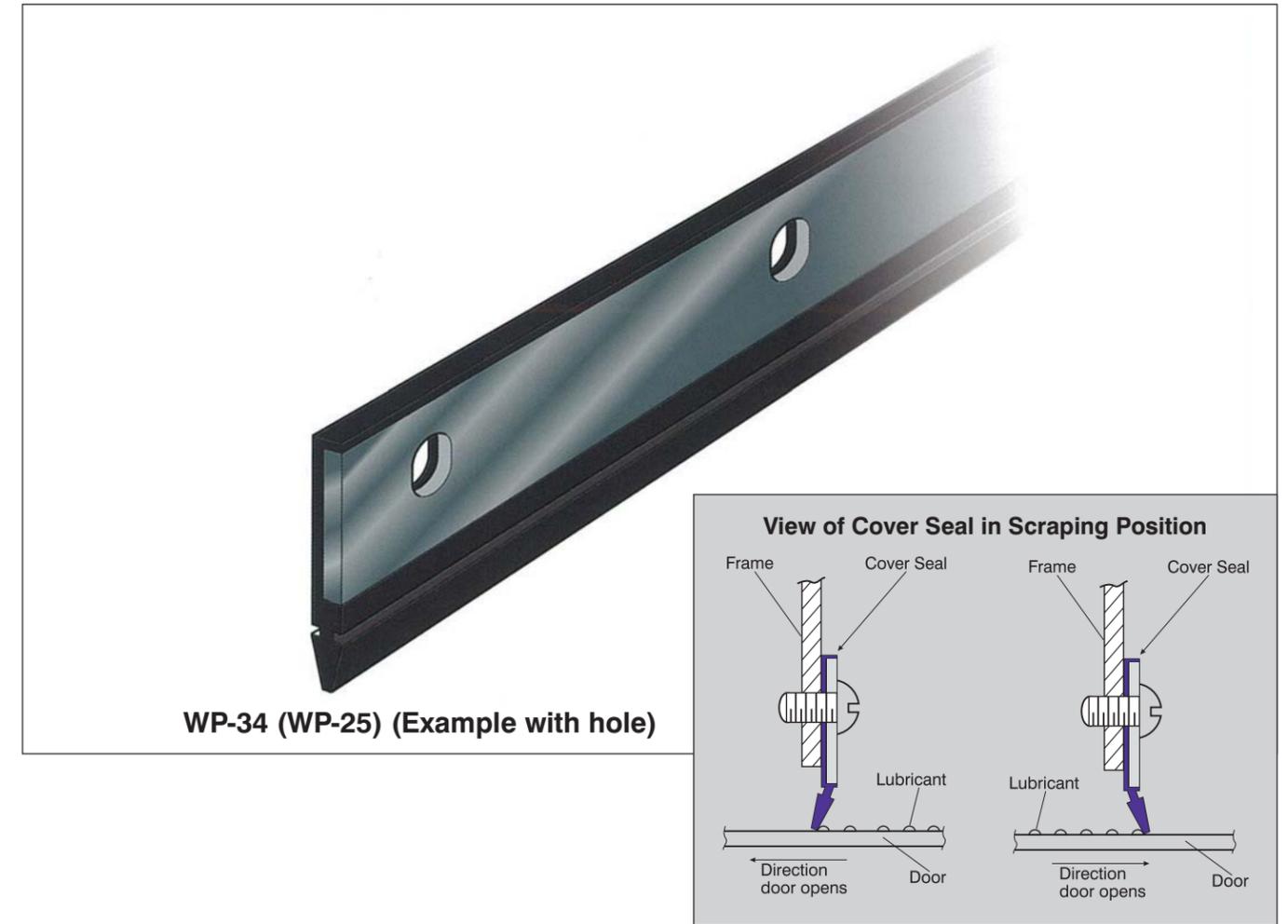
*1. The overall length is nominal.

● Please contact us for more information.

Cover Seal

Door Wiper for Opening/Closing Doors

Because machine tools operate at such high speeds, cutting lubricant and shavings are scattered to the inside of the door. This cover seal quickly and easily scrapes away the cutting lubricant and shavings attached to the inside of the door as the door is opened, preventing lubricant and shavings from getting outside the door.



Frame shape and dimensions

We have cover seals to match a variety of door shapes and sizes.

Dimensions

Product Number	Overall Length (mm)	W (mm)	B (mm)	L (mm)	T (mm)	S (mm)	Shape
WP-25-18S	600	25	2	18.5	2	5	
WP-25-18S-1200	1,200	25	2	18.5	2	5	
WP-34-20S	600	34	2	20.5	2	5	
WP-34-20S-1200	1,200	34	2	20.5	2	5	

● The surface of the steel reinforcing plate is treated with black rust-preventive coating.

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