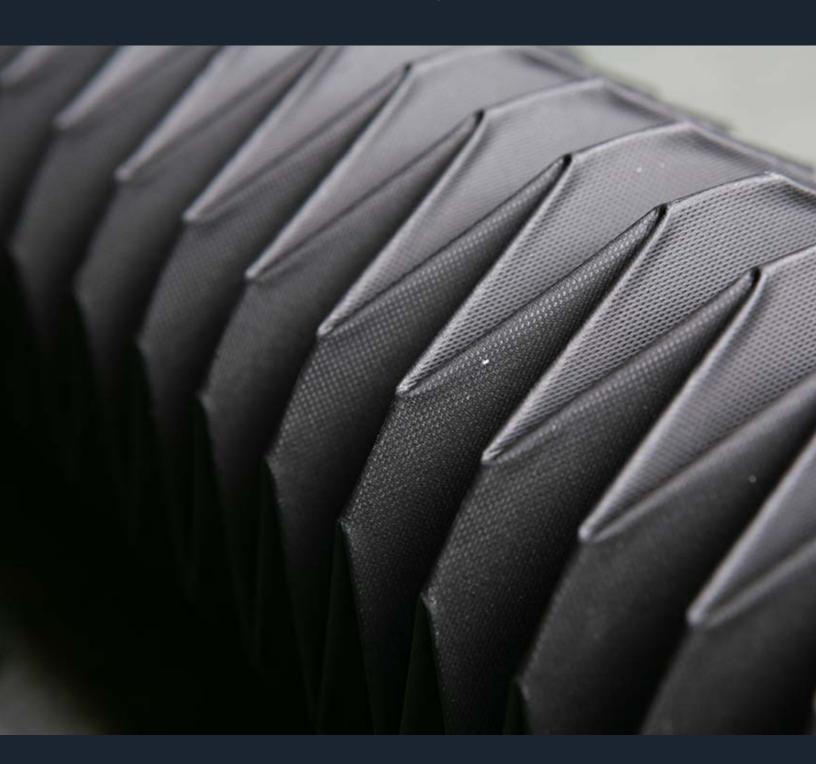
COATED FABRIC BELLOWS | STEEL-CLAD BELLOWS | RUBBER BELLOWS microFIN MODULAR BELLOWS | ROOFTOP BELLOWS





HENNIG WORLDWIDE

manufacturing / sales / service centers

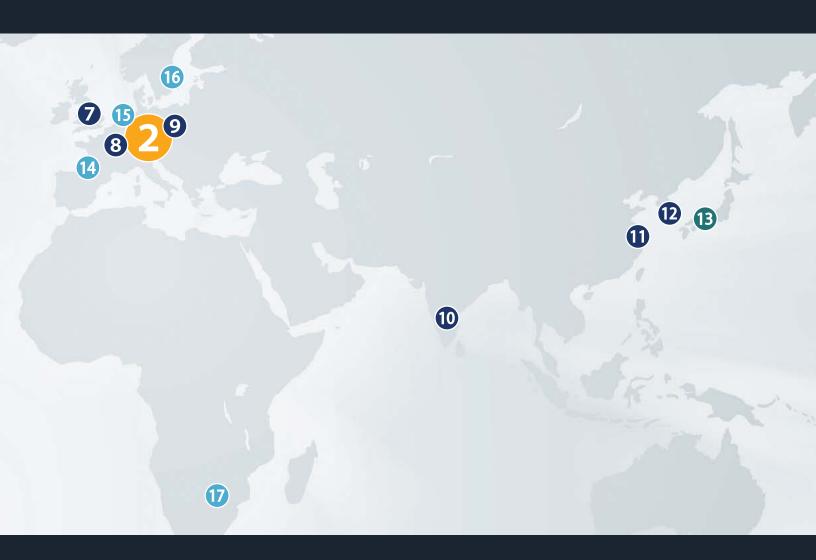


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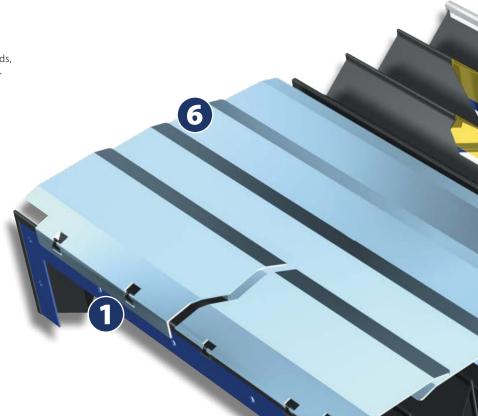
features & options

GENERAL INFO

We have designed and manufactured folded bellows for machine tools for more than 65 years. Our product range includes simple dust protection, sophisticated designs featuring extension systems and/or lamellas, as well as special designs for laser machines.

Our customers include nearly all renowned machine manufacturers. To maintain our high quality standards, all materials used are checked and developed by our own R & D departments. Hennig offers excellent productivity and security for your machine.

- Maximum functional reliability
- Tailor-made solutions
- Maximum durability
- Proven components
- Minimum service requirements
- Long-term supply of spare parts



OPTIONS

The dynamic properties of modern drives make heavy demands on all bellows. With Hennig, you can adapt every detail of the friction, extension and durability properties of your bellows to your requirements.

1 end frames

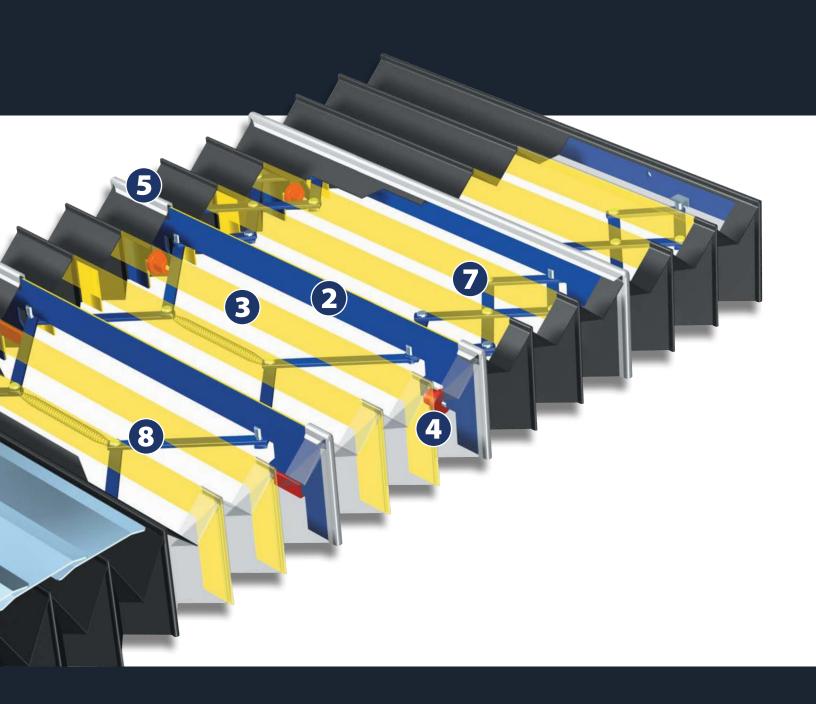
End frames, mostly made from steel or aluminum, connect the bellows with the machine. Hennig offers various fastening solutions for the adaptation to different bellows and machine interfaces.

2 intermediate frames

Intermediate steel frames are used to connect the various elements, especially when extension limit systems are required. The intermediate frames are fastened to the bellows with a clamping rail. The intermediate frames can be guided by either plastic or brass rollers or gliders.

3 quide frames

The guide frames provide the bellows with the necessary stability and enable a precise operation, even at high speeds. They are made from PVC and are directly welded to the cover. The shape of the frame is adapted by Hennig to the design required.



4 rollers

Rollers are used in large and heavy bellows. They minimize friction and ensure excellent running properties.

5 coupling rail

Necessary for medium and large bellows with a high number of folds in order to connect the single bellow elements together. Connected inside and outside.

6 lamellas

Fixed or hinged, stainless steel lamellas can be added to protect the bellows against hot, sharp-edged swarf, or mechanical strain.

7 scissors

Scissors are used for high traversing speeds. This allows an even extension of all elements across the whole extension length. As a result, the folds are less strained and the durability of the bellows is prolonged.

8 half-scissors

The advantage of half-scissors is that the individual elements can be extended successively depending on the necessary extension length. Since the folds are not loaded up to the theoretically possible extension limit, the durability is also longer.



COATED FABRIC See page 7-8 for details

Maximum compression and flexibility in a wide range of materials for a wide range of environments. Industrial coated fabric bellows are great for dust protection, laser machines, and guideways that don't see a lot of chip loads.

Coated fabric bellows can be assembled using the heat-sealed or the stitched method, and can be custom made in almost any shape including round bellows.

See page 12 for Quote Request Worksheet



HINGED STEEL LAMELLAS See page 9 for details

Do you need vertically mounted bellows? Without lamella overhang? In such a case, our bellows with hinged lamellas are the perfect solution for you.

Each lamella is flexibly fixed to the PVC frame. Therefore, the lamellas can lie down flat on the machine enclosure at the bottom.

See page 12 for Quote Request Worksheet



FIXED STEEL LAMELLAS See page 10 for details

Hennig has developed lamella bellows to meet particularly tough requirements. This type fills the gap between telescopic steel covers and conventional bellows. The lamella bellows are based on our heat sealed or stitched designs. Each fold has its own guide frame which is secured to the cover material. Lamellas made from stainless steel protect the bellows against red hot, sharp-edged swarf, or mechanical strain.

See page 12 for Quote Request Worksheet



microFIN® MODULAR See page 14 for details

Lightweight, interlocking steel fins connect modularly without requiring a folded bellow for support. Good for direct chip loads, red hot and sharp edged swarf, and high speed applications. With an extremely high compression of 2.4 mm per fin, the entire machine stroke can be significantly increased.



STITCHED BELLOWS See page 8 for details

We make bellows with round, oval or rectangular (with rounded off corners) cross-sections using a special sewing method. Support rings are used to meet special requirements and applications. Due to their robust design, these bellows have a long and reliable service life, even under extreme mechanical and dynamic strain. The temperature resistance of these bellows can be increased to approx. 400 °C (752 °F) when using an aluminized fabric.

See page 12 for Quote Request Worksheet



MOULDED RUBBER / RUBBER DISK See page 13 for details

Rubber bellows offer maximum protection against water, oil, chemicals, and high temperatures. Primarily used for protecting lead screws, shafts, and moving air cylinders, but can be custom molded to any shape for your application.

See page 15-16 for Quote Request Worksheets



ROOF TOP BELLOWS See page 17-18 for details

A bellows system designed as a "ceiling" for your machining center. Use this system to protect your machine from dust and other light contaminants that cannot otherwise be protected against with your standard machine enclosure.

Designed with double fold units for increased stroke, these bellows can be manufactured to your requirements.

We plan the guidance of the bellows roofing according to your circumstances - either by using existing guide systems, or designing a new guide system that fits your specifications.

ASSEMBLY OPTIONS



high frequency welded

The optimum design for bellows is the heat-sealed version. The cover material and PVC guide frames are permanently joined. The connection of the bellows material and the guide frames ensures maximum loading capacity and absolute tightness against liquids such as cooling or grinding agents.



stitched

Due to their robust design, these bellows have a long and reliable service life, even under extreme mechanical and dynamic strain. The temperature resistance of these bellows can be increased to approx. 400 °C (752 °F) when using an aluminized fabric.

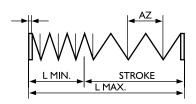


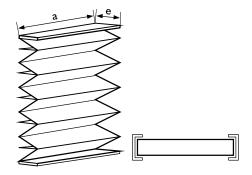
glued

These bellows consist of up to three foils glued together in sandwich construction. Due to the special gluing of materials, these bellows provide maximum protection, even against liquids.

coated fabric bellows

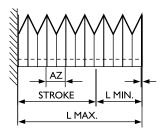
FLAT BELLOW

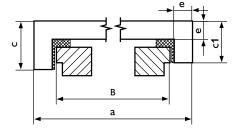




FLAT BELLOW							
FOLD HEIGHT (e)	EXTENSIONS PER FOLD (AZ)						
15	14						
17	18						
20	24						
24	32						
30	44						
35	54						
40	64						
45	74						
All dimensions in mm							

FOLDED BELLOW





FOLDED BELLOW						
FOLD HEIGHT (e)	EXTENSIONS PER FOLD (AZ)					
15	18					
17	22					
20	28					
24	36					
30	48					
35	58					
40	68					
45	78					
All dimensions in mm						

See page 11 for table of materials & properties See page 12 for Quote Request Worksheet

STANDARD MOUNTING OPTIONS



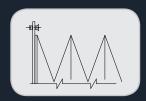
half fold

Limits extension of first fold for inside mounting



full fold

Allows for full extension of first fold for inside mounting



external flange

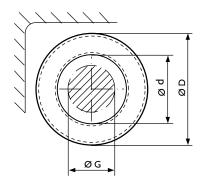
Allows for full extension of first fold with outside mounting above bellows.

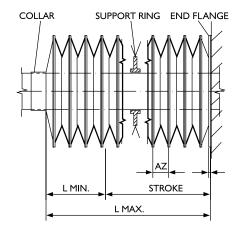


velcro

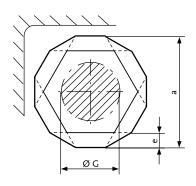
Supplied with adhesive backed velcro fastener for simple & quick inspection of machine components (dry applications).

STITCHED ASSEMBLY

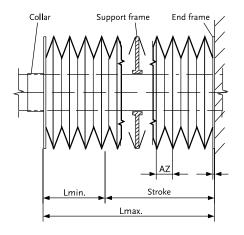




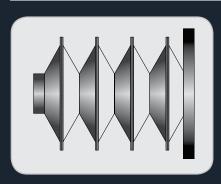
GLUED ASSEMBLY



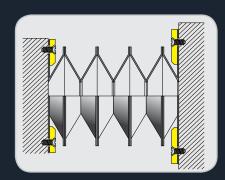
See page 11 for table of materials & properties See page 12 for Quote Request Worksheet



STANDARD MOUNTING OPTIONS



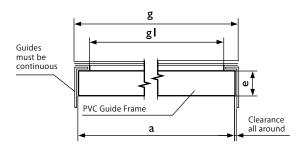
collar (Type 1, Type 2) Different fixing devices are possible on either side.



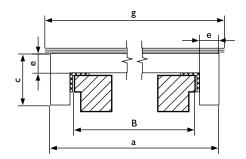
flange
Different fixing devices are possible on pithor side

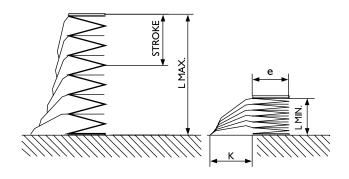
hinged steel lamella bellows

FLAT BELLOW



FOLDED BELLOW





STROKE K K

See page 11 for table of materials & properties See page 12 for Quote Request Worksheet

STANDARD MOUNTING OPTIONS



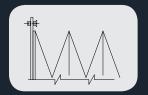
half fold

Limits extension of first fold for inside mounting



full fold

Allows for full extension of first fold for inside mounting

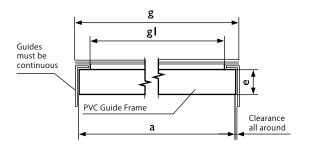


external flange

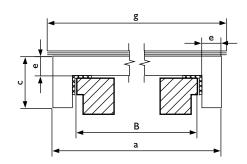
Allows for full extension of first fold with outside mounting above bellows.

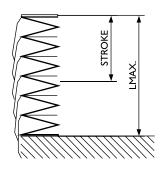
FOLD HEIGHT (e)	EXTENSIONS Flat	PER FOLD (AZ) Folded	WIDTH OF LAMELLAS (K)					
24	30	36	67					
30	42	48	82					
35	52	58	87					
40	62	68	97					
45	72	72	107					

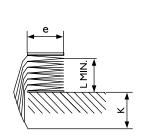
FLAT BELLOW

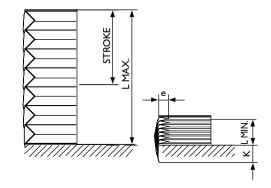


FOLDED BELLOW









See page 11 for table of materials & properties See page 12 for Quote Request Worksheet

STANDARD MOUNTING OPTIONS



full fold

Allows for full extension of first fold for inside mounting



external flange

Allows for full extension of first fold with outside mounting above bellows.

FOLD HEIGHT (e)	EXTENSIONS Flat	PER FOLD (AZ) Folded	WIDTH OF LAMELLAS (K)					
24	27	33	61					
30	39	45	76					
35	49	55	81					
40	59	65	91					
45	69	75	101					

materials & shapes (coated fabric)

The covers of HENNIG folded bellows are exclusively made from high-quality plastic fabrics and foils. We select the cover material and processing according to the design ambient conditions. Decisive factors are the mechanical and thermal strain of the bellows as well as the type of swarf and aggressiveness of the agents used. Exact details of the used materials may be gathered from the table of materials.

	Secrification Number 1:0n	EVIEW	Inter.	Osting Garies	Thickney	55 (mm) Co/o _r	**	* 502 Sea.	stitched	* came/2	Round Stit	Resistant to West	Surface of Colors	Resistant delity, Welstant delity	Jens Joseph Jes	restinguishi	Pation Services of the Composition of the Compositi	
SP 122	OZ-PUR	PUR	PUR	Polyester	0.35	Black	х	х	Х		+	+	++	+	0	-	+	
SP 268	OZ-PUR	PUR	PUR	Polyester	0.22	Blk/Grey	Х	Х			+	+	0	0	0	-	++	
SP 271	PUR-Kevlar®	PUR	PUR	Kevlar®	0.36	Blk/Grey	Х	Х	Х	х	++	++	++	+	+	+	+	
SP205	OZ-23	PVC	PVC	Polyester	0.23	Black	Х	Х			+	+	0	-	-	-	++	
SP206	OZ-35	PVC	PVC	Polyester	0.36	Black	Х	Х	Х		+	+	+	0	0	-	+	
SP208	Alum-Aramid	ALU	ALU	Nomex®	0.35	Silver	Х	Х		х	+	+	+	++	++	+	+	
SP270	PUR/Teflon	PTFE	PUR	Polyester	0.30	Black	Х	Х	Х		++	++	++	0	0	-	+	
	Neoprene	NEP	NEP	Nylon	0.40	Black	х	Х	х	х	++	++	++	++	0	-	0	
	Hypalon	HYP	HYP	Nylon	0.40	Black	Х	Х	Х	х	+	+	+	0	0	-	0	
SP106	GN807	PUR	PUR	Polyester	1.00	Black	Х	Х	-	х	+	+	-	-	0	-	-	
SP130	NA-784	TPU	TPU	Polyester	1.00	White	х	х	х	Х	+	+	-	-	0	-	-	

*assembly options

COMMONLY USED MATERIALS

polyurethane (pur)

Temperature resistance up to 120°C

aluminized

Aluminum-coated Nomex®. Temperature resistance up to 400°C (only for stitched version)

nomex®

Flame-resistant material, suitable for laser applications

kevlar®

High strength, abrasion resistant, puncture resistant

polyvinylchloride (pvc)

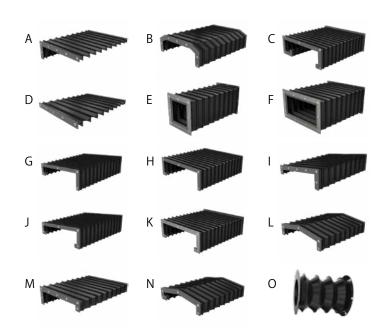
Material does not continue burning if ignited (self-extinguishing)

teflon® polytetraflourethylen (ptfe)

Anti-adhesive, high-chemical and thermal resilience, dirt and water-repelling, corrosion-proof

COMMON SHAPES

All shapes can be customized to suit your application



COATED FABRIC BELLOWS QUOTE REQUEST



Please complete this form and email or fax to your desired location (see pages 1-2 for contact info)

			Name												
			Title												
		E-mail													
			Phone		Fax	.					_ D	ate .	/		/_
2	TECHNICAL DATA		MATERIAL OF E							ſ					
S	Required stroke		☐ Steel ☐ Sta	ainless St	eel										
L	Compressed length (min)		☐ Aluminum	☐ PVC											
L	Extended length (max)											г			
e	Fold height		MOUNTING OP			C-11								1	
a	Width of bellows		☐ Half Fold ☐				ar								
C ₁	Left-hand lateral height (outside)		☐ External Flang	ge 🗌 \	/elcro							5			
C ₂	Right-hand lateral height (outside)		MODE OF OPER	ATION									_	1	
h	Height of bellows above support		☐ Horizontal		al									ä	
I	Lower wrap-around				uı										
V	Travel speed	m/min	☐ Cross-rail ☐	Jotner											
a	Acceleration	m/s ²	CONDITIONS O	F APPLI	CATIO	N						L			
В	Width of slideway		☐ Chips	☐ Sp	oarks										
g	Length of lamellas		☐ Coolant	□ 0	il										
d	Inner diameter of bellows		☐ Dust	□ In								F			
D	Outside diameter of bellows			_											
	Type of machine		☐ Temperature	□ 0	utdoo	r						6			
	Axis	X Y Z	SHAPE											1	
	Number of strokes per day		Select one							→		<u> </u>		₫	
	Coolant, lubricants		- or -									G			
	Type of swarf		Use page 11 and	write the	e corre	espoi	ndir	ng le	etter	.		7			
	Ambient temperature Linear type of slideway		here									Г		1	
	Linear type of slideway										- 7				
	Photos Available ☐ Yes ☐ No											Ь			
	DWGs or Sketches Available Yes	□No													
	by as of sketches / wallaste _ res														
)	
												_			

moulded rubber

RUBBER DISK BELLOWS

Our rubber disk bellows are of high grade and always the best choice for industrial purposes. This bellow can be made without a mold cost and are an economical solution for lower quantities. Rubber disk bellows have a good extension/compression ratio, and the variety of standard and custom shapes and mounting options make it ideal for special applications.

See page 15 for Quote Request Worksheet



MOULDED RUBBER BELLOWS

Moulded bellows are primarily used for protecting lead screws, precisions shafts, moving air cylinders, various round shafts and irregular-shaped parts. Its outstanding features include resistance to water, oil, temperature and chemicals. Various bellow shapes and mounting options are available, including custom setups for special applications.

See page 16 for Quote Request Worksheet



 $Special\ shapes\ and\ mounting\ devices/combinations\ available\ upon\ request.$

TABLE OF MATERIALS

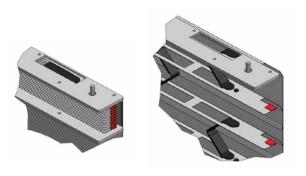
NO.	Material Type	THERMAL PROPERTIES °C	HARDNESS RANGE SHORE A	MATERIAL RESISTANCE TO				
01	NBR	-30 °C +110 °C	40 75	Gasoline, Mineral Oil				
02	FPM	-20 °C +200 °C	40 75	Gasoline, Mineral Oil, Acids, Lyes, Water, Weathering & Ozone, Air Impermeability				
03	CR	-35 °C +100 °C	40 75	Weathering and Ozone				
04	EPDM	-50 °C +130 °C	40 75	Acids, Lyes, Water, Weathering and Ozone				
05	VMQ	-65 °C +200 °C	40 75	Weathering and Ozone, Steam				
	Survey of main elastomers. Further types on request.							

microFIN® MODULAR BELLOWS

- Stainless steel fins
- Excellent durability with high resistance to water, oil and dust
- Low noise and long durability life
- Cover shapes, dimensions, mounting types, moving speeds can be made according to your requirements

exceptional compression ratio

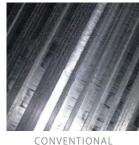
With its new designed geometry, microFIN feather elements interlock with the bellow elements. This enables the whole construction to achieve a compression of 2.4 mm per lamella. In comparison to regular bellows which have a relatively low compression rate, the whole machine stroke can be greatly increased.



anti-scratch coating

With its unique coating at the bottom of each fin (lamella), scratching is prevented and the lifetime of the cover is Increased significant (up to 70%). Additionally it increases the tightness against coolants and chips.*

*available for lamellas up to 1000 mm in width

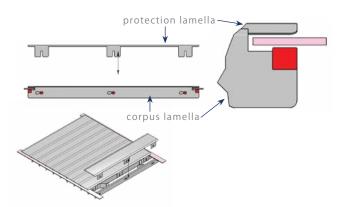




ENTIONAL microF

modular construction

Each lamella is removable from the bellow system without disassembly of the whole cover system. This is achieved by a plug connection between corpus lamella and protection lamella. Damaged lamellas can be removed easily and economically.



sealing fabric option

Due to its modular construction, additional fabric can be added to the cover system. As a result, the cover gets 100% sealing against coolants without compromising the compression ratio.



RUBBER DISK BELLOWS QUOTE REQUEST

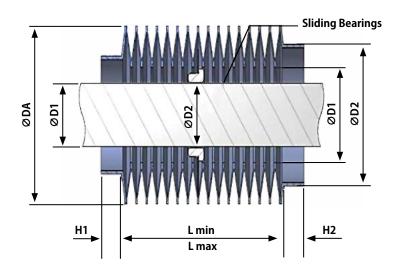


☐ Type D

Please complete this form and email or fax to your desired location (see pages 1-2 for contact info)

	Name					
	Title					
	E-mail					
	Phone	F	ax	Date//		
2 APPLICATION						
Quantity	Exposed To	Inside	Outside	Permanently	Sporadically	
Working Position 🔲 Horizontal 🔲 Vertical	☐ Water	\circ	\circ	\circ	\circ	
Use of Bellow ☐ Outside ☐ Inside	☐ Dust	\circ	\circ	\circ	\circ	
Temperature Range	☐ Oil/Grease	\circ	\circ	\circ	\circ	
Work Cycles / min	☐ Acid	\circ	\circ	\circ	\circ	
Max Speed (m/min)	☐ Leaches	\circ	\circ	\circ	\circ	
Norking Hours / Day	☐ Other	\circ	\circ	\circ	\circ	
Sliding Bearings						
3 DIMENSIONS	4 N	10UN1	TING C	PTIONS		
d		Type A		□т	уре В	
L (max) ØDA	-	Type A	_		ype p	
L (min) ØDA1						
H1 ØD1						
מח						

☐ Type C



MOULDED RUBBER BELLOWS QUOTE REQUEST

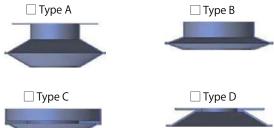


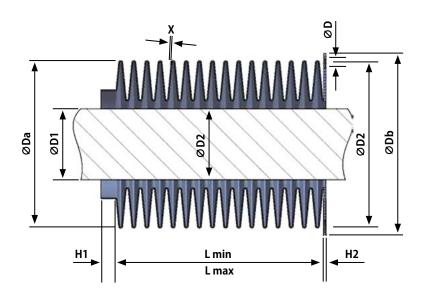
Please complete this form and email or fax to your desired location (see pages 1-2 for contact info)

www.hennigworldwide.com

	Name								
	Title								
	E-mail								
	Phone	Phone Fax			ate//				
2 APPLICATION									
Quantity	Exposed To	Inside	Outside	Permanently	Sporadically				
Material (see page 13)	☐ Water	\circ	\circ	\circ	\circ				
Working Position	☐ Dust	\circ	\circ	0	0				
Use of Bellow ☐ Outside ☐ Inside	☐ Oil/Grease	\circ	\circ	\circ	0				
Temperature Range ————————————————————————————————————	☐ Acid	\circ	\circ	0	0				
Max Speed (m/min) ————————————————————————————————————	Leaches	\circ	\circ	0	\circ				
	☐ Other	0	\circ	0	0				
3 DIMENSIONS	4 N	IOUNT	TING C	PTIONS					
Stem (shaft) Diameter mm									

Stem (shaft) Diameter			mm
L (max)	mm	ØDa	mm
L (min)	mm	ØDb	mm
Χ	mm	ØD1	mm
H1	mm	ØD2	mm
H2	mm	ØDi	mm





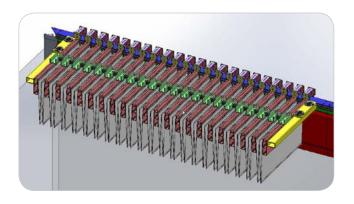
roof top bellows

ADVANTAGES

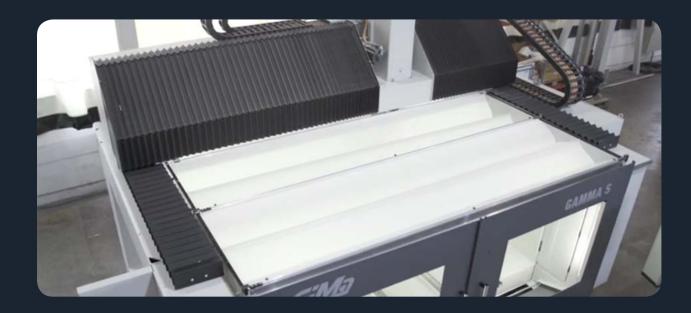
- Carbon fiber processing (aerospace)
- Noise protection
- Sound insulation
- Environment protection
- Health protection

TECHNICAL DETAILS

- Width up to max. 8000 mm
- L max if necessary up to max. 24.000 mm
- Standard fold depth 125 (max. 300 mm if necessary)
- Speed up to 90 m/min.
- Acceleration up to max. 1g
- Transverse beams made of aluminum hollow profile
- White, translucent fold material provides an optimum brightness in the working area
- Slide way systems depending on requirements (rollers, gliders, slide ways)
- Motorized version for opening and closing (conforms with the EC machine directives)

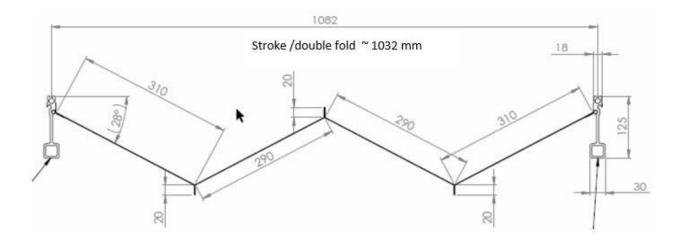






DESIGNED TO YOUR SPECIFICATIONS

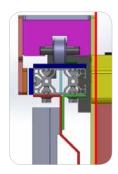
Engineered with a double fold unit for increased stroke, our roof protect systems can be manufactured to any dimensions to suit your application.

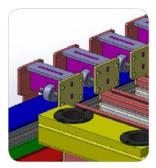


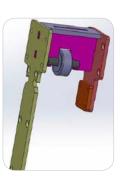
SLIDEWAYS

We plan the folded bellow roof specifically according to your requirements.

The implementation of the roof protect system can be done with the existing slide way or with a new slide way.









SERVICE & REPAIR

scope of services

WE KNOW HOW EXPENSIVE DOWNTIME CAN BE

That's why we offer quick, responsive, service for the following products:

- Telescopic Steel Covers (see next page for details)
- Bellow Covers
- Aprons & Roll Ups
- Modular Face Shield Systems
- Wiper Systems
- Walk-On Pit Covers

We provide repairs and replacement parts for all the products we sell. With our experienced technicians, it doesn't matter who manufactured the original product, the end result absolutely must meet Hennig standards for quality and safety before we will consider it finished.

OUR SCOPE OF SERVICES:

- Preventative and Predictive Maintenance Training
- Way cover diagnostics and troubleshooting
- Extensive replacement spare parts inventory
- On-Site repairs of waycovers of any make on the market
- Logistics services for minimum downtime

SERVICE & REPAIR CENTERS WORLDWIDE

We have 17 service centers located throughout the world, enabling us to provide fast, localized service no matter where you are. Below is a snapshot of our service & repair locations.

For more details and contact info, see pages 1-2.



SERVICE & REPAIR

for telescopic steel covers

REPAIR & REFURBISHING SERVICES

At Hennig we service everything we sell.
Our repair and refurbishment facilities are located in regions worldwide, so you get fast, localized service from experts who speak your language and deeply understand the systems you're using. We have the resources to keep your systems running - and running right - so you minimize downtime and get the greatest possible return from your machine investment.

services offered

- Repairs for all Hennig and non-Hennig way covers
- Same-day turn-around on diagnosis and repair estimates
- Reverse engineering of existing way covers
- Fast, local access to spare parts and supplies
- Customer training for in-house way cover repair
- Service and repair of Hennig Chip Conveyors
- Preventive maintenance service contracts available
- Service initiated within 48 hours in most locations
- On-site services available
- 90-day warranty on parts and labor

service. where you need it.

Hennig has way cover repair facilities located throughout the world to better serve our customers.

See pages 1-2 for a complete list of our repair facilities and contact information.







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For over 50 years, Hennig Worldwide has been defining Excellence in Machine Protection, creating regional jobs, serving their local communities, and supporting the global needs of machine tool customers.

Specializing in chip management, machine protection, and facility safety, Hennig products optimize production and keep your shop floor clean and safe.

MACHINE PROTECTION

Telescopic Steel Covers

Modular Face Shields (XYZ Shields)

Bellows

Aprons

Roll Up Covers

Walk-On/Pit Covers

Wiper Systems

Telescopic Springs

Cable Conduits

CHIP SOLUTIONS

Chip Conveyors

Chip Disc Filtration (CDF)

Coolant Tanks

Turnkey Chip Systems

Conveyor Networks

FACILITY SAFETY

Walk-On Pit Covers

Scissor Lift Bellows

Rooftop Systems

Platforms and Enclosures

Guarding and Fencing

Special Fabrications

See pages 1-2 for contact information