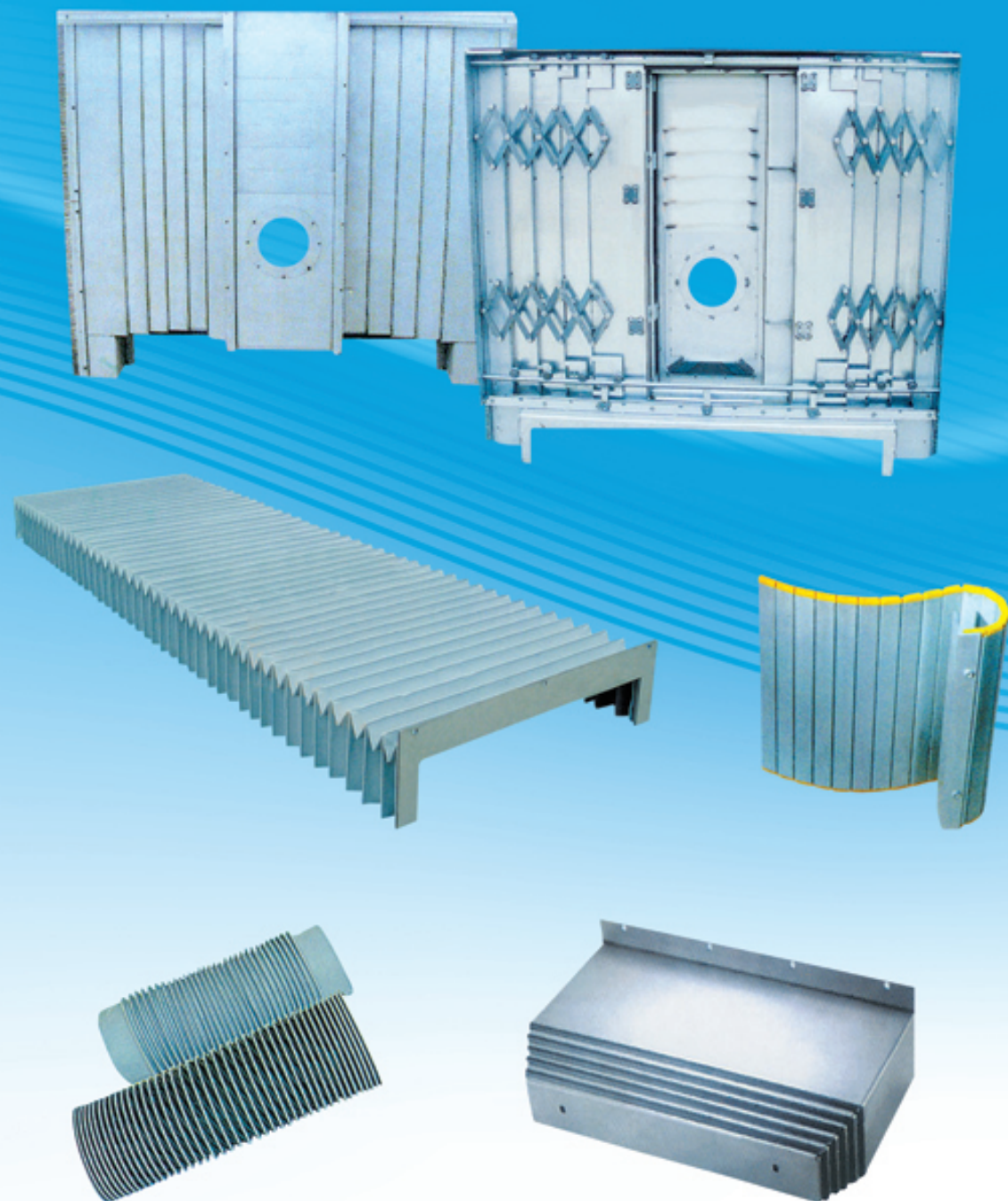




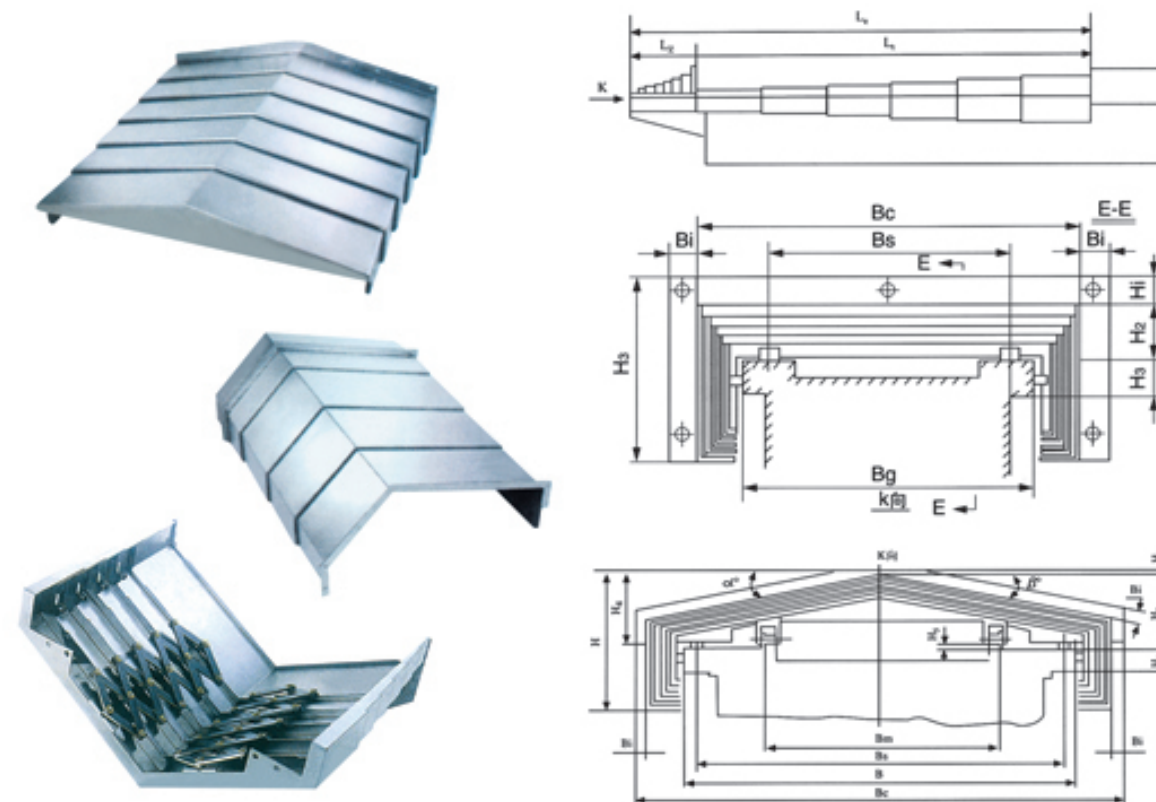
防护罩系列产品

The eries productsof machine tool guide hold shield



钢板、不锈钢板机床导轨防护罩

Steel plate, stainless steel plate machine tool guideway cover



代 号	名 称	数据 mm	备 注	代 号	名 称	数据 mm	备 注
Le	拉伸后长度			Bs	滚轮支承宽度		
Lz	压缩后长度			Bm	滑块支承宽度		
Lt	最大行程			α° 、 β°	弓型倾角		
B	导轨宽度			n	预计节数		
Bc	防护罩总宽			δ	钢板厚度		用户预选
H	防护罩总高				安装孔		按用户要求
H ₁	导轨侧面高度			钢板材料	1Gr13	2Gr13	用户选定
H ₂	导轨上护罩高度			支撑形式	滚轮	滑块	用户选定
H ₃	安装位置高度			配套机床型号			
H ₄	安装板高度			订货单位			
H ₅	滚轮高度			联系人		电话	

注：1、用户订货时只要填明上数据、选定材料，我厂代为设计、制造。

2、如用户对护罩型式有特殊要求，我厂可与用户协调设计，满足要求。

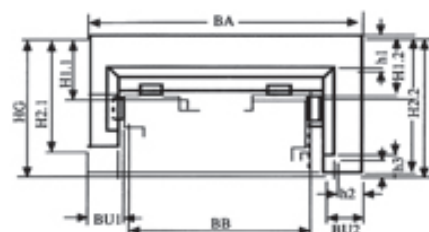
3、每种防护罩填写一张。如样本不够，可复印填写。



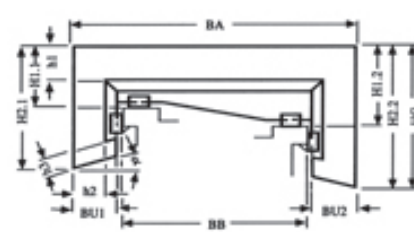
多用形式钢板 不锈钢防护罩

Multi-purpose form steel stainless steel shield

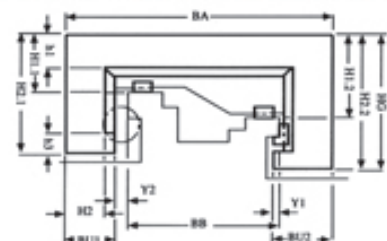
形式1



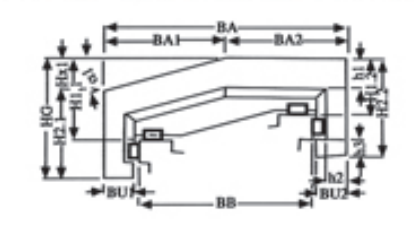
形式6



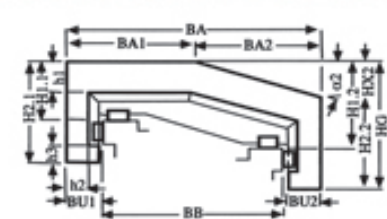
形式2



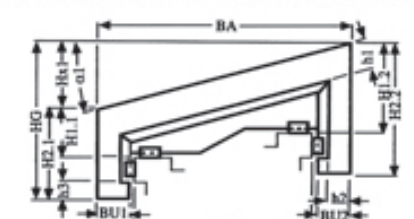
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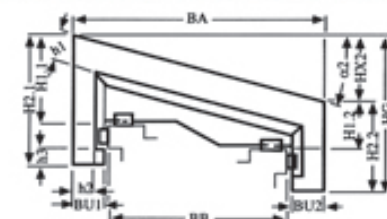
形式3



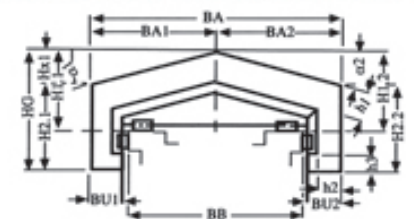
形式8



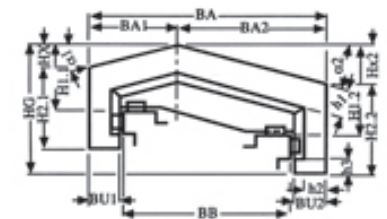
形式4



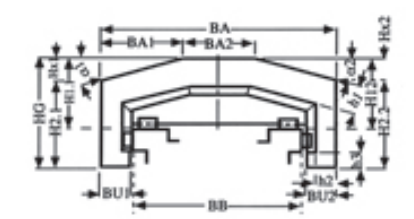
形式9



形式5

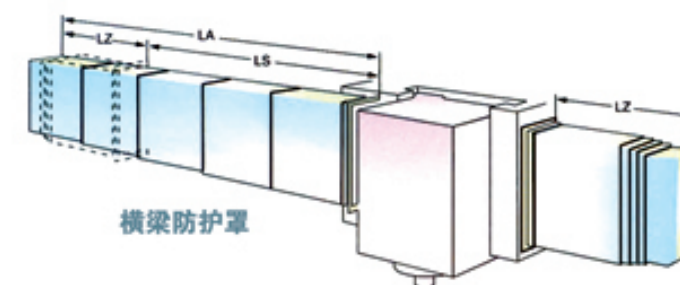


形式10

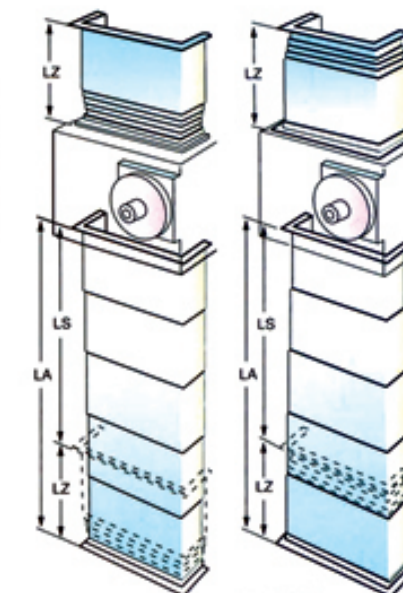


钢板、不锈钢板横梁立柱护罩设计图

Steel plate, stainless steel plate beam column cover design



横梁防护罩

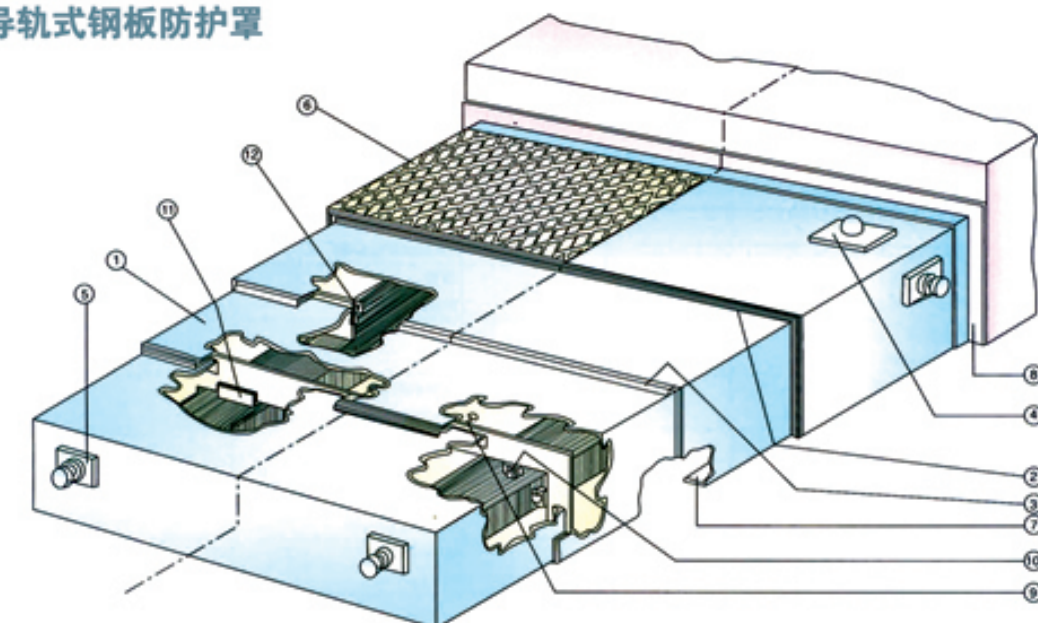


立柱防护罩

伸缩盖的外形根据机器的整体尺寸、工作条件、关系到数据和冷冻液及独特的外表, 它和整个机器的图像相和谐。

The appearance of the expansion cover is dependent on the over all demensions of the machine, working conditions and the coolant ligvid. It should be in tane with the whole machine unit.

导轨式钢板防护罩



1. 钢板式不锈钢板制做外护板

2. 抗磨胶条

3. 胶条防护板

4. 检查窗

5. 吊装把手

6. 防滑板

7. 防护罩下弯

8. 按装紧固板

9. 缓冲垫

10. 滚轮

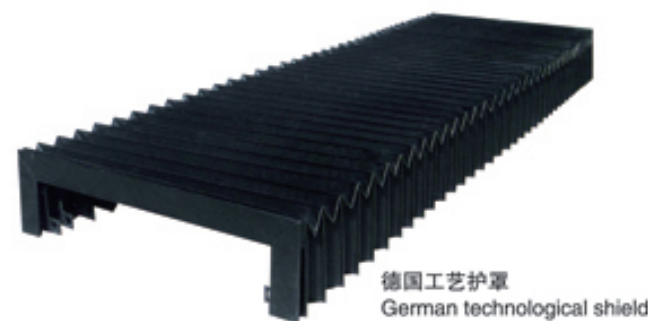
11. 耐磨滑块

12. 冷却剂排出槽

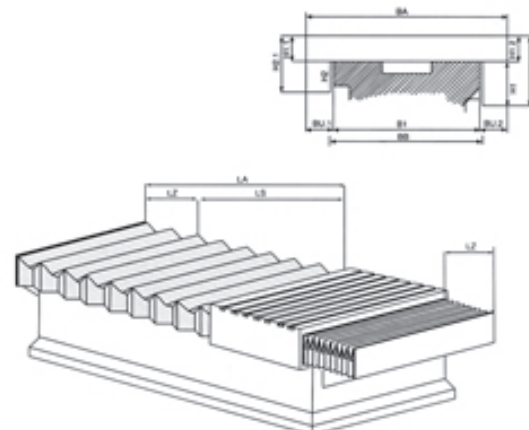


柔性风琴式导轨防护罩

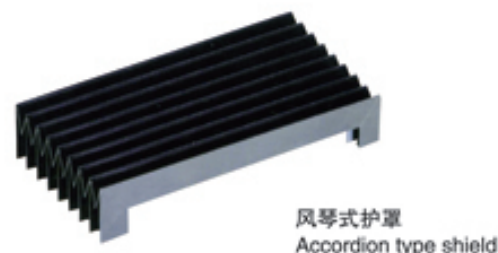
Flexible Accordion Type Guide Shields



德国工艺护罩
German technological shield



立柱带不锈钢片护罩
Shield with S.S. sheet cover



风琴式护罩
Accordion type shield

柔性风琴式导轨防护罩设计参数

Design parameters for flexible accordion guide shield

代号 code	名称 Description	数据 Data	备注 Remarks	护罩结构材料 Shield coustruction materials	
L	拉伸后长度 Length after drawing			面料 Plus material	尼龙革或三防布 Nylon cloth or protective cloth
L ₁	压缩后长度 Length after compression			支撑 Support	PVC片材(每格一片) PVC sheet
L ₂	行程长度 Travel length			连接板 Connecting plate	树脂板、铁板 Resin plate, iron plate
B	防护罩总宽 Total width of the shield			滑轮 Pulley	铜或尼龙轴承 Copper or nylon bearing
B ₁	导轨宽度 Guide width				
B ₂	护罩内部宽度 Interior width of the shield			配套机床型号 Machine tool model number	
H	护罩总高度 Total height of the shield			订货单位 By purchase order	
H ₁	导轨高度 Guide height of the guide			联系人 Contact person	
H ₂	护罩内部高度 Interior width of the shield			联系电话 Contact tel	

注：1、用户订货时只要填明以上数据，选定材料，我公司代为设计制造。
2、如用户对护罩型式有特殊要求，我公司可与用户协商设计，满足要求。
3、每种防护罩填写一张。如样本不够，可复印填写。

Note:1、The enduser select the materials and data mentioned above when place an order and we will make the design and fabrication.
2、If endusers have special requirements,please let us know and we can achieve for them.
3、Please fill in a form per type of shield.

多用型风琴式护罩

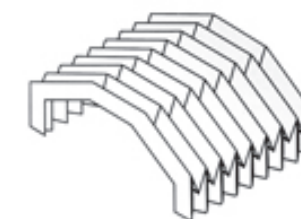
Multipurpose Accordion Type shield

多用型护罩主要部分的可行形状

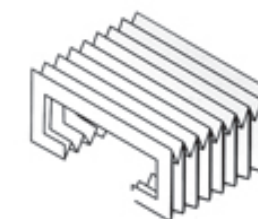
以下是多用型护罩，他们可以应用在任何机器工具上，幸亏了他们能变化多端的形状和占用有限的空间供设计选用。

Possible shapes for main parts of multi-purpose shield

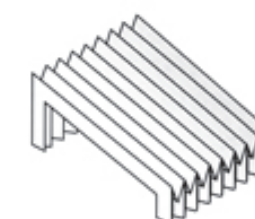
The following is the multi-purpose shields that can be used for any types of machine or tools thanks to their various shapes and space-saving design.



T1



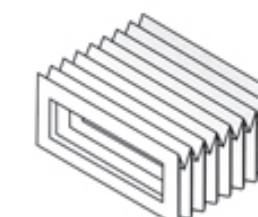
T2



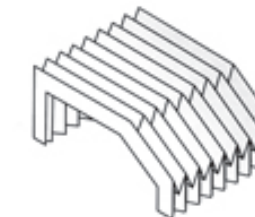
T3



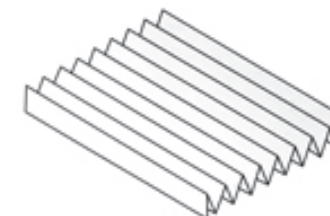
T4



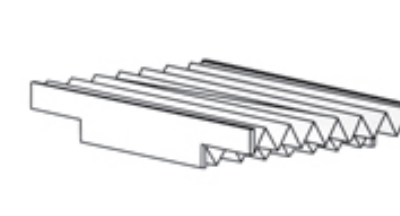
T5



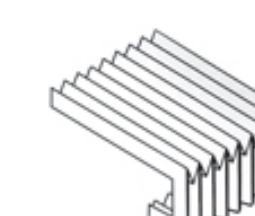
T6



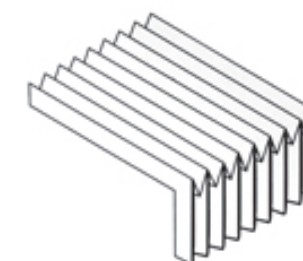
T7



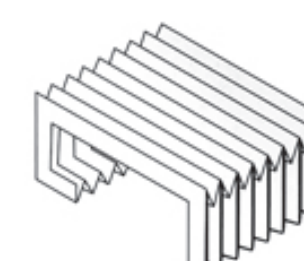
T8



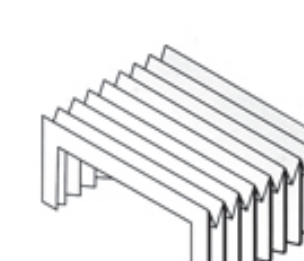
T9



T10



T11



T12

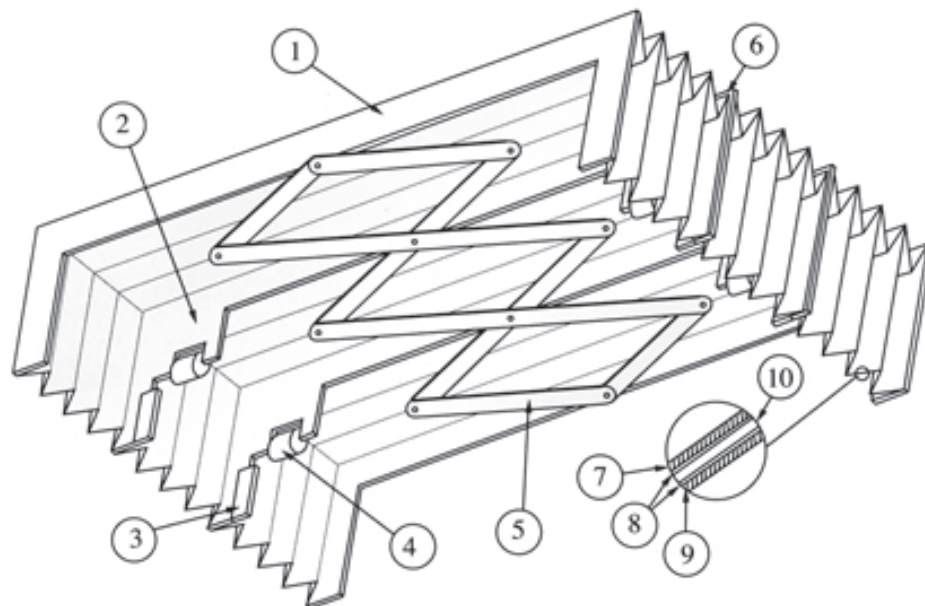


风琴护罩技术特征

Technical Features of Accordion Type Shield

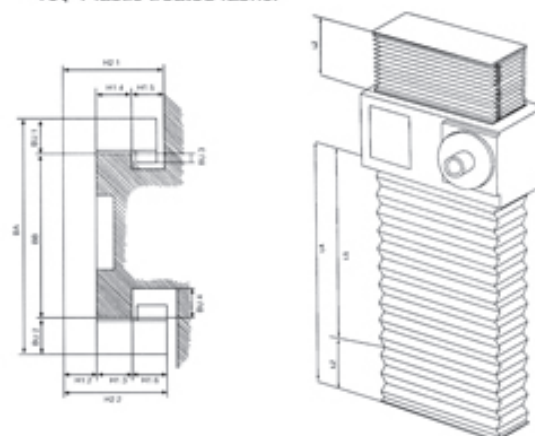
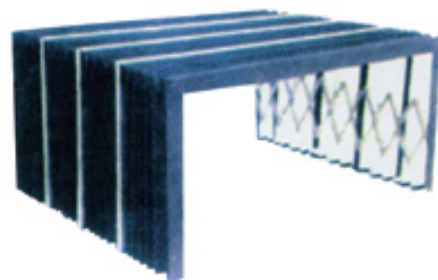
标准护罩使用在机床高立柱和大型机床长导轨上, 结构合理, 行走均匀, 坚固耐用。

The standard shield has been used for the high column of the machine tools and for the long guide of heavy-duty machine tools, which is designed in rational construction, for uniform traveling and is durable.



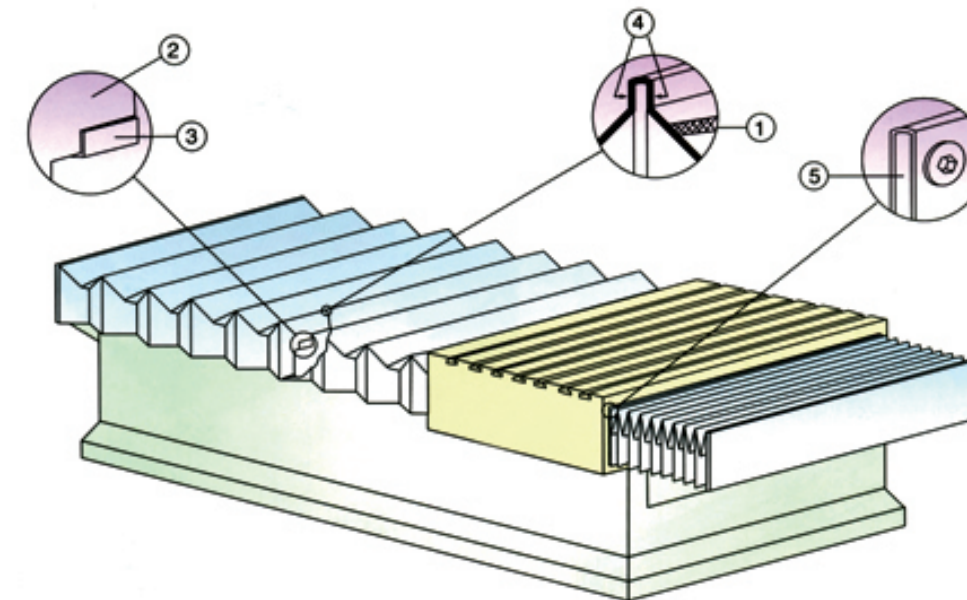
- 1、边缘的侧连接板
- 2、连接板中间支撑架
- 3、铜或尼绒滑片
- 4、尼绒轴和铜轴
- 5、拉筋和弹簧片 (最高速度120m/分)
- 6、侧面浮雕、铝铜材料的侧面支架, 能安全地支撑护罩
- 7、尼龙革
- 8、防御聚亚安脂粘剂的油和乳状液
- 9、坚硬的聚氯乙烯薄片
- 10、塑胶布

- 1、Fastening flanges.
- 2、P01 Steel intermediate supports.
- 3、Brass or nylon guide shoes.
- 4、Nylon supporting rollers.
- 5、Rods and snatch spring pantograph(max.speed 120mt./min).
- 6、Bosses profile of chromed or galvanised steel, to secure the bellow to the support.
- 7、Plastic treated fabric
- 8、Oil and emulsion resistant polyurethane adhesive.
- 9、Rigid PVC sheet.
- 10、Plastic treated fabric.

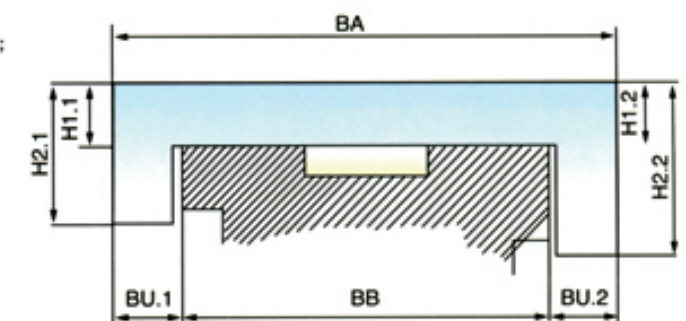


计算高频焊接的护罩尺寸

Calculation of high frequency welding shield size



1. 保护罩折面材料根据工作条件选择PVC (聚氯乙烯) 材料和其他材料;
2. 每个折面下的PVC片材支撑;
3. 能避免在高速度下产生噪音的滑动片;
4. 高频焊接;
5. 固定用的支撑面;
1. Special coated fabric ,chosen according to working condition .
2. Rigid PVCsupport in every fold.
3. Special shoes to prevent annoying noises at high speeds.
4. High frequency welding.
5. Fastening flange .



在设计阶段为了估算保护罩的体积; 可参考下面的有关参数:

- 标准折面的高度: 15mm、20mm、30mm、35mm、40mm、45mm、50mm;
- 机械设备的导轨面和护罩之间的距离最小为5mm、最大为10mm;
- 护罩折面张开时的尺寸等于这个折面高度的壹倍;
- 被压缩折面厚度等于4mm
- 风箱被压缩后的长度等于;

To calculate the dimensions of the welded bellow at the design stage ,it is useful to pay mind t some data:

- The standard folds have the following heights :15mm、20mm、30mm、35mm、40mm、45mm、50mm
- The total play between the slides and the bellow must be from a minimum of 5mm。to a maximum of 10mm.
- The thickness of a compressed folds is on average 4mm
- The compressed length of the bellows is equal to:

折叠保护器张开尺寸
一个折面张开尺寸

折叠 × (3 ~ 4.5mm) + 支架厚度

extension of bellow
extension of one fold

折叠 × (3 ~ 4.5mm) + (3~4.5mm)
+flange thicknesses



盔甲式机床立护罩

Armoured Vertical Shield for Machine Tools

有盔甲的护罩

盔甲式不锈钢机床立护罩的每个折层能经受强烈的振动而不变形，同时应用在风箱上，以900℃高温而仍保持原有的状态，他们之间彼此支持，起着阻碍小碎片渗透的作用。

特点

按在护罩格上伸缩片

小的空间必要条件

可靠的保护层抵御大量的灰尘，砂末，铁屑耐高温

伸缩片是铝合金和不锈钢板制成

没有粘合关系

Features

Hinged mounted telescopic sheets.

Small space requirement.

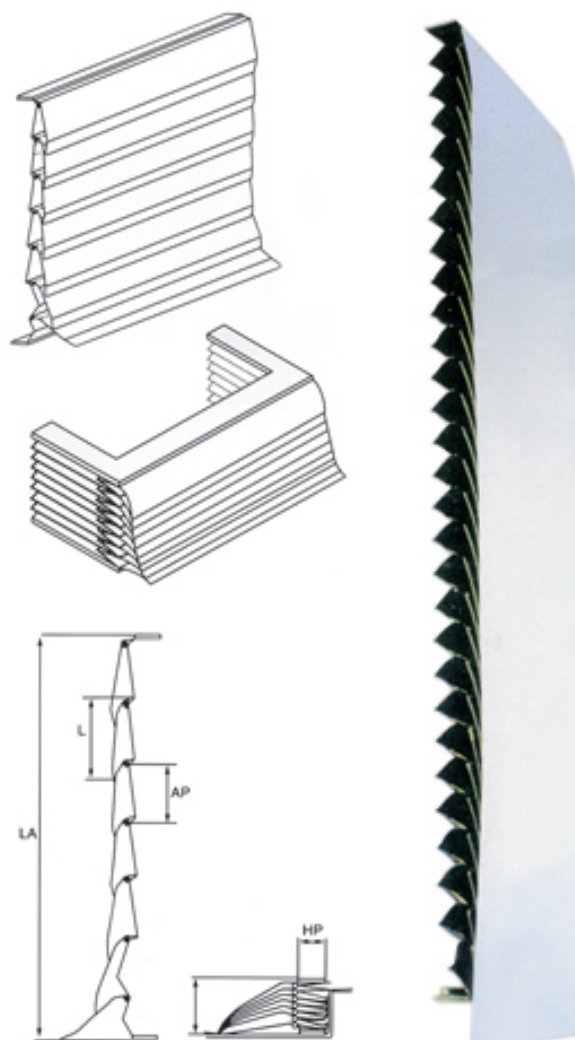
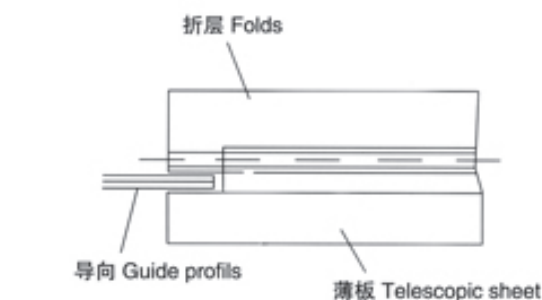
Reliable protection against large quantities of swarfs.

Individual telescopic sheets are easy to replace.

No glued connections.

Armoured shield

Each fold of the armoured vertical shield can withstand strong shocks without any deformation. at the same time, It can stand a high temperature of 900℃ when used for bellows. They support each other and prevent debris from dropping inside.



卷帘式防护罩

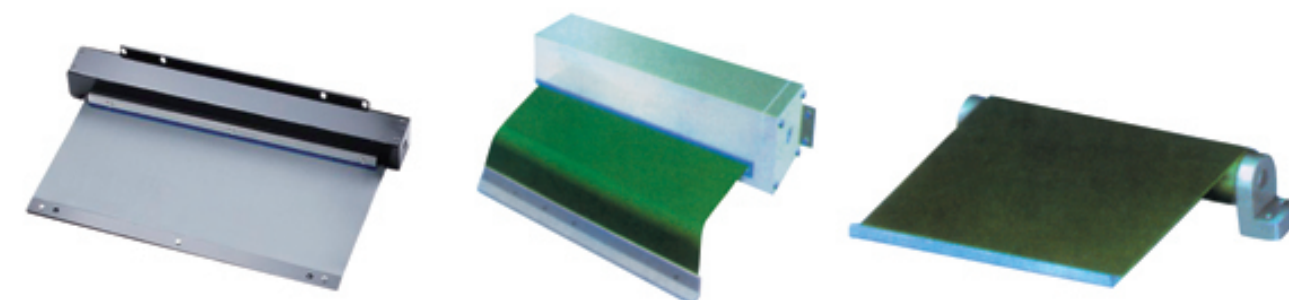
Rolling curtain shield

外壳用不锈钢材料制成的自动伸缩式防护带，是由外壳、弹簧轴、和纤维布等组成。外壳是用不锈钢或冷轧板制成，并经表面防腐处理，内部结构是经过热处理钢带组装而成，此产品的结构严谨，合理、无噪音，适合空间小、行程大、且运动快的机床设备使用。

PVC布防护帘

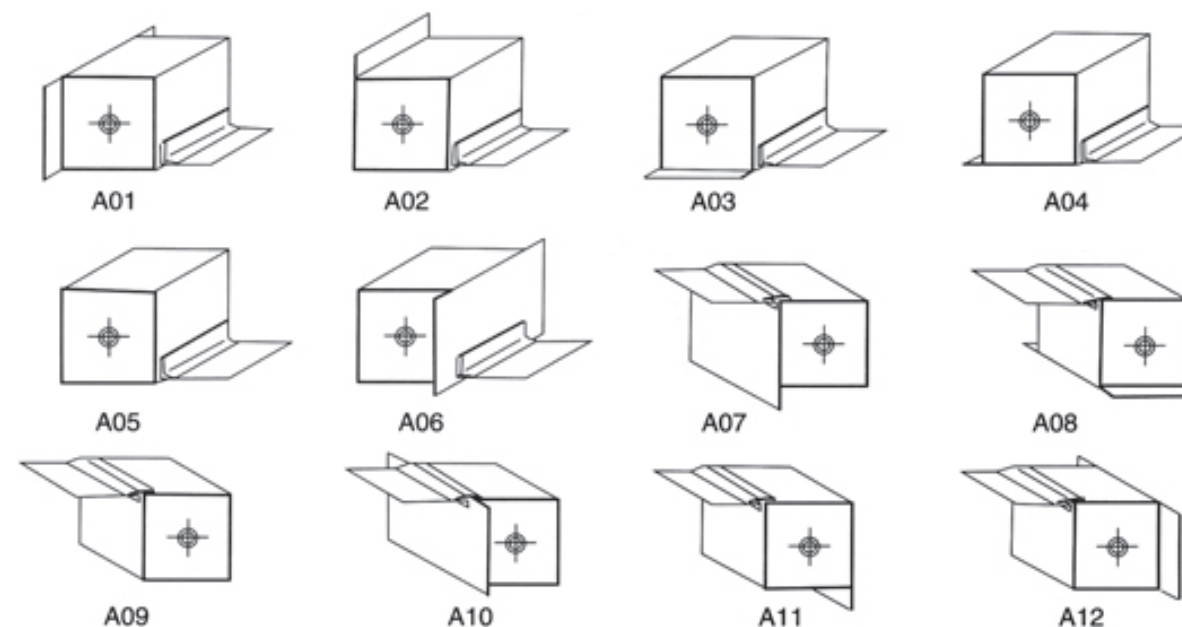
PVC cloth protecting curtain

The automatic pull-out and take up shield with the shell made of stainless steel consists of shell, spring shaft and fabric cloth. The shell is made of stainless steel or cold rolled steel plate, of which the surface is anticorrosion treated. The internal parts are made of heat treated steel band. This product is of compact design and noise free, long travel range and especially suitable for fast travel machine tools.



箱体式

托架式

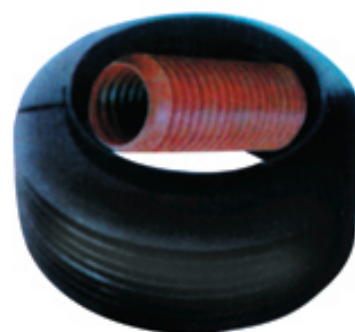


选形后注明箱体高长度联接板φ位置拉伸长度及宽度，托架式注明托架部位装配参数。



波纹耐油圆筒伸缩式护罩

Corrugated oil cylinder telescopic cover



内领口 Inner collar	另一端领口 Collar at other end	外径 O.D	内腔 I.D	收缩 Contract	拉伸 Stretching
d	d1	D	D1	Lmin	Lmax
9	12	12	8	11	17
16	38	44	塔形 Tower-shaped		60
16	42	62			80
35	58	74			100
14	14	30	18	40	200
18	18	32	18	25	160
25	25	52	30	25	100
25	25	52	30	35	140
25	35	70	35	40	280-300
28	46	78	46	40	210
30	30	45	30	60	300
30	30	45	30	150	600
45	45	65	45	55	250
45	45	75	50	80	500
45	66	90	66	20	110
50	60	80	60	60	350

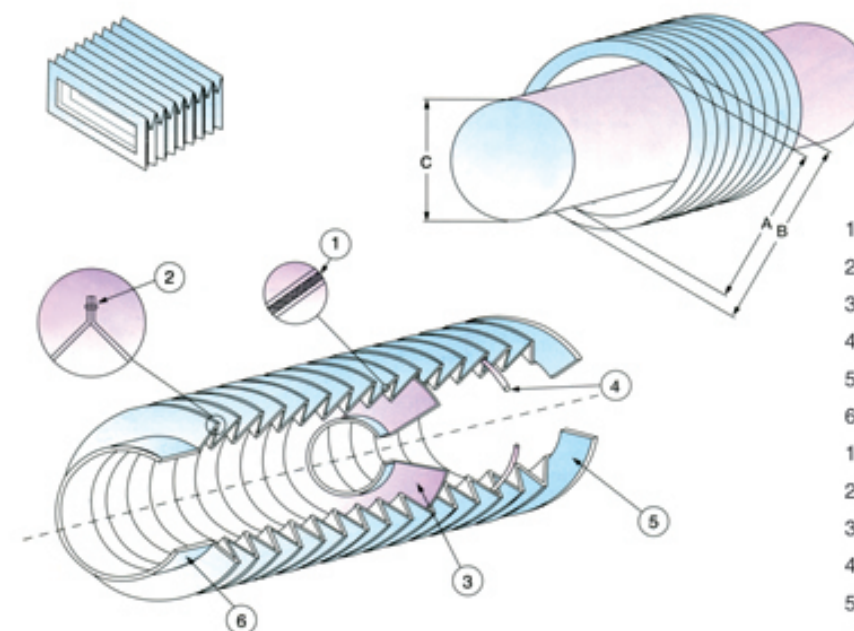
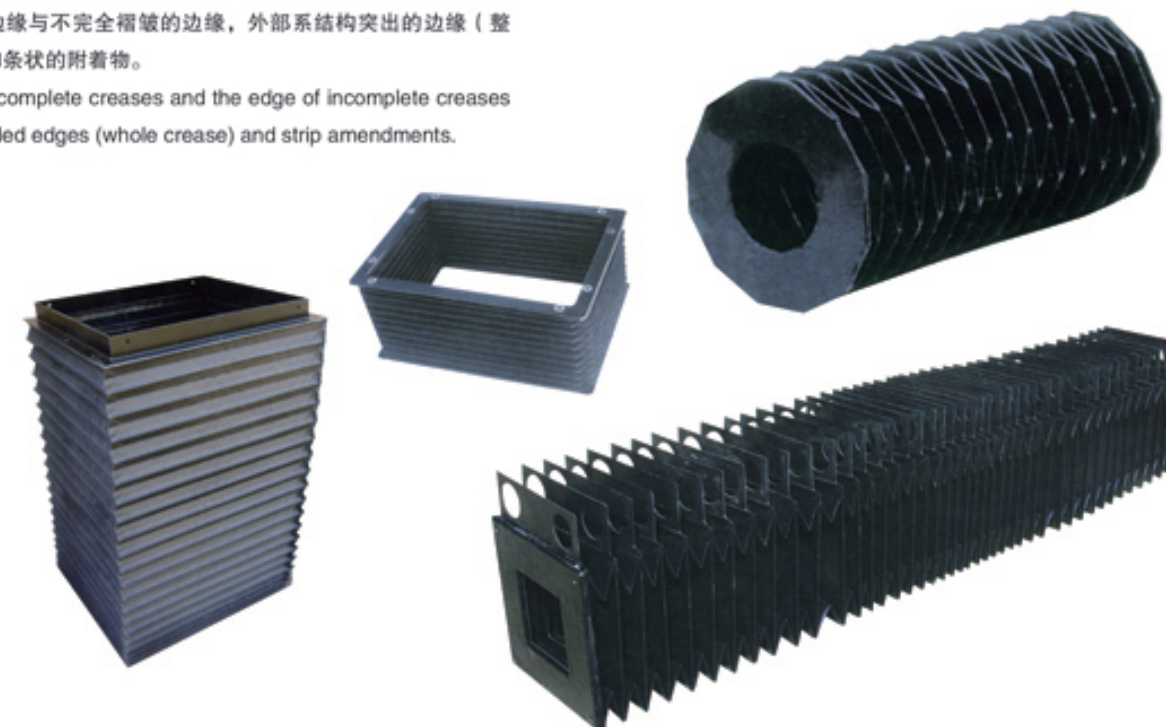
内领口 Inner collar	另一端领口 Collar at other end	外径 O.D	内腔 I.D	收缩 Contract	拉伸 Stretching
d	d1	D	D1	Lmin	Lmax
55	58	82	58	100	450
60	60	80	60	60	330
60	60	70	50	60	320
60	85	120	85	20	140
70	75	130	75	150	600
75	85	130	85	60	350
75	90	100	55	80	380
110	135	145	110	70	320
130	176	180	130	100	1000
140	186	190	140	30	280
155	195	200	160	90	450
160	204	240	220	60	400
165	165	170	120	60	600
170	195	195	145	45	185
200	230	242	190	85	460
200	215	290	240	60	350

圆型、方型、八角型护罩分类

Classification of round type, square type and octagonal shield

整个褶皱的边缘与不完全褶皱的边缘，外部系统结构突出的边缘（整个褶皱的）和条状的附着物。

The edge of complete creases and the edge of incomplete creases are of protruded edges (whole crease) and strip amendments.



1. 在两边有一层坚硬的保护环
2. 焊接口和缝合线
3. 聚氯乙烯支撑环；每折一片
4. 圆护罩支撑钢丝圈
5. 平的边缘
6. 颈口
1. Rigid polyamide or kevlar rings coated on both sides.
2. Seams or weldings.
3. PVC supporting shoes.
4. Steel rings for the bigger bellows.
5. Flat flange.
6. Collar.