

SAMURAI LAMELLA APRONS

02

SERVICE & QUALITY

SAMURAI FASTLAP lamella aprons are a variation of the SAMURAI bellows. They were designed for Z axis covers in machining centres.

The substructure does not consist of ELASTIC bellows but only a carrier material to which the lamellas are fixed.

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BACKWALL SYSTEMS



SAMURAI lamella apron

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GLADIATOR STEEL COVERS

These cover types are called FASTLAP, and the product line consists of three models. They vary according to how their lamellas are fixed to the carrier material. Special types are available on request.

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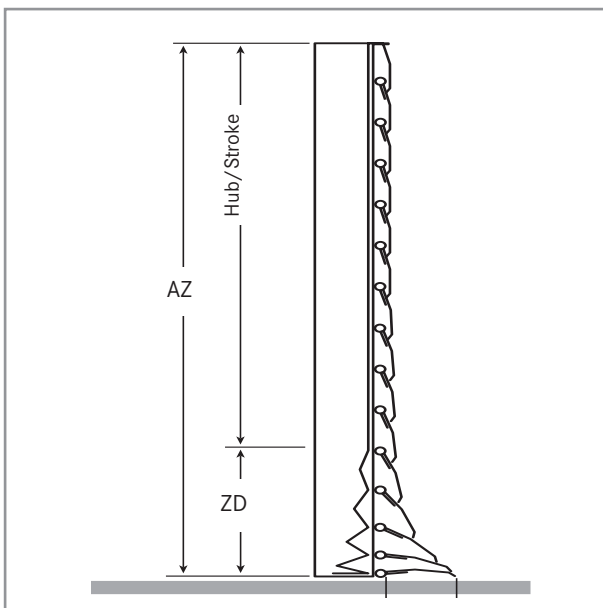
ROLLER SYSTEMS

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VIEWING SYSTEMS



FASTLAP Lamella apron

FASTLAP

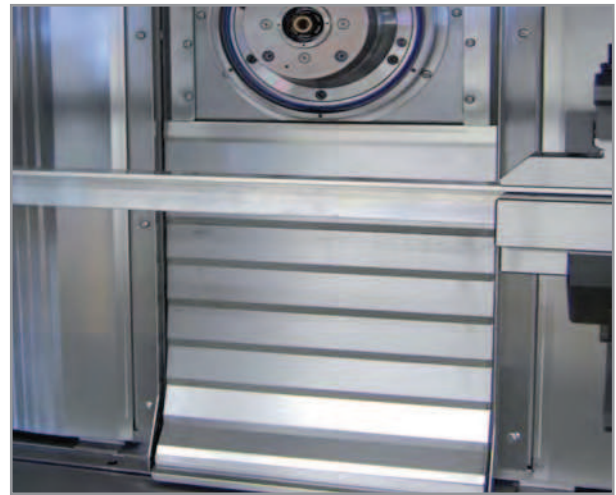
The SAMURAI FASTLAP lamella apron is available in two variants:

- lamellas clipped
- lamellas secured with or without preloading

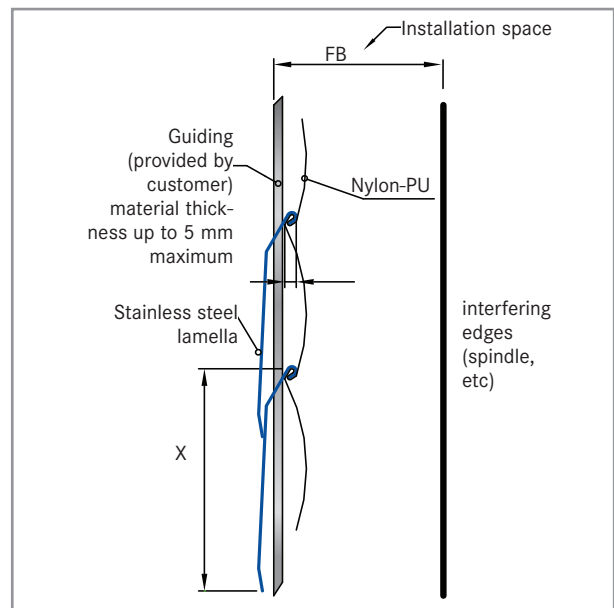
The lamellas are made of stainless steel of 0.5 mm thickness up to a maximum width of 4,000 mm, and mounting is simple. The compression per fold is about 4 mm.

The lamella apron requires a guide on both sides that must allow for a side length of 25 mm.

The lamella apron is secured to a tear-proof Nylon-PU material selected specifically for each application.

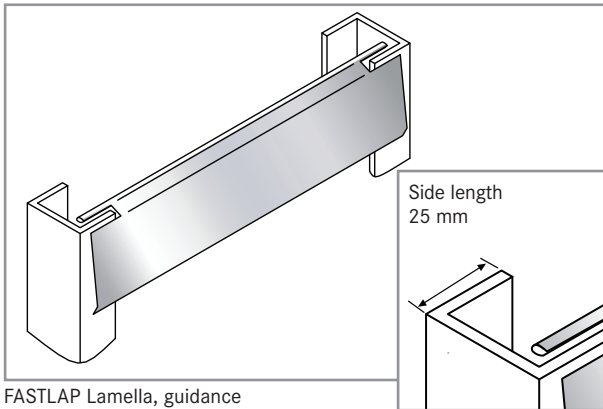


SAMURAI Lamella apron



FASTLAP Lamella apron

SAMURAI LAMELLA APRONS



FASTLAP Lamella, guidance

Legende

FB	Width of fold
FZD	Compression per fold
FAZ	Extension per fold
X	Horizontal space required for the lamellas

FB	FAZ	FZD	X
25	38	4	65
30	48	4	75
35	58	4	85
40	68	4	95
45	78	4	105
50	88	4	115

FASTLAP

Special types of lamella aprons

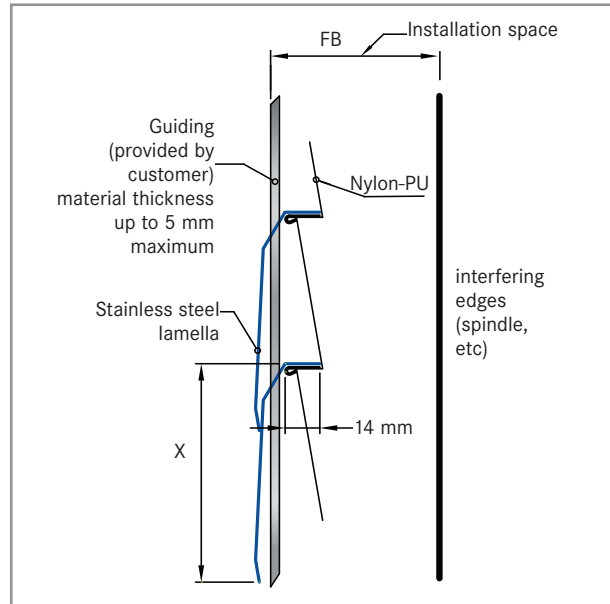
- FASTLAP SA
- FASTLAP SB

FASTLAP SA

The SAMURAI FASTLAP SA lamella apron is also fitted with flexible mounted lamellas. These hinged without preloading. The lamellas are made of stainless steel 0.5 mm thick up to a maximum length of 4,000 mm. Within these dimensions the length of lamellas and width of folds can be individually chosen. For compression 4 mm per fold must be considered.

The FASTLAP SA type exhibits a greater lateral stability, especially for widths in excess of 1,000 mm, when compared with the standard FASTLAP type.

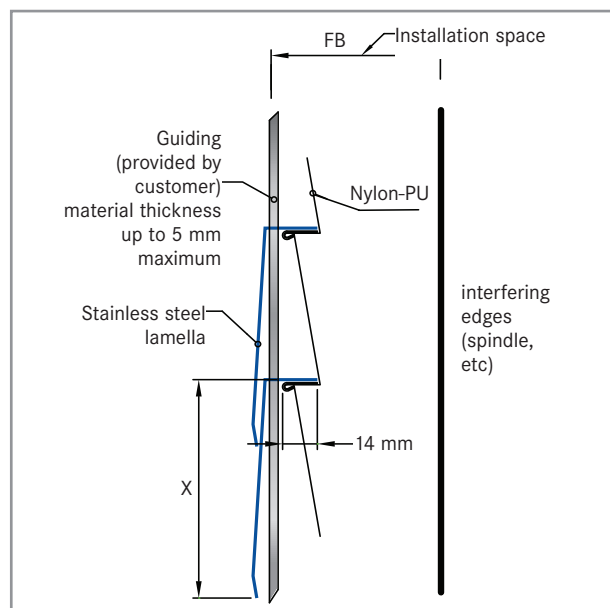
Therefore this type is suitable for higher travelling speeds. The higher surface pressure also effectively prevents the lamellas from »lifting off«. At the machine there must be guides on both sides of the lamella apron over a side length of 25 mm; the thickness can be up to 5 mm.



Lamella apron FASTLAP SA

FASTLAP SB

Compared with FASTLAP SA this type exhibits a higher lateral stability, which becomes particularly necessary on widths greater than 1000 mm. At the machine there must be guides on both sides of the lamella apron over a side length of 25 mm. Unlike FASTLAP and the FASTLAP SA types for the FASTLAP SB apron the thickness of the guides can be up to 6 mm. The vertical lamella overlap requires an additional space of 15 mm. Owing to this design the lamellas cannot be lifted. The lamella apron is secured to a tear-proof Nylon-PU material selected specifically for each application.



Lamella apron FASTLAP SB

SOFT PVC BELLOWS

Soft PVC Bellows occupy a special position among the different types of bellows. ELASTIC Bellows (see Chapter ELASTIC Bellows) offer extremely flexible design options with regard to material, dimensions and shape and can nevertheless also be produced economically in very small quantities.



Soft PVC Bellows in standard colour black

Soft PVC Bellows on the other hand are moulded parts, i. e. a certain minimum quantity or corresponding tooling must be available to justify economic production.

Correspondingly, cost reduction can be achieved with larger quantities which makes these parts particularly well suited for large series use.

Tooling is already available for many configurations, therefore attractive prices can be offered even for smaller quantities. The dimensions and shapes shown in the catalogue are available as standard forms. In addition we would be pleased to assist you in the design of special types.



Large variety of forms and colours



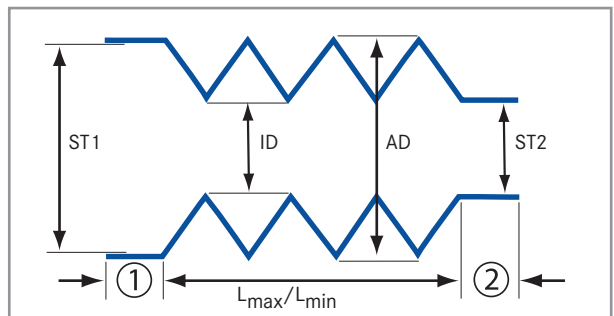
Split version

Material

We use a special PVC as standard material. The bellows are resistant to alkalis and acids; they are water and dust-proof. The standard colour of these bellows is black, but other colours as well as a version in transparent material are also possible.

Temperature

The operating temperature range is between -20°C and $+80^{\circ}\text{C}$. For a short time a maximum operating temperature up to $+120^{\circ}\text{C}$ is possible.



Legend

ID	Inside diameter
AD	Outer diameter
FAZ	Extension per fold
FZD	Compression per fold

Customer specification resp. incidental by parameter

L_{\min}	Compression of bellows
L_{\max}	Extension of bellows
①	Width of sleeve 1
②	Width of sleeve 2
FAZ	Extension per fold
FZD	Compression per fold