

JET CUTTING MACHINES AND LINEAR GUIDES

Bellows for jet cutting machines

Modern jet cutting machines (with lasers, plasma or water) are fitted with bellows to protect the jet channel and the mechanical components such as spindles and guides.



Guided bellows for laser cutting

These types of bellows require a high level of tightness and long life. Bellows for jet cutting machines are primarily made of self extinguishing materials such as Preotex. The materials selected have been extensively tested with various impact cycles.

At all stages from production to packaging and shipment our bellows are maintained in a particularly clean state and free of dust, e.g. with special packing.

- High temperature resistance of bellow material
- No outgassing of materials
- Gas-tight for minimised flushing gas losses
- Superior clean state during production and shipment

Construction

For better stability the bellows used for jet cutting machines are fitted with stabilizing synthetic material frames. These frames are customized to each guidance type, e. g. guiding bars. Normally these bellows are mounted with metal end frames. Especially important is a separate guiding system that keeps the bellows material intact.

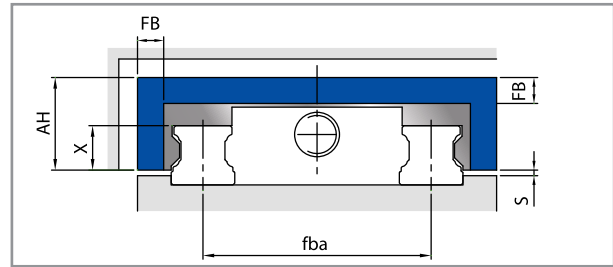
All dimensions in mm if not marked otherwise. Errors and omissions excepted.

Bellows for linear guides

Linear drives can be either retrofitted by the customer or fitted with bellows before they leave the factory. HEMA has specialised in this field and offers bellows tailored to the leading international manufacturers, e.g. INA, NSK, Schneeberger, Bosch-Rexroth, THK or NSK. On the basis of precise type denominations the bellows and their guiding components can be manufactured correctly to size.

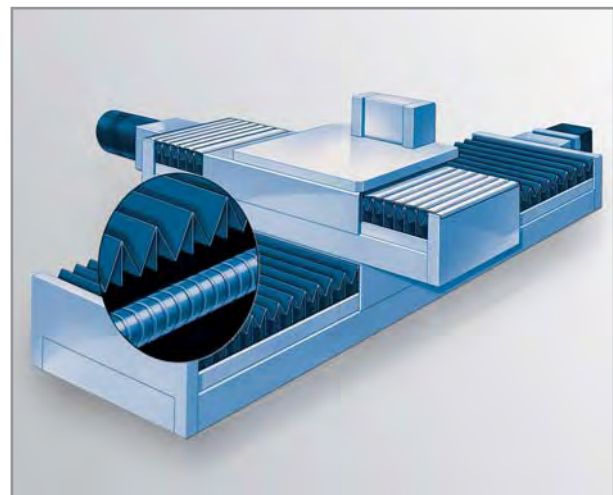
Material

Standard applications require PU coated materials, but heat resistant and self extinguishing materials are also available. For the best services and immediate replacements these bellows are also available as »endless versions« with 200 or more folds in total. The required dimensions can easily be configured by the customer.



Legend

FB	Fold width
FAZ	Extension per fold
fba	Width of guiding way
AH	Exterior height
X	Interior height
S	Play



Sample of application

