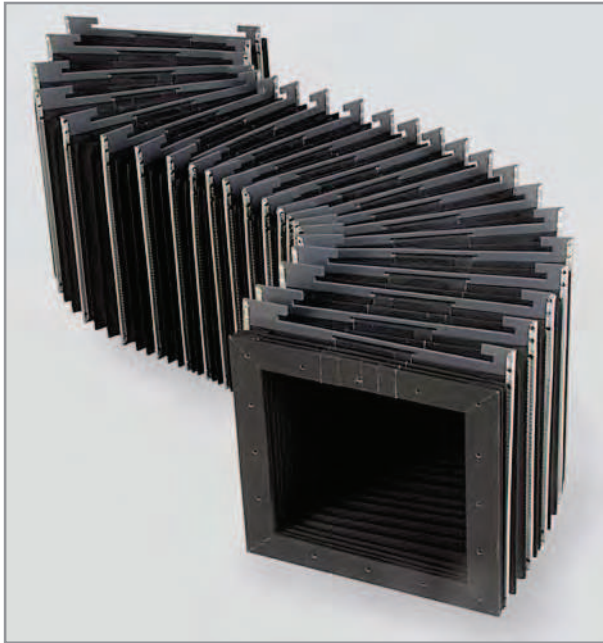


BELLOWS FOR JET CUTTING MACHINES

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.

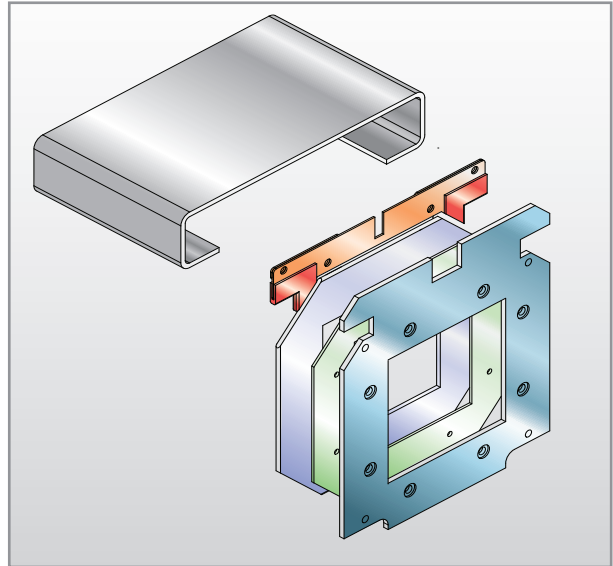
Bellows for jet cutting machines are primarily made of self-extinguishing materials such as Preetex.

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.



Bellows in operation



Structure of synthetic material frames and guiding frames

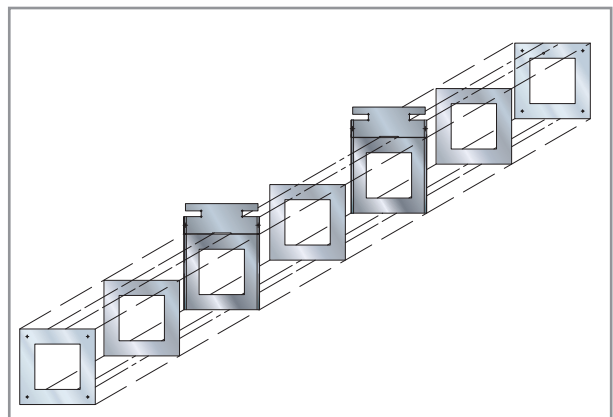
- High temperature resistance of bellow material
- No outgassing of materials
- Gas-tight for minimised flushing gas losses
- Superior clean state during production and shipment

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.



External guide for laser cutting bellows