

Pressure-sensitive Safety Devices

Safety Bumpers HSB®



Safety Bumpers HSB®

**For the protection of
hazardous movements with
large overtravels**

Shearing and crushing edges at automatically driven devices bear a substantial risk of injury for persons. To protect against these risks, Safety Bumpers are employed.

Safety Bumpers, when activated, will immediately switch off the power source. An additional control unit is not required. The signal is fed to the existing E-stop relay unit.

The Safety Bumpers comprise a rubber-foam cushion, in which our Haake Contact Chain® is embedded. Normally, the rubber-foam cushion is provided with a high abrasion-resistant, elastic polyurethane surface. For applications in harsh conditions, additional materials and solutions can be supplied. Please inform us about your application.



Pressure-sensitive Safety Devices

Safety Bumpers HSB®



Safety Bumper with mechanically opening contacts (Haake Contact Chain®)

- no additional control unit required
- wired directly to existing E-stop relay unit
- most various dimensions, shapes, and colours, depending on application
- resistant against many chemicals
- short switching travels
- contact chain immediately behind actuation surface
- signal independent from direction of actuation



Design and mode of operation of the Safety Bumper HSB®



The bumper is made of soft polyurethane foam, in which the contact chains are embedded. The number and the locations of the contact chains are selected according to the size and application of the Safety Bumper.

For a purely linear movement, normally the front side only of the Safety Bumper is used as the actuation surface. In other cases, when the machines also run along curves, the side faces, too, are equipped with contact chains.

The complete foam-rubber body with the embedded contact chains is glued to a carrying plate and fully coated with a polyurethane layer. The colour is black or signal red. Yellow safety stripes can optionally be applied.



You will find detailed product information and data sheets under www.haake-technik.com or on the enclosed CD.

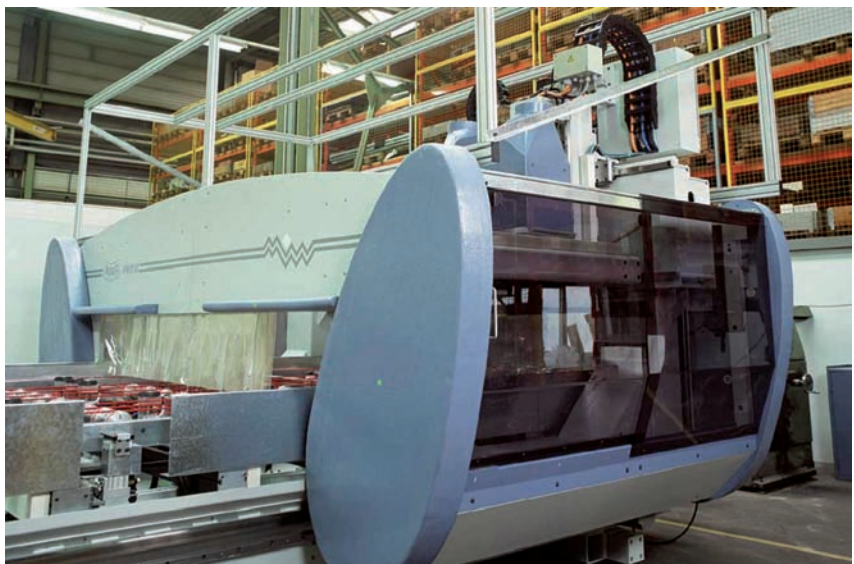
Applications of the Safety Bumpers HSB®

Here you can see a small selection of application examples.

For example theatre stages.



For example CNC machining centres.



For example materials handling.

