



Barrier Retrofit Packages



BOSCH
Invented for life

Upgrade Existing Systems with Barrier Systems

Incorporate the latest in barrier technology into your existing line, increasing both operator and product safety. With ever increasing regulations you can extend the life of your current liquid filling system by adding one of several barrier options.

Bosch has been an industry leader in the design and manufacture of barrier systems for over 20 years.

Barrier systems range from relatively simple safety enclosures designed to protect workers from moving parts to complex isolator systems with integrated air handling systems that protect both personnel and product from contamination during the filling process.

Because Bosch designed your filling system, you can be assured the barrier system will be designed with proper fit and function.

Applicable Equipment:

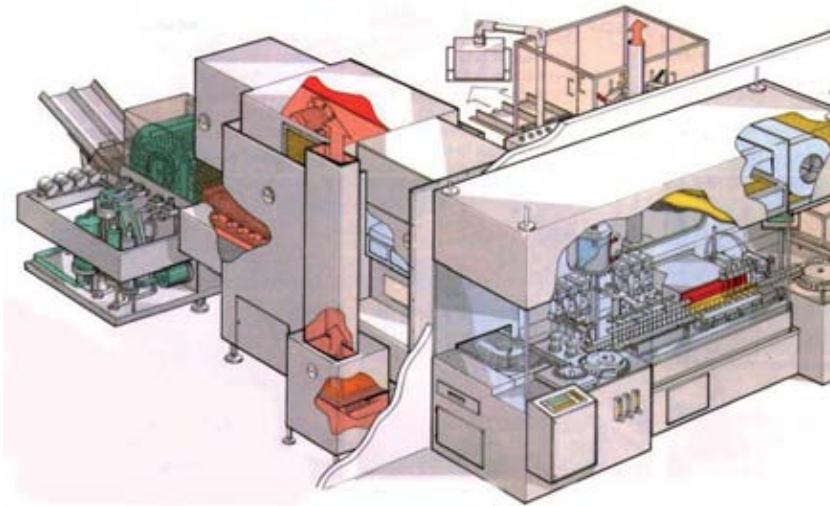
- ▶ Most Bosch liquid fillers



Your Benefits

- ▶ Increased operator and product safety
- ▶ Extend life of filling system
- ▶ Designed and built in the US
- ▶ Professional installation

You will find your local partner at: www.boschpackagingservices.com



Barrier systems provide the best possible protection for both personnel and product during the filling cycle.

Barrier Type	Description	Function	Safety Features	Air Handling
Safety Barrier	<ul style="list-style-type: none"> •Lightweight enclosure •frame built onto existing machine •Lexan doors and panels •Lightweight panel hinges 	<ul style="list-style-type: none"> •Personnel safety 	<ul style="list-style-type: none"> •Electronically interlocked door switches 	<ul style="list-style-type: none"> •Marginal direction of room airflow over vial area
UAF Enclosure	<ul style="list-style-type: none"> •Heavyweight frame •Plastic side curtains or panels •Stand alone unit •Wheel kit* 	<ul style="list-style-type: none"> •ISO class 5 environment 		<ul style="list-style-type: none"> •Integrated air handling with HEPA filtration
Passive RABS	<ul style="list-style-type: none"> •Heavyweight frame •Glass or Lexan panels to room ceiling •Gloves for intervention •Interlocked doors •RTP Ports* •Air sampling* •Extensions to ceiling* •Glove testing* 	<ul style="list-style-type: none"> •ISO class 5 environment •Personnel separation •Personnel safety 	<ul style="list-style-type: none"> •Mechanically and electronically interlocked door switches •Light curtains for gloves 	<ul style="list-style-type: none"> •Utilizes and directs clean room air supply
Active RABS	<ul style="list-style-type: none"> •Heavyweight frame built onto existing machine framework •Glass or Lexan panels •Gloves for intervention •Interlocked doors •RTP Ports* •Air sampling* •HEPA coverage over door swings* •Glove testing* 	<ul style="list-style-type: none"> •ISO class 5 environment •Personnel separation •Personnel safety 	<ul style="list-style-type: none"> •Mechanically and electronically interlocked door switches •Light curtains for gloves 	<ul style="list-style-type: none"> •Integrated air handling with HEPA filtration
Isolator	<ul style="list-style-type: none"> •Heavyweight enclosure built onto existing machine •Glass doors and windows •Gloves for intervention •Sealed doors •Integrated biodecontamination •RTP Ports •Air sampling •Glove testing* 	<ul style="list-style-type: none"> •ISO class 5 environment •Personnel separation •Personnel safety •Product containment 	<ul style="list-style-type: none"> •Vacuum sealed doors •Leak tight chamber •Light curtains for gloves 	<ul style="list-style-type: none"> •Integrated air handling with HEPA filtration •Dedicated HVAC system

*available option

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