

Technical News Bulletin

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Blank side Barrier for AIS and NIS machines



Introduction

The Blank Side Barrier (BsB) is a new addition to the NIS machine that improves the safety for the operator during forming operations. The Blank side Barrier is developed to prevent unintended access to the blank side of the forming section when in automatic mode and to provide additional safety measures during blank manual swab.

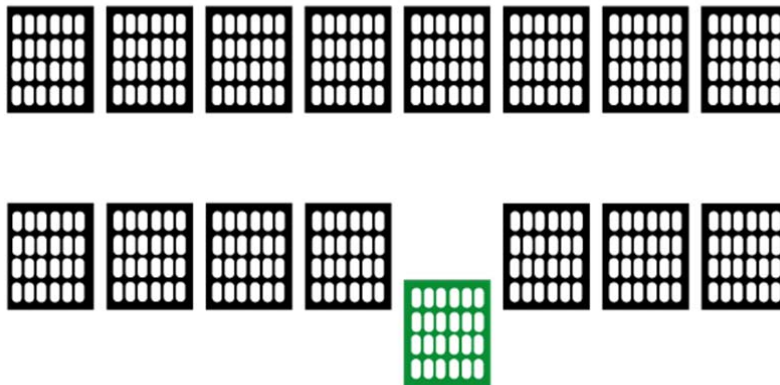


Features

- The BsB (Blank side Barrier) prevent the operator from accessing moving components of the blank mechanism during automatic operation.

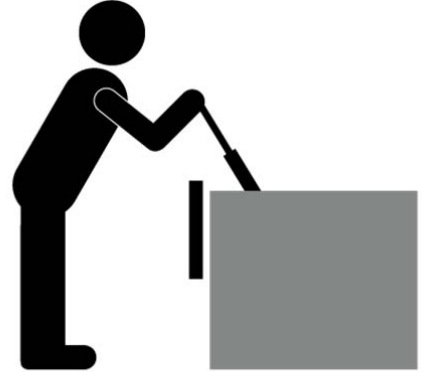


- The BsB visualizes the mode of the section. The moving gate in the UP position shows clearly the section is in automatic mode.

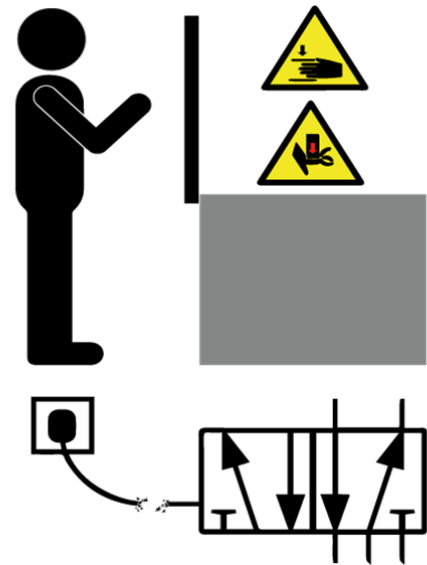


- When Maintenance Stop is activated the BsB gate is lowered indicating that it is safe to access the section. When Maintenance Stop is deactivated the BsB gate moves up into position to prevent unsafe access.

- When Swab cycle is activated the BsB moves down and when the swab cycle is deactivated the BsB moves up.



- In case of electric or pneumatic shut down the BsB will stay in the UP position



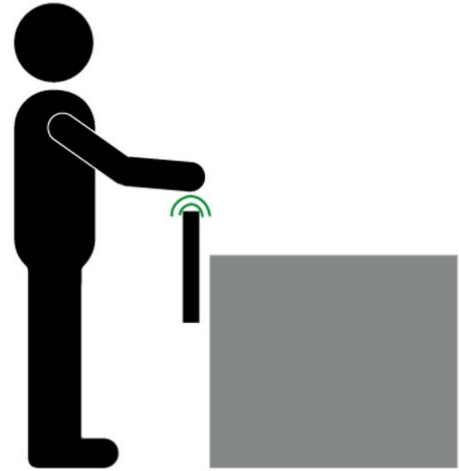
- The BsB can be manually lowered for the purpose of section maintenance



- The BsB can be forced down when the section is in automatic mode with the use of an override key.



- The gate moves gentle and with a light force, (conforms to the standard EN 953:2009 about movable gates).



- The BsB is painted black to give a good visibility through the slots in the guard.



- The deflector adjusters can be reached and adjusted with the BsB in the UP position.



Functional description

The Blank side Barrier consists of a movable guard driven by two air cylinders. One electro-valve activates the air cylinders to move the guard, the valve is triggered by the section safety relay (MS) and the Swab output from the controls. On each cylinder there is a sensor monitoring the up position of the guard. If the sensor system is set to “supervision” it is preventing the section to start if the BsB is not in the UP position. With the sensor system set to “without supervision” the sensors are disconnected.

Application

AIS and NIS new machines 8 – 12 section machines

Description	Part Number
NIS new machines	400-51-02
Blank side Barrier	900-10-00
Blank side Barrier (NIS Machine)	900-10-07
Air supply	900-1011- 5 (8 sect) -6 (10 sect), -7 (12 sect)
AIS new machines	210-1590
Blank side Barrier (AIS Machine)	900-10-00
Air supply	900-1011-2 (8 sect) -3 (10 sect), -4 (12 sect)

Installation Requirements

The BsB can be installed on Bucher Emhart Glass NEW AIS and NIS forming machines.

Supplied on NIS machines

The BsB is mounted on the section frame. At installation the external cable is plugged into the BsB air and electric connection.

Features / Benefits

Features	Benefits
Maintenance Stop not activated – BsB UP	Visualize the state of the section
Swab cycle activated – BsB DOWN	Reduces the risk with manual swab
Pneumatic check valves on cylinders	BsB stay UP in case of pressure loss
Normally open electric valves	BsB stay open in case power failure
Sensor system	Prevent section to start if BsB is down
Can be folded down	Provide open access to the section
Override key	Provide possibility to force the BsB down in automatic mode