



Pauly A2 Safety Guard

Complete safety system for upgrading
Brunswick® A2 pinsetters



Brunswick® A2 Pinsetter: greater reliability – outdated safety

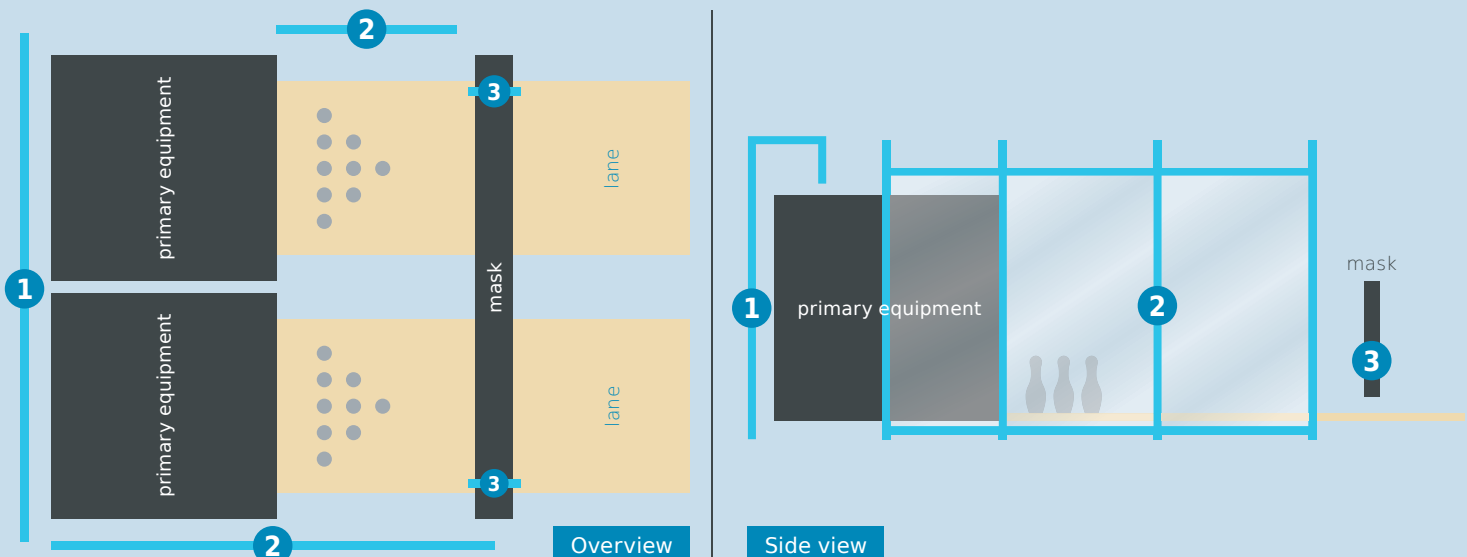
Over the decades, the A2 pinsetter system from Brunswick® has proven itself to be an **absolutely reliable system** in thousands of installations around the world. Systems first designed in the 1960's **no longer live up to today's safety standards**: The machinery is often **left exposed in the equipment room**, being **easily accessible** from all sides and not protected against **intervention or trespassing by unauthorized persons**. These deficiencies can result in **accidents** involving service technicians as well as players and, on rare occasions, can also lead to fatalities.

With **Pauly A2 Safety Guard**, Schlosserei Pauly has developed a complete self-monitoring system that wipes out these deficiencies while **improving safety** to an optimum level for **both service personnel and players**.

During development, care was taken to ensure that game operations would not be disturbed and that unnecessary **outages and downtime** could be avoided. With its three components, the system makes possible **controlled access** to the equipment at a **maximum level of safety**.

Pauly A2 Safety Guard: 3 components for upgradable safety

Schematic diagram





Door equipment mounted onto the back side of the system.



The door is opened under controlled conditions with the manual control switch.



The sliding door is continuously checked by means of a self-monitoring coding switch.

1 Back side

Injuries related to the primary equipment on the back side of the system or those from unforeseeable flying pins or balls are prevented by means of a monitored access door. The sliding door is covered with transparent and break-resistant polycarbonate and can be opened during game operations under controlled conditions with a manual control switch – and without system outage. If an unauthorized person attempts to open the sliding door, the system shuts down.

2 Side walls and partitions

Prevention of an unauthorized and unsafe crossover to neighboring machines is achieved through the installation of partition elements from the back side of the equipment to the masks. The use of transparent and break-resistant polycarbonate provides the service technician an overview of the machinery.



Partition elements isolate the systems.



Light beam source and sensor.

3 Front side

A light barrier is installed below the mask: If the light beam is interrupted by the presence of a person, the machinery will shutdown immediately. The pushing-up of the mask during ongoing game operations will also cause the machinery to shutdown. In this manner, players or careless technicians are protected from danger.

Controlled intervention in case of a malfunction

In the event of a malfunction, **intervention by a system mechanic** is required. The service technician uses the **pluggable manual safety control switch (Picture 1)** and switches the system to Service Operation by holding the switch in the middle position **(Picture 2)**: The **sliding door** can now be opened and the fault rectified; the **system remains in**

operation. If the switch is released or depressed completely **due to stumbling or cramping** (e.g. resulting from electrical shock), the **machine will shutdown**. If servicing or fault rectification proceed normally, **Normal Operations** are resumed after closing the sliding door by actuating the push-button **(Picture 3)**.



Pic. 1: The pluggable manual control switch is connected.



Pic. 2: The middle position of the manual control switch activates Service Operation.



Pic. 3: Normal Operation is confirmed by push-button.

Your advantages for greater safety:

- Any Brunswick® A2 system can be upgraded
- The system has undergone the safety-related testing and approval process by the BGN (German institution for statutory accident insurance and prevention in the foodstuffs and food-service industry)
- All components are integrated into, and mounted onto the system
- The electrical system complies with European standard EN 60204 and does not interfere with the existing machine control system
- Noise emissions are reduced in the equipment room
- A very high level of operational safety is achieved through continuous system monitoring
- Game operations are not interrupted by service operations
- A utility model patent registration has been filed at the German Patent and Trade Mark Office (Nr. 20 2009 008 055.2)



Pauly A2 Safety Guard:
Upgradable safety for personnel & players.
Please contact us for further information.

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