



# PSD

HYUNDAI Platform Screen Doors



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# Smart & Green System

**PSD** HYUNDAI Platform Screen Doors

OVERVIEW OF HYUNDAI PSD SYSTEM

## HYUNDAI PSD keeps our environment clean and safe.

### ▶ Platform Screen Doors (PSD)

PSD is a safety system used in subway and LRT(Light Rail Transit) to cut off platform from the railway. Fixed doors and sliding doors are installed at the appropriate place of the platform. Sliding doors interact with car doors, open and close as a ATO(Automatic Train Operation) system make a signal when an electric train stops at the designated place.

### ▶ The Necessity of PSD

- Prevent passengers from falling down or committing suicide and reduce crews' stress
- Make a comfortable platform by blocking wind, dust, and noise generated by train
- Maximize energy saving by improving HVAC (Heating Ventilating Air Conditioning) efficiency

### ▶ Leading the PSD industry based on accumulated technology

Hyundai Elevator Co. Ltd. entered into Platform Screen Doors industry for the first time in Korea based on elevator door technology accumulated for 25 years and also acquired ISO9001 and ISO14001 and 2 million times open/close duration test certifications for the PSD for the first time in Korea with the accumulated technology and rich experiences in design, construction, and maintenance.





# Ideal Solution for the Passenger, Driver and Operator

## We have enhanced passenger safety management system.

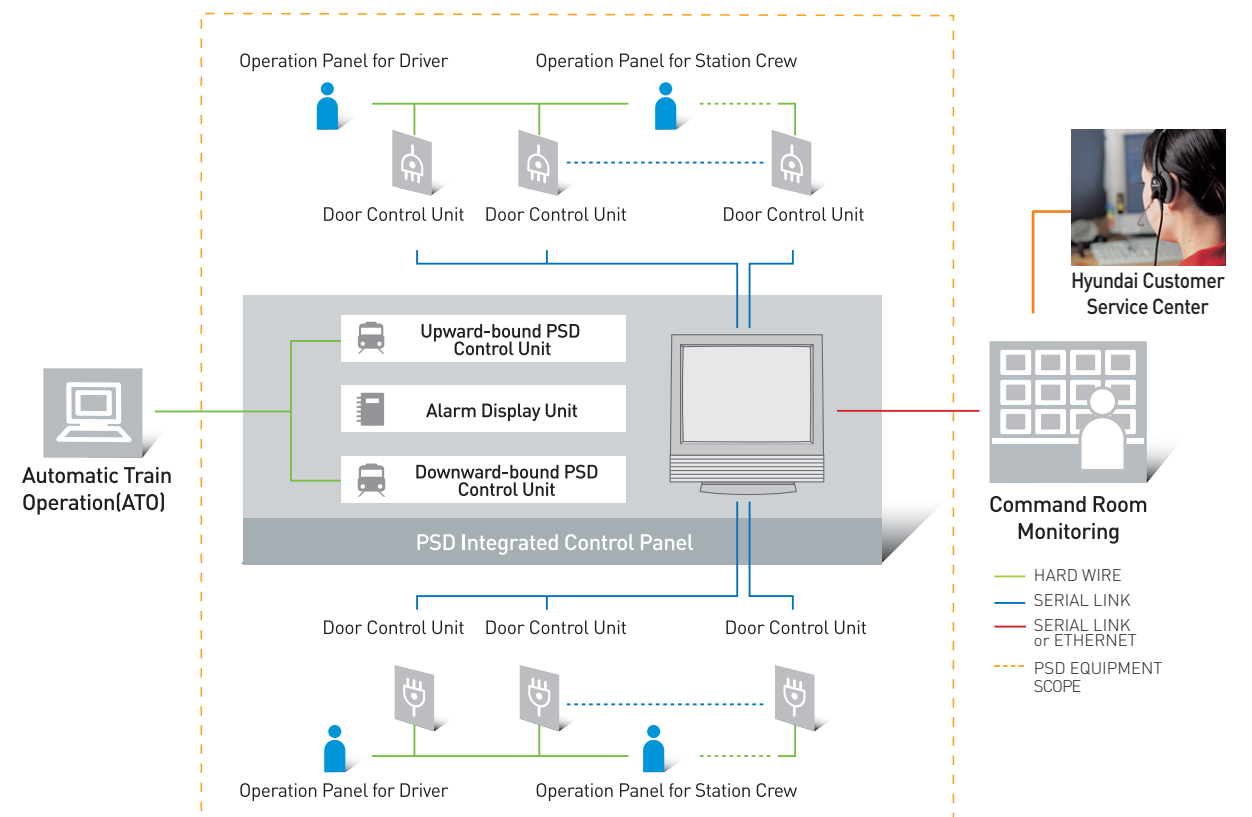
### Enhanced Passenger Safety Management System

- If a passenger is trapped between train and PSD, a corresponding sliding door automatically moves back to protect a passenger.
- Sliding doors are normally locked in the platform side to prevent intentional opening and unlocked only under an automatic control.
- In case of emergency, passengers who escaped from the train can manually open sliding doors or emergency doors from the railway side and move to platform.

### Optimal System for Efficient Management

PSD system provides easy management and maintenance with centralized monitoring through computer monitor built in an integrated control panel.

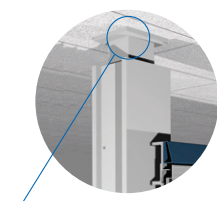
### System Configuration of Hyundai PSD





# We provide a customised product and listen to clients' concerns.

## ▶ Post Support Type

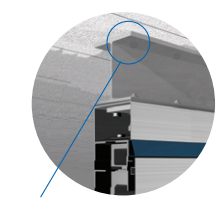


Fixed Post Beam

Screen Doors are installed between the columns after setting up vertical columns in platform or railway area.

- Full-closed type and a semi-closed type
- Excellent structural strength and durability
- Possible to install in both existing stations and new stations

## ▶ Top Support / Hanger Type



Fixed Engineering/Construction Structure Beam

Screen Doors are installed by assembling horizontal brackets with the platform ceiling or structures in the upper part of the platform

- Allow flexible space design by providing wide sight without vertical columns
- Provide safe and quick open/close control method by using an enhanced motor and an electromagnetic lock



**Full-Closed Type**  
Structure of perfectly dividing the platform area and the railway area by screen doors



**Semi-Closed Type**  
Structure of dividing into the platform area and the railway area by screen doors but there are space between the upper part of the screen doors and the ceiling open



**Half Height Type (APG)**  
Half height type screen doors aligned with the location of train doors

## ▶ Performance Comparison among types

	Full-Closed Type	Semi-Closed Type	Half Height Type
Train wind, fine particulates, noise cancellation ratio	★★★★	★★	★
HVAC Effect, Energy Efficiency	★★★★	★★	★
Comfortability, Safety	★★★★	★★	★
Easy construction	★★★★	★★	★★★
Targets	New underground station buildings	New ground station buildings, Existing station buildings	Underground station buildings, Ground station buildings, Existing station buildings (in case difficult to install supporting beams)

# We do the dedicated design service, in collaboration with your requirements.

## ▶ Aluminum Type



- High strength aluminum used for the first time in Korea and use environment-friendly substances having touching and aesthetic patterns
- Advanced design with Door Open Lamps on door columns



## ▶ Stainless Steel Type



- Elegant design better than the conventional mechanic and rigid design by applying color frames to the upper and lower parts of Header Box



## ▶ Installation records of Hyundai Platform Screen Doors



Seoul Metro Line 4



Seoul Metro Line 2



Incheon International Airport Railway



Gwangju Subway Line 1

## Performances of Hyundai PSD

GwangJu, Line 1, Geumnamno4-ga, 1 station	2003. 10	Completion	DaeGu Line 2, DaSa, DaeSil, 2 stations	2005. 2	Completion
Seoul Metro Line 2, Yong-Du, 1 station	2005. 10	Completion	Seoul Metro Line 1, DongMyo, 1 station	2005. 12	Completion
Seoul Metro Line 2, 6 stations	2006. 6	Completion	Seoul Metro Line 3-4, 2 stations	2006. 4	Completion
DaeJeon Line 1, 22 stations	2006. 12	Completion	Seoul Metro Line 2-4, 2 stations	2007. 11	Completion
Airport Express Phase 1, 6 stations	2007. 1	Completion	Airport Express, Phase 2, 4 stations	2010. 12	Completion
Seoul Metro Line 1-4, 12 stations	2008. 1	Completion	GwangJu Line 1, SangMu, 1 station	2008. 6	Completion
InCheon Line 1, Bupyeong, Incheon-Terminal 2 stations	2008. 7	Completion	InCheon Line 1, 2 stations	2009. 3	Completion
Seoul Line 9, Phase 1, 24 stations	2009. 5	Completion	SinBunDang Line, 6 stations	2011. 9	Under Construction
DaeGu Line 1-2, 4 stations	2009. 10	Completion	Seoul Metro Line 1, 22 stations	2009. 12	Completion
KORAIL Line 1, 19 stations	2010. 12	Completion	Seoul Metro Line 1, 15 stations	2009. 12	Completion