



## GENERAL INFORMATION

The ASM Person Stage Lift (PSL) enables smooth vertical movement of people. Designed for mobile use, it can be installed from above or below the stage, adapting seamlessly to different setups. When installed from above, the lift is free-hanging on the stage floor, fitting securely into an opening with a stabilizing frame. It can be quickly positioned or removed using standard rigging equipment such as chain hoists, scenery bars or point hoists. The platform, suspended by steel bands and pulleys, offers quiet and precise lifting—thanks to ASM’s pioneering steel band technology. Inside, a redundant drive system integrates two motors, two gearboxes, two independent theater brakes, two encoders and a load cell, for maximum safety and reliability. The PSL is equipped with four steel bands and guided-pulleys, to ensure smooth and controlled lifting of the platform.

The PSL features a modular enclosure with three easily mountable safety walls and a front door. The walls hang securely from the frame, eliminating the need for additional mounting. This modular design allows for quick assembly, easy storage, and versatile usage options.

## APPLICATIONS

- Suited for a wide range of applications such as theatres, operas, auditoriums, concert halls, multipurpose venues and more

## FEATURES

- Durable load bearing lines, made of 4 steel bands
- Silent and accurate operation
- SIL3 ready, and can be coupled with a SIL3 control, such as ASM GENESIS SIL3 control
- Redundant drive with two gearboxes and two motors, each with their brake and encoder

## REGULATIONS

- DGUV V17/18
- EN 17206
- SIL3 (if supplied with ASM control)

## PSL RANGE

	Speed	Capacity on platform
PSL	1,2 m/s	250 kg/m <sup>2</sup> dynamic 500 kg/m <sup>2</sup> static

# PERSON STAGE LIFT V.II



## TECHNICAL DATA

MODEL	PSL – 1,5 m <sup>2</sup> - 1,2 - SIL3 Without PowerPack	PSL – 1,5 m <sup>2</sup> - 1,2 - SIL3 - GSG With PowerPack
Type	PSL – 1,5 m <sup>2</sup> - 1,2 - SIL3	PSL – 1,5 m <sup>2</sup> - 1,2 - SIL3-GSG
Regulation	DGUV 17 (before BGV C1), EN 17206	
SIL Level	SIL3 ready	SIL3
Capacity on platform	250 Kg/m <sup>2</sup> dynamic, 500 kg/m <sup>2</sup> static	
Max Travel of Platform	5 m	
Max Speed	1,2 m/s	
Variable Speed	Yes, depending on control	Yes
Duty Cycle	Up to 80% / 50 Hz	
Noise Level	Approx. 55 dBA	
No. of steel bands	4	
Load Bearing Line	Steel band 30 x 0,5 mm	
Load Carrying Equipment	Platform	
Installation method	Free-hanging on stage floor or mounted underneath the stage	
Safety System	2 independent theatre brakes	
Gearbox Type	2 gearboxes	
Gearbox Design	Flat gear	
Gearbox Safety	2 x nominal torque / 400h lifetime	
Motor Type	2 x noise reduced asynchronous motor	
Motor Performance	Redundant climbing drive 8 kW (2 x 4 kW)	
Limit Switch	4 track (Stromag) DGUV V17 (2 x operational limits + 2 x absolute limits)	
Encoder System	2 x absolute encoder (SSI Interface)   2 x incremental encoders (SSI interface)	



ASM Steuerungstechnik GmbH  
 Otto-Lilienthal-Straße 14 · 33181 Bad Wünnenberg-Haaren · Germany  
 Phone: +49 2957 985110 · Mail: info@asm-stage.de · www.asm-stage.de

Note: Specifications subject to change without notice. ASM shall not be liable for any inaccuracies or omissions which may occur therein.  
 GTC apply. commercial register HRB235. magistrates court Paderborn. DS/PSL/EN/23102025  
 ©ASM Steuerungstechnik GmbH.

# PERSON STAGE LIFT V.II



## TECHNICAL DATA (CONTINUED)

MODEL	PSL – 1,5 m <sup>2</sup> - 1,2 - SIL3 Without PowerPack	PSL – 1,5 m <sup>2</sup> - 1,2 - SIL3 - GSG With PowerPack
Type	PSL – 1,5 m <sup>2</sup> - 1,2 - SIL3	PSL – 1,5 m <sup>2</sup> - 1,2 - SIL3-GSG
<b>Load Sensing (total load)</b>	2 x Load cells   4-20 mA   SIL3	
<b>Hoist Control Type</b>	Not supplied	ASM GENESIS SIL3
<b>Position of Hoist Control</b>	Not supplied	External, ASM PowerPack
<b>Control Equipment</b>	None	GENESIS SIL3 PowerPack 15 kW with ASM TWINCORE SIL3 axis card, E-stop management and frequency inverter (16 kHz), including 2m multi-pin connection cable (Harting)
<b>Cable Interface</b>	ASM standard connector interface (Harting) integrated into wall, cable management integrated into wall	ASM standard connector interface (Harting) integrated into wall, cable management integrated into wall
<b>Main/Motor Supply</b>	U1 / V1 / W1 / PE (400 V 50/60 Hz)	3 PH / N / PE (400 V 50/60 Hz) via external ASM PowerPack
<b>Power Cable</b>	Not supplied	1,5 m CEE 5 PIN-32 A
<b>Dimension HxWxD</b> Without external PowerPack	Depending on project	
<b>Weight</b> Without external PowerPack	Depending on project	
<b>Including</b>	Documentation	
	3 side walls	
	1 side wall with door	
	1 wood plate on platform	
	Genesis SIL3 PowerPack	
	1,5m power cable with CEE 32 A, 5 pin plug	

## OPTIONS

- Second door
- Camera monitoring
- Inside blue light illumination
- Windows
- Speak through slots
- Platform size up to 2m<sup>2</sup> at speed 0,8 m/s



ASM Steuerungstechnik GmbH  
 Otto-Lilienthal-Straße 14 · 33181 Bad Wünnenberg-Haaren · Germany  
 Phone: +49 2957 985110 · Mail: info@asm-stage.de · www.asm-stage.de

Note: Specifications subject to change without notice. ASM shall not be liable for any inaccuracies or omissions which may occur therein.  
 GTC apply. commercial register HRB235. magistrates court Paderborn. DS/PSL/EN/23102025  
 ©ASM Steuerungstechnik GmbH.