

## USER MANUAL HIGH SPEED DOOR HSC704A



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The Normstahl brand has been a reliable partner and producer of premium entrance systems for the private and industrial sector since 1946. In collaboration with its network of distribution partners, Normstahl has become a leading provider of entrance solutions within Europe.

# About this Manual

## Purpose of user manual



*All users and owners of the high speed door must read, understand and obey the information and instructions in this manual. Failure to do so may result in damage to, or failure of the equipment, and possible injury to persons.*

This manual contains information and user instructions for a high speed door. When information or instructions are applicable to all the methods of operation or models, there are no operation types or model numbers in the title. When information or instructions are applicable to specific methods of operation or models, the applicable operation type or model numbers appear in the title.

# Contents

Copyright and Disclaimer Notice.....	2
About this Manual.....	3
1 General instructions.....	5
2 User instructions.....	6
2.1 Buttons.....	7
2.2 Optional device - manual operation.....	7
3 Applications.....	8
4 Sound pressure.....	9
5 Warranty and liability.....	10
6 Cleaning instructions.....	11
7 Maintenance, every 6 months.....	12
7.1 Maintenance plan.....	13
8 Reinsert the curtain.....	14

# 1 General instructions

Carefully read the safety instructions and the manual before starting any work. Warning notices refer to dangers to the life and health of people or to the machine, equipment or the environment. The notices applied directly to the door must be followed and kept in legible condition.

The description below uses symbols to draw the reader's attention to the various dangers and to provide useful advice.



*Indicates a potential danger to persons. Take all possible precautions against risks associated with working with electrical materials, it may have power connected.*



*Follow exactly; ignoring this advice can cause a fault or a dangerous situation.*



*Important information.*



*May only be performed by a technician who is authorized to operate a forklift.*



## 2 User instructions



### GENERAL SAFETY PRECAUTIONS

*This user handbook is an integral and essential part of the product and must be delivered to the users. Keep this document and pass it on to any future users.*

*This automation is a “vertical-roll door”; it must be used for the specific purpose for which it was designed. Any other use is to be considered inappropriate and so dangerous. Normstahl declines all responsibility for damage caused by improper, incorrect or unreasonable use.*

*The device may be used by children over the age of 8 and by people with reduced physical, sensory or mental abilities, or lack of experience or knowledge, as long as they are properly supervised or have been instructed in the safe use of the device and the relative hazards.*






*Cleaning and maintenance work must not be carried out by children unless they are supervised.*



### USE PRECAUTIONS

- *Do not enter the door action area while the door is moving.*
- *In the event of a fault or malfunctioning, turn off the main switch. The operations of maintenance, adjustment and repair must be carried out by skilled and authorized staff.*
- *Each automation has its own “Installation and Maintenance handbook”, reporting the periodical maintenance plan. Please take care to check all the safety devices.*

## 2.1 Buttons

		<ul style="list-style-type: none"><li>Full opening: the door opens completely. The stroke can be fixed via the end stop microswitch.</li></ul>
		<ul style="list-style-type: none"><li>Partial opening: the door opens partially, to a point time-regulated by the RP trimmer.</li></ul>
		<ul style="list-style-type: none"><li>STOP: the door stops immediately.</li></ul>
		<ul style="list-style-type: none"><li>Closing: the door closes completely. The stroke can be fixed via the end stop microswitch.</li></ul>

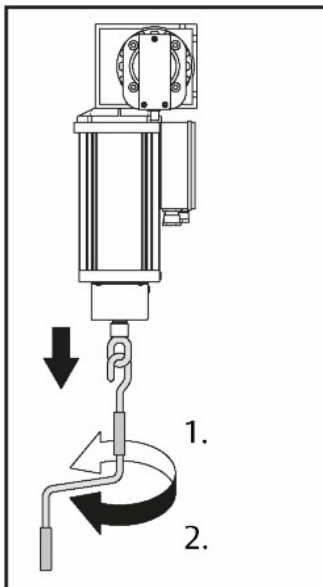
## 2.2 Optional device - manual operation

The device is an option and it is not delivered with the door if not ordered.



*Do not leave the manual operation rod hanging on the ring during normal door operating. Use the special wall-mounted fastening clip.*

To manually raise the curtain in the event of a power failure or fault, raise the curtain to the “open door” position, as shown in the illustration, 1 = Close, 2 = Open.



# 3 Applications

Use minimum 5 years of working life with 300 cycles a day.

Applications: INTENSE (for industrial and commercial access with intense use).

- Service class, running times, and the number of consecutive cycles are to be taken as merely indicative having been statistically determined under average operating conditions, and cannot therefore be applied to each individual case. Reference is to the period when the product functions without the need for any extraordinary maintenance.
- Independent variables such as friction, balancing and environmental factors may substantially alter the lifespan or performance characteristics of the automatic access or parts thereof (including the automatic systems). It is the responsibility of the installer to adopt suitable safety measures for each single installation.



## **4 Sound pressure**

Sound pressure level  $L_{Pa} \leq 70$  dBa.

## **5 Warranty and liability**

Warranty claims will only be taken into consideration if the door was being operated and treated correctly.

In the event of unauthorized repairs and modification to the construction and the operation of the door, the warranty will be invalidated.

This rule also applies to damage resulting from defects that are the consequence of not observing the operating instructions or of inadequate maintenance of the door.

## 6 Cleaning instructions



*Do not use the door leaf or the side columns to support a ladder when you do maintenance on a door. Always use ladders as specified in local health and safety instructions.*

*Do not use a high pressure water hose to clean the door.*



*Never use solvents or sharp objects to clean the door panel.*

- Use a soft clean brush and mild detergent to clean the inside and outside of the door leaf.
- Use  $\leq 40$  °C cleaning liquids or warm water to clean the doors.
- Avoid the presence of abrasive material in the cleaning liquid.

If damage is found, contact the local service center for repairs.

## 7 Maintenance, every 6 months

Carry out the maintenance every 6 months.

Regular inspections should be made according to national regulations and product documentation by a dealer service technician. The number of service occasions should be in accordance with national requirements and with the product documentation.

### Safety Devices

- Check the correct operation of the safety device Linear Encoder (SLE).
- Check the correct operation of the safety photocells.

### Side guides

- Check the guides wearing and the relevant curtain sliding.



*Do not lubricate! The blue side guide is self-lubricating. Applying grease or lubricant can cause the system to malfunction.*

### Installation / Fitting

- Tighten the fitting screws of the uprights with the crosspiece.
- Check the anchoring of the door to the door frame.

### Motor

- Check the fixing of the motor to the relevant support.
- Check if encoder is working and its battery level.
- Check the brake disc wearing. If necessary replace the disc.
- Check motor silent block operation and integrity.

### Main Shaft

- Check the good bearing supports fixing.
- Lubricate the support of the bearings by suitable grease inlet.

### Zipper status

- Check wearing and cleaning of the zipper.

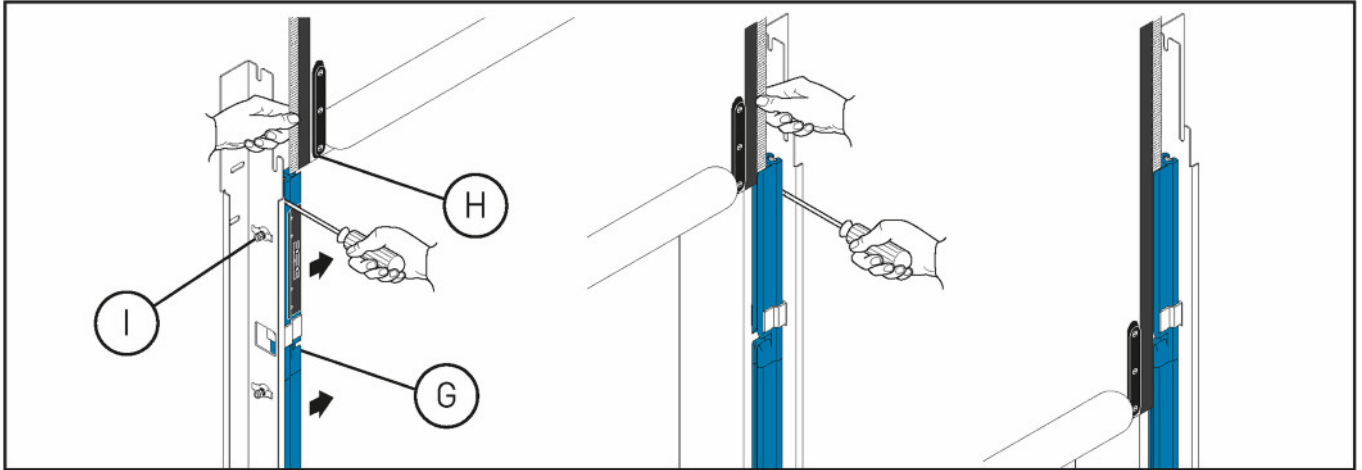
## 7.1 Maintenance plan

The table below shows the recommended interval - in months - when to replace parts during preventive maintenance.

Part	Part number	Cycles / hour operation			Abusive Environment (1)
		<10 Low Traffic Months	<30 Medium Traffic Months	>30 High Traffic Months	
Brake disc	622337	36	24	12	12
Upper guide	29448ARR 29448ARL 29448B	48	36	24	24
Lower guide	BGBST	48	36	24	24
Guide compensation spring	KSPRING	36	24	12	12
Lens group and spacer for SLE	6GLSLEC	36	24	12	12
Motor silent block	5AV402510	48	36	24	24

(1) Dirty or dusty environment, operating temperature near to 0°C or over 35°C, wind pressure within 20% of maximum limit.

## 8 Reinsert the curtain



- Close the upper part of the plastic guides (G) by pushing on the outer side.
- Insert each tooth side edge (H) of the curtain in the relevant guide, if necessary to make easier the operation remove the higher screw (I).
- Roll down the curtain so the bottom edge is 0.5 m beneath the curtain inlet slot.







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