Pioneering Automatic Door Technology Since 1956

About NABCO

NABCO has been pioneering the creation and development of automatic doors since 1956.

Japan's leading name in the industry, the NABCO brand is characterized by uncompromising quality, reliability and service.

It has earned a reputation as a premium supplier of automatic doors and pedestrian flow solutions.

The choice of the world's most celebrated architectural sites,

NABCO provides premium entrance systems for commercial and professional applications on a global scale.

Member of the Nabtesco Group

NABCO is a member of Nabtesco Corporation, specialists in motion control technology and services for high precision, challenging and mission critical systems for a wide variety of industrial sectors, including land, air, marine, transportation, energy and more.



All specifications herein are subject to change without notice

CAT.No. D588 0800 1403 00SE

Nabtesco Corporation

Accessibility Innovations Company

Address : JA Kyosai Bldg., 7-9, Hirakawacho 2-chome, Chiyoda-ku, Tokyo, 102-0093, Japan : +81(0)3-5213-1157 Phone : +81(0)3-5213-1173 Fax http://nabco.nabtesco.com/english/

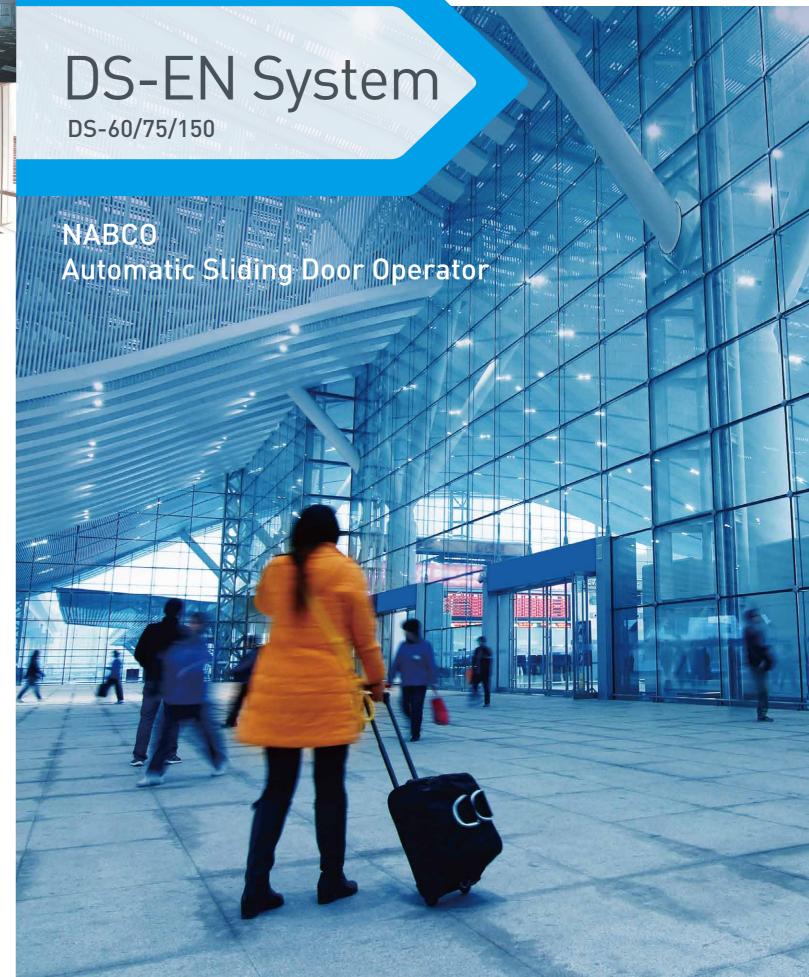


IS09001 / IS014001 Certified

For further details, contact:

DS-60/75/150

NABCO





Pedestrian Flow Solutions

Whatever the location or challenge, NABCO can bring its extensive
engineering knowledge and technological expertise to bear
in the ideal pedestrian flow solution.
For any conventional or unique professional application,
we work to create the ideal environment that ensures safety,
convenience, energy-savings and optimum hygiene,

and to provide a dedicated maintenance and ongoing support service.



DS-EN feature introduction

The DS-EN automatic door operators represent NABCO's latest models. While retaining high quality and high functionality in which NABCO has long taken pride, the DS-EN series is more simple and user friendly from viewpoint of installers and end-users.

Benefits

- Excellent durability and compact design
- ✓ Equipped with a brushless motor featuring a hypoid gear
 ✓ Equipped with a stainless steel rail track
- Cleared 1 million cycles endurance test
- Selection of operator model suitable for door weight
 Three models available depending on door weight.
- Ease of installation
- ✓Easy wiring
- $\checkmark \mathsf{Reduced}$ number of components

Applications

- The DS-EN series can be used for indoor and outdoor entrances of hospitals, airports, malls, offices, etc.
- Can be used for entrances subject to heavy traffic to allow pedestrians to pass through in safety and comfort



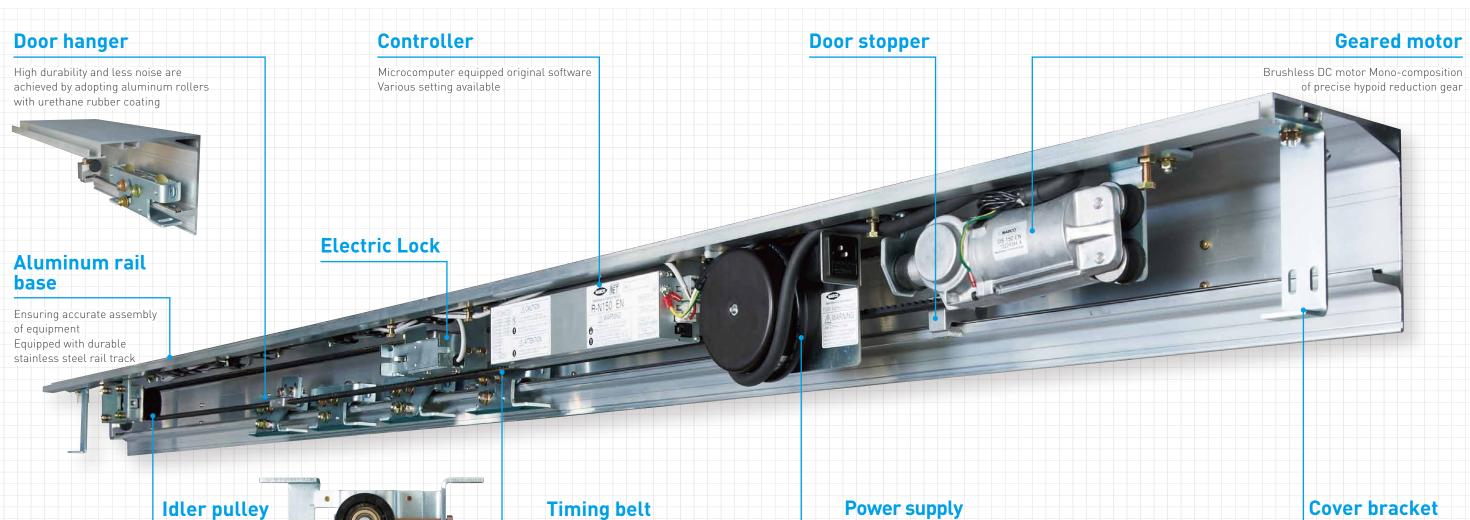


Directives & Standards

```
    ✓ CE
    ✓ EN 16005

            (EN ISO 13849-1 / EN 60335-1/-2-103 / EN 61000-6-2,-3)
            ✓ JIS
```

DS-EN Details



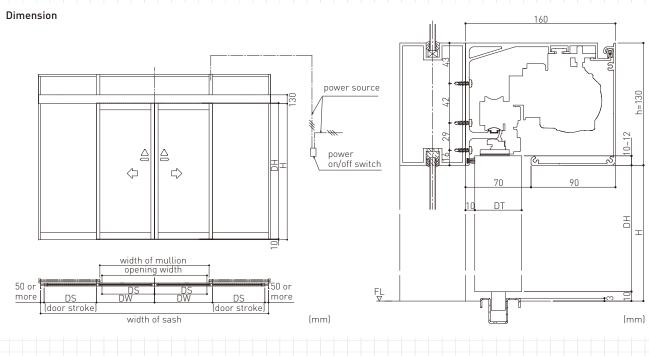
with low noise

Idler pulley

with spring tensioner



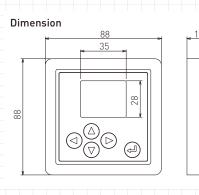
Specification						
Door Operator Type	DS-60		DS-75		DS-150	
	Single	Bi parting	Single	Bi parting	Single	Bi parting
Applicable Door Mass×Door Qty (kg)	75	60×2	100	85×2	120	120×2
Applicable Door Area DW×DH (m2)	2.2	1.8	2.8	2.6	3.3	3.0
Applicable Door Width DW (mm)	650~1250					
Ratio of Door Height / Width (DW/DH)	4.0					
Operator box height×width H×W (mm)	130×160					
Power Supply	230VAC+6/-10% 50/60Hz					
Power Consumption (W)	max. 2	max. 200 [W] max. 290 [W]		max. 330 [W]		
Opening Speed (cm/s)	10~70					
Closing Speed (cm/s)	10~70					
Hold Open Time (s)	0~50					
Maximum Endurance Wind Speed (m/s)	15					
CAN BUS (NET System)	\checkmark					
Signal output	√ (two)					
12V output for external accessory	√ (700mA)					
Door status output	\checkmark					
Output of error with description	\checkmark					
Interlocking system	\checkmark					
Output for electric lock	\checkmark					
Manual lock release mechanism	\checkmark					
Connection for safety sensors	\checkmark					
Adjustment of door open/close controll via advanced program switch with full color display	\checkmark					





APS-N20 **Program Switch**

The program switch incorporates a color LCD offering excellent visibility for switching the automatic door mode, changing the parameter set values, and performing other tasks. Two types of pass codes are programmable to provide different levels of pass to different users. In addition, the color LCD screen allows the installer to check information related to malfunctioning parts and operation history, making maintenance and troubleshooting easier.





Operation mode

Five modes of automatic door operation can be selected by the end-users (Auto, Hold Open, Manual, One Way, and Night). Furthermore, the position of the door opening can be configured at two levels (full open and partial open).

[mm]



SPEED&TIME

OP.SPEED

CL.SPEED

OP.TIMER

50

20

5

Parameter change

This function allows the installer to change parameters such as Door Opening/Closing Speed, Hold Open Time.

Error and operation history

These functions allow the installer to check information such as malfunctioning parts in case of error and operation history such as opening and closing cycles.

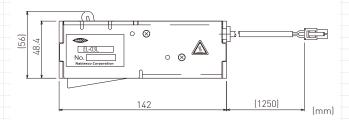
ERROR	3/4
NO LOAD	
THERMAL	

=>FULL OP. Y

EL-03U/L Electric Lock

This electric lock enhances the usability of the door together with the APS-N20. When "One Way" or "Night" mode is selected as the operation mode, the electric lock allows the end-user to easily lock the door. Two types of electric locks—EL-03U(Unlock at power off) and EL-03L(Lock at power off)—are available.

Dimension



OA-220CN T Sensor

OA-220CN T is an active infrared transom sensor that combines both safety and activation. Three colors of sensor covers (Silver, White, Black) are available.

Dimension

Specification

Detection method

Detection object

Mounting height

Detection area

Current consumption



Active Infrared Reflection

W 2.78m×D 1.9m (at mounting height 2.2m)

Motion / Presence

Max. 3.0m

less than 4W

Motion / Presence detection Motion detection

(mm)

De	te	с
А		
В		
С		
D		
Е		
F		
G		
11		

Τ

ERROR	3/4
NO LOAD	
THERMAL	
ENCODER	
MOTOR	

