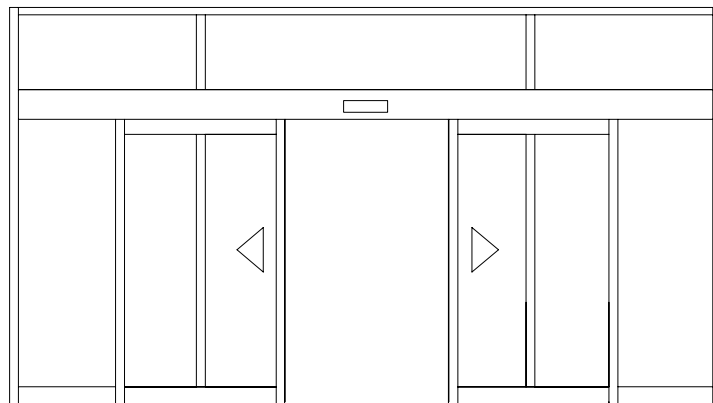


# HI-PASS 사양서

Automatic sliding door drive

Model : HPS-153G



Planner Manual

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## **적용범위 (Areas of application)**

- Office buildings
- Public buildings
- Chemists' premises
- Banks
- Hotels and restaurants
- Administration buildings
- Hospitals
- Care homes for the elderly or handicapped
- Airports and railway stations
- Car show rooms
- Industrial buildings
- Draught lobbies
- Home Automation for Apartment
- Shopping Center

## 제품 특징(Product Feature)

**HPS-153G: for architects, planners, inventors, and operators**

- **안 전 기 능 (Safety Mechanism)**
  - 닫힘시 충돌력 (Low-closing force) < 150N(15kg 미만)
  - 반전 정지거리 (Shortly return distance) < 80mm 미만
  
- **정 속 성 (Silence & smoothness Mechanism)**
  
- **안 정 성 (Stability Mechanism)**
  
- **취급 용이성 (Easy selectable operating Mechanism)**
  
- **설치 및 유지보수 용이성 (Easy installation Mechanism)**
  
- **간 편 성 (Compact design)**
  
- **경 제 성 (Economically)**

## 제품 사양 (System Description)

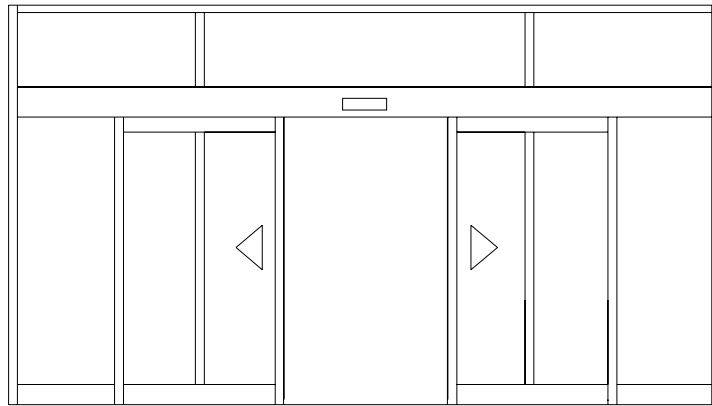


Fig.1: 양개형(Double leaf)

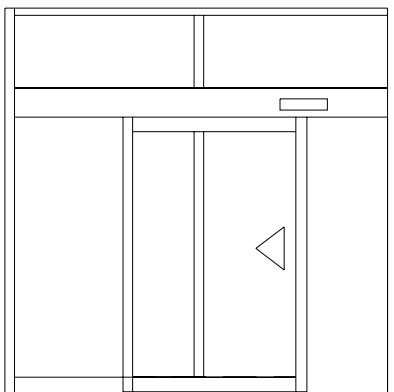


Fig.2: 편개형(Closing to the right)

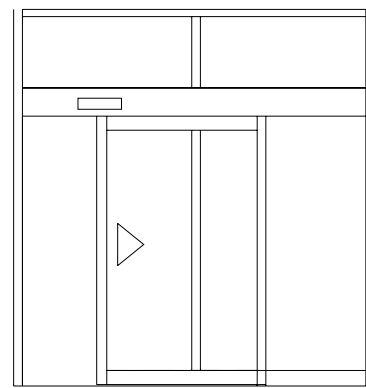


Fig.3: 편개형(Closing to the left)

### 도어의 형태 (Types of door leaves)

- Glass doors consisting of insulated with slim frame
- Doors with timber, metal or aluminum frames
- Frame less insulated glass doors

**사 양 (Technical data & operating conditions)**

- **최대중량 (Door leaf weight):** Single-leaf: up to 120kgs  
Double-leaf: up to 2\*80kgs
- **최대열림폭 (Opening width):** Single-leaf: 600-2000mm  
Double-leaf: 1000-3000mm
- **최대높이 (Door leaf height):** max. approx.: 3000mm
- **열림속도 (Opening speed):** up to 0.65m/sec.×2
- **닫힘속도 (Closing speed):** up to 0.4m/sec.×2
- **열림대기시간 (Opening hold time):** 0 ~ 60sec
- **전원 (Power supply date):** Mains voltage: 단상 220V, 60 Hz  
Power consumption: max.120W  
Fuse protection: min. 3,5A slow-acting
- **사용환경 (Environmental conditions):**  
Temperature range: -15° to +50° C  
Humidity range: up to 85% rel. humidity, non- thawing

## Drive

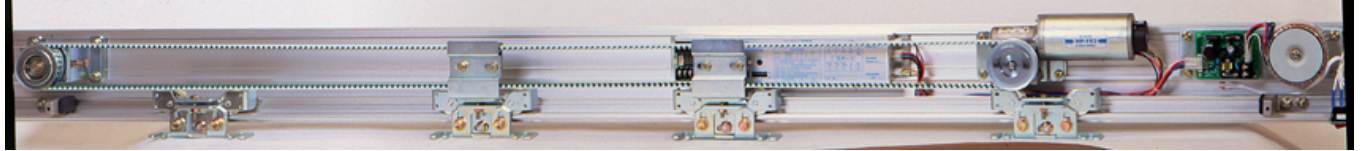
- Minimum space requirement: 200mm high, 125mm deep  
최적의 설치공간
- Low-wear, high-capacity DC-motor (DC90W)  
유럽 유명제품과 동일한 고품질 모터적용 (Made in Germany)
- Extremely Quite-running, enclosed running gear  
고효율과 정숙한 기어 감속기 채택
- Power transmission via Urethane toothed belts,  
urethane rollers in precision bearings  
내마모성이 우수한 우레탄 벨트와 정숙한 특수 우레탄 롤러 적용
- Leaf weight distributed evenly by two urethane rollers  
in the track profile  
하중 분산을 위하여 2 개의 롤러 구조와 고강도의 레일 적용

## Control

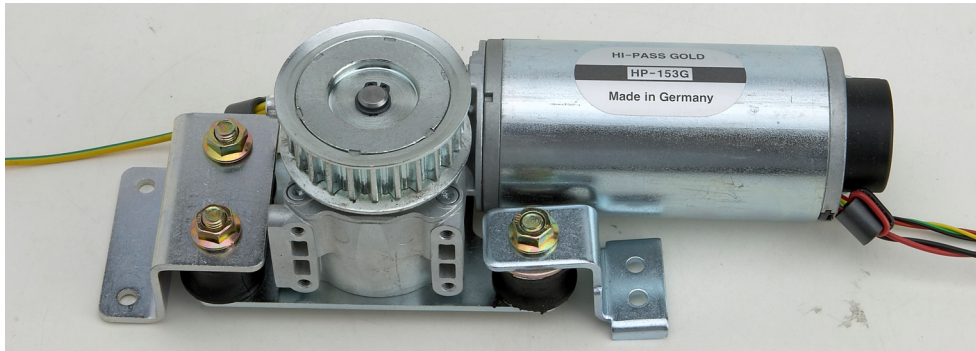
- Self-learning intelligent processor control  
자기진단기능의 인공지능형 제어시스템
- Proportional integral differential control ( P.I.D )  
비례수치제어에 의한 고 신뢰성의 콘트롤러
- Permanent position sensing of door leaves by means of  
non-contact distance measuring system  
실시간 거리 및 위치 제어에 의한 안전성을 극대화 시킨 제어 시스템
- Determination of door leaf weight by means of acceleration  
meter 도어 중량에 따라 최적의 상태로 운전하는 제어 시스템
- Adjustable hold-open time (max. 60sec.)  
용도에 따라 최적의 열림 대기시간 설정이 용이한 시스템
- Automatic error detection  
자동적으로 이상 발생시 이상 유무 인식 기능
- Error indication  
이상 상태를 형태별로 표시 기능 내장으로 유지 보수가 용이

## 제품 구성(Components)

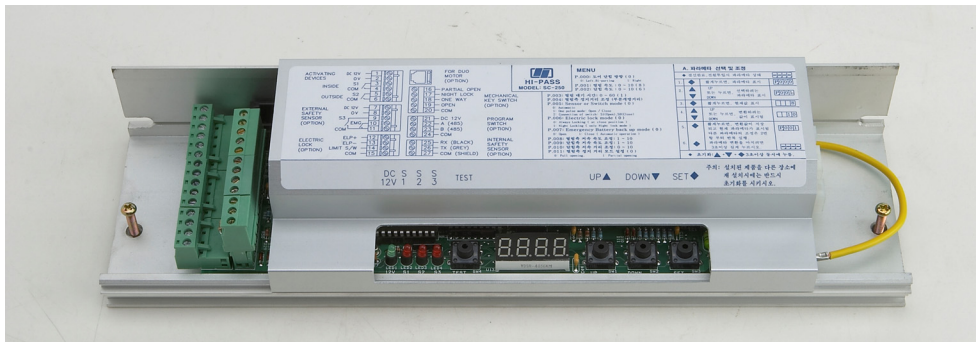
### ■ 제품 구성



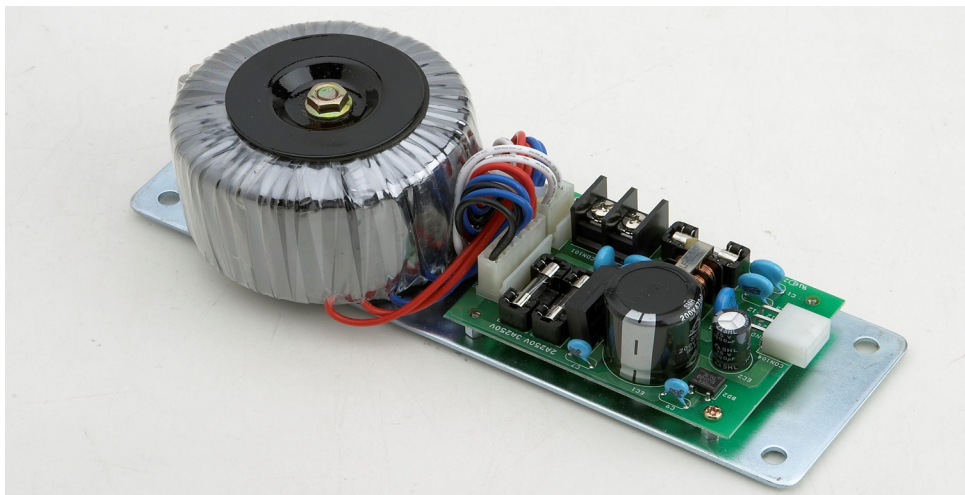
#### ■ Motor unit (Model: GR63\*55 by Dunkermotoren)



#### ■ Controller unit (Model: SC-250 by D&G KOREA)

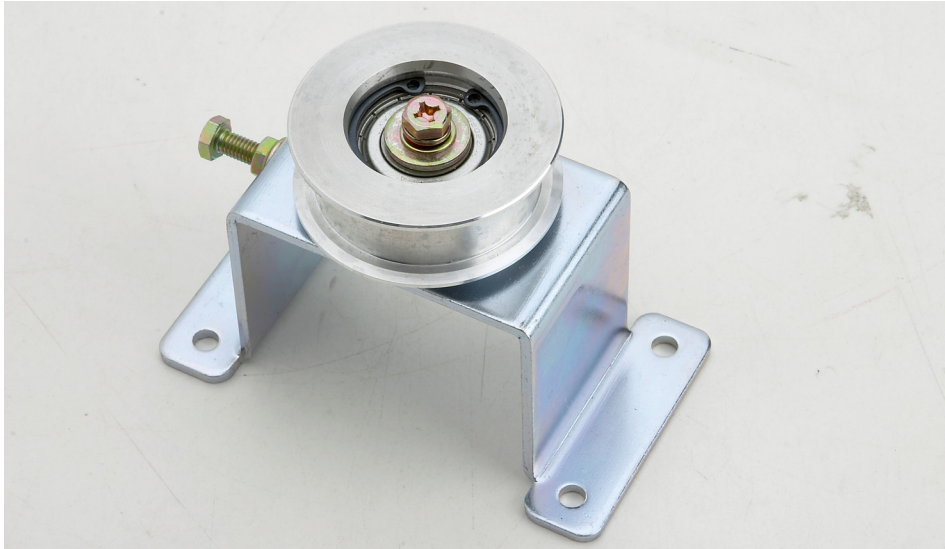


#### ■ Power unit (Model: TR90)





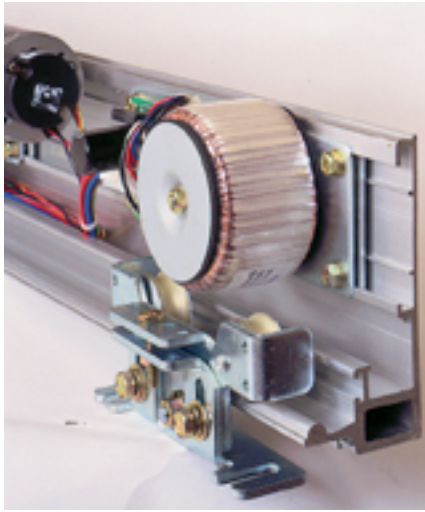
■ Idle pulley unit



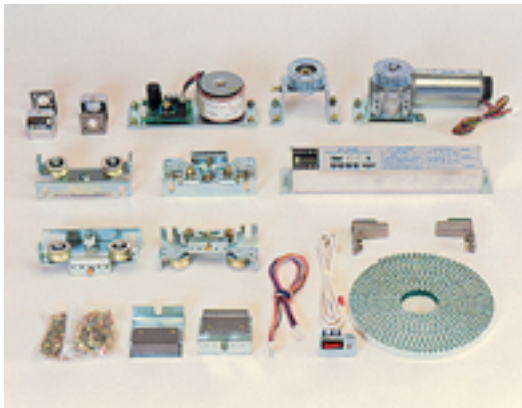
■ Door hanger unit (특수 이중우레탄 롤러)



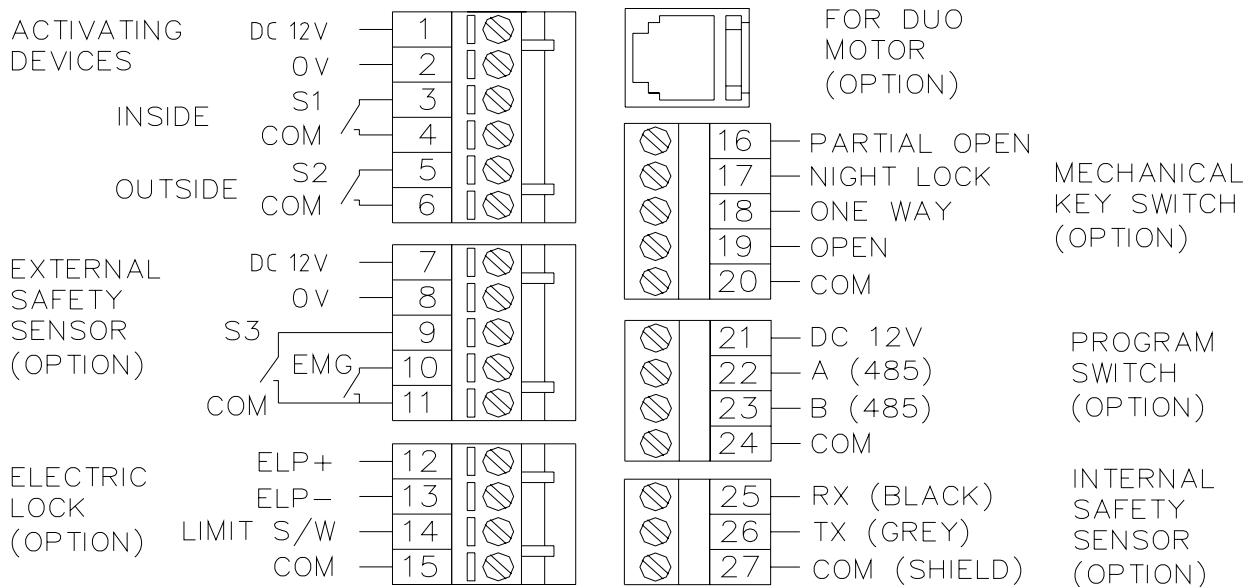
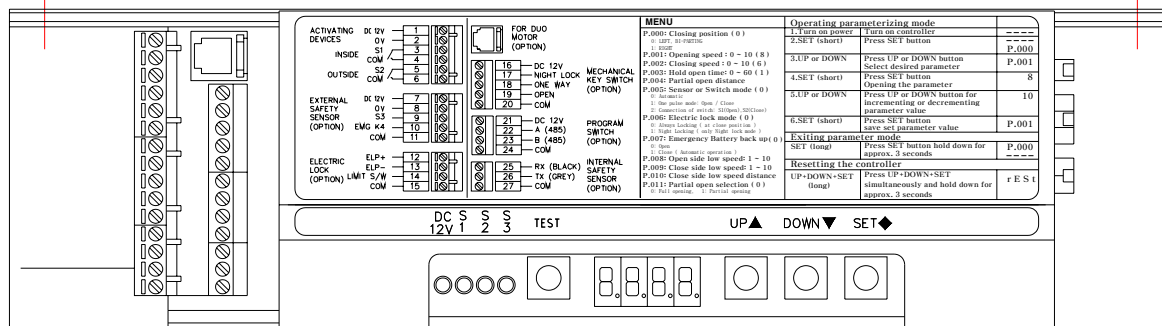
■ Aluminum profile (큰 단면계수 구조의 알루미늄 레일)



■ Accessories



Control elements / Actuation devices



\* The door system may only be operated if all safety relevant devices are installed and functional!

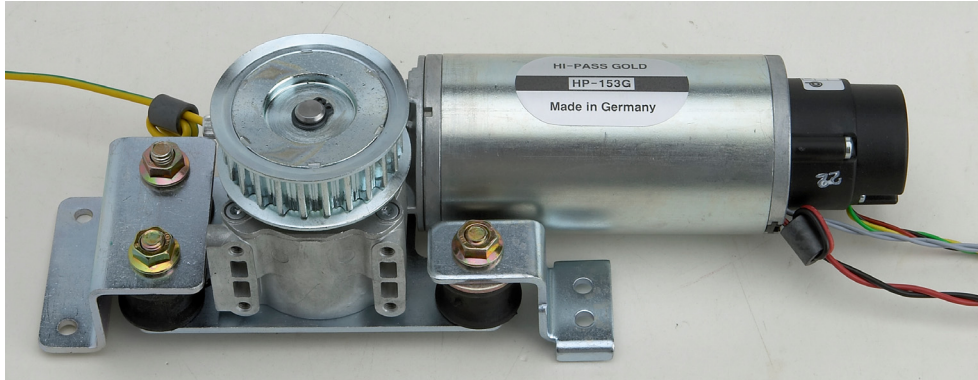
## **안 전 기 능(Safety Functions)**

- Closing force limited < 150N (15kgf)
- Safeguarding of passageway by means of photoelectric barrier (optional)
- Automatic reversing function. The door opens automatically, should it meet obstacle during closure
- Electric locking system at power failure unlocking (optional)

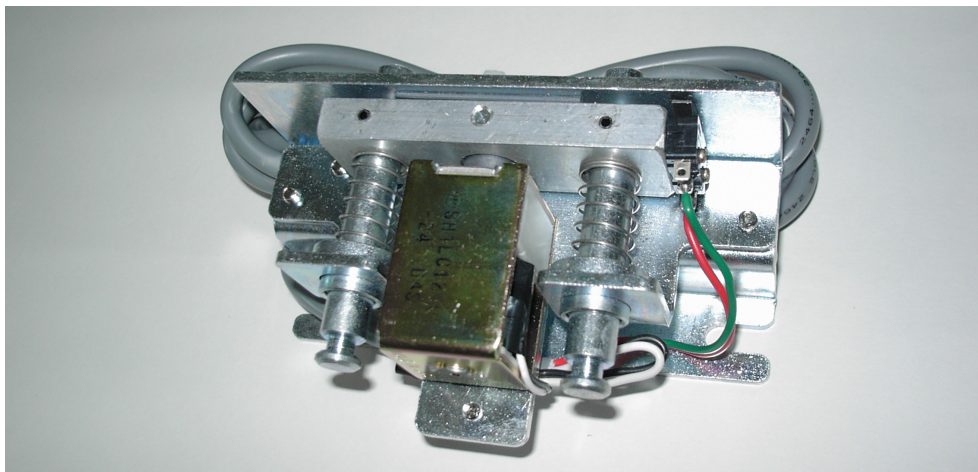
## 선택 사양 (Option)

- Options (Examples)

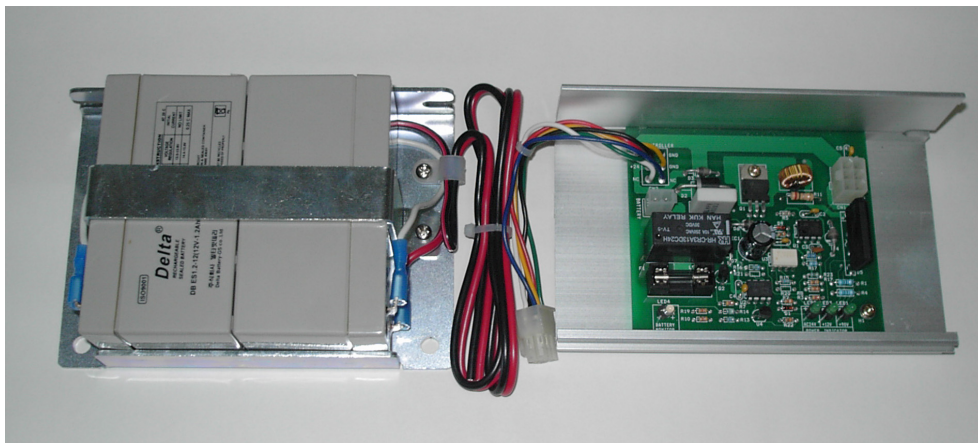
- Motor type electric locking system (DC24V)



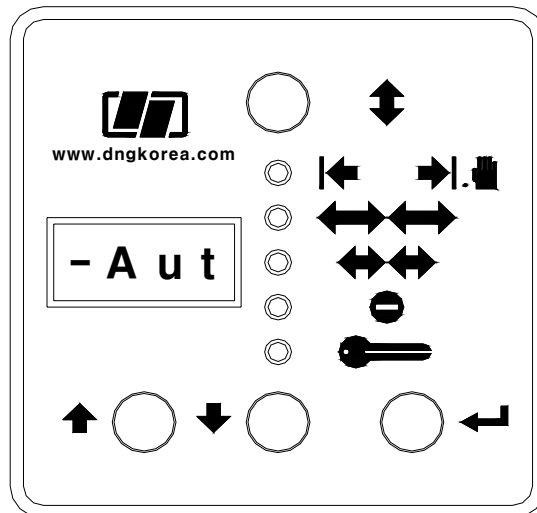
- Mechanical electric locking system (DC24V)



- Battery back-up system ( up to 30 minutes )



- **Program select switch**  
(Open, Automatic, One way, Night lock and Net work)



**The function of the sliding door can be adjusted via programme switch:**

**Permanently open:** The door opens to position OPEN and remains open.  
Movement detectors or opening pushbuttons are not active.

**Night Lock:** The movement detectors are inactive, the door close and is Secured by locking of the door leaves to prevent the door From being pushed open by force.

**One way:** The door opens and close only, if someone stepping out of the door. The exterior movement detector is not active, the interior movement detector is active.

- **Mechanical key switch system**  
(Open, Automatic, One way, Night lock)

**감지 장치의 종류 {Detection elements (Option)}**

- All know actuation devices can be connected e.g. :
  - Radar movement detectors
  - Infrared detectors
  - Photo cell (safety sensor)
  - Elbow contact switch
  - Code card reader, key-operated switch etc.