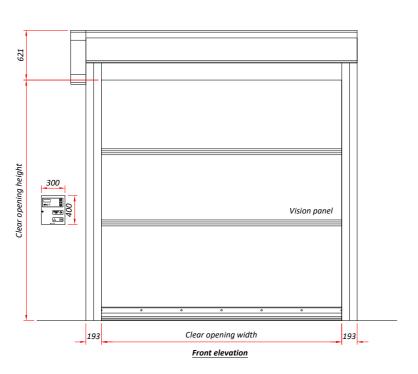
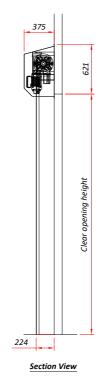
# V 1 0 . 6

#### Typical layout drawing

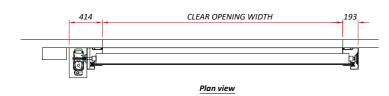




9

V 1 0.

SHE



#### **Features and Appearance**

#### **Performance Criteria**

Door applications	Cleanroom applications. Pharmaceutical production, Food manufacturing, Medical/ Biotechnology production, Electronics/ Semiconductor production, Aerospace/ Automotive production and Chemical/ Environmental Analysis	Door speeds	Variable speed of 1.m per second opening speed and .4 m/sec closing speed. Other door speeds are available up to 3.0m/sec opening.	
Safety options	Safety light curtain standard. Optional ex- tras include, optical touch sensitive safety bottom edge, safety photocells	Air Permeability	Depending on opening size and pressure differentials over the doorway for example: our test door achieved the follow-	
Colour availabil- ity	Grey, Yellow or Blue as standard. Other colours available on request		ing.	
Door sizes	Up to 4m x 4m			A:
Break away op- tions	Breakout bottom rail with manual reset.		Pressure <sub>am</sub> differential	<sub>ple:</sub> Air Leakage
Curtain options	Fabric thickness, Clear vision panels, logo / images on curtain.		15Pa	27m³/h
Stainless options	Stainless steel guide covers and hoods covers.		25Pa	42m³/h
Hoods	Provided as standard, Rounded edges / slopes to hoods optional.			

## DOOR SYSTEMS

#### **Hart Door Systems Limited**

Redburn Road Westerhope Industrial Estate Newcastle upon Tyne













#### **Speedor CLEANROOM**

Main features include; maintaining strict air leakage requirements over specified pressure differentials.; the intelligent control panel with digital display; the reliable and clean in-line drive system complete with integral safety brake; and a non-touch safety light curtain which ensures maximum protection to personnel.

Speedor's are UK designed and manufactured, backed by over 40 years' experience in high speed automatic energy saving doors. All Speedor models are all designed for frequent use in high traffic situations and low maintenance. The heavy duty construction is suitable for all door openings and will efficiently deliver performance for many years. Speedors comply with all required British Standards and Health & Safety requirements.



#### **Hart Door Systems Limited**

Redburn Road Westerhope Industrial Estate Newcastle upon Tyne







#### **Size Availability:**

All doors are made to measure to specific requirements. Maximum size available 4M wide and 4M high. Designed for internal use or openings with low or no required wind resistance.

#### Standards:

Manufactured to ISO 9001:2015 standard. The machinery directive safety in use for power operated doors, BSEN 12453 & 12444 and safety devices for power operated doors BSEN 12978. Requirements for the safe installation and use BSEN 12625.

#### **Fabric and Optional Vision Panel:**

2.5Kg sg/M multilayer heavy duty fabric constructed from textile with PVC coating and high frequency welded as appropriate,.

Optional Vision Panel is available in 1mm thick clear PVC welded into the curtain.

Curtain braces are fixed horizontally within a contrasting PVC pocket which add to visibility of the door system in operation.

Standard Curtain Colour:















#### Floor rubber seal:

Providing lowest possible pressure loss to a level floor.



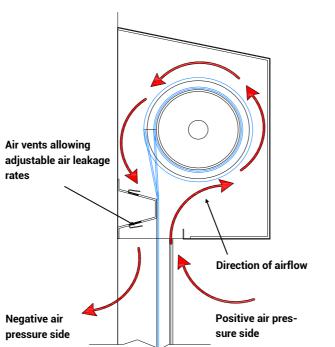
#### **Control panel:**

TS971 state of the art 24V controls includes open, close and stop buttons, wireless receiver, two programmable relays and 24V power supply. Compatible to control options including loop cards, radio control, traffic lights, wireless safety edges, pull cords etc. IP65 enclosure certified to BS EN 12453, digital display fault indication, operations cycle counter and programable door maintenance indicator. Option for air lock controls.

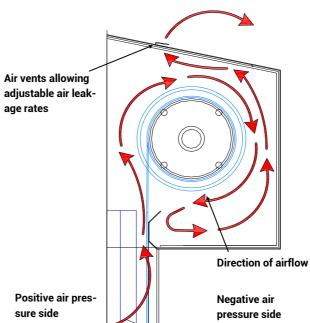
HANDS FREE OPERATION OPTION Ideal hygienic solution for the retail, pharmaceutical, chemical and healthcare sectors.



#### Speedor Cleanroom (Internal Type)



#### Speedor Cleanroom (External Type)



#### Adjustable Air-leakage

Each cleanroom door is designed with the capability of adjusting the air leakage rates using the integrated adjustable ventilation system.





#### **Door Activation:**

System operators are used to open the door including hands free. Any operators can be used individually or in conjunction with others. They can be used to exclude pedestrians, be a security barrier or open for all. Please Note: Major benefits come with full automatic door by providing efficient throughput of vehicles and staff whilst giving major energy savings and environmental improvements.

### **MADE IN** BRITAIN

DOOR SYSTEMS

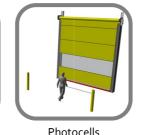
www.hartdoors.com info@hartdoors.com

Tel: UK: 0191 214 0404

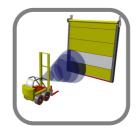


**Push Button** 

Induction Loop







Radio activated

#### **Motor Drive & Speeds:**

**Speedor Cleanroom** options: All drives are GFA Safedrive® hollow shaft units providing as high standard precision worm drives incorporating a safety brake and digital limits. Emergency operation via crank handle.

Power supply and speed options						
Power supply	Drive	Speed Up	Speed Down			
3 phase + N. 415V	Single Speed	0.66 mps	0.66 mps			
Single Speed 240v	Variable Speed	1.2 mps	0.66 mps			
Dependant on door size and specification						

#### **Safety Systems and HSE requirements:**

The standard door system includes a category D (exceeds E) safety light curtain within an IP67 enclosure which protects the required area of 2.5M in height from floor level to conform to BSEN 12453:2001 providing a contactless safety system.



Option: safe edge with radio wireless connection control to protect the entire opening if oversized transport with projecting booms, like diggers, use the opening.

Standard Safety **Light Curtain** 

Additional safety system options providing the ultimate in pedestrian safety via non-contact movement or movement and presence detection positioned on either side of the door.

Risk assessment is recommended for pedestrian use, evaluating volume, whether trained operatives or public using the door.

Further options include traffic or warning light and or Klaxons.

#### **Metal Hoods Covers and Infill's options:**

Barrel hood, motor hood and infills can be supplied as optional items depending on requirements. Available in stainless, galvanised or powder coated steel finishes.

#### **Optional Items:**

- Single or variable speed
- Clear vision panel
- Fabric colour/ weight option
- Barrel and motor cover
- Traffic or warning lights
- Airlock facility with other doors
- Low level hand chain
- Electric environmental upgrade
- Alarm if door left open after set amount of time.
- Audible warnings















