



Leading the way in the design, manufacture and installation of specialist industrial doors





Hart Door Systems established 1946 - the oldest British manufacturer of high-speed door and shutter is an engineering company that specialises in the design and manufacture of a wide variety of door systems relevant to the challenges of everyday business. Hart resolves many issues within the built environment as well as safety and security issues arising in many global sectors.

Hart's products are in daily use across countries world-wide in vital, economic, sectors such as aviation, energy from waste, infrastructure, food and beverage production as well as a host of manufacturing processes.



www.aub.com.hk



We focus on Commercial, Institutional, Industrial and Residential projects in Hong Kong and Macau.

AUB offers a wide portfolio of Products & Solutions including Automatic Doors, high-performance Windows and Entrance Doors, Security Gates, Industrial Doors, Access Control and Door Hardware & Ironmongery.

Service is our Value - we are supporting our customers with Design Development, Technical Advice & Customized Drawings, Ironmongery Schedules, Master Key Plans, Sourcing, Supply & Installation, Training and Service & Maintenance programs.

Key partners and suppliers include GILGEN Door Systems, EFAFLEX High-Speed Doors, HART Security Shutters, TESA Access Control, TBS Biometric Solutions, SAELZER high-security Doors, AIR-LUX Window Systems and SILBER Doors & Windows and many more.

Contents

Page

PRODUCTS

Product Overview	2 - 3
Typhoon Roller Shutter	4 - 5
Terrorscreen - Securing your assets	6 - 7
Roller Shutters - Delivering protection for industry, commerce and the public sector	8 - 9

PROJECT PROFILES

Waste	10 - 11
Infrastructure	12 - 13
Airports	14 - 15

Hart's Guarantee	16 - 17
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Product Overview



DOOR TYPE	DESCRIPTION	MAXIMUM STANDARD SIZE	STANDARD OPENING SPEED	STANDARD CLOSING SPEED	DATA SHEET
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TYPHOON SHUTTER PRODUCT RANGE

3000 pa Typhoon Shutter	Typhoon grade insulated roller shutter	8m x 4m	0.15m/sec	0.15m/sec	270
4000 pa Typhoon Shutter	Typhoon grade insulated roller shutter	8m x 4m	0.15m/sec	0.15m/sec	271

THE COMPLETE TERROR SCREEN PRODUCT RANGE

LPS1175: SR1	Security rated shutter	9m x 8m	0.15m/sec	0.15m/sec	240
LPS1175: SR2	Medium security rated shutter	9m x 8m	0.15m/sec	0.15m/sec	241
LPS1175: SR3	High security rated shutter	9m x 8m	0.15m/sec	0.15m/sec	242
LPS1175: SR4	Highest security rated shutter	9m x 8m	0.15m/sec	0.15m/sec	243

THE COMPLETE SHUTTER PRODUCT RANGE

Industrial Roller Shutter	Heavy duty shutter	8m x 8m	0.15m/sec	0.15m/sec	203
Insulated Roller Shutter	Environmental roller shutter	7m x 6m	0.15m/sec	0.15m/sec	207

OPTIONS

Compliance		Control	Power	Curtain	Protection			Safety	Fit		Fire Safety		Special	
Wind Resistance to 3000pa	✓	Automatic control panel	415V Three phase supply	Convex interlocking steel laths	Wind locking guides	Bottom rail rubber seal	Safety manual override	30-240 minute fire protection	Audio/visual warnings	ATEX version available	Galvanised/powdercoat/plastisol			
Wind Resistance to 4000pa	✓	Specialist control panel	230V Single phase supply	Steel twin skin interlocking lath	Wind locking guides	Wind resistance	Pedestrian safety systems	Fire release systems	Internal application		Stainless steel finish			
Machinery Directive 2008 26/42/EC	✓					Barrel and motor hood cover	Locking systems		External application					
Machinery Directive 2008 26/42/EC	✓					0.69w/m insulation hood cover								
Manufactured under ISO 9001:2015	✓					18db acoustic value across lath								
LPS 1056														
LPS 1271														
LPS 1175														

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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Typhoon
grade
up to 4000pa

**Insulated Typhoon
Roller Shutter**



Typhoon Grade Insulated Roller Shutter have been specially designed to suit customer requirements for applications under extreme weather conditions. They provide an ideal choice for distribution centers, warehouses or any facility with large openings in weather exposed locations.

This shutter is designed to comply with the current British and EEC safety regulations. Optional specification levels can be varied to meet any special operational requirements.

Special wind-locks are fitted to each end of every 6th lath to provide additional strength. Extra high-strength guide-stiffeners ensure the structural integrity of the system under high-wind-load.

Customized internal straps to ensure a smooth rolling up.

The bottom lath of the shutter is terminated with a purpose designed weather seal and security sensor strip. Resistance to wind load Class 5 up to 10,000mm width.

KEY FEATURES

- Resistance to EN 12424 Wind Class 5. Enhanced design to meet minimum pressure resistance of 3,000 - 4,000Pa
- Compliant with prEN 13241-1:2003 & manufactured and installed to iso 9001/2001 and is CE marked.
- Recommended Sizes up to 8m wide x 4m high

BENEFITS

- Typhoon proof
- No intermediate column
- Weather proof

Securing
your assets
up to SR4

Terror Screen



Faced with increasing threats of international terror and serious crime, Hart Door Systems invested heavily in designing and testing high security rolling shutter systems from SR1 - SR4 on the LPS scale.

The range of shutters, branded as **Terror Screen**, are all to Loss Prevention Standards as approved by the LPC Fire and Security Board and Expert Group G. Over 20 organisations assisted in the preparation of this standard more commonly referred to as LPS1175.

Terror Screen shutters have a high-security weight and strength combination through the twin skin steel lath (SR3), reinforced by an aluminium substructure (SR4). This heavy door system is highly resistant to cutting, providing significant resistance to attack. Drives, particularly on larger doors, will be chain driven rather than the simpler direct Safedrive units.

Independent tests confirm the SR4 withstands 20 minutes of direct attack, including 10 minutes with drills, grinders and hand tools. This allows on-site security time to arrive and secure the location, protecting key infrastructure facilities and high-value businesses and their assets.

Qualifying products such as Terror Screen are listed in the LPCB Red Book/ Red Book Live which is the key reference for specifiers, regulators, designers and end-users of fire and security products and services. Each product and service listed in the Red Book is robustly checked by independent experts to ensure that it delivers the performance expected.

KEY FEATURES

- Tested and approved to LPS 1175 Issue 7
- Complies with BSEN 12453:2005, BSEN 12604:2000, BSEN 12635:2002, BSEN 12978:2003
- Sizes up to 9m wide x 8m high
- Operation by press button or various automatic operators
- Electric/manual locking arrangements

BENEFITS

- Attack prevention
- Security performance
- Asset protection
- Public safety
- Insurance compliance

Delivering protection
for industry,
commerce and
the public sector

HART'S INDUSTRIAL ROLLER SHUTTERS



The extensive choice of industrial shutters and the ability to accommodate customers' specifications makes Hart a leader in this vital sector.

Hart's shutters are used in a wide range of industrial sectors as well as general commerce, schools, universities and hospitals to protect against vandalism, break-ins and theft. Sizes are normally up to 10m in width with an option for light or heavy-duty wind resistance. The operation can be automatic or manual and finish can either be specialist paint, plastisol or powder coat in a variety of colours. Standard finish is solid steel.

INSULATED ROLLER SHUTTERS

Insulation is a key feature of an energy-saving environment; essential in today's modern business context. Hart has a wide selection of lath profiles which are recommended. Steel, aluminium and stainless are all available in various profile sizes within our industrial shutters. These shutters have a thermal value of minimum 0.69w/m.sq.k and 18db as standard across the lath with increasing performance options available. Guides incorporate brush seals to seal and minimise operational noise.

SPECIALIST ROLLER SHUTTERS

Hart has the expertise to develop custom-made doors to maximise performance in any environment. Specification and application in corrosive, hazardous, high humidity and exposed locations requires careful consideration. These difficult environments may need stainless steel, ATEX compliance or special IP rated electrical equipment to provide the best long-term solution. If high performance, reliability and longevity are important, Hart has the solution.

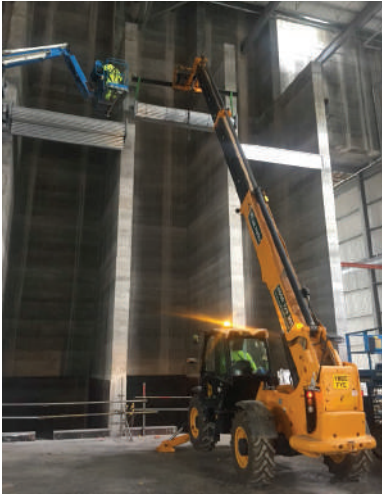
KEY FEATURES

- Optional wind lock guides available for wind resistance class 5
- Safedrive or safety brake anti fall to comply with machinery directive 2008
- Choice of operators including push button, security key switch or automatic controlled
- Acoustic and insulation properties

BENEFITS

- Compartmentalisation
- Public safety
- Temperature control
- Access security

Project Profiles: WASTE



Hart's range of environmental, fire and security products are in daily use in key sectors such as airports, pharmaceuticals, defence, energy and the nuclear/electrical power industry, water, transport, food, automotive, pulp and paper, waste to energy, as well as major social projects such as sporting stadia. Hart's reach is global, its sector experience immeasurable.

Hart Door Systems is at the forefront of waste control through its energy-saving range of robust, high-speed, automatic doors. Increasingly there is a demand for door systems to help operators in the waste management sector to operate sympathetically with their neighbours.

Hart has developed a range of options including some very large high-speed doors specifically for the waste management sector. The fast open/close cycle delivered by Hart's doors is one of the important features preferred by operators.

WASTE CHALLENGES

- Local authority opposition to odour and noise
- Pests including rodents, pigeons, seagulls
- Difficult conditions on site - dust and moisture
- High traffic
- Large vehicles

HART'S PROVEN SOLUTIONS

Hart is supplying doors to a growing number of energy from waste projects across the UK, with many high profile clients in the renewable energy sector such as HZI, Veolia and Viridor.

Typically Hart installed two fast-action Speedors for a haulage company specialising in waste disposal at a Midlands facility. The two Speedor Storms were installed to minimise the escape of dust and smells as well as keeping out birds and rodents. The fast action allows for quick arrival and tipping of waste within a closed harsh environment so reducing the chance of smells leaving the building.

Both Storms were supplied with optional moisture control of electrics. The largest door was 6m high and 8m wide. It is Hart's reputation for delivering reliable, very large, high-speed automatic doors for the waste industry that leads to contracts such as this.

Three Speedor Storms were installed at an in-vessel composting facility capable of processing 60,000 tonnes of kitchen and green garden waste each year. Hart now has over 60 doors installed across 11 sites for the same client, all supported by Hart's Machinery Directive compliant planned maintenance service. Hart's experience on these projects highlights the many challenges for the operator for which Hart has engineered unique solutions.

Project Profiles:
INFRASTRUCTURE



Hart has supplied thousands of industrial doors to **infrastructure** projects both across the UK and internationally across rail, ports, energy and utilities. The contracts indicate an ability to work within the strict disciplines of major, complex contracts. Hart's reputation for technical excellence developed over many years has given Hart a distinct edge when involved in major infrastructure projects like St. Pancras.

INFRASTRUCTURE CHALLENGES

- Advanced technical specification
- Access (operational areas)
- Security and fire risk
- Connectivity to external systems and software
- Heat loss
- Varying traffic e.g. vehicle and pedestrian.
- Securing zones from intruders
- Public safety
- Attack and threat prevention

HART'S PROVEN SOLUTIONS

These include the development of London St Pancras, where Hart manufactured and installed over 70 industrial doors and shutters, and Dubai Metro where Hart manufactured over 200 insulated roller shutters, both fire-rated and non-fire rated for the Jebel Ali, Rashidiya and Al Qusais train depots.

Hart also completed a major contract to replace old and unreliable shutters for Southern Railway. The £100,000+ contract included the removal of old doors and reinstallation of nine doors of varying sizes with the largest being 8.5m wide and 4.7m high.

Project Profiles:
AIRPORTS



Hart Door Systems is highly experienced in airport contracts supplying safety, fire protection and security solutions to over 40 airports world-wide including Dubai, London Heathrow, Jeddah, Baghdad, Bergen, London Gatwick, Newcastle International, Aberdeen, Falklands, Vladivostok, Harare and Hong Kong.

AIRPORT CHALLENGES

- UK, EU and international standards
- Airport security
- Connectivity to external systems and software
- Technical collaboration
- Securing zones from intruders
- Public safety
- Attack and threat prevention

HART'S PROVEN SOLUTIONS

A recent contract involved a specialist baggage handling system for Malta airport where Hart supplied eight fire shutters to form a baggage handling system capable of handling over 16,000 tonnes of cargo as well as enhancing the experience of its 6 million passengers annually.

Hart has worked with specialist engineering companies on international projects. For example, Hart delivered 177 fire and security shutters for the new King Abdulaziz International Airport, Jeddah. Originally designed to cater for 7 million passengers, the expansion will have a final capacity of 70-80 million passengers by 2035.

Additional security and fire protection is available for bespoke systems such as those supplied by Hart at Bergen, London Heathrow and Baghdad International as well as many other major airports. Continuous cyclic tests completed by Hart showed over 2,500,000 open/close cycles were achieved with no technical faults within a six month period.

Hart's Guarantee



WARRANTY

Each door comes with a parts and material warranty for one year, subject to conditions. Extensions can be offered for longer periods and include full maintenance support.

Service and maintenance is required by law to the manufacturer's recommendations and carried out by trained professionals using only bonafide original parts. Hart offer a full service tailored to your requirements.

MAINTENANCE

It's a legal requirement that employers take all reasonable actions to safeguard employees' welfare. Scheduled maintenance of machinery, including automated doors, is part of the Machinery Directive with a minimum annual visit required to comply with Health & Safety Legislation or more frequently on higher usage doors. Any injury sustained resulting from door malfunction, identified as a result of poor or lack of maintenance during a Health & Safety inspection, has the potential for criminal prosecution.

Planned preventative maintenance is a scheduled service visit carried out by a competent and suitable agent to ensure that an item of equipment is operating correctly, avoiding any unscheduled breakdown and downtime. Hart can offer a custom package to suit individual requirements where planned maintenance and site faults are responded to at the same time. This allows larger sites to minimise unplanned spikes in their maintenance budgets.

CASE STUDY

A customer had a service and repair spend of £33,000 – with Planned Preventative Maintenance and response offered by a Competitor. Hart Door Systems now visit on a weekly basis and have saved the customer £13,000 in the first year in visible costs (Hart versus Competitor Invoicing), that's without lost production and having to re-route forklifts etc. Pro-active rather than reactive actions, providing palpable savings.

Standards and accreditations

Why Hart Doors?

What differentiates Hart Doors from other door manufacturers?

- ✓ Equal opportunity employer
- ✓ Apprenticeship programme
- ✓ Training good people
- ✓ Addressing the skills' shortage issue
- ✓ Performance - Quality and Capability
- ✓ British manufacturers - unsurpassed expertise
- ✓ Personalised solution specialist - safety, security, control of the environment, compliance, building business efficiency
- ✓ Trusted - people, products and brands
- ✓ Reliability - tried and tested, fit for purpose
- ✓ Track record - continuity, experience and skill, reputation, longevity
- ✓ Customer focus
- ✓ Parts on demand



Assessed to ISO 9001
LPCB Cert. No 016



LPS 1056, Issue no 6.1, Cert No 016a'01
LPS 1271: Issue no 2.0, Cert No 016b'01



Raising Standards
Safety Assured

Misrepresentation Act: Every effort has been made in this document to give an accurate summary of Hart Door Systems and its product range. Please note that continuous product development can result in changes in design, specification and method of operation so please refer to the company's latest Datasheets for the most up-to-date information. Autumn 2019

HART

DOOR SYSTEMS



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