

Fire is one of the greatest dangers we face. It will take human life in moments. It will devour critical infrastructure in minutes. Developing, designing and manufacturing fire safety pump sets, drivers and controls for nearly half of its 130-year history, SPP Pumps Ltd ensures approved fire protection that's precision engineered.

British design, coupled with superior quality manufacturing in the UK and USA, has made SPP Pumps one of the most widely specified global fire pump suppliers. Over 25,000 installed products protect sites across more than 100 countries.

As the first company to achieve fire pump approval and listing by the internationally recognised Loss Prevention Certification Board (LPCB), SPP Pumps has more approved and fire-pump-listed equipment than any other manufacturer, now including FM approved Multi-Stage Multi-Outlet (MSMO) pumps.

### **ABOUT SPP PUMPS**

SPP Pumps has led the design and manufacture of centrifugal pumps and engineered pumping solutions for over 130 years. Serving challenging industry applications across oil and gas, water, power generation, construction, mining and fire protection, the brand is synonymous with pump performance, quality and reliability.

Many of the world's most iconic building structures and civil engineering projects depend on SPP's fire pump technology and expertise. From the tallest skyscrapers to the longest tunnels, over 500 staff, including 50 specialist engineers, ensure round-the-clock advice and support for critical pumping operations.

#### FIRE SECTOR APPLICATIONS

- Sprinkler systems
- Hydrant systems
- Deluge systems
- Monitor systems
- Water curtains
- Remote monitoring

- Commercial, public/municipal and residential buildings
- Civil works
- Underground transit systems and tunnels
- · Offshore and remote facilities

- End suction pumps
- Split case pumps
- · Multi-stage multi-outlet pumps
- Vertical turbines
- Pre-packaged pump houses

SPP PUMPS HAS MORE APPROVED AND FIRE-PUMP-LISTED EQUIPMENT THAN ANY OTHER MANUFACTURER, NOW INCLUDING FM APPROVED MULTI-STAGE MULTI-OUTLET (MSMO) PUMPS.



## SPP FIRE PUMPS EXPERIENCE SETS THE STANDARD WORLDWIDE

#### UNRIVALLED GLOBAL FIRE APPROVALS

Approved fire protection equipment must satisfy stringent operational testing to meet exacting safety standards.

SPP fire pump products comply with the demanding requirements of the LPCB, FM and UL approval standards. Products also meet all the requirements of NFPA 20, as required in North America and adopted in many other parts of the world.

#### VALUE-ADDED ENGINEERING

SPP Pumps leads the fire protection market with innovative value-added engineering. For instance, SPP manufactures fire pump packages featuring a box section baseplate. Simply bolting directly to the concrete pump plinth, the





THE SHARD,

Towering 309.6m, London's iconic

Shard is the tallest building in

Western Europe. 11 hectares

A public plaza, retail space,

residences and observation

requiring fire protection. SPP

(27 acres) of diverse floor space

includes 72 habitable floors, 306

flights of stairs and 44 elevators.

restaurants, hotel and spa, private

galleries are just some of the areas

LONDON



# RIGOROUS PREQUALIFICATION AND TESTING

Operating to the highest quality standards, all fire pumps and fire pump sets are built and packaged in SPP Pumps' own ISO 9001:2008 approved manufacturing facility. But that's just the start. Using advanced in-house computerised test facilities, every unit's performance is also fully checked and certified ready for real-world duty prior to leaving the factory. Customers know any SPP Pumps product will operate as specified from the moment it arrives on-site.

#### A GLOBAL SUPPORT NETWORK

Customers enjoy access to lifetime global support for all fire pumps and equipment through SPP Pumps Engineering Services. Resources include spares supply, emergency repairs, planned contractual maintenance, product training and technical performance analysis.

Every year, SPP Pumps Field service engineers travel more than 600,000 miles, providing on-site rapid response 24/7/365.

SPP Pumps also operates FireEye, a remote monitoring system for fixed fire protection equipment. Delivering web dashboard reporting with text and email alerts, FireEye provides ultimate peace-of-mind.

FIVE SERVICE CENTRES

ACROSS THE UK, OFFICES IN

FRANCE, THE NETHERLANDS,

ITALY AND THE CZECH

REPUBLIC PLUS APPROVED

OVERSEAS MANUFACTURING

FACILITIES GUARANTEE

MAXIMUM UPTIME.

#### FAST, IN-HOUSE MANUFACTURE

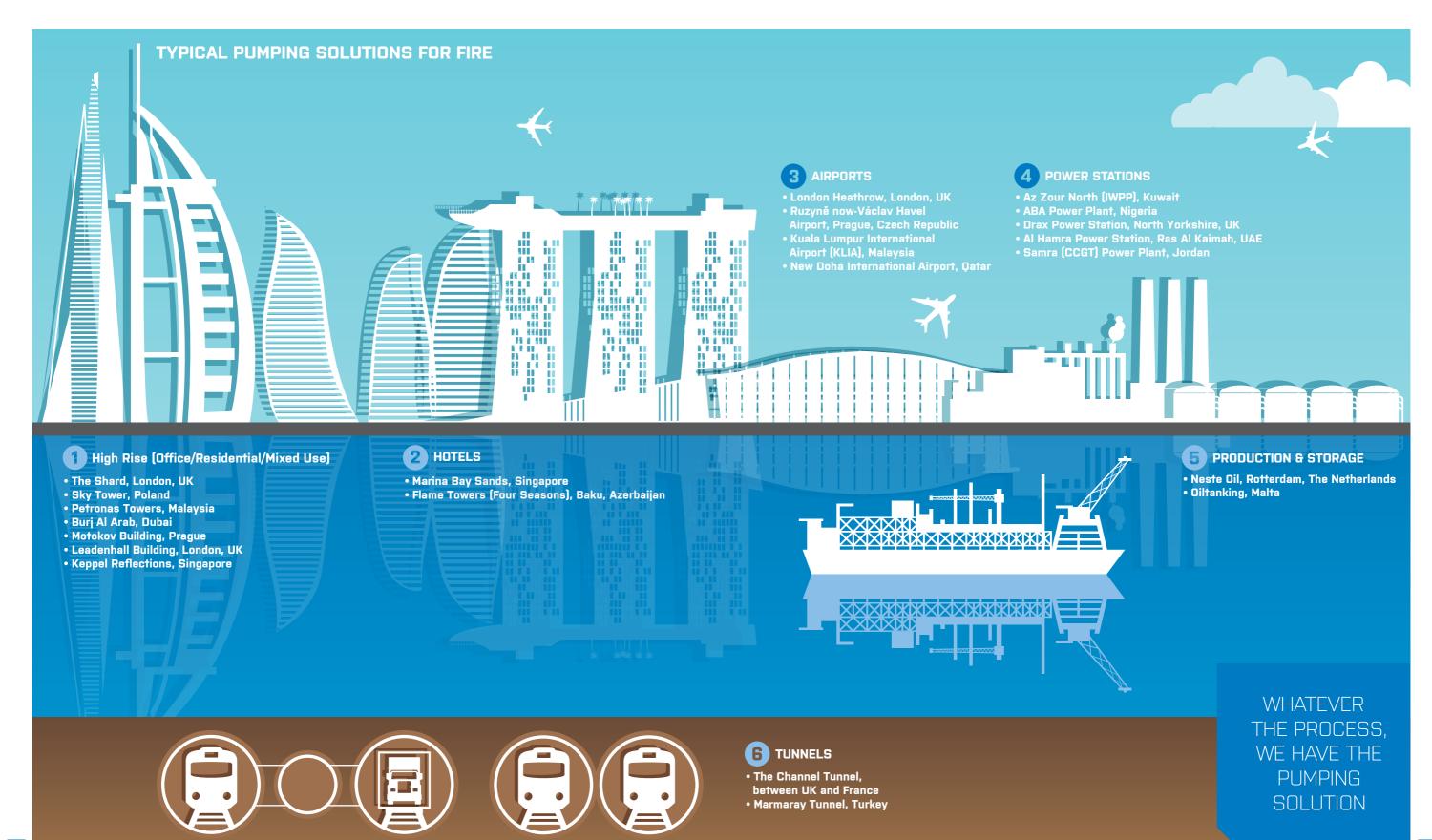
In addition to an extensive pump portfolio spanning common fire pump applications, SPP Pumps routinely designs and manufactures bespoke, fully integrated packaged pump solutions. Matched to a customer's unique application and operating environment, close consultation scopes complex needs, whilst custom design solutions (including 3D printing of moulds) means that every sub-assembly can be configured precisely - maximising reliability and performance over the full system lifecycle.

## MARMARAY TUNNEL, ISTANBUL, TURKEY

The £3.4bn Marmaray project, linking the European and Asian sides of Istanbul with a railway, is the world's deepest immersed tube tunnel. Crossing the Bosphorus Strait, the tunnel runs for 13.6-kilometres (8.5 miles), of which 0.8 miles (1.4 km) is an underwater section. It is estimated by 2015 the tunnel will see 1.5 million trips per day, rising to 1.7 million by 2025. SPP Pumps fire protection in the tunnel includes 6 sets of pumps for 6 stations - Kazlıçeşme, Yedikule, Yenikapı, Sirkeci, Uskudar and Ayrılıkçeşme. Each set includes an electric, diesel and jockey pump all approved to UL and FM standards. The pumps are supplying the tunnel standpipe system, pre-action sprinkler system in the stations and foam systems in drain sumps.



## TOTAL PROTECTION FOR ANY FIRE PUMP PROJECT



### **END SUCTION PUMPS**

Using a horizontal shaft with an overhung impeller and bearing arrangement, the space-saving end suction configuration has become the most common centrifugal pump arrangement.

Motor slide rails and back pull out design allow ready access and ease of maintenance. Suitable for electric or diesel drives, end suction pump duties range from 760 litres/min to 5,700 litres/min.

#### TYPICAL INSTALLATIONS:

- Supermarkets
- Hospitals
- Schools and Colleges
- Hotel
- Office Buildings

#### TYPICAL APPLICATIONS:

- Sprinkler systems
- Hydrant systems
- Monitor systems
- Water curtains





## **SPLIT CASE PUMPS**

Split case centrifugal pumps feature a single double suction or two single suction impellers supported between bearings. The casing is split axially, with opposing suction and discharge flanges, greatly simplifying maintenance.

With balanced bearings and a robust overall design it's not uncommon to find SPP horizontal split case pumps still in use after 70 years of service.

Suitable for electric or diesel drives, split case pump duties range from around 760 litres/min to 19,000 litres/min. SPP Pumps also boasts the largest UL Listed horizontal fire pump to date - with a capacity of 8,000 USgpm.

#### TYPICAL INSTALLATIONS:

- Airports
- Manufacturing Facilities
- Warehouses
- Power Stations & Refineries
- Data Centres
- Fuel Storage Depots

#### TYPICAL APPLICATIONS:

- Sprinkler systems
- Hydrant systems
- Deluge systems
- Monitor systems
- Water curtains

## MULTI-STAGE MULTI-OUTLET PUMPS

SPP Pumps is the first company to offer FM Approved multi-stage multi-outlet (MSMO) pumps. Using multiple impellers to generate more head than a single impeller, MSMO pumps are used in fire protection systems in most tall buildings including offices, hospitals and hotels.

MSMO pumps offer many benefits: buildings need fewer pumps; pipework and valves are reduced; the need for water storage tanks on intermediate floors is eliminated; and the loading on the building is reduced. The cost and space saving implications are significant: power requirements are lower, pump rooms can be smaller and, in line with new EU legislation, there is no need to use pressure reducing valves to prevent over-pressurisation of sprinkler heads.

Driven by electric motors or diesel engines, SPP MSMO pumps are available to satisfy any LPCB specification for automatic sprinkler protection in high rise and multiple storey buildings.

#### **TYPICAL INSTALLATIONS:**

- Offices
- Hotels
- Residential Buildings
- Tunnels
- · Mixed Use Buildings

#### TYPICAL APPLICATIONS:

- · Sprinkler systems
- · Hydrant systems
- · Deluge systems
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- Water curtains





## **VERTICAL TURBINES**

Where the fire protection water source is located below ground or deck level, a multi-stage vertical suspended water pump is the best solution.

In this type of pump the impellers are fully immersed in water, maintaining priming at all times. The pumps are driven by vertical electric motors or by diesel engines through a right-angle gearbox.

#### TYPICAL INSTALLATIONS:

- Manufacturing Facilities
- Warehouses
- Power Stations & Refineries
- Fuel Storage Depots

#### TYPICAL APPLICATIONS:

- Sprinkler systems
- · Hydrant systems
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### PRE-PACKAGED PUMP HOUSES

Delivered complete ready for installation, pre-packaged pump house enclosures incorporate pumps, drivers, control systems and pipework in a single container.

Simply requiring fast, easy connection to water and power once sited, they significantly reduce time and labour costs, becoming operational almost immediately.

Insulated enclosures minimise operating noise levels, whilst pre-assembly and testing in the factory eliminates potential coordination problems later on site. Each complete pump





MARINA BAY

SINGAPORE

Sands resort features three

a shopping mall, celebrity

Transforming Singapore's Marina Bay waterfront, the Marina Bay

55-storey cascading hotel towers,

SANDS,

## DELIVERING PERFORMANCE ACROSS THE WORLD



www.spppumps.com | enquiries@spppumps.com | tel: +44 (0) 118 932 3123



















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