

The news that leaves you...

# Spel



June 2014  
Issue 2

# bound

from SPEL Products

## Features

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A brief history: The valuable experience & expertise achieved

### **What happened then?**

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**Shifford's Bridge** – nitrate improvement scheme

**Crossrail & more** – SPEL's total solutions for the rail industry

**Support from MP to commemorate 50 years**  
– Daniel Kawczynski,  
Conservative MP

**Typhoon Haiyan** – SPEL support the Philippine's Appeal



# 50 years 1964 – 2014

Progress

**SPEL Products commenced as Shrewsbury Plastics & Engineering Ltd in 1964 manufacturing glass fibre cabs and roofs for the electric milk floats built by W & E Vehicles.**



The electric milk float was invented by Philip V Pocock, the first Chairman of SPEL Products whose father had been in the dairy industry during WW1. PVP was with Mickleover Transport during WW2 building road tankers, horse drawn milk floats and other vehicles for United Dairies. The requirement to replace the horse drawn milk carts in London became an increasing necessity with the need to be more efficient and overcome the shortage of cart horses. The electric three wheeled design was chosen for being quiet, low running costs and could turn in a cul-de-sac in one manoeuvre.

Production of the W & E Electric milk float started in 1947 utilising aluminium for the bodywork. During the early 1960s glass fibre became the new material for low production runs of mouldings for the vehicle industry.

With a ready market Shrewsbury Plastics & Engineering Ltd commenced manufacturing the cabs and roofs and other mouldings for these vehicles, first in an old foundry and then later in a purpose built factory on the present site. Since 1964 the original building has been developed with a further three buildings for production and storage.

The company diversified into building cladding, motorway bridge fascia system (patented), chemical plant (tanks, vats, fume canopies, fume stacks, insulated jam containers etc). In 1975 the 'onion shaped' SPEL Septic tank was produced and attained the company's first Agrément Certificate in 1977.

In 1989 the company became specialists in filament wound underground tanks for many uses. Today the plant has modern 'state of the art' filament winding and computerised robotic moulding and end dome machines for fast, quality assured production.





This Post Office building was clad with SPEL GRP panels with a textured bronze metallic finish, incorporating a lightweight steel frame, internal lining and insulation for quick site fixing.



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1. SPEL 3-stage Septic Tanks, Agrément Certificated in 1977.

2. W & E Rangemaster electric vehicle with colour impregnated GRP cab and roof.

3. Wayne industrial sweeper with a GRP cab designed by SPEL.

4. SPEL Fascia System for bridges for concealing services. Easy lift on and off.

## January 1964 – What happened then...

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**The trial of the Great Train Robbers** began which resulted in ten men being found guilty of the plot to steal mail bags worth more than £2.6m by ambushing a travelling post office on the railway line at Cheddington. The trial took 51 days and a 12-man jury at Buckinghamshire assizes took a record 66 hours to come to the verdicts. Later that year Ronald Biggs escaped.  
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**The first ticket collecting machine** was installed on the London Underground.  
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**The US launched a Saturn rocket** with a 10-ton payload, the heaviest ever at that time.  
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**The US launch of Echo C**, the first joint US-Soviet space project.  
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**UK Government figures** showed the average weekly wage was £16.  
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**The US spacecraft Ranger 7** sent back close up pictures of the moon's surface.  
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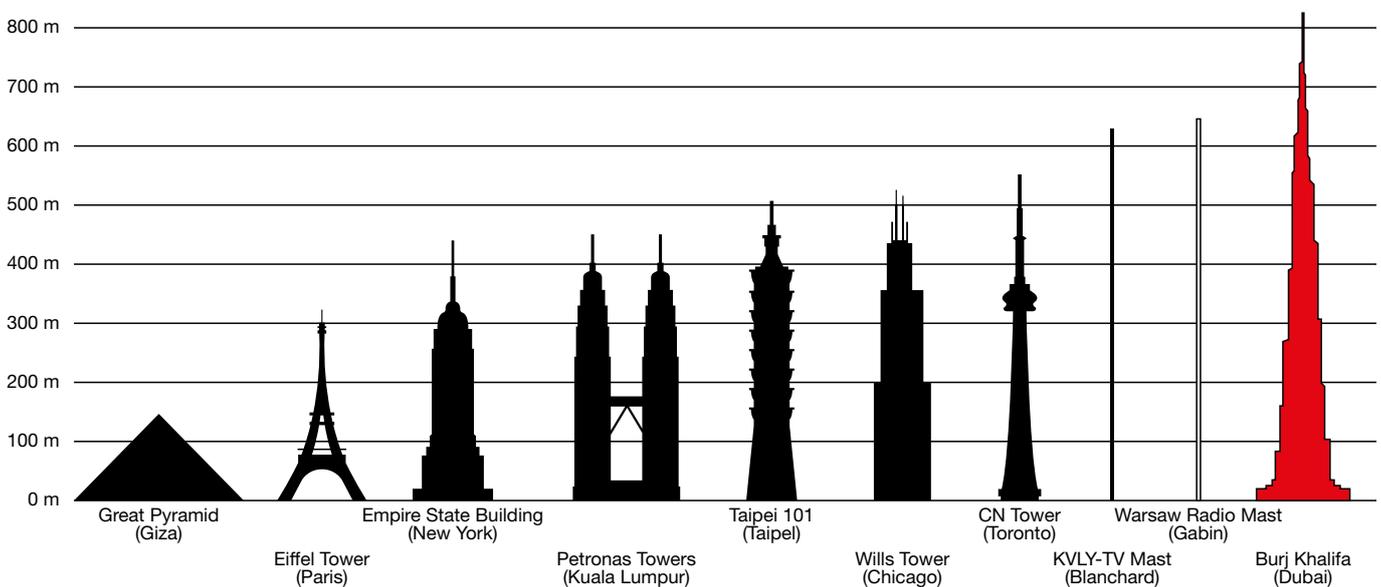
# Khalifa Tower Burj Khalifa

## The world's tallest

Burj Khalifa is not only the world's tallest building at 828 metres (2,716.5 feet) but it has broken two other impressive records; the tallest structure, previously held by the KVLV-TV mast in Blanchard, North Dakota and the tallest freestanding structure, previously held by Toronto's CN Tower.



see 'Exporting' Spellbound issue 1.



The three criteria on which buildings are assessed by the Chicago-based Council on Tall buildings and Urban Habitat (CTBUH) are height to architectural top, highest occupied floor and height to tip. Burj Khalifa wins by far all three categories.

The Burj Khalifa towers skywards, surpassing all previous limits and expectations. Rising from the desert on 129 piles more than 50 m (164 ft) deep.

**SPEL Products have a strong presence in the UAE which, with SPEL Environmental of Sydney, NSW, Australia, adds to the global operation of SPEL. For consulting engineers and contractors throughout the world SPEL provides a comprehensive service from design to installation support.**

# Khalifa Port Abu Dhabi

Some of the largest SPEL Separators are shipped to key projects throughout the UAE.

This SPEL Stormceptor by-pass Separator Model 6500 C1 was shipped on a flat rack as deck cargo.



# Shifford's Bridge nitrate improvement scheme

The borehole at Shifford's Bridge is located in Shropshire, a rural agricultural area, where rising nitrate trends required improvements to maintain supplies within strict water quality limits.

Two schemes were put forward by Mott MacDonald Bentley (MMB). One to provide blending in order to maintain nitrates within acceptable limits and the other to construct a nitrate removal plant. Severn Trent opted for the latter due to the nature of the facility. The new nitrate plant is capable of treating 3.3ML/d.

The delivery team worked closely with the supply chain partners to ensure a 'right first time' approach. This involved utilising the knowledge and experience of the integrated design team and 3D modelling.

SPEL Tankstor underground attenuation tanks were incorporated with high level sensors to reduce the risk of overspill/leakage and preventing pollution to the principal aquifer.

The final product has met or exceeded Severn Trent Water's expectations with the new plants greater efficiency and reduced maintenance.

We have been privileged to work with MMB on this project and are pleased it has been such a success.



# SPEL Products and the rail industry



**SPEL have been involved with the rail industry for over 25 years supplying**

**high-performance SPEL fuel/oil Separators to meet the stringent requirements of the Environment Agency's pollution prevention guidelines on some of the most contaminated sites.**

In areas of high pollution SPEL Puraceptor Class 1 full retention separators have been combined with the Econoskim System to automatically service the separators in situ, recover fuel/oil for resale and maintain their performance 24/7.

Over 40 rail maintenance and fuelling depots throughout the UK are proving the benefit of the SPEL Puraceptor + Econoskim System and more and more depots are incorporating.

## Crossrail

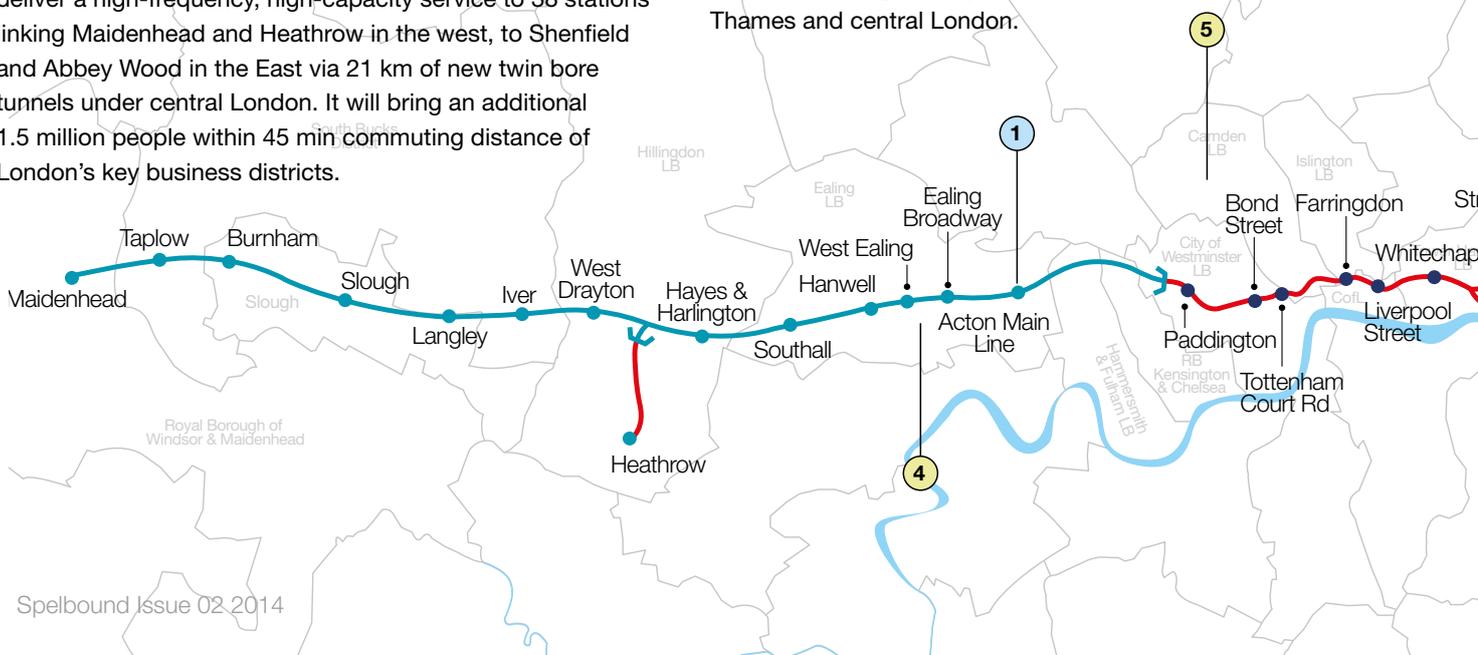
SPEL Products are proud to be associated with this enormous project, Europe's largest construction project and one of the largest single infrastructure investments undertaken in the UK.

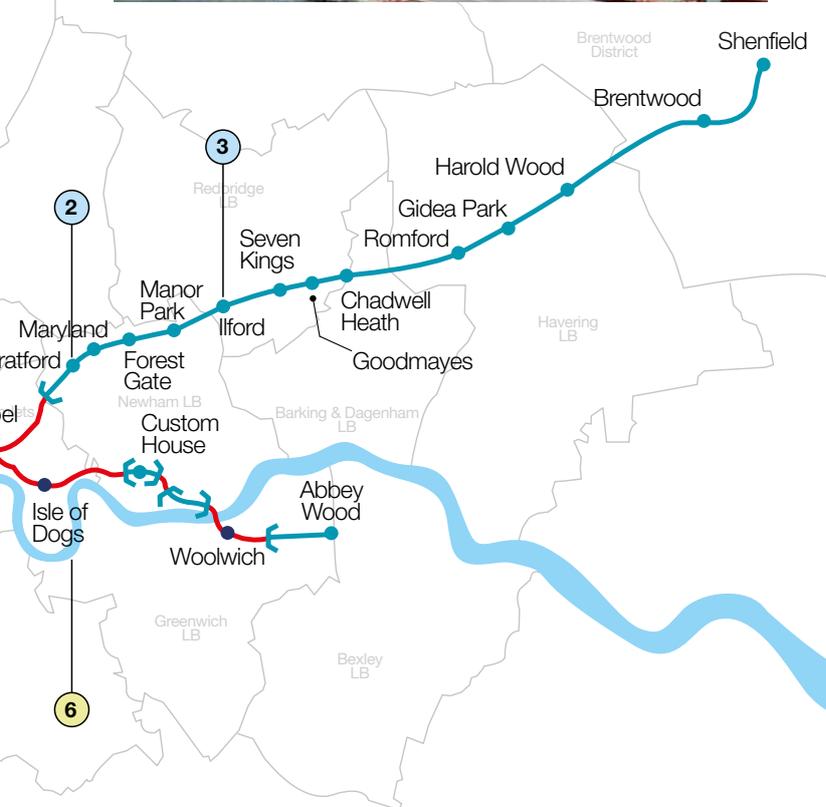
Crossrail will improve journey times across London easing congestion and offering better connections. Crossrail will change the way people travel around the capital. It will deliver a high-frequency, high-capacity service to 38 stations linking Maidenhead and Heathrow in the west, to Shenfield and Abbey Wood in the East via 21 km of new twin bore tunnels under central London. It will bring an additional 1.5 million people within 45 min commuting distance of London's key business districts.

It is estimated 200 million passengers will travel on Crossrail each year operating with mainline sized trains carrying more than 1500 passengers in each train during peak periods.

There will be new Crossrail stations constructed along the central route of Paddington, Tottenham Court Road, Bond Street, Farringdon, Liverpool Street, White Chapel and Canary Wharf.

The contract involves 42 kms of new tunnels and with other construction works running concurrently across the whole route, with over 10,000 people working directly on over 40 construction sites. Eight giant tunnel boring machines (TBMs) are being employed in Docklands heading under the Thames and central London.





### Crossrail contracts

- 1 **Acton Depot** – SPEL Purceptor Class 1 + 'Econoskim' System.
- 2 **Docklands Light Railway, Stratford** – SPEL H-Series 50,000 litre Package Pumping Station with separate valve chamber.
- 3 **Ilford Depot** – SPEL Stormceptor and SPEL Purceptors.

**Reading Rail Depot. Crossrail/Network Rail** – SPEL Purceptor Class 1 + 'Econoskim' System.

### Other recent contracts completed in the same area for the rail industry

- 4 **Hammersmith/Beddington Depot. London Underground** – Above ground SPEL Purceptor Class 1 Separator with secondary containment.
- 5 **Hornsey Depot. Carriage wash** – SPEL Purceptor Class 1. SPEL Xspel V-Series Package Pumping station and separate valve chamber.

**Three Bridges Depot, Crawley. Thameslink** – SPEL Purceptor Class 1. SPEL Xspel V-series Package Pumping station and separate valve chamber.

### Other rail applications for pumping stations and carriage washes

Besides the need to deal with the hydrocarbons on railway sites there are many other applications requiring pumping and treatment of run off from carriage washes, for water re-use and complete systems to provide rainwater supply.

SPEL are heavily involved with all aspects of the rail depots and can provide bespoke systems to meet specific requirements.

**High Wycombe Railway Station** – SPEL H-Series 60,000 litre Package Pumping Station with separate valve chamber.

- 6 **Emirates Cable Car** – SPEL RainSave 6,000Ltr Tank
- Edinburgh Tram Depot** – Edinburgh Tram Depot – SPEL Stormceptor, SPEL Xspel V-Series Package Pumping station, SPEL RainSave system with a 10,000Ltr Tank.



**SPEL Separator brochure**



**SPEL RainSave**



**SPEL and the rail industry**

# Typhoon Haiyan

## SPEL Products contribute to the Philippine's Appeal



On 8 November, Typhoon Haiyan hit the Philippine Islands. This was one of the strongest typhoons ever recorded, with winds of over 195mph and a powerful accompanying storm surge. A tsunami-like wall of seawater up to 30ft (9m) high slammed into coastal areas, possibly sweeping many victims out to sea.

At that time the death toll stood at 2,357, with at least 3,665 injured, 25,000 missing and 673,000 displaced. The conditions for the survivors became increasingly difficult as hundreds of thousands of people had no shelter, food or water. Many families were being forced to drink contaminated water with the threat of disease and malnutrition. Widespread looting and an inability to transport aid rapidly, due to a lack of fuel for vehicles and the debris-choked roads, meant many persons were growing angrier and more desperate. The many donations from individuals and companies helped alleviate the terrible suffering that many in the Philippines, particularly young children, were experiencing.

## Daniel Kawczynski Conservative MP for Shrewsbury & Atcham

7th February 2014

Daniel Kawczynski MP visited SPEL Products on the occasion of our 50th anniversary and toured the recently refurbished offices and production facility with demonstrations of the latest 'state of the art' computerised moulding machines and filament winding.

Staff members assembled in the conference room to meet Daniel and listen to an inspiring talk on exporting, which is of particular interest to Daniel having edited the UK Trade and Investment document Scrutinising Efficiency and Effectiveness.



Daniel was also encouraging in outlining the Government support for small to medium enterprises and a very sound explanation of the Conservatives objectives to lower the national deficit and establish a sound basis for sustained growth.



SPEL Products, Lancaster Road, Shrewsbury, Shropshire, SY1 3NQ, UK

Tel. +44 (0)1743 445200 Fax. +44 (0)1743 465442 Email. [info@spelproducts.co.uk](mailto:info@spelproducts.co.uk)

Sales hotline. +44 (0)1743 457977 Email. [sales@spelproducts.co.uk](mailto:sales@spelproducts.co.uk) [www.spelproducts.co.uk](http://www.spelproducts.co.uk)