

# Railtalk Magazine Xtra

Welcome to the Railtalk Magazine Xtra, which compliments the main Railtalk Magazine and means that we can put even more pages together every month. As always in Xtra, we focus on life outside the UK, and once again we have some excellent shots from around the world. Time for our "From the UK" section to have a look at what's happening in the South West this summer as many of us go on holiday in 'Glorious Devon'.

Well with summer in full swing, it is a delight to see so many excellent photos arriving into the Railtalk mailbox - many thanks to all of you, old and new.

On page 46 of this issue, you can find an advert for the 'iPod Repair Team', and what's it all about you might think? Well we have been involved in repairing iPods and iPhones for quite a while now, but never bothered advertising in either magazine. However after much discussion, we thought we'd give it a try and see if there is anyone who needs our help. So if you have a faulty device, let us know and we might just be able to resolve your problem. Contact us by either email or on Facebook.

Andy has been to the Czech Republic this month, and reports that there is still plenty of 'Grumpy' action to be had. The 'Grumpies' seem to be very active from Friday till Monday, so if you want to catch some action a weekend visit is currently recommended - we are assured though that it won't last much longer and plans are already in place to replace some services with a Class 854 units and coaches, as always time will tell. Once again thanks for all the great photos sent to us this month, please do keep sending them and as always, if you are going on holiday, don't forget to pack the camera.

#### David

Once again many thanks to the many people who have contributed, it really makes our task of putting this magazine together a joy when we see so many great photos. This issue wouldn't be possible without: Colin Gildersleve, Steve Madden, Brian Battersby, Paul Godding, Richard Hargreaves, Pavel Kopec, Tomáš Kubovec, Martin Grill, Martin Válek, Mark Pichowicz, Richard Weber, Filip Štajner, Pavel Šturm, Bea Želtvayová, Petr Holub, Pavel Martoch, Honza Štofaňak, BVT, Ivo Rušák, Zdeněk, MirKo, Libor Hyžák, Keith Hookham, Jaroslav Charvát, Matouš Vinš, Martin Hill, Steve Dennison, Ian Leech, Anton Kendall, Laurence Sly, Colin Hart, David Mead, Piotr Kozlowski, Derek Neesham, Roger Williams, Mark Bearton and Andy Pratt.

Front Cover: On June 15th, making a rare outing, 1913 Built Ge 2/4 No. 222 passes alongside the Rhine close to Trin on its way to Ilanz where it was on display for the weekend. Steam loco G 3/4 No. 11 can just be seen on the rear of the train. Mark Pichowicz

This Page: Class 2062.056 is seen powering away up the grade from Kosovo with freight No. 65325, the 09:47 pick up goods from Knin to Unesic on July 18th. Andy Pratt

#### **Contact Us**

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#### Submissions

Pictures, articles and news can be entered through the forum, or by email to us at:

## entries@railtalk.net

Please include a detailed description and credits.

## Railtalk Magazine Xtra

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Top Right: Privately owned T478.1008 (749.008) and T478.1010 (751.010) double head train No. Ex 35057, an ECS movement from Pardubice hl.n to Nedvedice, seen at Hlinsko v Cechach on July 6th. *Andy Pratt* 



Bottom Right: Czech 4-8-2 No. 475.101 departs Rozna station in the late afternoon sunshine with train No. Sp 1824, the 17:04 Nedvedice to Havickuv Brod on July 7th.

Note the railcar No. 851.032 on the rear of the train. *Andy Pratt* 



Below: JHMD No. T47.005 arrives at Jindrichuv Hradec with train No. 253, the 12:49 from Nova Bystrica on the JHMD Narrow Gauge system, July 24th. Of note is that the train is running on dual gauge tracks here sharing the running line with the electrified CD line from Veseli nad Luznici to Havlickuv Brod. *Andy Pratt* 

























Top Right: Class 2062.104 drifts down the grade towards Kosovo with train No. 1522, the 09:26 Split - Zagreb Gl Kol on July 17th. This train has been booked loco and coaches this year and provides a nice opportunity to ride the picturesque line to Split in daylight and on a real train. Andy Pratt



Bottom Right: Class 2044.019 seen having just departed Perkovic with train No. 520, the 08:25 Split - Zagreb Gl Kol on July 16th. Another loco vice unit working and a Class 2044 making a rare appearance on the Split line. Andy Pratt



Below: Class 2062.010 emerges from the short tunnel near the summit at Labin Dalmatinski between Split and Perkovic with train No. 5506, the 15:23 Split to Perkovic on July 16th. *Andy Pratt* 











Top Right: An unidentified pair of Class 218s lead an Inter City service over the Hochbrücke at Hochdonn while a container ship passes underneath in the Nord-Ostsee-Kanal, June 28th. Andy Pratt

Bottom Right: The only access to and from the Island of Sylt is by train or ferry, and services get very busy in the summer. The Nord Ostseebahn (NOB) stenghten a lot of their workings to cope with the numbers of passengers. In this view the regular 6 coach set has been strengthened with 4 older slam door type coaches with the strange sight of the loco in the middle of the formation. The train is seen approaching the Hindenburgdamm to take it over to Sylt and Westerland on June 29th. *Andy Pratt* 

Below: There are no roads onto the island of Sylt, so all vehicles must use either the ferry or the DB Autozug which runs between the terminals Niebüll and Westerland.

This is the view from the top deck of the car carrying wagons directly behind the locos as the train sets off from a signal check at Keitum on June 30th. *Andy Pratt* 













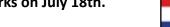
Top Right: Class 2062.110 and 2062.116 are seen near Zrmanja with freight No. 61303, the 04:01 Zagreb Resnik - Split Predgrade on July 17th. Andy Pratt

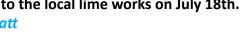


Bottom Right: Class 2062.113 is seen in charge of train No. 524, the 14:41 Split - Zagreb Gl Kol vice unit near Ramljane between Drnis and Knin on July 17th. Andy Pratt



Below: Class 2062.056 picks it's way through the weeds towards the ungated road crossing in Drnis with a trip working to the local lime works on July 18th.







































QR National's narrow gauge No. ACN 4152 heads away from the smoke haze of an earlier bush fire for the Port of Bunbury with loaded Alumina hoppers.

Colin Gildersleve















## Bombardier's New High Speed Train Design Unveiled in Italy

The Prime minister of Italy, Mario Monti, has visited the full scale mock-up of the Frecciarossa 1000, the newest member of the BOMBARDIER ZEFIRO family of high speed trains. The groundbreaking train design for cost efficient, high capacity transport will be exhibited at the InnoTrans 2012 rail trade show in Berlin.

Italian rail operator Trenitalia has unveiled a full scale mock-up of the of the Frecciarossa 1000 high speed train currently being built by rail technology leader Bombardier Transportation and its consortium partner AnsaldoBreda. The Frecciarossa 1000 is the newest member of Bombardier's ZEFIRO family of high speed trains, known as the V300ZEFIRO model.

The unveiling took place in Rimini, Italy on Sunday, August 19. The Prime Minister of Italy, Mario Monti, attended the event along with Mauro Moretti, Managing Director, Ferrovie dello Stato (Italian Railways), Maurizio Manfellotto, Managing Director, AnsaldoBreda, and Roberto Tazzioli, Chief Country Representative of Bombardier Transportation in Italy. "In addition to its beautiful design, our new train is a game changer in the rail industry," Tazzioli said. "It offers not only very high speeds of up to 360 km/h, but also cost-efficiency, a capacity of up to 600 passengers, reliability, safety and durability. The ZEFIRO family also sets a new benchmark for sustainable mobility by offering the lowest energy consumption per seat of any very high speed train in the world today. This unparalleled economic and environmental performance makes high speed rail an attractive alternative to other forms of travel."

The new train also offers an unusually high acceleration that ensures excellent travelling times even on winding routes. In September 2010 Bombardier and AnsaldoBreda won an order to deliver 50 trains. The first units are already in production and track tests will take place at the end of 2012. After the Rimini exhibition, the Frecciarossa 1000 mock-up will travel to Berlin, Germany, to be displayed at the world's largest rail trade show, InnoTrans, from September 18 to 21.

Bombardier Transportation holds unparalleled expertise in the field by delivering more than 1,000 high speed trains and rail vehicles worldwide, either as sole supplier or in partnership. Bombardier has participated in the development of many of the world's leading high speed rail systems, including four different generations of TGV in France, the ICE trains used in Germany and the Netherlands, Italy's ETR 500 and Frecciarossa 1000, Spain's AVE 102 and AVE 112, China's Xinshisu, the BOMBARDIER ZEFIRO family of high speed trains and the Acela in the USA.



# Supply 8 Train Trams to German city of Chemnitz

The contract is worth €42 million and deliveries will start in 2014.

The consortium of Vossloh España and Vossloh Kiepe has won the tender called by the eastern German public transport operator Verkehrsverbund Mittelsachsen, for eight Electric/Diesel-electric light rail vehicles, including the option for another two.

The contract is worth €42 million and the deliveries will start in 2014.

Vossloh España is responsible for the engineering and building of the vehicles and the bogies and Vossloh Kiepe for the traction equipment and its HVAC system.

The barrier-free train-trams will link the city of Chemnitz with the surrounding areas without passengers having to change vehicle.

Within the city, they will operate electrically as zero-emission trams, outside diesel-engine driven, taken advantage of the existing regional rail network.

The first deliveries will be in 2014

## The AVE Galicia receives a boost investment

The high-speed line (HSL) Madrid - Galicia has received a increase in investment in just eight months.

The Minister of Development, Ana Pastor, has recently visited the works of this important infrastructure in the stretch from Ponte Miamán - Ambía, which is 6.7 km in length, designed for high-speed two-way and runs entirely by the municipality of Molgas baths (Ourense).

The execution of the works of this leg platform has a budget of 75.9 million euros.

During the visit, the Minister checked the progress of the work and its progress on schedule as well as the status of implementation of the main structures.

Among the unique elements of the section Ambía Miamán - Ponte, which is part of the route between Lubián (Zamora) and Ourense, and is notable for its lengthy (1,014 m) Arnoia viaduct.

The viaduct supports a dual-track railway platform with a width of 14 m. It has 19 batteries, with heights ranging from 6.5 m to 57.4 m. The batteries Nos. 16 and 17 are gantry type, different from the rest, with a higher threshold which preserves the junction with the conventional line Zamora - A Coruña.

Besides Arnoia Viaduct, the stretch from Ponte Miamán - Ambía presented as unique structures Miamán viaducts (177 m), to save the valley caused by Regueiro Porro, and Bouzas (216 m) above the valley through which runs the Bouzas Regueiro; Bouzas tunnel (852 m), and includes two viaducts carrying conventional rail lines.

## Supercap tram successfully in service



The first supercap tram from Stadler Rail has been successfully in service for the Geneva transport company TPG since early July.

The supercap energy-saving system allows braking energy to be stored during normal operation and reused when the vehicle starts to move in order to conserve energy.

The energy stored in the supercaps allows the vehicle to travel at least 400 metres without mains power in an emergency situation. If driven economically, the distance can even be increased to over a kilometre.

The first few of a total of 32 Tango trams have been in regular service for Geneva-based TPG since December 2011. Of the 32 vehicles ordered, one was equipped as a prototype with the supercap energy-saving system. This system stores braking energy in condensers fitted to the roof of the vehicle. During regular service, this is fed back into the system when the vehicles start to move, i.e. when most energy is needed.

#### 1,500 metres without power

In an emergency, the vehicle can even travel without mains power, for example, if there is a power failure or a fault with the contact wire or pantograph. During the first tests on 6 July, a vehicle covered a distance of 1,500 metres on a TPG depot circuit without mains power. This required economical driving, i.e. slow acceleration and low speed. Since then, the vehicle has been in service on the Geneva tram network and has performed excellently.

The supercap units on the TPG vehicle weigh about a tonne and can store energy equivalent to the entire kinetic energy of the empty vehicle at 55 km/h. The benefit of the supercaps over batteries is that they can absorb and release the temporarily very high levels of current produced during braking.



#### **Retrofit option across whole series**

The supercap prototype is being extensively tested by TPG and Stadler in conjunction with ABB, the manufacturer of the traction converters, on the TPG network, and its energy consumption is compared to that of the other Tangos, which also absorb braking energy and feed it back into the contact wires. If the tests prove positive, the remaining 31 series vehicles could be fitted with supercap modules relatively easily.





## Alstom will supply 8 additional New Pendolino trains to SBB, the Swiss federal railway operator

Alstom has been awarded an order from the Swiss federal railway operator, SBB, to supply 8 additional New Pendolino high speed trains that will be added to the existing fleet of 7 trains already owned by SBB. This order, worth around €200 million, is an option of the contract signed in March 2004 between Alstom and Cisalpino, the former joint venture of Trenitalia (Italian railway operator) and SBB. The delivery of the new trains is scheduled for 2015. SBB will operate the new trains on the lines between Milan and Geneva and between Milan and Zurich.

"We are very pleased that SBB has again shown its confidence in Alstom. This choice clearly demonstrates Alstom's leadership in tilting technology, allowing high speed trains to run on existing networks and reduced journey times. It is the optimal solution for SBB's network and its cross-border services", said Gian-Luca Erbacci, South Europe Senior Vice President of Alstom Transport. The New Pendolino is equipped with tilting technology, developed by Alstom. This unique technology allows the train to tilt up to 8 degrees in curves while increasing speeds up to 35% higher than conventional trains - all in safety and improved comfort for passengers.

The New Pendolino ordered by SBB is a seven-car trainset that runs at a top speed of 250 km/h. This train, which can accommodate up to 430 passengers, is designed to optimise operating costs over its lifetime. It is equipped with the latest generation of flexible bogies which reduces track wear. In addition, the New Pendolino is 95% recyclable and is equipped with an electrical brake system which recycles up to 97% of power back into the catenary system, enabling up to 8% energy consumption savings. Particular attention has been paid to noise reduction, externally as well as internally. The train is streamlined to reduce noise through the roof. The design of the trains has been aerodynamically optimised and sound insulation has been increased under the body. In addition, a damping vibration system has been placed on the wheels.

Inside the train, wide corridors and gangways offer optimal accessibility and comfort to passengers. Seats are equipped with individual reading lights, reclining function and electric sockets. They are aligned with the large panoramic windows which allow passengers to benefit from natural light and enjoy the scenery. Video monitors and a video surveillance system ensure maximum safety.

The New Pendolino cross-border trainsets for SBB have been designed to meet the interoperability European standards (TSI) and will be equipped with Atlas - the Alstom European signalling system (ERTMS) - required to operate in Switzerland, Italy, Germany and Austria.

The trains will be manufactured in Alstom's Savigliano site in Italy, where Pendolino trains have been manufactured for more than 30 years. The other Alstom Transport sites involved are Sesto San Giovanni and Bologna in Italy, Le Creusot, Ornans and Reichshoffen in France, Montreal in Canada, and Neuhausen in Switzerland.

## Bremen, Aschaffenburg and Bad Schandau are stations of the year

**Rail Alliance awarded Stations of 2012** 

The Pro-Rail Alliance announced on August 29th in Berlin, the stations of the year of 2012. Bremen Central Station was voted best city railway station and the Aschaffenburg Hauptbahnhof won the "city of a hundred thousand inhabitants." For the first time this year, the National Park station Bad Schandau, in Saxon Switzerland won the special prize in addition tourism.

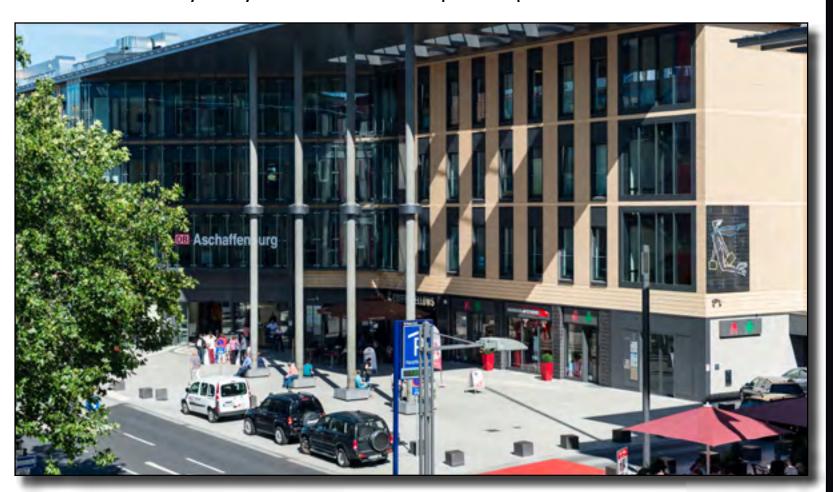
Rail customers were from April to June invited to nominate their favourite stations on the Internet. The five-member jury of the Pro-Rail Alliance then examined these stations on the spot. In addition to good customer rating of each winner station also had to comply with all points of a comprehensive outstanding checklist.

"The award for Station of the Year is very important because it shows us how the travellers and visitors perceive the stations. We value this independent assessment by the jury of the Pro-Rail Alliance. So we can see where our services are good and where we can improve in terms of rail customers," said Dr. André stuff, CEO of DB Station & Service AG.



The Bremen Central Station with its bright and airy entrance hall with historic wall mosaic also convinced the jury that it is one of the finest in Germany. In addition, the hall offers a wide range of food and service everything the traveller needs.

The new Aschaffenburg Hauptbahnhof, which opened in 2011, won by the perfect integration into the environment. The experts thought that effort has been taken in the clear construction, which "performed harmoniously" with surroundings and was well looked after by friendly staff. Even the station underpass heard praise.



Bad Schandau won the special tourism prize. The National Park railway station in the Saxon Switzerland promises at the first sight holiday joy by the Tuscan-sounding station building. "The town of Bad Schandau created a successful combination of natural, soft mobility and tourism," the jury found.

The Stations of the Year have been honoured by the Pro-Rail Alliance since 2004. With Bremen, Aschaffenburg and Bad Schandau there are now nineteen stations with the award.
Winners last year were the Leipzig Central Station and Halberstadt.



#### **Summer in the South West 2012**

We start our look at the South West this year with the classic shot of a HST along the sea wall at Dawlish. With the once familiar hire-in's during the summer months from Midland Mainline and East Coast no longer taking place, it is left up to CrossCountry to break the monotony of First Great Western along here. This is CrossCountry HST power car No. 43384 heading towards Plymouth on July 25th. *Richard Hargreaves* 

### From the UK









Above: On July 26th, Class 66 548 passes through Dawlish Warren with an engineers train from Taunton.

\*\*Richard Hargreaves\*\*

Top Right: On July 31st, DBS Class 66 165 leads the 6V62 09.17 Fawley - Tavistock Junction. *Richard Hargreaves* 

Bottom Right: Class 66 527 heads the 6C66 14.43 Moorswater to Westbury cement train through Dawlish Warren on July 23rd. *Richard Hargreaves* 

Below: Network Rail's Class 950 001 heads through Totnes on July 24th. Richard Hargreaves











Above: 3-car Class 150 921 pauses at Dawlish on July 23rd with a service to Cardiff. *Richard Hargreaves* 

Top Right: On August 9th, looking out towards Shell Cove, FGW HST power cars Nos. 43041 and 43159 have just emerged from Parson's Tunnel on 1A78 Penzance - Paddington. Steve Thompson

Bottom Right: On August 7th, after Class 57 603 had failed near Camborne on 1A40 the previous night, 57 605 was added to the consist of 1C99 Paddington - Penzance in order to facilitate a rescue. Here we see 57 605 and the errant 57 603 at the head of 5C99 passing through Dawlish. Steve Thompson

Below: On August 5th, the return working of 'The Torbay Express' approaches Dawlish hauled by BR Class 8 Pacific No. 71000 "Duke of Gloucester." *Steve Thompson* 











Above: The two former London Midland Class 153s are popular in these parts, their livery demonstrating what a pleasing image can be achieved if you really try. It is not often they get to work together, of course, but on August 10th, Class 153 325 and 153 333 are captured working with 143 618 on 2F47 Paignton - Exmouth. Steve Thompson

Top Right: CrossCountry's Class 221 124 heads through Teignmouth on July 23rd with a Plymouth - Edinburgh service. *Richard Hargreaves* 

Bottom Right: The CrossCountry 'Voyagers' are particularly problematic during high seas at Dawlish, however on August 11th, Class 221 126 seen to have survived whilst working 1V47 Manchester- Paignton. *Steve Thompson* 

Below: On August 10th, Class 66 510 heads along the sea wall on 6C17 Westbury - Moorswater cement tanks. Steve Thompson







