



John joined the team in September

Clearwater Strengthens Team

Clearwater is delighted to welcome John Hughes to the team of Project Managers.

John was appointed Senior Project Manager recently and brings many years experience in Aerospace, Food and Food Packaging industries.

He is a traditional, time served, engineer from an era when good apprenticeships were the norm. Good old fashioned training sure, but John is anything but old fashioned in attitude. As Engineering has changed John has developed new skills to embrace new technology. John is currently managing a significant project for Clearwater at Airbus but is available to provide innovative solutions for your manufacturing process requirements.

SENNA Film Review and Prize Competition

You don't need to know, or care, about motor racing to enjoy Asif Kapadia's film Senna

The story of racing driver Ayrton Senna – charming, talented, mouthy and dead at 34 after a crash at the San Marino Grand Prix in May 1994 – was screaming to be told, and this moving and often funny film brims with energy, passion and respect.

The tightly constructed screenplay and subtle use of voice over dialogue from Senna's sister, doctor and team members presents Senna as a full character, who matures in a short time from a determined newcomer to a crowned world champ, and ultimately to a skeptical, but resolute young veteran.

What makes this film especially compelling is the flawless editing of endless hours of archival footage to construct a narrative that resonates and never breaks away from the momentum essential to the sport of driving – and mimics Senna's relentless racing style.

The immediacy of the approach is exhilarating and, as we approach the inevitably tragic ending. It is impossible for anyone to emerge unmoved from this shattering film.

Competition:

To win a DVD copy of this thrilling film simply e-mail the name of the driver considered to be Senna's biggest rival to: support@clearwatergroup.co.uk

Please include your full name and address. A copy will be sent to the senders of the first three correct answers.



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New Research and Development Facility Opens

Increasing demand for innovation led solutions from Clearwater's customers saw the design and build of a brand new facility at their 7-acre site in the UK.

The company now has a dedicated research and development facility sitting alongside its three other design, manufacturing and management buildings. This marked the latest phase of investment in people and technology to further support Clearwater's customers.

The 'Made in Britain' ethos, central to the Company's values is consistent with many of the industrial, automotive and aerospace manufacturers that have been such a big part of Clearwater's heritage.

Clearwater's project management skills were also in demand as the building project coincided with the busiest summer shutdown in the company's 30 year history. Successful project completion – on time and on budget – came just in time for the late autumn sunshine!

Thanks to all Clearwater's customers and suppliers for their tremendous support throughout a ground-breaking year.



A new perspective at Clearwater's site



Clearwater's Nicky Winfield and Lianne Bishop take a peek

BMW Mini – Two Million and Going Strong



David Cameron drives the 2 millionth Mini off the line

Clearwater added its congratulations to BMW Mini as the companies continue to work together.

Prime Minister David Cameron has driven the two millionth Mini off the Oxford production line, 10 years after the start of production.

During the visit the Prime Minister was briefed on preparations at the plant to produce the next generation Mini including new production facilities currently under construction.



Clearwater Chuckles

For every idiot proof system devised, a new, improved idiot will arise to overcome it.

Inside this issue, the chance to win a DVD of the brilliant new film "Senna"



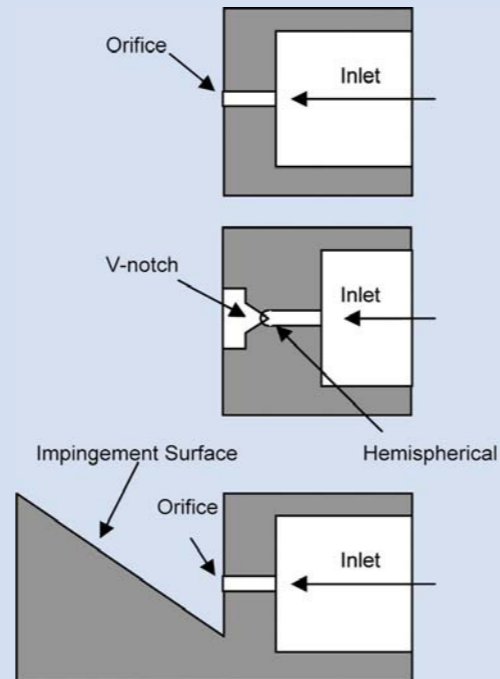
Nozzle Knowledge (spray nozzle basics)

Spray nozzles utilise the kinetic energy of the liquid being sprayed to break it up into droplets (atomisation). The shape of the nozzle dictates the shape of the spray. The most common and simple nozzles are explained here.

Plain Orifice - The simplest nozzle is a plain orifice that directs the stream of fluid and produces little, if any, atomisation. However if the pressure drop is high (at least 25 bar) the liquid can be finely atomized. At lower pressures, this type of nozzle is often used for tank cleaning,

Flat Fan - The shaped orifice uses a hemispherical shaped inlet and a "V" notched outlet to cause the flow to spread out on the axis of the V notch. This type of nozzle is often used for component cleaning – particularly automotive bodies in the pretreatment plant.

Surface Impingement – The orifice directs a stream of fluid on to an impingement surface that creates a flat spray pattern of atomised drops. The impingement surface can be formed in a spiral to yield a spiral shaped sheet approximating a full cone spray pattern; or, by changing the geometry, a hollow-cone spray pattern. This type of nozzle is used where accurate application of fluid is required.



Nozzle Supply Added to Product Portfolio

Clearwater has recently entered into a long-term partnership with a specialist industrial spray nozzles manufacturer. We now offer nozzles and eductors in a variety of materials, including, brass, stainless steel, hastelloy and plastics including PVC, Polypropylene and PVDF, for virtually any application.

Nozzle tips and orifice inserts are also available in a range of tungsten carbides, ceramics and hard metals.

Clearwater is delighted to extend its portfolio of products and is on hand to assist and advise you with all your spray nozzle and eductor needs. As always, Clearwater is confident its products and services will offer a competent technical solution and provide excellent value.



Clearwater Chuckles



Four-wheel-drive just means getting stuck in more inaccessible places.

North West Office Opens



Clearwater's North West Office

Clearwater is delighted to announce the opening of its new offices in the North West. Having identified a cluster of key customers and negotiated a number of projects in the region, a permanent presence there now provides local support and timely service.

The offices, in Chester, are staffed by senior members of the project team and also provide a base for engineers from head office as larger projects in the region are fulfilled.

Opening the offices is an important part of Clearwater's business development plans. We have increasingly seen the North West as one of the growth areas for manufacturing - and supporting manufacturing is, of course, our business.

The dedicated telephone line is 01244 679747 and head office contact details are below.

Process Support at Every Stage

UK Account Manager, Julian Collis who joined the team recently has quickly developed a clear understanding of what Clearwater offers. He sums it up as "process support at every stage".

Clearwater has the experience, technology and capability to help manufacturing through all process stages- start of life, midlife and end of life.

Start of life stage – Preparing water for use in processes - deionisation, reverse osmosis and desanding. For example we recently installed a deionisation plant at JCB Earthmovers.

Mid-life stage – Removing contaminants and waste from process water/fluids to improve quality, efficiency and reduce waste. hydrocyclones, filtration, membranes. For example hydrocyclones are successfully removing metal fines on body wash at Jaguar.

End of life stage – Separation technologies to remove contaminants / treat effluent to overcome discharge consent and environmental issue – hydrocyclones and effluent plants. For example we are currently installing an effluent plant at Airbus.

Julian and his colleagues will be delighted to help you with any, or all, of your process stages.



Julian talks process

Clearwater Chuckles



The early bird might get the worm, but the second mouse gets the cheese.

Could you make this?

Don't worry, it's not one of our designs!

