Open day at centre

4

INNOVATIVE businesses looking for hi-tech premises have been invited to an open day at the expanding Westthorpe Business Innovation Centre in Killamarsh, near Sheffield. North East Derbyshire

District Council, which manages the complex, on Green Lane, Killamarsh, is building a £3.2 million second centre on the site to cope with increased demand from small to medium-sized businesses working in the knowledge based economy

The council is inviting prospective tenants from South Yorkshire and North East Derbyshire to visit the centre on Thursday October 4, from 2

Big race sponsors

IRELAND'S premier bloodstock auctioneers, Goffs, and Doncaster Bloodstock Sales are marking their recen merger by sponsoring the feature race on Ladies' Day at Doncaster St Leger Festival.

The merger has created an auction house which expects to sell around 10,000 horses a yea in Ireland and Doncaster.

Goffs and DBS's support for races on both sides of the Irish Sea is expected to generate more than $\notin 4.3$ million ($\pounds 2.9$ million) worth of prize money in 2007, increasing to a possibl €6.2 million (£4.2 million) in

Software solution

XACTIUM, the Sheffield-based software specialist, has unveiled a new product that

The company says its new 'Business Motivation Solution can be used across all business sectors and will be instrumental in helping to both manage goals and objectives and analyse the decisions behind strategic plans.

Managing director Dr Andy Evans says the software is the first standards-based business motivation solution that helps companies comply with the demands of corporate govern ance, at the same time as developing and managing all

Fewer failures

THE number of companies going into administration has fallen by 15 per cent across the UK and 22 per cent in Yorkshire. Humberside and Tyneside, says business advice firm Deloitte

But, Ian Brown, **Reorganisation Services** partner at Deloitte in Leeds. varns the figures should be treated with caution.

"At Deloitte we are seeing more work dealing with troubled companies, which were acquired from earlier failed enterprises and which are now beginning to fail again with increasing momentum.

PROFILE Dusiness

By Robert Rae

Business Editor

They all turn to Manvers-

based Purex International to

solve their environmental,

The company, founded in the

arly 1980s by Phil and Jill

Mullins and brother-in-law Rob

Furner, and now owned by

Domino Printing Sciences has

built a reputation as a leading

innovator in the field of fume

That in turn has fuelled its

rapidly working its way up the

gulators' priority list, culmi

ating in the introduction of

the COSHH regulations cover-

ing the Control of Substances

For processes producing

narmful fumes or dust, compa-

■ Change to a harmless

Control the fume and dust.

■ Issue employees with Personal Protective Equipment

(PPE). Changing material isn't

often possible and PPE isn't as

fume or dust, which is where

In the firm's early days, the

imes given off by solder were

a leading causes of occupa-

tional asthma, so it was hardly

surprising the electronics

Purex's biggest customers.

company's business

Purex extractor.

for lasers.

ndustry became one of

To this day the sector

emains a major part of the

The Farfield Park company

supplies equipment for every-

thing from full production lines to single soldering sta-

tions - up to 50 of which can be

onnected to a single, central

Another area which has

ears has been fume extraction

grown in importance over the

satisfactory as controlling the

nies have three choices.

rnative

urex comes in.

and dust control technology.

ets around the world.

nother's opportunity.

1980s

nealth and safety problems.

factories have in common?

HAT do nail bars, fish

processors, bottling

plants and electronics

Company: Purex International

Address: Fairfield Park. Manvers Business Complex, Rotherham

growth and is opening up mar-The company supplies sys-tems used in schools, laborato-Purex is a classic example of ries, hospitals - for laser surow one man's problem is

But one of the biggest appli-The company began life when health and safety was cations is for production lines including bottling plants many of which now use lasers in preference to ink jet printers for marking batch numbers. sell-by dates and the like. Hazardous to Health in the late Fume extraction is doubly

important when lasers are used in bottling plants as the systems can mark up to 70,000 bottles an hour

Not only do the lasers create a small amount of fume, their lenses are expensive to replace if hot glass or plastic spits back and sticks to them.

Purex sells across Europe through a chain of distributors and also works directly with Original Equipment Manu-fac

Eastern Europe is opening up as an important market, as companies start moving production from Britain to lower cost countries and take their health and safety practices with them, says European sales chief John Twigg.

The company is also keen to seize opportunities to marry its advanced dust and fume control systems with laser and other equipment being made in emerging economies such as China, where its parent group - a world leader in ink jet and laser coding and printing tech nologies – already has a foot hold.





Dealing with polystyrene mountain: Eric Butcher fills the Purex Styromett machine ... and shows the much-reduced residue which can be put to a number of uses

Innovation at heart

INNOVATION has been at the heart of the Purex success and is taking the firm into emerging markets in the Far East and Asia, which are traditionally seen as competi-tors by Western manufactur-

The company's innovations include adjustable-arm technology for use with soldering stations, comprehensive monitoring and control systems and a pre-filter designed to capture larger particles, which the company calls a "labyrinth filter."

More recently the company as developed tailored "Nail Stations" for beauty salons and, thanks to its partnership with Taylor Products, the

new Styromelt thermal densifier for waste polystyrene. The arm incorporates a patented knuckle joint, which allows operators to adjust the positioning of the extraction arm without having to

inscrew and then re-tighten fixing bolts. The patented labyrinth filter is one of the company's major breakthroughs – a series of square, open weave, filter bags, fitted together like the bellows of a concertina, which has around ten times the life of a normal filter and cleans the air before it goes through the main high effi-

ciency particulate air or HEPA filter. Both the Labyrinth and

HEPA filter are also designed to be changed independently and in seconds, without the need for tools.

Purex control systems range from simple, LEDbased warning lights, to full digital systems, incorporating electronic flow control. which allow the user to set a target vacuum and extraction rates, define when warnings should be triggered and monitor the actual vacuum and temperature the system is operating at.

The company makes every thing from small-scale cabi nets to industrial-scale purification facilities with features that include acid resistance.



Purex base: Management team includes Andy Easey, Paul Priestley, Jon Young, Graham Mattock and Phil Downing; right, the Manvers shop floor

processes and plans from a central source.



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Taking the risks out of technology Specialists able to extract noxious fumes that threaten health of process workers

STYROMELT





Tackling the mountain of polystyrene

A PIONEERING partnership between Manvers-based Purex and packaging, automation and equipment specialist Taylor Products is helping to solve the major environmental problem of what to do with a growing mountain of polystyrene

Enough foam to fill 15,000 Olympic swimming pools is sent to Britain's landfill sites every year, costing companies an arm and a leg and using up valuable space.

Taylor Products came up with the origi-nal idea for reducing the volume of the foam and turning it into material that could be used as a replacement for hardwood among other things, or even a source of bio-

The Welsh company initially approached the Rotherham firm for help with control-ling the fumes given off by the process, but then suggested Purex develop and make the machine itself.

Purex's Styromelt machine reduces the volume of polystyrene foam by about 95 per cent, turning it into a solid block.

Blocks can be turned into products, incinerated, releasing about twice as much energy as a similar weight of coal, or even turned into fuels such as green diesel.

Purex claims a standard Styromelt machine, processing 10 cubic metres of foam a day for five days a week, could pay for itself in just 44 weeks and go on to save users around £15,000 a year.

The company has already supplied machines to a fish processor who needs to get rid of the ice-packed foam boxes, and to Rolls Royce, which wants to recycle the foam the chrome work it uses comes packed

Another machine has gone to an independent electrical retailer, who doesn't generate enough waste foam to justify a machine of his own but plans to make it pay by getting rid of foam for seven shops in the same parade as well as his own. Taylor Products, meanwhile, has sold

machines to French and Spanish supermarket chains and has plans to develop a process for turning the blocks produced by the Styromelt into Liquid Petroleum Gas

Impact on the environment

EXPANDED polystyrene is a pain

The total environmental impact of making it – in terms of energy consump tion – is the second highest of any material according to some experts, and, it is a night mare to dispose of

Although it is a plastic, its light weight and low scrap value make it unattractive to recycle and that means there is a lack of uitable recycling facilities.

Some of it is recycled as a filler in other plastic products, but expanded polystyrene used to store meat or fish cannot be re-used because it is invariably contaminated by blood and most of it eventually ends up in landfill sites.

Ninety per cent of it is air. Even crushing it only reduces its volume by 50 per cent, so it takes up a lot of space.

More than 300,000 tons of expanded poly styrene is thrown away in the UK every

To make matters worse, it takes a very long time to decompose.

But, it is a superb insulating material and great for protecting electrical goods from damage during transit, so it isn't going to go away



Nail bar: Sam shows how

Beauty defeats the beast

THERE'S a beast stalking the beauty industry. It's practically invisible and it

leaves beauty technicians with headaches, nausea, breathing dif-ficulties and no sense of smell.

The problem centres on acrylic false nails, the glues and resins used to bond them to the natural nail, and varnishes to cover them Breathing in fumes and acrylic

dust from filing nails caused Sam Mawhood so much grief that she quit her job as a nail technician. She found a job with Purex and

that put her in the right place to suggest the industrial dust and fume extraction experts had the equipment to tame the beast.

The result is a tailor-made nail bar, with its four-way extraction system that saves nail technicians rom breathing in dust and fumes

The Purex Nail Station draws nail dust down through a grille in the nail bar table. Chemical fumes are sucked away through a flexible extraction arm which incorporates the work lamp. Fumes from bottles and dishes stored under a cowl are drawn away, and there's a vent in the storage drawer. Nail bars are selling in the Far East.

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