

Medical Device Developments

Media partner:
Eucomed
Medical Technology
www.eucomed.org

MEDICAL IVAM
14th-17th November, 2016
Dusseldorf, DE



electronica
8th-11th November, 2016
Messe München



2016 Vol. 2

www.medicaldevice-developments.com

£29.99 €46.49 \$61.99

Reach out to the future

Robotic grippers with more touch sensitivity could mean a revolution in medical manufacturing

IoT and M2M

We examine how the internet of things can be best used in the medical industry

Body-rocking treatment

Advances in bioelectronic devices mean manufacturing partnerships are now crucial to success



haemoglobin and the effects of the ambient light were successfully eliminated, improving quality impressively.

Further information

velixX
www.velixx.com

Customer-branded sterilisation packaging with indicators



Bespoke sterilisation packaging is offered by Westfield Medical.

Westfield Medical is able to print customer branding and Class 1 indicators on sterilisation packaging.

Westfield is an established manufacturer of single-use sterilisation packaging with over 45 years' experience. In addition to its core products, Westfield offers an in-house bespoke printing service using a five-colour flexographic printing press. This allows very detailed graphics that support specified branding and bespoke designs across a variety of materials. These materials include grid lacquer, foil, direct seal papers, coated and uncoated Tyvek, Supradrape, and a variety of co-extruded and laminated materials.

Printed products are available in a variety of sizes and styles, and can be printed on pouches, reels, top webs and bags.

In addition to bespoke branding, process indicator options are available using the following methods and papers:

- EO – Tyvek 1073B, direct seal paper, grid lacquer, all-over coated
- plasma – Tyvek
- steam – direct seal paper
- formaldehyde – direct seal paper.

Whether a customer is looking for a complete medical-packaging partner to assist with certain projects or bespoke branding, Westfield Medical has the experience, background and reputation to advise on the most appropriate methods.

Based in the UK, Westfield exports to over 90 countries worldwide and works with its many customers to offer flexibility through a standard product range or a bespoke service, from concept through to point of use.

DuPont and Tyvek are DuPont trademarks or registered trademarks.

Further information

Westfield Medical
www.westmed.co.uk

Protection, licensing and security of medical endpoints



Wibu-Systems can help monetise healthcare applications with software protection and licensing.

The health industry is being transformed by a new wave of technological innovation. Machines are greatly improving the quality of service, from surgery rooms to analytical laboratories – but just as humans have their failings, machines, too, have vulnerabilities.

Medical-device manufacturers and providers of advanced technology are facing the need to extend their expertise and implement security measures directly into the design of their sensors, PLCs, embedded devices and virtual systems – in other words, the endpoints.

Wibu-Systems offers internationally patented and

award-winning technologies that protect code integrity from hackers, crackers and pirates. By safeguarding the technical know-how of their digital assets, medical stakeholders are making an investment in the survival and evolution of their businesses.

CodeMeter is the universal technology from Wibu-Systems, ideal for:

- software protection against piracy, reverse engineering and tampering
- software licensing in a secure, streamlined and flexible fashion, fully integrated with back-office processes like ERP, CRM and e-commerce
- software security against espionage and cyberattacks.

Software publishers can implement the strongest encryption mechanisms with minimal effort, simply by processing the compiled code through an automatic wizard. Encryption can further enhance the privacy of patients' records.

The same protected software is delivered to all customers – what distinguishes the performance and functionality on the target device is the licence. CodeMeter provides several preset schemes, including licences for stand-alone PCs, networks, or cloud and virtual environments. It is the extreme scalability of configurations – by feature, use, subscription and upgrades – that results in the greatest business-enabling opportunities.

For maximum endpoint security, licences are associated with a hardware secure element – a dongle, memory card, TPM, or ASIC – that embeds smart-card technology and withstands even the harshest environmental conditions. Alternatively, a

secure file bound to the properties of the machine can serve that purpose.

Further information

Wibu-Systems
www.wibu.com

Partner of choice for cytotoxicity testing



Cytotoxicity testing is used as a precursor to toxicology work.

All biomaterials used in products that come into contact with patients must be thoroughly tested. This is to determine that there are no cytotoxic effects and that the biomaterial is therefore biocompatible. Wickham Laboratories offers cytotoxicity testing to ISO 10993-5 by two methods: cytotoxicity by extraction (suitable for medical devices tested as composite or individual components) or indirect contact. Indirect contact methods can be carried out with the use of an agar overlay (suitable for small, lightweight products such as contact devices) or filter diffusion (suitable for liquid preparations).

Wickham Laboratories is a GMP/GLP-compliant laboratory with five decades of global experience, and can advise on the most appropriate methods for clients.

Regularly audited by the MHRA, FDA and other regulatory authorities, its methods are properly accredited and validated. It also maintains partnerships with several external providers to offer additional testing methods, such as other tests in the ISO 10993 series.

Further information

Wickham Laboratories
www.wickhamlabs.co.uk