

huge improvements take place in years and decades, but in the medical device field, change happens in a matter of weeks and months.

CWT is proud of the fact that it fully understands that only through continual quality control and equipment upgrades will it grow and succeed. What yesterday was the latest piece of grinding or coiling equipment is today's anchor, with little or no market value.

A few of the highly sophisticated products that CWT supplies to the medical equipment device manufacturers, and directly to surgeons and doctors around the world include: medical-grade custom fine-wire coils, complex wire forms, custom k-wires, orthopaedic pins, wires and screws, continuous and reinforcement coils, custom guidewires, ultra-fine wire components and customised Steinmann pins.

Further information

Custom Wire Technologies
www.customwiretech.com/mdd

Quality rubber products



Da/Pro Rubber's products meet demanding standards.

Da/Pro Rubber manufactures custom products including diaphragms, seals, connectors, custom shapes, rubber-to-metal parts and more.

Its facilities are located in Oklahoma, California and Massachusetts in the US, as well as Singapore, and it has ISO 9001-certified facilities and a class 10,000 clean room.

Known for high-precision, close-tolerance moulding services, Da/Pro Rubber can manufacture LIM/LSR products to these same demanding standards.

Compression and transfer moulding consists of proprietary processes developed by Da/Pro Rubber. The presses are designed to adjust for compound or part-configuration variables. The moulding process is computer controlled and monitored to maintain consistent moulding conditions, assuring the duplication of the product throughout the moulding cycles.

When it comes to material development and qualification, Da/Pro staff chemists are available to develop organic, inorganic or silicone compounds to satisfy specific customer requirements. Physical properties of all rubber compounds that are critical to the function of the moulded product are monitored in the Da/Pro Rubber laboratory.

Da/Pro has a complete in-house engineering department to assist in the mouldability of your components. The company's CAD/CAM capabilities guarantee effective precision tooling at competitive prices.

To ensure consistency of products, quality is monitored throughout each process using a system based on ISO 9001 standards, and advanced statistical process control is used to monitor material properties and mixing, moulding operations and final product conformance to specification.

The final proof of the success of these efforts is the part itself. To ensure quality, all parts are visually inspected to check that they conform to design criteria.

In addition, leak and

deflection testing for diaphragms and insulation testing for connector inserts may be specified. Whatever the customer's moulding needs, Da/Pro has the expertise, experience and world-class service necessary to find a solution.

Further information

Da/Pro Rubber
www.daprorubber.com

Bioresorbable X-ray markers



Resorbable X-ray markers for post-op control in a resorbable cervical cage.

In the last few years, spinal cages composed of bioresorbable materials – especially polylactides – have been introduced in clinical practice. Their advantages include the fact that they are temporary, have a lower modulus of elasticity and are radiolucent. Bioresorbable cages lack interference with computer tomography or magnetic resonance imaging, offering advantages for accurate assessment of the fusion segment. However, the radiolucency of the cage may compromise the conventional radiological positioning and follow-up after surgery.

Degradable Solutions has developed bioresorbable X-ray markers that enable intra-operative control of implant positioning and facilitate post-operative follow-up.

The company's X-ray markers are made of poly-L-lactide and barium sulphate. They are manufactured by injection moulding, and due to their small dimensions (cylinder diameter: 1.0mm; length: 1.3mm), they can be inserted into the

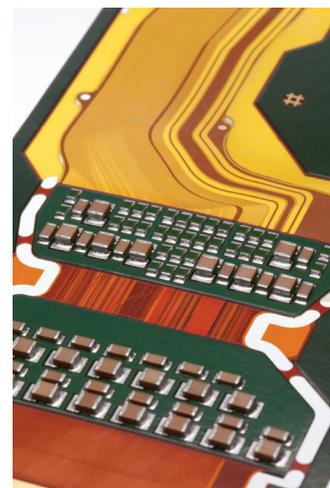
resorbable spinal cages, as well as in bony tissue. Their main benefit is that they ensure exact intra and post-operative positioning of resorbable implants (bioresorbable cages, for example), and offer good control and visibility, even in the spinal column.

As a specialist for resorbable implants, Degradable Solutions offers the possibility to modify the X-ray markers according to customer needs.

Further information

Degradable Solutions
www.degradablesolutions.com

PCBs for imaging applications with highest resolution



DYCONEX PCBs achieve ultra-high resolutions, cost-effectively.

Diagnostic imaging demands resolutions that produce brilliant, as-real images. To help achieve these high resolutions, DYCONEX offers highly complex HDI/microvia printed circuit boards (PCBs) in flexible, rigid-flex and rigid versions, as well as LCP (liquid crystal polymer) substrates. These multilayer systems stand out due to line widths smaller than 40µm and very thin metal layers.

In applications such as ultrasonic probes or endoscopy cameras, PCBs contain a large number of very fine and very long parallel traces. For the cost-effective manufacture of such