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MED Devices

Microdrives take orthopaedics by storm

Dr. Fritz Faulhaber GmbH & Co. KG, Schönaich

When seeking to alleviate physical disabilities, preference is given to devices that are as "natural" as possible. Modern prosthetic legs have little in common with the rigid devices used in the past. Equally high-tech are the devices used for complicated surgical procedures. Customized motors and gear components to move the mechanical systems improve both technologies.

Norm compliance for network connections

Kontron AG, Eching

Manufacturers of medical technology or IT vendors integrating applications into hospital network environments are faced with the problem of having to supply network connections that are suitable for medical devices. That is not an easy job, if expensive and risky external insulators are to be avoided.

Intensity-Modulated Radiosurgery System

Maxon Motor AG, SACHSELN

Driven by more than 100 maxon motors, the shape-shifting multileaf collimator focuses radiation on tumors while protecting surrounding healthy tissue in sensitive areas of the body.

Showing robot assistants the way

Micro-Epsilon Messtechnik GmbH & Co. KG, Dipl.-Wirtsch.-Ing. Florian Hofmann, Ortenburg

Automation in medical technology is no longer an alien concept. Increasing cost pressures and staff shortages call for new techniques to be used to improve operational efficiencies. Assistance systems and surgical robots are therefore being used increasingly in a variety of applications. Reliable displacement measurement is paramount for these devices. The Micro-Epsilon solution using draw-wire sensors is safe and simple to use. In series, for example, these sensors are employed in an assistance system to minimise invasive surgical interventions.

Piezo Actuators for Precise Positioning Systems and Scanners

Physik Instrumente (PI) GmbH & Co. KG, Karlsruhe

A number of imaging techniques are now increasing efficiency in medical research, diagnostics and therapy. Optical metrology is often the cradle of familiar methods, especially those used in automated processes, e.g. interferometry or microscopy. Ultrasonic and magnetic resonance techniques are ideal for a variety of visualization tasks. The various methods have one fundamental thing in common: They need fast, precise drive systems. If the application so requires, they must also be as compact as possible or operate reliably even in strong magnetic fields. Piezoelectric drives, scanners and positioning systems are a safe bet here.

Lighting for better results

Volpi AG, SCHLIEREN

Without high-quality lighting systems, modern medical technology, for example, would be unthinkable. From operating table lighting and endoscopy to the systems for diagnostics, monitoring and therapy, good results can be achieved only with light that is efficient and tailored to the application.

Moving patients precisely

THOMSON Neff, Wolfschlugen

The performance of diagnosis systems like CT is much higher than it used to be. In addition, they are cheaper and exposure time as well as the dose have been reduced. High-tech components, like customized drives make these improvements possible.

MED Electronics

Conforming to standards

BICKER Elektronik GmbH, Donauwörth

In order to protect patients during a treatment or a diagnostic procedure, power supplies in medical devices have to meet all the requirements, defined in the IEC 60601-1. In addition EMI is another challenge. Expert knowledge avoids pitfalls.



Please turn over



Reliable solutions for medical equipment in homecare supply

ODU Steckverbindungssysteme GmbH & Co. KG, Mühldorf

As a technology of the future, medical electronics currently counts as one of the largest growth sectors - to compare: the European market for medical connectors has grown faster over the last few years as the total market for connectors. The growing market is providing innovation stimuli, is leading to more productivity and cost efficiency in health care and is thereby creating completely new areas of use and demand for the therefore required connector systems.

Breath smoothly

Sensortechnics GmbH, Puchheim

MEMS pressure sensors can be produced cost-effectively. In addition they are small and provide a high flow resistance. Perfect for the use in a respirator.

Materials

Material Selection in Catheter Production

Raumedic AG, Helmbrechts

The multi-component technology under clean-room conditions offers the ideal requirements for the development of new, innovative medical and pharmaceutical products. As well as improved economic aspects, the primary aim is to improved functionality of new tubing products, with the aid of co-extrusion technology.

Plastics is the future

Weidmann Plastics Technology AG, RAPPERSWIL

Plastics used in medical devices or appliances have to meet many requirements. The patients safety is paramount. On the other hand the adaptability of plastics, e.g. by additives, cannot be achieved by any other material.

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