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Next generation of rubber seals inspection systems at IRC 2009

Oakdale, May 7, 2009 – NELA/OMCS - At IRC 2009 (International Rubber Conference) in Nuremberg, NELA will launch the next generation of its ROVI and LIVI inspection systems for rubber seals. Through the acquisition of OMCS, NELA & OMCS engineers continued the development of the automatic optical inspection systems for rubber & ceramic seals and is now proud to present the next generation.

The ROVI 02 is NELA's inspection system for highest quality standards; i.e. for the inspection of seals with complex geometries or multiple inspection criteria. Pieces are placed into a pallet and viewed by various 2D and/or 3D cameras in high resolution. This guarantees a 100% control of all areas of the inspected part and an error detection rate that has been previously unachievable.

Detection of edge breakage is also possible through deformation of the piece. The ROVI 02 presented at IRC is designed for oil/shaft seals and features an automatic feeding system. The design of the ROVI 02 is modular so that the inspection unit and feeding system can be easily adapted to customer's individual requirements.

The NELA LIVI has been designed for high throughput of up to 10 parts/sec. The parts are inspected from both sides as they pass through the machine. A modular machine design with inspection on one or on both sides, as well as with various camera stations, allows for an easy and flexible adaptation to customer's needs. A specifically developed optical system that provides excellent visibility of the inner and outer edge of the O-ring is available as well.

Both LIVI and ROVI can also be equipped with 3D cameras, opening up completely new dimensions for inspection through faster measurements and higher resolution. The technology allows viewing of defects that were previously almost impossible to detect.

All NELA inspection systems are equipped with the OMCS VisionCheck software, which was specifically developed for the inspection of rubber seals. Its reliability and user-friendly interface have made this software popular among users.

You will find OMCS/NELA in hall 12, booth # 236 at the IRC – International Rubber Conference, Nuremberg, Germany, June 29 – July 2, 2009. www.irc2009.com

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About OMCS/NELA: *NELA is a well-known supplier of high-precision optical inspection systems for register control, as well as automation systems for the printing industry. As the market leader in the US, South America & Europe, we are also represented in Asia. The alliance with OMCS, the experienced developer and manufacturer of optical inspection and control systems, started at the beginning of 2008. Since January 2009, OMCS is part of the NELA-group. The conjointly developed modern inspection systems are successfully applied in serial production for quality control of seals made of rubber, plastic, or similar materials.*

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