Media Release

June 8th, 2017

DC motors in blood analysis machines

High-tech machines analyse human blood samples and detect coagulation disorders. Maxon motor France supplies the DC drives as well as builds entire conveyor modules especially for a customer.

Analysis devices in laboratories and hospitals run 24/7, autonomously pipetting samples to deliver quick results. Such industrial automation equipment must work with high accuracy and reliability. This in turn places high demands on all components of the machines.

Stago is a French company that specialises in analysis instruments for haemostasis diagnostics (for testing blood clotting). Maxon DC motors are found in Stago's StarMax machine. A fully automated analysis system, the StarMax is equipped with a three-axes robot with space for 215 samples and 1,000 test containers. Working autonomously the machine checks results, compares them and monitors the processes.

There are several varieties of maxon's brushed A-max DC motor combined with planetary gearheads, that are used for the movements of the rack. With varying diameters between 16 and 26mm, these DC motors were selected for being highly dynamic and easy to control. The DC motors have an ironless rotor and are manufactured autonomously giving them an attractive price-performance ratio.

For more information on applications involving mechatronics and automation please contact maxon motor Australia tel. +61 2 9457 7477.

Length of this press release: 215 words

The media release is available on the internet at: www.maxonmotor.com.au

Maxon's A-max DC motor and GP22 planetary gearhead © maxon motor

The analysis system STAR Max. © Stago

Maxon motor France technician Yannik Charel assembles the transport unit for the medical analysis device. ©maxon motor

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