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## PRESS INFORMATION

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### At Fakuma 2011:

## Smallest Model S5-15 from Sepro Completes New Range of High-Performance Robots

The Model S5-15, **the smallest unit in the advanced S5 Line of Cartesian beam robots from Sepro Robotique, debuts at Fakuma 2011**, the international plastics-processing tradeshow, October 18 – 22, 2011 in Friedrichshafen, Germany. Sepro is exhibiting on Stand A1-1203

**Designed to automate plastics injection-molding machines with 30 to 180 tons of clamp**, the S5-15 is the final model to be developed in **Sepro's 5<sup>th</sup> generation of high-performance robots** for complex automation applications. The S5-35, designed for molding machines from 350 to 800 tons, was first introduced at Fakuma 2009, while the S5-25, for molding machines from 120 to 450 tons, appeared last year at the K2010 show. All three of the S5 robots will be exhibited at Fakuma 2011, performing together in a coordinated automation ballet.

Each of the S5 Line robots was developed with **longer strokes and larger payload capacities than** units of comparable size in the previous Generation 4 (G4) range. For instance, the standard 5-kg (11-lb) **payload of the S5-15 represents an increase of more than 66%** over the maximum available on the G4 unit, and the 500-mm (19.6-inch) **demolding or strip stroke is 25% longer**. This means S5-15 can handle parts with deeper draw.

A single-piece rigid frame structure, combined with prismatic linear guide rails and powerful servomotors, mean that this increased level of performance is achieved while **maintaining the same level of speed on all axes**. Maximum speed on the horizontal axis is 4 m/sec (13 ft/sec), 5 m/sec (16.5 ft/sec) on the vertical axis, and 3 m/sec (10 ft/sec) on the demolding stroke. Other important specifications include a 1500- to 4000-mm (60- to 157-inch) horizontal stroke and a 1000-mm (40-inch) vertical stroke.

"The S5-15 now completes the introduction Sepro's 5th generation of high-performance robots," reports Jean-Michel Renaudeau, Managing Director. "These robots are among the most advanced available and they are perfect for multi-axis, multi-function parts manipulation inside or outside the mold space on small and mid-sized injection-molding machines. For similar applications on machines from 500 to 5000 tons –

(More)

a size range for which Sepro is well-known – we will continue to offer Generation 4 robots in four different sizes.”

### **ADVANCED CONTROL**

Like all S5 robots, the new S5-15 is equipped with the **top-of-the-line Sepro Visual 2 controller** as standard equipment. At its core is a high-speed PLC, featuring scan rates as fast as 100 milliseconds. A **large, easy-to-read and -navigate 10-inch (254-mm) touch-sensitive LCD screen** makes operation simple and intuitive, while giving users access to full system documentation. A joystick allows operators to actually steer the robot to fine-tune its movements.

The large display screen and **onboard memory** makes it possible to consult all documentation and the user’s manual from the pendant at any time. If a fault occurs, troubleshooting data is displayed automatically and the notepad function allows information to be passed easily from one team or shift to another.

Optional digital vacuum setting, which allows users to fine-tune and store vacuum flow settings on the control pendant is available. Automatic initialization makes start-up faster by moving all robot axes to their proper starting positions with the push of a single button. Eco Mode – also a one-button function – automatically slows robot movements outside the mold areas to save energy and reduce wear and tear on the system.

### **NEW RANGE OF AFFORDABLE ROBOTS ALSO AT FAKUMA 2011**

In addition to the S5 robot range, Sepro is also introducing the Success 22, the first in a new line of **faster, stronger robots for unloading of parts and simple downstream operations**. The Success line builds on the legacy of the Sepro Axess Series, which first made **3-axis servo speed and precision** available to molders who have applications that require simple pick-and-place functionality and simple downstream operations. Using the same **platform manufacturing concept** perfected in the S5 Line, Sepro is now able to design and produce allows us to make a **truly affordable robot with enhanced speed and reach**, as well as all of the **quality and reliability** for which Sepro is well-known.

Sepro will also highlight its partnership with Sumitomo-Demag and other well-known injection-molding-machine manufacturers. These OEM agreements make it possible for customers to get **Sepro performance and reliability as part of a package** that integrates robot control and machine control.

### **ABOUT SEPRO**

Founded in 1973 and now headquartered in La Roche-sur-Yon (France), Sepro Robotique was one of the first companies in the world to develop Cartesian beam robots for injection-molding machines, introducing its first CNC controlled “manipulator” in 1981. Today, Sepro is the largest independent seller of Cartesian robots in Europe. Its German subsidiary, Sepro Robotique GmbH, is headquartered in Rödermark, near Frankfurt, and customers around the world are supported by numerous direct sales and service offices as well as independent business partners, distributors and service hubs that extend Sepro’s global network to over 40 other countries. Sepro’s German subsidiary accounts for 20% of the company’s global turnover of approximately €50 million. Sepro is the largest robot supplier of the automotive industry in Europe and America, and has equipped more than 20,000 injection-molding machines worldwide.