



Sepro Robotique
Rue Bessemer, Z.I. Les Ajoncs
F-85000 La Roche-sur-Yon
France
Phone: +33 2 51454700

Sepro Robotique GmbH
Paul-Ehrlich-Str. 16-20
63322 Rödermark
Deutschland
Phone: +49 6074 696 520

PRESS INFORMATION

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CONTACT: Gabriele Frost, Sepro Robotique GmbH, +49 6074 696 52-30; gfrost@sepro-robotique.com
Scott Collins, Marketing Communications, +1.216.382.8840; scollins@collins-marcom.com

New Sepro Robots Deliver Longer Strokes, Higher Payloads; Success 22 to Debut at Fakuma 2011

The **Success 22**, the first in a new line of **faster, stronger robots** for mid-size injection-molding machines, will be **introduced by Sepro Robotique at Fakuma 2011**, the international plastics-processing tradeshow, October 18 – 22, 2011 in Friedrichshafen, Germany. Sepro is exhibiting on Stand A1-1203.

“Our new Success robots build on the legacy of the Sepro Axess Series,” explains Jean-Michel Renaudeau, Managing Director of Sepro Robotique, La Roche sur Yon, France. “Like our Axess robots, this new line makes **3-axis servo speed and precision** available to molders who have applications that require simple pick-and-place functionality and simple downstream operations. Now, a new approach to design and production allows us to make a **truly affordable robot with enhanced capabilities**, with all of the **quality and reliability** for which Sepro is well-known.”

The new Success line of robots takes advantage of the same **platform manufacturing concept** that was perfected in the Sepro high-tech S5 Line robots originally introduced at Fakuma in 2009. Common subassemblies help achieve economies of scale while maintaining design flexibility and reducing manufacturing lead times.

Designed for plastics injection-molding machines with 150 to 450 tons of clamp, the new Success 22 is **faster and can handle bigger, heavier parts** than previous-generation Sepro Axess robots in the same size range. The standard payload of 10 kg (22 lb) represents an increase of 25% compared to the existing Axess 22. The 700-mm (27.5-inch) demolding or strip

(More)

stroke is 8% longer than the maximum available on the current Axxess unit. This means the Success 22 can handle heavier parts with deeper draw.

Even with this increased level of performance, **speeds on all axes have been increased.** Speed on the horizontal (X) and demolding (Y) axes is pegged at 2 m/sec (6.5 ft/sec), an increase of 67% on the demolding stroke and 18% on the horizontal stroke, compared to the Axxess 22. Vertical (Z) axis maximum speed is 20% higher at 3 m/sec (9.8 ft/sec). Other important specifications include a 1500- to 6000-mm (60- to 240-inch) horizontal stroke and a 1400-mm (55-inch) vertical stroke that can be configured using an optional telescoping arm for application where ceiling height is limited.

Sepro **Touch 2 controls will be standard** on all Success robots. They use ultra-simple icon-driven instructions so that even an inexperienced operator can create basic pick-and-place robot cycles. Easy-to-follow on-screen prompts lead the user through the execution of the robot cycle, including the teaching of all relevant robot positions.

Other standard features, normally available only on more expensive robots, include:

- Simultaneous motion on all three axes;
- ‘Y-free’ function, which makes it easier to program ejection tracking and saves on gripper costs thanks to its simple design;
- Multiple vacuum and pressure circuits to allow degating, selective part placement and other functions;
- Quick disconnects for fast end of arm tooling changeovers;
- Optional pneumatic R2 wrist rotation (parallel to the demolding axis) allows three positions during the cycle – 0°, 90° and 180°.
- Sepro exclusive elastic-mount option, which protects the gripper and mold during part gripping and softens the contact between the gripper and the molded part.

When complete, the Success range will include 4 units designed to serve molding machines from 20 to 700 tons. The new Success 22 will be available for delivery around the middle of 2012.

S5 LINE ALSO AT FAKUMA 2011

In addition to the new Success 22, Sepro will also display its complete S5 robot range – Sepro’s fifth generation of **robots for more complex automation applications**, along with the Visual 2, Sepro’s **most advanced robot controller**, and **high-capacity Generation 4 robots** designed for injection-molding machines as large as 50,000 kN (5,000 tons).

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

Sevro 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), Sevro 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, Sevro is the largest independent seller of Cartesian robots in Europe. Its German subsidiary, Sevro 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 Sevro’s global network to over 40 other countries. Sevro’s German subsidiary accounts for 20% of the company’s global turnover of approximately €45 million. Sevro is the largest robot supplier of the automotive industry in Europe and America, and has equipped more than 20,000 injection-molding machines worldwide.