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PRESS INFORMATION

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New Success 5 Robot from Sepro Offers Big Performance on Small IMMs

The Success 5, the newest and smallest in Sepro Group's range of economical, general-purpose Cartesian robots for plastics injection molding, delivers precise, 3-axis servo performance in simple pick-and-place and stacking applications.

First announced in late 2016 (along with the S5 Picker, which shares a similar mechanical design), the Success 5 is now available to equip injection-molding machines up to 80 tons. Like all Sepro Success robots, it is equipped with a standard R1 pneumatic (0° - 90°) rotation, but offers an optional R3 rotation (0° - 90° or 0° - 180°).

The standard Success 5 can be configured with horizontal strokes of 1000 or 1500 mm, a 400-mm demolding stroke, a 1000-mm vertical stroke and a 3-kg maximum payload. 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;

Standard equipment for the Success 5 also includes Sepro's Touch 2 control, which features a touch screen and ultra-simple, icon-driven instructions that enable even inexperienced operators to create basic pick-and-place robot cycles. Easy-to-follow on-screen prompts lead the user through the execution of the robot cycle, teaching all relevant robot positions as part of the cycle-development process.

(More)

The S5 picker, which was introduced at the K 2016 show in October, is built around the same compact 3-axis linear design as the Success 5 robot, but features a simple sprue gripper. The S5 picker can be supplied optionally with an R1 wrist rotation and can be fitted with simple end-of-arm tooling. This compact, fast-cycling picker operates entirely within the footprint of the injection molding machine or, optionally, can be configured to evacuate sprues or small parts outside the IMM footprint.

SUCCESS 5 SPECIFICATIONS	
Mold Clamping Force (Metric Tons)	20-80
Horizontal Stroke (mm)	1000-1500
Max. Instantaneous Speed – Horizontal (m/sec)	2
Strip Stroke (mm)	400
Max. Instantaneous Speed – Strip (m/s)	2
Direct Vertical Arm	✓
Vertical stroke (mm)	1000
Max. Instantaneous Speed – Vertical (m/s)	3
Max. Load – Parts & EOAT (kg)	3
R1 Pneumatic Rotation (0-90°)	✓
Part gripping -- Vacuum and/or pressure circuit	1
Compact Beam-Mounted Control Cabinet	✓
Touch 2 control (Visual 2, option)	✓
R3 Pneumatic Rotation (0-90-180°)	Option

About Sepro

Sepro 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, having equipped more than 30,000 injection-molding machines, Sepro Group is one of the largest sellers of robots in the world. Its 3-, 5- and 6-axis servo robots, special-purpose units and complete automation systems, are all supported by the Visual control platform developed by Sepro especially for injection molders. This unique controller is a key component in what the company refers to as ‘agile integration’ – a collaborative approach to equipment connectivity and interoperability between the robot and the IMM that can be tailored to exactly suit the specific needs of processors and injection-molding OEMs. For Sepro and its customers and partners, “The Future is Wide Open.”

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See photo on next page...



The new Success 5, the smallest in Sepro's Success line of general-purpose robots, offers precise, 3-axis servo performance on injection molding machines from 20 to 80 tons. Download a high-resolution file at: <http://tinyurl.com/kpcp7tp>