



Sepro Robotique
Rue Henry Bessemer, Zone Acti-Est
CS 10084 -85003 La Roche-sur-Yon
France
Phone: +33 2 51454700

PRESS INFORMATION

4 March 2021

CONTACT: Caroline Chamard, Sepro Group - France, +33 2 51 45 46 37; cchamard@sepro-group.com
Scott Collins, Public Relations, +1.216.382.8840; scollins@collins-marcom.com

Sepro Launches Packaged Robot Solutions for Medical and Pharmaceutical Applications

To meet growing demand for automation in clean rooms and other sensitive environments in medical and pharmaceutical molding plants, Sepro Group is introducing the MED Series of 3-, 5- and 6-axis robots.

These packaged units come ready-equipped with the design and operational features that medical customers have been requested on over 1500 molding machines sold in recent years for ISO 7 and 8 clean room applications. These features ensure clean operation as well as high precision and continuous productivity.

“Sepro robots increase productivity and enhance workflows” explains Claude Bernard, Product Marketing Director for Sepro. “Within the clean room market, our robots can be used across the entire production line – from assembly to inspection, traceability and packaging.”

The Swiss molding company, Fischer & Söhne, which produces medical and pharmaceutical products, uses Sepro robots in its clean rooms. CEO Iwan Tresch says: “With production based on the food industry standard BRC, hygiene and clean room requirements, no compromise is possible. With Sepro robots, we can increase our productivity while guaranteeing an optimal level of hygiene. Sepro is a responsive company, with fast delivery times and flexibility.”

In general, the Sepro MED robots include FDA-approved lubrication on all linear guiding surfaces and gearing. Cables can be protected in conduits and all robot surfaces are smooth, painted medical white and free of decoration that can allow dust to accumulate and to make cleaning easier. Only clean materials are used in many components – like end-of-arm tooling -- that come into contact with the molded parts. Places where grease or other lubrication is used are enclosed so that none can escape into the molding area. 5X

More

MED robots include a two-axis servo wrist to provide a total of five numerically controlled axes of motion. S5 Line MED robots have three servo-driven axes and a pneumatic wrist. All robots can be optionally equipped with pneumatic filtration to 0.3 micron.

CARTESIAN BEAM ROBOTS

The 5X MED and S5 Line MED ranges each include robots in three different sizes to allow them to serve molding machines with from 30 to 800 tons of clamping force. Nominal payload capacity (part plus end-of-arm tooling) ranges from 5 to 20 kg (11 to 44 lb.). The robots can be installed in a conventional transverse or space-saving axial layout. Available stroke lengths are as follow:

		S5/5X 15 MED	S5/5X 25 MED	S5/5X 35 MED
Horizontal (X)	mm (in)	1500 – 4000 (59 – 157)	1500 – 6000 (59 – 236)	2000 – 9000 (79 – 354)
Demolding (Y)	mm (in)	500 (20)	700 (28)	900 (35)
Vertical (Z)	mm (in)	1000 (39)*	1400 (55)**	1800 (71)**

* Direct Arm

** Telescopic Arm

6-AXIS ROBOTS COMPLY WITH ISO 5

Offered in collaboration with Stäubli Robotics, the Sepro 6X MED 6-axis-servo articulated-arm robots are inherently clean. The standard Staubli arms are certified for ISO 5 (Class 100) clean rooms without modification. However, the smooth, clean white surfaces make keeping them clean just that much easier. In fact, the 6X MED robots can exceed the level of cleanliness possible with injection-molding processes.

6-axis robots are typically floor mounted (but can be ceiling-mounted) and usually enter the molding machine from the side. Laminar air flow allows these installations to meet the requirements of ISO 7 and 8.

Four models are available to serve molding machines from 20 to 1300 tons.

		6X-60 MED	6X-90 MED	6X-160 MED	6X-200 MED
360° Reach Long Arm Version	mm (in)	670 (26) 920 (36)	1200 (47) 1450 (57)	1710 (67) 2010 (79)	2194 (86) 2594 (102)
Payload	kg (lb)	3.5 (7.7) 2 (4.4)	6 (13.2) 5 (11)	20 (44) 14 (30.8)	100 (220) 60 (132)

In addition to 3-, 5- and 6-axis MED robots, Sepro also supplies a wide range of peripheral and downstream equipment, including end-of-arm tooling, safety guarding, conveying systems, part inspection and part separation. “Solution by Sepro” is also available to integrate multiple robots, specialized end-of-arm tooling, plus a variety of feeders (bowl, drawer or manual), cavity separation, degating/trimming, box filling and other equipment – all customized to suit specific manufacturing objectives.

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, Sepro Group is one of the largest independent sellers of robots in the world, offering a wider choice of robots than any supplier in the plastics industry. Three-, five-, and six-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 ‘open integration’ – a collaborative approach to equipment connectivity and interoperability that can be tailored to exactly suit the specific needs processors and injection-molding OEMs. At Sepro, customers “Experience Full Control.”

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New Sepro MED robots, in 3-, 5- and 6-axis configurations, come ready-equipped with the design and operational features that medical customers have been requested on over 1500 molding machines sold in recent years for ISO 7 and 8 clean room applications.

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