

S7 LINE

FOR 700 TO 5000T INJECTION MOLDING MACHINES

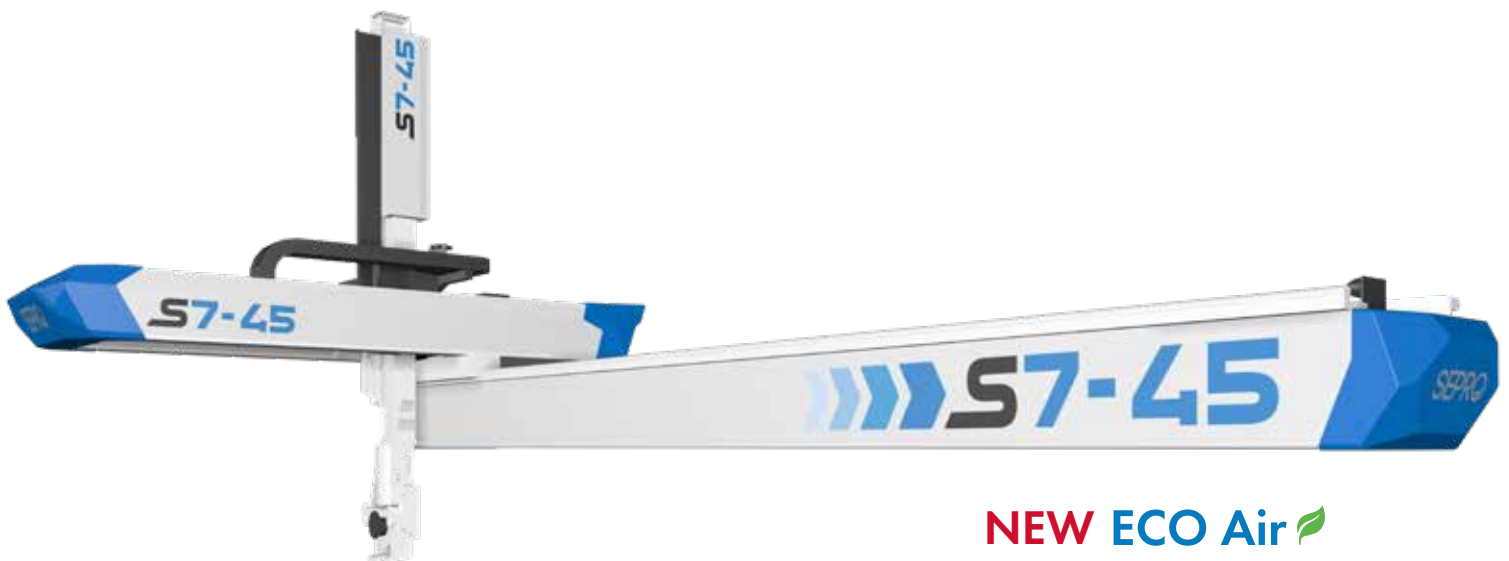
The new generation of Sepro high-capacity technological robots with top-of-the-line design and finishing. Built to be strong and quick, the S7 Line robots are designed to optimize production under intensive use for the most specialized applications (axial configurations, dual arms, dual motion, and others). Visual 2 - Visual 3 (Option) control system.

OVERVIEW

Three models to choose from:

S7-45 | S7-55 | S7-75

- Designed for an increased structural rigidity.
- Sepro Linear System rails designed for greater speeds.
- High-torque pneumatic wrist R1 (0-90°) as standard and R2 (0-90-180° in option).
- Powerful servomotors and intelligent anti-vibration software.
- Telescopic or compact telescopic vertical arm for maximum flexibility.
- Elastic mount of gripper (option).
- Path tracking function optional with Visual 3.
- Y free function.



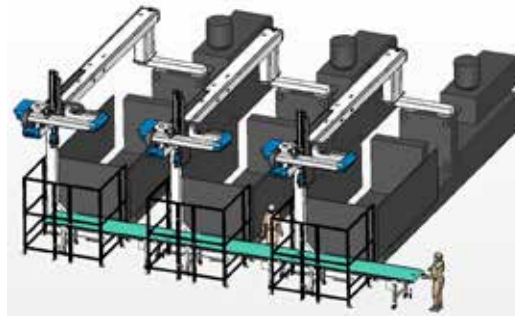
NEW ECO Air 

THE SOLUTION TO HELP YOU REDUCE
YOUR COMPRESSED AIR CONSUMPTION

AXIAL INSTALLATION

The choice of an axial installation on the large IMM optimizes the use of available floor space in your workshop:

- Three IMMs instead of two over the same floor area (50% more IMM on average).
- The flow of parts is directly at the end of the IMM: no need for a conveyor between the IMMs.
- The available space between the IMMs is reserved for operator access and preparing the molds for a quick change of production.



SPECIFICATIONS

	S7-45	S7-55	S7-75
Mold clamping force - Indication (metric tons)	700 - 1300	1200 - 2500	2300 - 5000
Mold clamping force - Indication (US tons)	772 - 1433	1323 - 2756	2000 - 9000
Horizontal stroke ¹ (mm)	3000 - 10000	3500 - 10000	4000 - 10000
Maximum instantaneous speed (m/s)	3	2,5	2
Demold stroke - Transverse layout (mm)	1100 1300 (LD)	1500 1700 (LD)	2000 2500 (LD)
Maximum instantaneous speed (m/s)	2,5	2	1,8
Vertical stroke (mm)	2200 2500 (LV)	2500 3000 (LV)	3600 3200 (LD)
Maximum instantaneous speed (m/s)	3	3	3
Maximum load (parts + EOAT) - (kg)	30 40 (HL)	40 60 (HL)	75
Vertical telescopic arm	✓	✓	
Vertical compact telescopic arm			✓
R1 pneumatic rotation (0-90°)	✓	✓	
R1 + R2 Pneumatic rotation (0-90°-180°)			✓
Part grip - Vacuum circuit up to :	8	8	8
Part grip - Pressure circuit up to :	8	8	8
Floor-standing control cabinet	✓	✓	✓
VISUAL 2 control system	✓	✓	✓
OPTIONS			
R2 Pneumatic rotation (0-90°-180°)	✓	✓	
Elastic mount of gripper	✓	✓	
VISUAL 3 control system	✓	✓	✓
Path tracking	✓	✓	✓
ECO-Air	✓	✓	✓
Smart digital vacuum switch	✓	✓	✓
Vertical compact telescopic arm	✓	✓	

(1) Can be adaptable by 500mm steps

HL: Heavy Load version cannot be combined with LV or LD
 LD: Long Demolding version cannot be combined with LV or HL
 LV: Long Vertical version cannot be combined with LD or HL

VISUAL

Visual is Sepro's universal control system, specially designed for plastic injection molding machines.

It simplifies the programming and operation of S7 Line 3-axis robots.



VISUAL 2

SIMPLE PICK-AND-PLACE: See what you're creating in 3D with the Simple Pick-and-Place Module ; create your cycle by answering the questions the system asks you and see the result immediately in 3D on the screen.

ECO MOVE: after having programmed your cycle, you just need to press one key to limit power consumption during the cycle.

PROGRAMM LIBRARY: Possible to associate up to 3 simultaneous subroutines with the robot's program and the PLC.

MOLD CODING: Make mold changes completely safe using mold encoding and/or EOAT encoding (encoded plug).

VISUAL 3 (OPTION)

FAST PLC FUNCTION (20ms): checking intelligent peripheral systems, such as a camera to determine the position of a part, as well as external CNC axes.

PATH TRACKING: Thanks to Visual 3 Path Tracking function, the robots can deal with the most specific applications, such as complex part extraction from the mold.

DIGITAL VACUUM SWITCH: available as standard on Visual 3 to program and save your part grip settings for each mold.



SEPRO GROUP

Sepro Group designs, develops and manufactures smart solutions and systems for the automation of plastic injection lines. Our modular solutions optimize and automate the take-out of parts from any type of new or existing machine.