

S5line

For IMM from 30 to 800T



RELIABILITY | SPEED | PRECISION

Designed with the best of Sepro's technology, S5 Line is a range of high-performance 3-axis robots with an attractive design.

OVERVIEW

- Compact & integrated design to facilitate mold access
- Structural frame for increased rigidity
- Prismatic linear guides for high acceleration
- Powerful servomotors and intelligent anti-vibration software
- Y free function
- Compact control cabinet at the end of the beam
- Unique elastic unit (Option) to protect the gripper and the mold during part gripping settings

VISUAL 2

- 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 Mode: after having programmed your cycle, you just need to press one key to limit power consumption during the cycle.
- Digital vacuum switch: program and save your part grip settings for each mould (option).

Three models to choose from:

| S5-15 | S5-25 | S5-35



NEW ECO Air 

THE SOLUTION TO HELP YOU REDUCE
YOUR COMPRESSED AIR CONSUMPTION

Visual 3, Sepro's exclusive, powerful, and easy to use control system, has been specifically designed to meet the automation needs of plastic injection molding processes.

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.

SOFTWARE PACK ON PC: to create, edit and manage your programs in a Windows environment. The robots' programs and data can be centralized via your company's IT network (TCP/IP Ethernet cable or Wifi as an option).

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

3D VISUALIZATION: with the Simple Pick-and-Place Module, create your cycle by answering the system prompts, and see the result immediately in 3D animation.

Thanks to Visual 3 Path Tracking function, the S5 Line robots can deal with the most specific applications, such as complex part extraction from the mold.

Sepro Group offers smart modular solutions for the automation of injection molding machines and downstream operations ranging from simple unloading robots with peripheral axillary equipment to complex integrated automation cells.



SPECIFICATIONS

	S 5 15	S 5 25	S 5 35
Mold clamping force - Metric tons	30 - 180	120 - 450	350 - 800
Horizontal stroke (mm) (1)	1500 - 4000	1500 - 6000	2000 - 9000
Maximum instantaneous speed (m/s)	4	4	3,5
Demold stroke (mm) - Transverse layout	500	700	900
Maximum instantaneous speed (m/s)	3	3	3
Vertical stroke direct (mm)	1000	1200	1400
Maximum instantaneous speed (m/s)	5	4	4 - 3,5 (HL)
Maximum load (parts + EOAT) (kg)	5 - 3 (S)	10 - 7 (S)	15 - 20 (HL)
Pneumatic rotation R1 (0 -90°)	✓	✓	✓
Part grip - Vacuum circuit up to:	6	8	8
Part grip - Pressure circuit up to:	6	8	8
Compact beam-mounted control cabinet	✓	✓	✓
VISUAL 2 control system	✓	✓	✓

OPTIONS

Vertical telescopic arm:		✓	✓
- Vertical stroke (mm)		1400	1800
- Maximum instantaneous speed (m/s)		4	3,5
- Maximum load (parts + EOAT) (kg)		10	15-20 (HL)
- Low height telescopic option		✓	✓
Pneumatic rotation R2 (0-90°-180°)	✓	✓	✓
Elastic unit	✓	✓	✓
Floor-standing control cabinet	✓	✓	✓
VISUAL 3 control system	✓	✓	✓
ECO AIR	✓	✓	✓

(1) Adjustable in 500 mm steps

S : Speed

HL : Heavy Load version