

For 30 to 800 T Injection Molding Machines



#### FLEXIBILITY | SPEED | PRECISION

5X Line is a range of high-performance and flexible 5-axis industrial robots with servo wrist rotations designed by Sepro

## **OVERVIEW**

- Structural frame for increased rigidity
- Linear rails designed for greater speeds
- $\checkmark$  Redesign of the vertical arm and pneumatic components
- ✓ Powerful servomotors and intelligent anti-vibration software
- $\checkmark$  Path tracking function standard with Visual 3
- $\checkmark$  Direct, Telescopic, or low height vertical arms for maximum flexibility
- $\checkmark$  Heavy load option available on 5X-35 payloads up to 20kg
- 🖌 Y free function

### **NEW FEATURES**

- All three models utilize our newly redesigned SEPRO CNC Wrist.
- Redesign of the vertical arm.
- Compact beam mounted cabinet available as standard (opt.) to reduce footprint.
- Optimized maintenance: maintenance operations are simplified thanks to direct access to modify certain key components.
- Spare parts used across the Sepro Robot line allow for simplified maintenance.



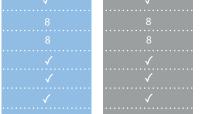
HL : Heavy Load version

#### **SPECIFICATIONS**

5X-25

| 5  |   |
|--|---|
| rip settings for each mold.  | VISUAL 3 control system                         |
| Simple Pick-and-Place Module, create<br>system prompts, and see the result | OPTIONS<br>Compact beam-mounted control cabinet |
|  | Vertical telescopic arm :                       |
|  | - Vertical stroke (mm)                          |
| ing function, the 5X Line robots can                                       | - Maximum instantaneous speed (m/s)             |
| oplications, such as complex part  | - Maximum load (parts + FOAT) (kg)              |

Path tracking



5X-35

2000 - 9000

1400

5X-15

30 - 180

33 - 198

1500 - 4000

Δ

1000

 $\checkmark$ 

 $\checkmark$ 

| $\boldsymbol{\boldsymbol{\varsigma}}$ |      |
|---------------------------------------|------|
|                                       | line |

## VISUAL 3

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 PCL 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 gr

3D VISUALIZATION: with the Si your cycle by answering the sy immediately in 3D animation.

Thanks to Visual 3 Path Tracki deal with the most specific ap extraction from the mold.

# **SEPRO GROUP**

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.

| OPTIONS                              |              |              |              |
|--------------------------------------|--------------|--------------|--------------|
| Compact beam-mounted control cabinet | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Vertical telescopic arm :            |              | $\checkmark$ | $\checkmark$ |
| - 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       |              | $\checkmark$ | $\checkmark$ |

(1) Horizontal stroke: customizable in 500mm increments

Mold clamping force - Metric tons

Maximum instantaneous speed (m/s)

Maximum instantaneous speed (m/s)

Maximum instantaneous speed (m/s) Maximum load (parts + EOAT) (kg)

Servo rotation R1 (0-180) + R2 (0-270)

Part grip - Vacuum circuit up to:

Part grip - Pressure circuit up to:

Floor-standing control cabinet

Digital vacuum switch

Demold stroke (mm) - Transverse layout

Mold clamping force - US tons

Horizontal stroke (mm) (1)

Vertical stroke direct (mm)