

7X LINE

5-AXIS ROBOTS FOR INJECTION MOLDING MACHINES FROM 700 TO 5000T

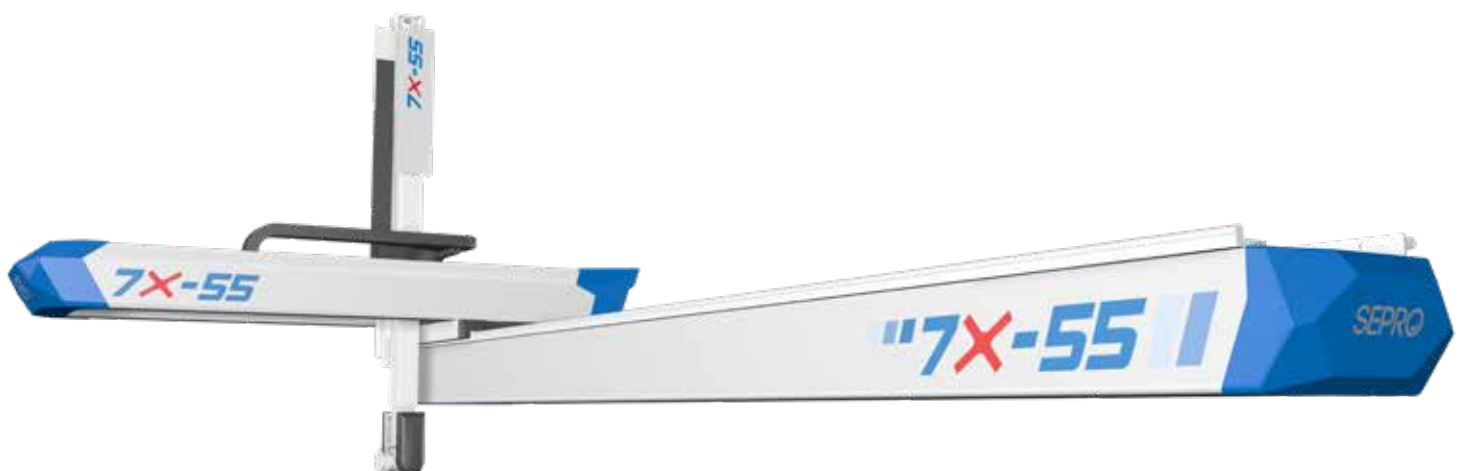
The 7X Line of 5-axis robots offers the ideal combination of Sepro new generation high-capacity 3-axis linear robots and 2-axis digital rotation. These are precise, flexible robots capable of extracting and loading technically complex parts into the mold or IMM peripherals. Visual 3 control system

OVERVIEW

- Designed for an increased structural rigidity.
- Linear rails designed for greater speed.
- Powerful servomotors and intelligent anti-vibration software.
- Path tracking function standard with Visual 3.
- Telescopic or compact telescopic vertical arm for maximum flexibility.
- Heavy load option available on all 3 sizes, up to 100kgs.
- Y free function.

Three models to choose from:

7X-45 | 7X-55 | 7X-100XL



NEW ECO Air

THE SOLUTION TO HELP YOU REDUCE
YOUR COMPRESSED AIR CONSUMPTION

NEW SERVO WRIST



Sepro introduces its new servo wrist, result of a two years development. Available in three variations to fit the three sizes of robots and their needs.

- Designed for the plastic injection industry: reduced footprint and high payload capacities.
- High performances: precision, speed and torque.
- Focus pushed upon reliability and maintainability.
- Now integrated on all maintenance contract offers.

SPECIFICATIONS

	7X-45	7X-55	7X-100XL
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)	3200 3600 (LV)
Maximum instantaneous speed (m/s)	3	3	3
Maximum load (parts + EOAT) - (kg)	30 40 (HL)	40 60 (HL)	75 100 (HL)
Vertical telescopic arm	✓	✓	
Vertical compact telescopic arm			✓
R1 servo rotation (0-180°) + R2 (0-300°)	✓	✓	✓
Part grip - Vacuum circuit up to :	8	8	8
Part grip - Pressure circuit up to :	8	8	8
Smart digital vacuum switch	✓	✓	✓
Floor-standing control cabinet	✓	✓	✓
VISUAL 3 control system	✓	✓	✓
Path tracking	✓	✓	✓
OPTIONS			
ECO-Air	✓	✓	✓
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 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 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 robot's 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 7X Line robots can deal with the most specific applications, such as complex part extraction from the 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.