

G4⁺

énération

Robots for IMMs from 700 to 5000 T

BEST SELLER GLOBALLY

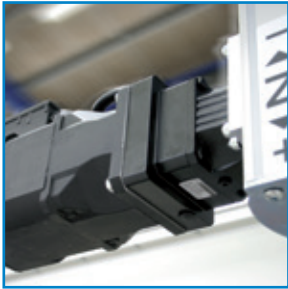


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YOUR FREE CHOICE IN ROBOTS

GENERATION 4

POWER AND SPEED SERVING PRECISION



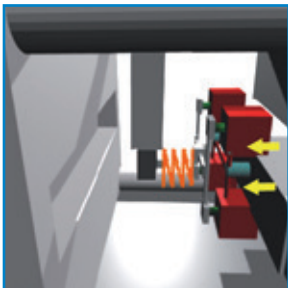
Powerful servomotors

Ensure both maximum accelerations and minimum intervention times. The frame structure provides high rigidity adapted to strong accelerations.



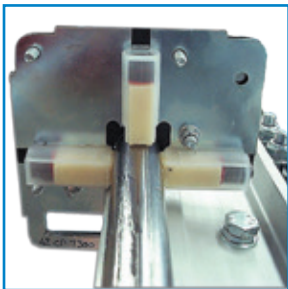
The Y free function, available as standard

On all G4 models, makes programming easier for parts ejection tracking and enables you to save on gripper costs thanks to a simpler design.



Exclusive elastic unit (option)

This mechanical unit protects the gripper and mould during part gripping settings and softens the contact between the gripper and the moulded part in the case of small inaccuracies (a few mm) on the ejection movement or the mould opening. The overall gripper support unit is mounted on a linear axis parallel to the injection axis. A corrector unit applies elastic pressure on this unit and if the sensor detects that too much force is applied, it automatically brings the robot to a halt.



The built-in greasing facility

Guarantees maximum operation times and minimum maintenance requirements (once a year only).



Production changes made easy

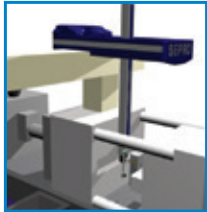
Thanks to the electric and pneumatic connections and quick mechanical coupling.



A full range of CNC rotations

Allows precise positioning and greater flexibility for your applications. Access into the mould is easy thanks to their compact design.

WITH VISUAL 2, IT IS POSSIBLE TO DRIVE AUTOMATION SYSTEMS WITH UP TO 16 AXES



It's so easy

- 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 video.
- Fine-tuning movements in the mould made easy thanks to the joystick.

Visual 2 : make your daily routine easier

- You can consult the full-screen documentation at any time.
- Transfer information from one team to another using the notepad function.
- Thanks to the USB key, operators, setters, programmers and maintenance personnel have direct access to the relevant data.
- Troubleshooting assistance from Sepro's Hotline : with the USB key, download and send the relevant information via internet for remote assistance.

Tried and tested ergonomics

- Task-based navigation means you can directly access the job to be done.
- 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).

EXTEND YOUR POSSIBILITIES FROM VISUAL 2 TO VISUAL 3
Simply Powerful !



Take the simplicity of Visual 2 and add the power of Visual 3 option to drive all your stacking, insert placing, fabric overmoulding, vision and more operations.

Powerful

- The fast PLC technology at 20 ms allows to drive intelligent peripheral systems including CNC axes.
- You start already with 23I/24O available for your downstream equipment.
- Choose the real Path Tracking option to program the flaming of the parts outline or any kind of complex extraction path of the product in the mould.

Efficient

- The Digital Vacuum Switch function is standard on Visual 3, to program and save your part gripping settings for each mould.
- Use the Software Studio on PC to create and fine-tune your complex program in a familiar, Windows® environment.

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Mold clamping force - Indication metric Tons	500-1000	800-1800	1300-2500	2300-5000
Mold clamping force - Indication US tons	551 - 1102	882 - 1984	1433 - 2756	2535 - 5512
Horizontal stroke (mm) - Can be adapted by 500 mm steps	2500 - 10000	3000 - 10000	3500 - 10000	4000 - 10000
Maximum instantaneous speed (m/s)	3	3	2,1	2
Demold stroke (mm) - Transversal layout	1000	1300 - 1500 (LD)	1600 - 1800 (LD)	2000
Maximum instantaneous speed (m/s)	3,2	2,5	2,3	1,8
Vertical telescopic arm	✓	✓		
Vertical stroke (mm)	2000	2400 - 2600 (LV)		
Maximum instantaneous speed (m/s)	4	3		
Maximum load (parts + EOAT) (kg)	20	35 - 55 (HL)		
Vertical telescopic compact arm			✓	✓
Vertical stroke (mm)			3000	3600
Maximum instantaneous speed (m/s)			3	3
Maximum load (parts + EOAT) (kg)			55 - 80(HL)	85
R1 pneumatic rotation (0-90°)	✓	✓	✓	✓
Part grip - Vacuum and/or pressure circuit	1	1	1	1
Floor-standing control cabinet	✓	✓	✓	✓
VISUAL 2 control system	✓	✓	✓	✓
OPTIONS				
* HL version (Heavy Load): Maximum load (parts + EOAT) (kg)		55	80	
* LD version (Long Demolding) (stripping stroke extended to) (mm)		1500	1800	
* LV version (Long Vertical) (vertical stroke extended to) (mm)		2600		
R2 pneumatic rotation (0-90°-180°)	✓	✓	✓	✓
Elastic mount of gripper	✓	✓	✓	✓
R1 servo rotation (0 -180°) + R2 (0-270°)	✓	✓	✓	✓
Digital vacuum switch	✓	✓	✓	✓
VISUAL3 control system	✓	✓	✓	✓

Version details - Non-cumulative version(s) - As standard replacement



WHY CHOOSE SEPRO ?

- Sepro manufacturer n°1 in Europe - Major performer in North and South America
- Main supplier in the Automotive Industry in Europe and the USA - global leader for IMMs over 800T
- A full line of robots from 3 to 6 axis with one unique and user-friendly control
- Over 25,000 installations worldwide

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