

S3 PICKER

For 30 to 200 T Injection Molding Machines

ROBOT TECHNOLOGY FOR A SERVO SPRUE-PICKER

- High-performance control system
- Reliable and durable
- Short cycle times
- Simple and interactive
- Compact and safe layout



Tomorrow's technology today

S3 PICKER

The **S3 Picker** has been designed to automate small machines.
With its 3 CNC axes, precise linear guides and high-performance control system, the **S3 Picker** brings robot-derived technology to the sprue picker world. It opens up new production possibilities for you.

By choosing the S3 Picker, you benefit from :

- Reduced intervention time in the mold
- Extremely precise repeatability
- Perfect reliability and durability
- A high-performance control system that includes an intuitive, interactive and very user-friendly Simple Pick & Place module: **Touch 2** for **S3 Picker**

ROBOT TECHNOLOGY FOR A SERVO SPRUE-PICKER



Mold clamping force - Indication metric Tons
Mold clamping force - Indication US tons

	30 - 200 33 - 220
B Rotation (°)	100°
Maximum instantaneous speed (°/s)	200 °/s
Strip stroke (mm)	400 mm
Maximum instantaneous speed (m/s)	1,2
Vertical direct arm	✓
Vertical stroke (mm)	1000
Maximum instantaneous speed (m/s)	2
Maximum load (parts + EOAT) (kg)	1
R1 pneumatic rotation (0-90°)	N/A
Sprue gripper with control sensor	1
Part grip - Vacuum circuit	1
Digital Input available at the end of arm	2
Compact Picker mounted control cabinet	✓
Touch 2 Picker control system	✓
Simple pick & place module for picker	✓
EUROMAP 67 interface with cable (5m cable)	✓
I/O available in cabinet	4/4

OPTIONS (1) : Mandatory option (2)

Extra Part grip - Vacuum circuit (1)	1
Extra part grip - Pressure circuit	1
4 vacuum cup adjustable gripper kit	✓
PC editor and free programming of specific sequences (2)	✓
Adaptation for EUROMAP 12 interface (5 m cable)	✓

TOUCH 2 for S3 PICKER

Simply Intuitive

○ With the Simple Pick-and-Place Module, create your cycle by just answering the questions the system asks you and see the result immediately in 3D on the video.

○ Operators can therefore create Simple Pick-and-Place cycles quickly and easily.

**"WHAT YOU SEE
IS WHAT YOU GET"**



MAKE YOUR DAILY ROUTINE EASIER

○ When fine-tuning, the joystick makes delicate settings in the mold possible.

○ The large, 10" LCD tactile screen is very readable and easy to use thanks to clear and precise instructions translated into over 25 languages.

○ The operating manual can be called up on the screen at any time. You can directly access the chapters from the table of content's hyperlinks or zoom in on a precise detail.

TRIED AND TESTED ERGONOMICS

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

- Production,
- Mold Change,
- Programming,
- Maintenance.

YOUR FREE CHOICE IN ROBOTS

For a 30 to 200 T IMM, Sepro gives you the choice between an **S3 Picker** with 3 CNC axes, an SR 55 pneumatic sprue-picker or a **Success 7** beam-mounted robot.

AN S3 PICKER OR A SUCCESS 7 ?

The **S3 Picker** has been specially designed for your Simple Pick-and-Place and stacking applications for small injection molding machines.

Features shared by the S3 Picker and Success 7

- Simple Pick-and-Place module
- Precise, linear guides
- Simultaneous management of 3 servo-motorized axes

S3 Picker and **Success 7** are both driven by the same Sepro **Touch 2** control system.

S3 Picker

Integrated and compact layout

As the **S3 Picker** only operates within the perimeter of the IMM, layout and assembly are easy.

Success 7

Larger work zone

The **Success 7** can unload parts outside the IMM area.

Thanks to the **Touch 2** control system, it can also manage stacking applications.

E.g. ergonomic unload on conveyor and palletizing, sprues removed from molded parts and parts sorted outside the mold.

For more complex applications, **Success 7** can optionally be equipped with **Visual 2**.



AN S3 PICKER OR AN SR 55 SPRUE-PICKER ?

S3 Picker

The S3 Picker has significant advantages compared to a pneumatic Sprue-picker.

Reduced cycle times

All the **S3 Picker's** movements are simultaneously managed by a servo-motor and driven by the high-performance **Touch 2** control system, therefore leading to very high repeatability.

The **S3 Picker** is capable of smooth, high accelerations (up to 22 m/s^2) at very high speed, on the vertical axis in particular. To optimize your production, it is possible to precisely program a waiting position near the mold that significantly reduces intervention time.

Reliability

The **S3 Picker** is very reliable and durable, thanks to its rigid design and the quality of its prismatic guide rails.

Low power consumption

Quick and easy production changes

The **S3 Picker** rotates easily on its side axis (without manual intervention) and the **Touch 2** control system makes program changes simple (no intervention required on pneumatic cylinder stops).

SR 55 sprue-picker

Minimum investment for a first step towards automation.



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

T o m o r r o w ' s t e c h n o l o g y t o d a y

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