01 / MACHINE OVERVIEW

FANUC ROBOSHOT α-S100iB

All-electric injection moulding machine · 125 t



Year of manufacture	2024
Operating hours	800 h
Clamping force	1250 kN / 125 t - increased-tonnage configuration
Drive technology	Fully electric, FANUC CNC controlled
Screw diameter	Configured according to customer requirements
Warranty	Available; scope and duration as agreed in the offer
Sales territory	Slovenia, Croatia, Bosnia and Herzegovina, Serbia

Machine details and photographs supplied by M PECL. Additional equipment can be configured and upgraded for the intended application.

02 / CONTROL AND TECHNOLOGY

Precision through CNC

FANUC ROBOSHOT α-SiB series technology

FANUC ROBOSHOT combines all-electric machine movements with CNC control for repeatable injection moulding. The α-SiB generation adds a larger operator interface, improved data viewing and expanded storage and connectivity.

Control & operator interface

- FANUC PANEL iH Pro operator interface
- 21.5-inch full-HD touchscreen
- Multi-window display with pinch and swipe operation
- Expanded data storage and event history
- Enhanced AI monitoring for check-valve wear



Integration for your production

The offered machine can be specified with hot-runner control, water monitoring, core-pull hydraulics and robot automation. See page 4 for the equipment available on request.

Series information; the installed software and final equipment scope are specified in the individual offer.

Technical reference: FANUC ROBOSHOT α-SiB series flyer · fanuc.eu

03 / TECHNICAL DATA

Machine specifications

α-S100iB catalogue data · configuration dependent

Clamping unit

Clamping force, offered machine	1250 kN / 125 t
Tie-bar spacing / platen size	460 × 410 mm / 660 × 610 mm
Clamping / ejector stroke	350 mm / 100 mm
Ejector force	25 kN standard; 60 kN option
Locating ring diameter	125 mm
Minimum mould size	265 × 240 mm
Mould height, double platen	150-450 mm; extended version 150-550 mm
Mould height, single platen	220-520 mm; extended version 220-620 mm

Injection unit selection

Screw diameter (mm)	Maximum injection volume (cm³)
22	29
26	50
28	58
32	103
36	147
40	181

The screw diameter is selected to suit the application. Injection speed, pressure capability, barrel design and installed platen version will be confirmed in the final configuration.

Catalogue alternatives are not a statement of installed equipment. Final performance depends on the selected injection unit and process conditions.

Technical reference: FANUC ROBOSHOT α-S100iB product data · fanuc.eu

04 / OPTIONAL EQUIPMENT

Configured for your process

Equipment and upgrades available on request

Description	Scope
FIBER sorting flap for good / reject part separation	Optional
Hot-runner controller, integrated and connected to the machine	Optional
Valve-gate control (V-gate)	Optional
Additional electrical sockets	Optional
Electrical quick coupling for fast mould changes	Optional
Water piping system	Optional
Mouldflo digital water flow, temperature and pressure monitoring	Optional
Machine elevation by 100 mm	Optional
Hydraulic power unit for side cores - 2 or 4 channels	Optional
STAR Cartesian robot	Optional
FANUC 6-axis robot	Optional

Application-specific equipment

Additional equipment can be configured according to customer requirements and upgraded to meet the needs of the mould, material and production process.

Availability & enquiries

Available for Slovenia, Croatia, Bosnia and Herzegovina, and Serbia.
Contact M PECL for pricing, the final equipment scope and warranty terms.

Options are listed as available on request and are not included unless expressly stated in the offer. Machine-specific information: supplied M PECL Word document.