ROBOSHOT α -SiB series Available features

Data storage, featurs and software	Standard	Option
Mould file storage - 500 files	•	
Mould file storage to USB device	•	
Screen image capture to USB device	•	
Process monitoring - Cycle alarms, part rejectionfor 40 items trend charts 100,000 cycles process monitoring	•	
Process monitoring judgement alarm	•	
Alarms log - 50,000 logs exportable to CSV format	•	
Log Management - Parameter change log 100,000 events, exportable to CSV format	•	
Log Management - Operational change log 100,000 events, exportable to CSV format	•	
Production management - Container management, counter stop function, production completion calculation	•	
Good product rate alarm - Cycle end stop		•
Preventive maintenance - load & temperture of the machine	•	
Al Backflow monitoring through machine learning - Check valve wear indication		•
Cycle time analysis & display - timing chart	•	
Process graphics - wave form display with selectable parameters	•	
Power consumption monitoring & display	•	
Signal output for sampling manually or by designated interval (count or time)	•	
Interfaces / Inputs / Outputs (other interfaces are available)		
12 machine status inputs	•	
8 machine status outputs	•	
2 Ethernet ports - 100Base-TX/1000Base-T	•	
Ethernet Hub 5 ports		•
2 USB ports - 3.0/2.0/1.1	•	
Custom signal Function 32 points character input of signal name	•	
Configurable core function - maximum 6 systems available	•	
E67 Rbot interface	•	
E67/73 Robot interface for non operaotor's side parts removal		•
VNC (Virtual network computing)		•
Core interface 12 outputs & 8 inputs	•	
Valve gate interface 8 circuits	•	
Valve gate interface 16 circuits		•
Monitor camera interface interlocked to ejector is available	•	
Data communication auxiliary device SPI protocol - Mold temperature, materail dryers, hopper loaders & chillers	•	
Data communication auxiliary device SPI protocol - Hot runner		•
Bad parts reject function	•	
Cycle stop by external signal. Immediate stop, cycle end stop or dispay only	•	
Alarm signal input - cycle stop by external signals	•	
Shot counter output by 4 binary points of binary data		•
Mold ID Signal output by 8 points of binary data		•
Analog Input External sensor connection Voltage or Current, max 2 boards and 4 input signals		•
Process graphics data output by voltage - Analog outputs max 4 signals selectable		•
Additional axis control - Up to 4 servo cores control & positioning via FANUC servo technology		•
Linki 2 Product & Quality management system available in 20 device or 1000 device versions		•
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THE FACTORY AUTOMATION COMPANY

Discover the new all electric plastic injection moulding machine

ROBOSHOT α -SiB series - Highest precision, repeatability and reliability.



Like all of the FANUC ROBOSHOT machines, the α -SiB Series offers proven power, quality and reliability. It offers numerous upgrades for companies looking for a plastic injection moulding machine with the most flexibility with lower overall life cycle costs, increased productivity, high precision and overall business success.





Highlights:

- High-performance FANUC PANEL *i*H Pro user interface, which features a large 21.5" display with full HD resolution
- Quicker set-ups, improved graphics and data viewing
- Seamless integration of plug-and-play FANUC robots
- Wide screen multi functional display with pinch and swipe functionality
- Fully conforms to ISO 20430, the international safety standard for injection moulding machines
- Increased data storage, event logging history and connectivity comes as standard
- Enhanced AI functions for predictive check valve
 assembly wear
- New software features as standard

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ROBOSHOT *a***-S***i***B** series Technical data summary & overview

Specifications	<mark>α-S50iB</mark>	α-S100 <i>i</i> B	<mark>α-S130</mark> iB	α-S150 <i>i</i> Bs	<mark>α-S150iB</mark>	α-S220 <i>i</i> B
Clamp force [kN]	500	1000	1300	1500	1500	2200
Increased tonnage option [kN]	650	1250	-	1800	1800	-
Tie bar spacing HxV [mm]	360x320	460x410	530x530	560x510	560x510	650x650
Platen size HxV [mm]	500x470	660x610	730x730	800x750	800x750	900x900
Max/min die height [mm]	350-150	450-150	570-200	500-200	500-200	650-250
Extended die height option [mm]	+50	+100	+100	+100	+100	+100
Clamp stroke [mm]	250	350	400	440	440	550
Ejector stroke [mm]	70	100	100	150	150	150
Ejector force [std/increased]	20/60	25/60	25/60	35/80	35/80	35/80
Available injection speeds						
200 mm/s	-	•	•	-	•	•
270 mm/s (high duty)	-	-	-	-	-	-
350 mm/s	•	•	•	•	•	•
550 mm/s	•	•	•	•	-	-
Available screw diameters						
14	0	0	-	-	-	-
16	0	0	0	0	-	-
18	•	0	0	0	-	-
20	•	0	0	0	-	-
22	•	•	0	•	-	-
26	•	•	•	•	0	0
28	•	•	•	•	0	0
32	•	•	•	•	•	•
36	-	•	•	•	•	•
40	-	•	•	•	•	•
44	-	-	-	-	•	•
48	-	-	-	-	•	•
52	-	-	-	-	•	•
56	-	-	-	-	-	•

• standard - not available \circ with hardware and/or software option



* Screws available in PAL Nitride, wear & corrosion, high wear & corrosion plus high temperature versions. Further screw & barrel configurations are available on request. Please get in touch with your local office. Please refer to the technical data sheets for all injection specific data



ROBOSHOT α -S*i*B series Available features

Display & Japut	Chandand	Ontion
21 5" HD Tauch corean dienlau	Standard	Uption
Simultaneurous Display of setting serven monitoring serven & Linki?	•	
	•	
	•	
Numerical Input, incremental input & character inputs in 23 languages	•	
Managed entry - 200 operators with password and storage in operator log	•	
Operator management with ID card instead of password		•
Customisation of menu buttons	•	
Setting profile dispays - injection, packing, plasticising, clamp open/close ejection & temperature	•	
Enhanced graphical user interface - home screen	•	
Context sensitive help function for setting, signals & alarms	•	
Operator & maintenance manual displayed on HMI screen	•	
VNC client function for remote operation of VNC available device		•
Injection & Plasticising		
10 stages of Injection pressure & speed control	•	
4 modes of Injection response mode - selectable	•	
Switchover mode by position, pressure, time, cavity pressure, nozzle pressure signal or filling position	•	
6 Stages of holding pressure & time control including holding speed control	•	
6 stages of plasticising - screw speed and back pressure control	•	
Automatic purge function	•	
Change of auto purge condition sequentially		٠
Back flow prevention control - precise metering two modes	•	
AI (Artificial Intelligence) metering control	•	
AI (Artificial Intelligence) pressure profile trace control - Injection pressure	•	
AI (Artificial Intelligence) pressure profile trace control - Cavity & nozzle pressure		•
Automatic start up parameter mode	•	
Clamp / Ejector		
6 stages of closing & 5 stages of opening via speed & position control - auto acceleration control	•	
10 stages of ejector control, 2 stage ejector and 4 patterns of ejector motion control	•	
In mould degating - Pre ejector function	•	
Pre ejector function with 0.001 resolution of position & time	,	•
Automatic die height adjustment with clamp force sensor 0kN - max clamp force	•	
Precise clamp force control - automatic adjustment & optimisation	•	
Clamp compression function		•
Ejector compression function	-	•
Auto prodcution set up function - reduced set up time		٠
Al Mould protection, complete mould open & close stroke	•	
AI Ejector protection , complete forward & backward stroke	•	
Pre Injection - Simultaneous clamp & injection movement	•	
Pre Injection function with 0.001 sec setting resolution		•
Simultaneous Ejector forward with clamp opening	•	
Simultaneous clamp open and plasticising	•	
Ejector overide function - Simultaneous ejector retract during clamp closing		•