

THE FACTORY AUTOMATION COMPANY

FANUC

Perfectly automated
injection moulding with the

NEW

FANUC ROBOSHOT

α-S450iA



4500
kN
Clamping force

2 injection units with
7 screw sizes with up to
2827
cm³
Injection
volume

920 x 920
mm
Tie bar distance

1000
mm
die height



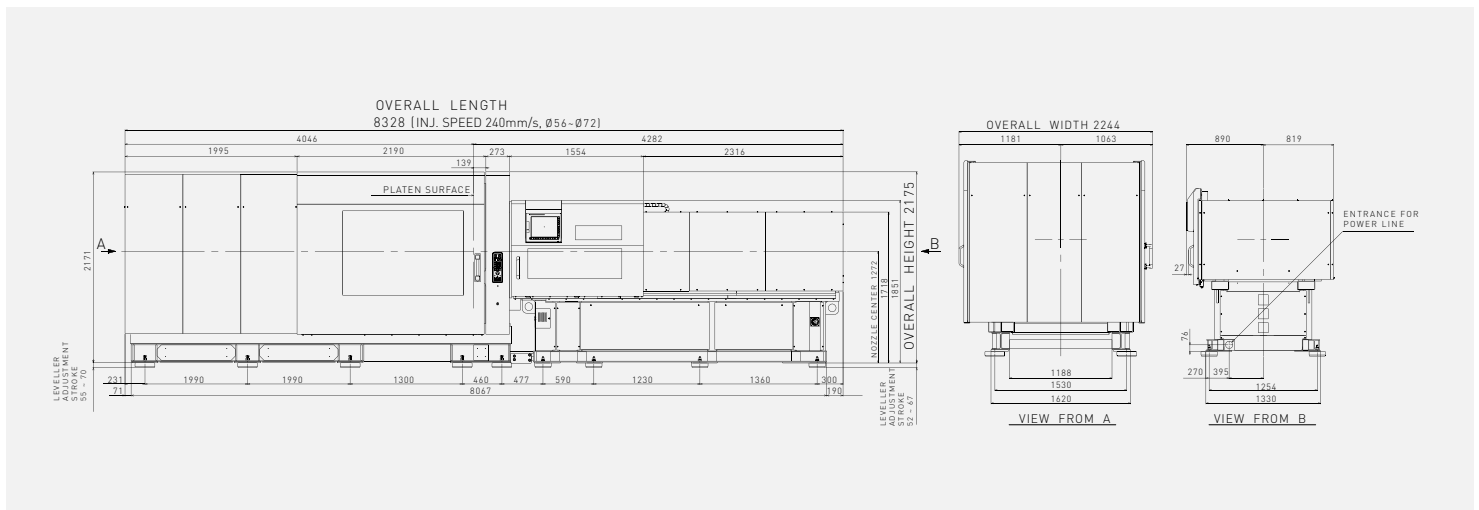
FANUC ROBOSHOT

HIGH-PRECISION ELECTRICAL INJECTION MOULDING

- maximum precision
- proven reliability
- excellent repeatability
- optimum process control
- extremely short cycle times

WWW.FANUC.EU/ROBOSHOT

α-S450iA Dimensions



α-S450iA Mechanical specifications

Clamping unit

Clamping mechanism	Double toggle
Tonnage [kN tonf]	4500 450 (Option 5000 500)
Maximum and minimum die height Doubleplaten [mm]	1000/350
Maximum and minimum die height Singleplaten [mm]	-
Clamping stroke [mm]	900
Locating ring diameter [mm]	φ200
Tie bar spacing, HxV [mm]	920x920
Platen size, HxV [mm]	1300x1300
Minimum mould size, HxV [mm] *1	535x535
Ejector stroke [mm]	250
Maximum ejector force [kN tonf]	150 15.0

Injection unit

Screw diameter [mm]	68	72	80	90	100 *6	56	64	68	72 *6
Injection stroke [mm]	260	260	360	360	360	260	260	260	260
Max. injection volume [cm ³]	944	1059	1810	2290	2827	640	836	944	1059
Max. Injection Speed mm/s *3	180					240			
Max. injection pressure [bar] *2	2800	2500	1750	1550	1350	2250	1750	1550	1350
Max. pack pressure [bar] *2	2800	2000	1500	1300	1200	1950	1500	1300	1200
Max. injection rate [cm ³ /s] *3	654	733	905	1145	1414	591	772	872	977
Max. screw rotation speed [min ⁻¹]	200					400			
Nozzle touch force [kN tonf]	30 3.0								

Screw and Barrel

Number of heaters [Barrel]	-					4			
Number of heaters [Nozzle]	-					1			
Total heater wattage [kW]	-	-	-	-	-	23.9	27.2	27.8	27.2
Machine weight [ton] *4	≈ 28					≈ 24			

● standard - not available () with hardware and/or software option

*1) Smaller mould than this size may limit clamp force.

*2) The maximum injection pressure and maximum pack pressure is not melt pressure but injection unit output.

- The maximum injection pressure and maximum pack pressure is the maximum value can be set.

- The maximum injection pressure and maximum pack pressure might be limited depending on the molding condition.

*3) Maximum injection rate and maximum injection speed is a theoretical value.

- Maximum injection rate and maximum injection speed can not be guaranteed when the injection pressure is maximum.

*4) The machine without option.

*5) The pressure conversion is 1MPa=10kgf/cm².

*6) The moulding condition might be limited by the resin. Contact sales for detail.