

Item		Unit	ROBOSHOT S180C																				
Clamp unit	Maximum clamp force	kN	1800																				
	Max-Min die height double platen	mm	600-200 (Max die height change option 500-200)																				
	Max-Min die height single platen	mm	675-275 (Max die height change option 575-275)																				
	Mold open stroke	mm	450																				
	Tie bae spacing W×H	mm	560×560																				
	Platen size W×H	mm	800×800																				
	Ejector force/stroke (No.'s)	kN/mm	35/150 (5)																				
Injection unit	Screw diameter	mm	22	26	28	32	36	40	44	32	36	40	44	48	52	32	36	40	44	48	52	56	
	Maximum injection volume	cm ³	29	50	58	103	147	181*	243	121	153	188	268	318	442	121	153	188	268	318	442	640	
	Injection unit type		B330S							B710							B900S						
	Max inj. pressure (High prs. mode)	MPa	340	---	---	---	---	---	---	380	345	---	---	---	---	---	---	---	---	---	---	---	---
	Max inj. pressure (W/C)	MPa	290	260	220	170	---	---	---	310	310	280	240	190	160	300	240	190	---	---	---	---	---
	Max inj. pressure (General)	MPa	260	260	220	170	---	---	---	280	280	260	220	190	160	280	240	190	---	---	---	---	---
	Max injection speed	mm/s	550							350							500						
	Max screw rotation speed	min ⁻¹	450							400							400						
	Injection unit type		B330							B710G							B900						
	Max inj. pressure (High prs. mode)	MPa	340	340	320	270	220	---	---	380	330	---	---	---	---	380	345	---	---	---	---	---	---
	Max inj. pressure (W/C)	MPa	290	290	270	250	190	160	---	310	310	260	220	190	160	310	310	280	240	190	160	140	---
	Max inj. pressure (General)	MPa	260	260	240	220	190	160	---	280	280	260	220	190	160	280	280	260	220	190	160	140	---
	Max injection speed	mm/s	350							200							350						
	Max screw rotation speed	min ⁻¹	450							300							400						
	Injection unit type		B330D							B710D							B1100P						
	Max inj. pressure (High prs. mode)	MPa	---	---	---	270	220	---	---	380	345	---	---	---	---	380	345	320	280	---	---	---	---
	Max inj. pressure (W/C)	MPa	---	---	---	250	200	180	---	310	310	280	240	190	160	310	310	280	260	230	200	172	---
	Max inj. pressure (General)	MPa	---	---	---	220	200	180	---	280	280	260	220	190	160	280	280	260	260	230	200	172	---
	Max injection speed	mm/s	200							280							280						
	Max screw rotation speed	min ⁻¹	450							400							400						
	Injection unit type		B430																				
	Max inj. pressure (High prs. mode)	MPa	---	---	---	---	---	---	---														
	Max inj. pressure (W/C)	MPa	---	---	---	290	260	210	170														
	Max inj. pressure (General)	MPa	---	---	---	230	220	210	170														
Max injection speed	mm/s	350																					
Max screw rotation speed	min ⁻¹	450							400														

Item		Unit	ROBOSHOT S350C																				
Clamp unit	Maximum clamp force	kN	3500																				
	Max-Min die height	mm	750-300 (Max die height change option 650-300)																				
	Mold open stroke	mm	730																				
	Tie bae spacing W×H	mm	830×830																				
	Platen size W×H	mm	1150×1150																				
	Ejector force/stroke (No.'s)	kN/mm	80/220 (13)																				
	Injection unit	Screw diameter	mm	32	36	40	44	48	52	56	40	44	48	52	56	64	68	72	64	68	72	80	
Maximum injection volume		cm ³	121	153	188	268	318	442	640	188	268	318	442	640	836	944	1059	901	1090	1303	1608		
Injection unit type			B900S							B1600							B2400						
Max inj. pressure (High prs. mode)		MPa	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Max inj. pressure (W/C)		MPa	300	240	190	---	---	---	---	280	280	270	240	225	175	155	135	220	200	185	150	---	---
Max inj. pressure (General)		MPa	280	240	190	---	---	---	---	280	280	270	240	225	175	155	135	220	200	185	150	---	---
Max injection speed		mm/s	500							270							160						
Max screw rotation speed		min ⁻¹	400							400							300						
Injection unit type			B900							B1600D													
Max inj. pressure (High prs. mode)		MPa	380	345	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Max inj. pressure (W/C)		MPa	310	310	280	240	190	160	140	280	280	270	240	225	175	155	135						
Max inj. pressure (General)		MPa	280	280	260	220	190	160	140	280	280	270	240	225	175	155	135						
Max injection speed		mm/s	350							240													
Max screw rotation speed		min ⁻¹	400							400							300						
Injection unit type			B1100P																				
Max inj. pressure (High prs. mode)		MPa	380	345	320	280	---	---	---														
Max inj. pressure (W/C)		MPa	310	310	280	260	230	200	172														
Max inj. pressure (General)		MPa	280	280	260	260	230	200	172														
Max injection speed		mm/s	280																				
Max screw rotation speed		min ⁻¹	400																				

Note : When high pressure filling mode is used, a special cylinder is needed.
 Maximum injection pressure and maximum pack pressure are the maximum values that can be set. Maximum pack pressure is equal to maximum injection pressure.
 Maximum injection pressure and maximum pack pressure may vary depends on the installed screw and cylinder specifications.
 Molding conditions may be restricted depending on the screw diameter.
 For details, please refer a separated documentation "list of specifications".
 * : B430 specification with screw diameter of φ40 is selected, the maximum injection volume is 201cm³.

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Highly-Reliable High-performance
 Electric Injection Molding Machine

ROBOSHOT SC series

S180C
S350C

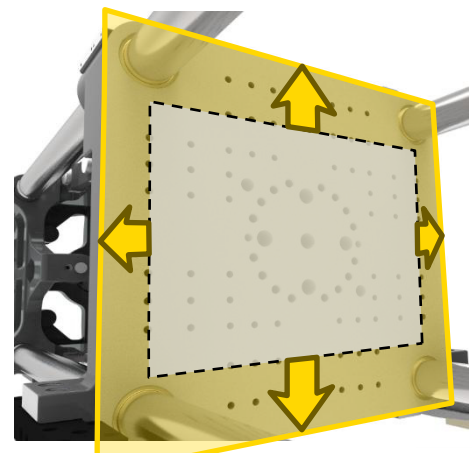


Fusion of Superior control and Evolved clamp mechanism

ROBOSHOT SC series

Evolved clamp mechanism

The highly reliable and proven high-rigidity clamping unit. Significantly expanded tie bar spacing and clamping stroke. Renewed ejector mechanism design, greatly improving accessibility.



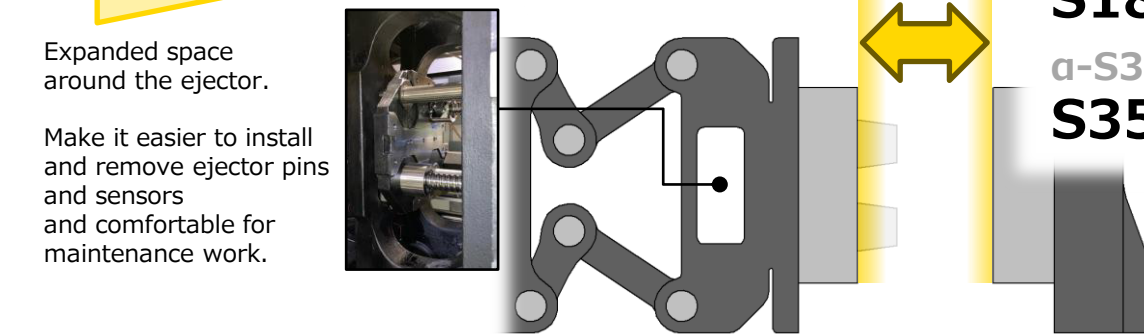
Expanded **Tie bar spacing** makes available for bigger mold more than previous model

α-S150iB W560 H510 **50mm expanded**
S180C W560×H560
 α-S300iB W810 H710 **120mm expanded**
S350C W830×H830

Extended **Clamp open/close stroke** makes available for deeper molding products and bigger mold

α-S150iB 440mm **10mm expanded**
S180C 450mm
 α-S300iB 600mm **130mm expanded**
S350C 730mm

Expanded space around the ejector.
 Make it easier to install and remove ejector pins and sensors and comfortable for maintenance work.



Champion

New environmental act on innovative ideas

Cutting-edge

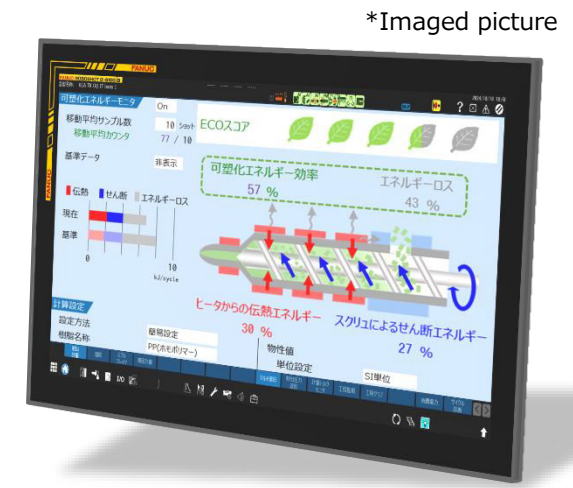
FANUC, a pioneer of electric injection molding that has worked to reduce power consumption advocates the next generation sustainability and breaking new ground in energy conservation.

Plasticizing energy monitor

The energy balance consumed in material plasticizing is classified into three categories "Heat transfer" "Shear," and "Energy loss"

By referring to the displayed ratios, it is possible to adjust the molding conditions to obtain the optimal setting according to the type of resin and molding.

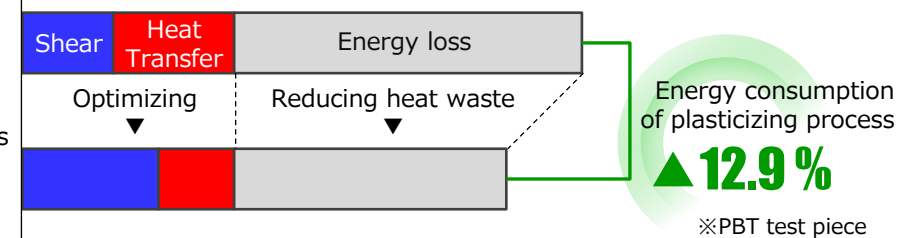
Heat loss from outer surface of the heater and feeding point also be able to quantitatively measured.



*Imaged picture

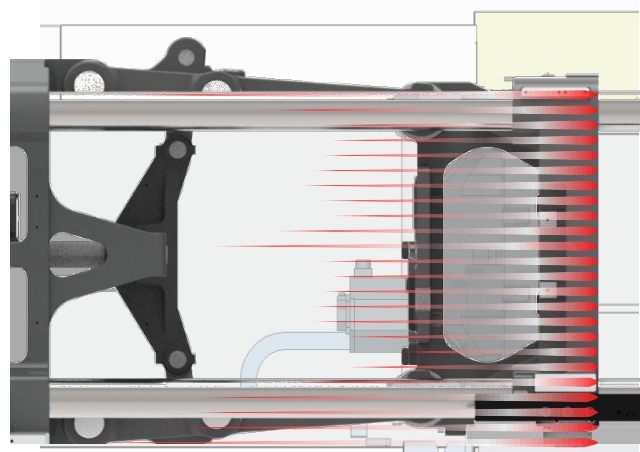
Barrel temperature auto adjustment

The machine monitors the plasticizing condition. Adjusts the heater temperature to reduce energy loss so that it reduces power consumption.



High speed operation to improve productivity

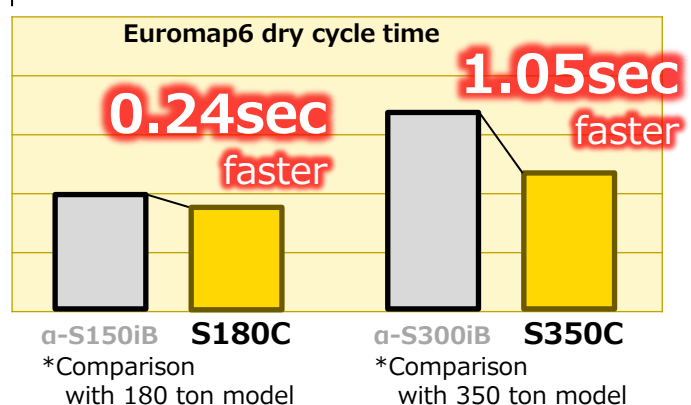
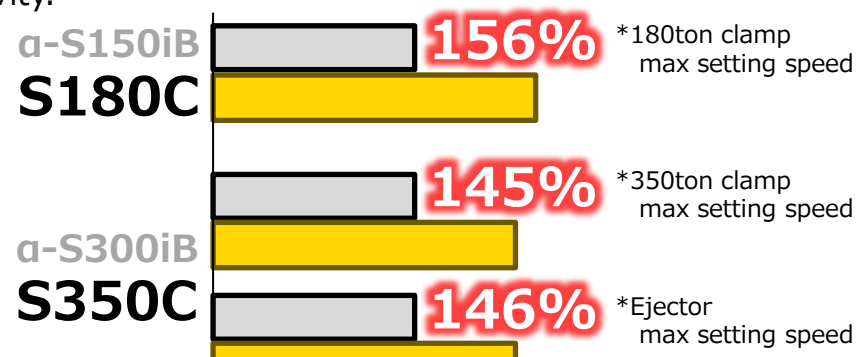
Faster opening/closing and ejector speed reduce cycle time. Clamp force adjustment in cycle and minimum clamp force detecting function are equipped as standard. These realize high level productivity.



Increased the speed of clamp motion

Significantly reduce cycle time.

Clamping force sensor is equipped as standard. Actual clamping force is on display, clamping force auto adjustment during operation, minimum clamping force detection are available. High-speed and precise mold opening and closing utilizing various standard functions greatly improve production efficiency.



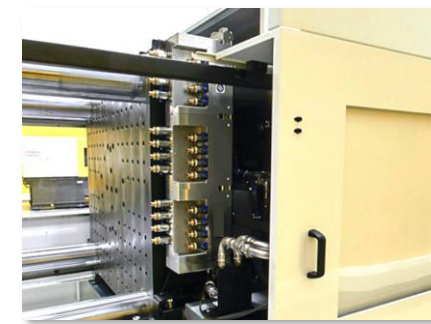
Creative

Variety of options capable for several applications

Capable

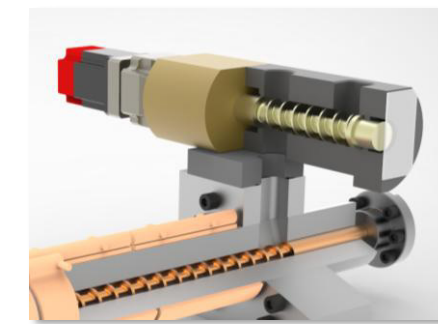
In addition to wide range of standard features, many options are available. These satisfy requirements needed for various applications, improve quality and add higher value to molding products.

Extended guarding



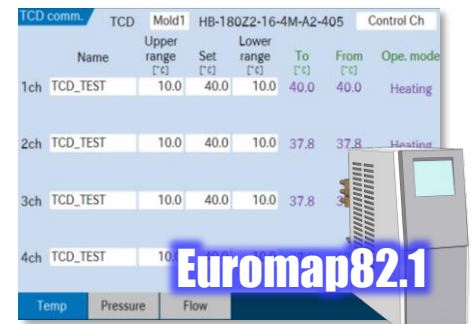
Possible to tidy the wiring route to peripheral devices
 *providing space for users to freely design and implement internal piping and manifolds.

Servo feeding device



Possible to control material feeding amount to assist gas evacuation

Mold temperature control device



Possible to communicate with MTCD via OPC UA

ROBOSHOT can be used in variety of molding industries. In addition to general options such as water piping manifolds and external outlet, we offer many options that incorporate FANUC's technologies such as high-speed clamp, high-pressure injection, additional servo axis core control, and OPC UA compatible communication interfaces.

FANUC servo technology
 High Speed Clamp
 High Pressure Injection
 Additional Servo Axis Control

Peripheral devices connect
 OPC UA
 Robot I/F
 Automatic Mood Clamp I/F

Special material molding
 Multi Component Molding
 LSR
 Thermoset Molding

*These are just a few examples. Please feel free to contact us for more information.