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Printed in Japan HO,AF,AA,BJ,B

JADS SERIES

All Electric Servo Drive Injection Molding Machine



Model

J30ADS | J50ADS | J80ADS | J100ADS | J130ADS | J180ADS

Made in HIROSHIMA

JSW



JQA-QMA13993
JQA-EM6416 (Hiroshima Plant)

JADS Fuses Newly Developed Technology With JSW's Proven Track Record

~ Bringing You Ultimate Peace of Mind ~

JADS SERIES
All Electric Servo Drive Injection Molding Machine

High-Dimensional All Electric Servo Drive Injection Molding Machine Without Equal "ADS SERIES"

JSW's small size ADS is a new series which innovates and brings increased precision to the AD series. With an advanced function controller, newly developed clamping and injection units, and improved screw and barrel, the machine will contribute to your production with increased safety, stability, and energy saving.

Solution

Satisfaction Smart Strong Stable

~ Solving All of Your Problems ~

Satisfaction

Applications to meet every need

Support for reducing power consumption /
Predictive maintenance
I/O customization / Molding support

Smart

New controller SYSCOM5000i

Process display (visualization) / Multi-touch operation
Lever switch / NET100 system (optional)

Strong

High-rigidity clamping unit / Clamping control

Increased width of equippable molds /
High-precision mold protection
Flat press platens

Stable

High-precision injection / Recovery control and flexibility

Wide range of injection modules / Screw variations
Various holding pressure transfer selections



Complies with safety regulations
Japan Society of Industrial Machinery Manufacturers Regulation (JIMS K-1001)

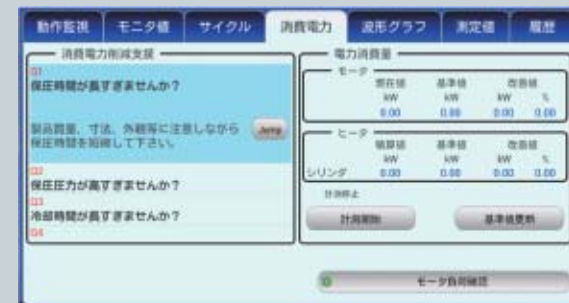
Applications to Meet Every Need

Management

Energy saving "eco mode" and power consumption reduction support further reduces running costs.

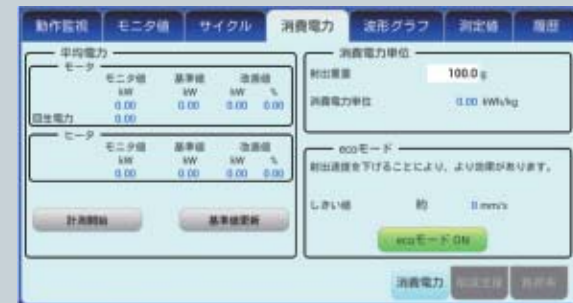
Support for reducing power consumption

Suggests molding conditions for reducing power consumption



Eco mode

Reduces power consumption in addition to economical molding conditions

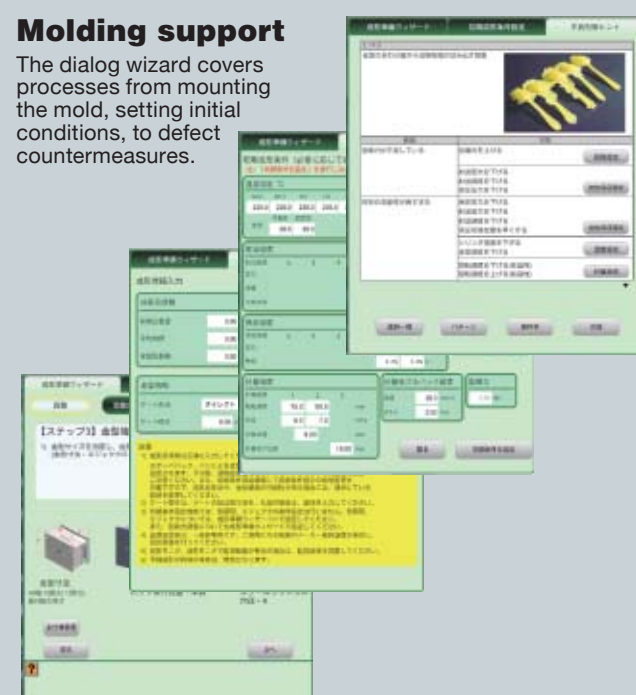


Manufacturing

Reduces operator load to create high added value

Molding support

The dialog wizard covers processes from mounting the mold, setting initial conditions, to defect countermeasures.



Molding condition memo

In addition to noting mold conditions, you can take notes during the molding process, save equipment settings, molded product images and other multimedia.

Screenshots / Hand-written memos

You can write and edit information directly on top of screenshots.



Built-in user manual

Can be referred to as needed while working on site



Maintenance

Reduces machine downtime through preventive and predictive maintenance

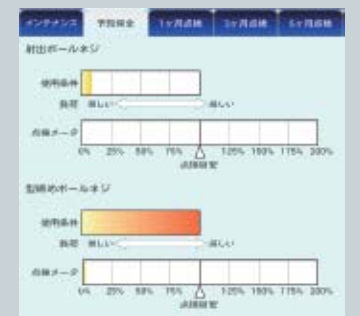
Preventive maintenance

Automatically notifies you when to perform regular inspections

3ヶ月点検 過去3件まで表示	点検項目	点検日時
0-1	ボールねじ	2015/05/29
0-2	グリース自動給油装置	2015/05/29
0-3	モータ冷却ファン	2015/05/29
0-4	樹脂冷却ファン	2015/05/29
0-5	樹脂調整装置	2015/05/29
0-6	バンドヒータ取付ボルト	2015/05/29
0-7	高電対	2015/05/29
0-8	グリースホース、チューブ	2015/05/29

Predictive Maintenance

The inspection timing of the ball screws can be checked while taking the molding load into account.



Production Engineering

Production Engineering

A production system can be created by connecting peripheral devices.

I/O Customization

Simple sequences can be user generated.



- (1) Mold is opened
- (2) Product take-out instructions given to the robot
- (3) Pulse signal indicating product take-out completion is received from the robot
- (4) Clamping begins
Auxiliary equipment operates in 3 seconds

New controller SYSCOM5000i

Fully Featured and Easy to Use NEW

Main advantages of the SYSCOM5000i

- Lightweight multi-touch operation
- Touch-operated lever switches
- User-manual display function
- Settings screen with a larger, ergonomic design for improved visibility
- Large 15-inch screen with energy-saving LED backlight



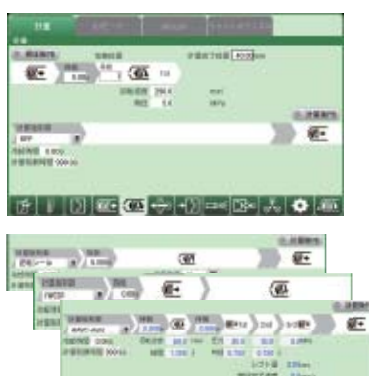
Touch-operated lever switches

Tablet-based operation
*Optional

User-friendly screen configuration

Process display

Visual or list display for every molding process



Overall Settings Screen

Molding conditions can be set without navigating numerous pages.



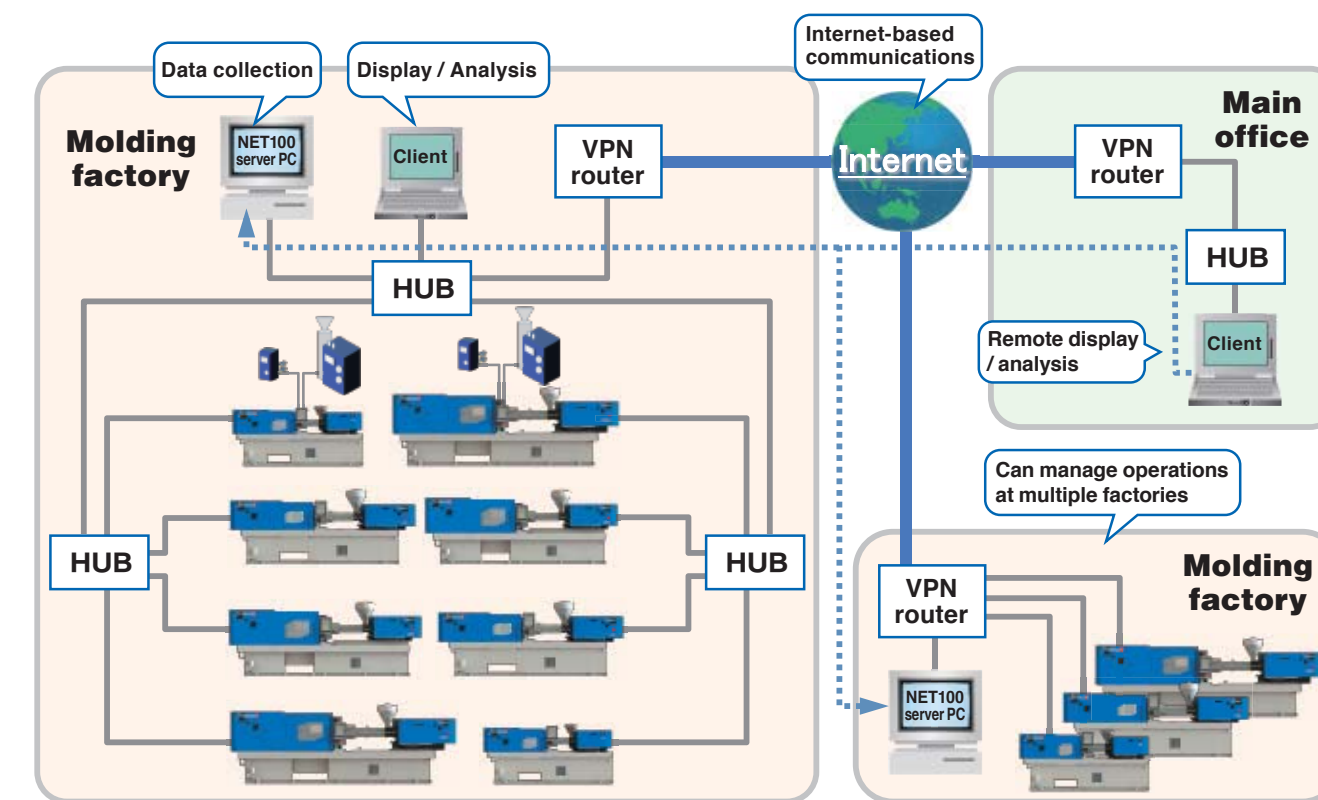
Cycle monitor

Allows task conditions in the molding machine to be visually checked in real-time



NET100 System (Optional)

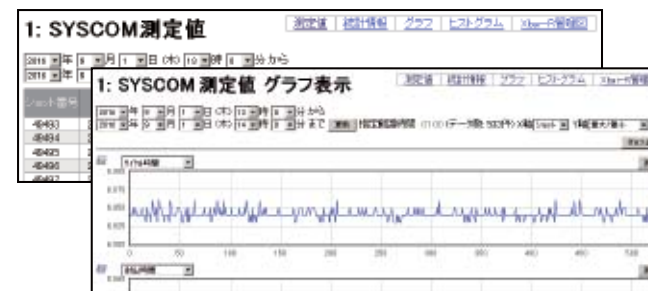
JSW injection molding machines move into new territory by connecting through the Internet



Monitor operation conditions

CAMOT NET100 号機一覧					
現在の稼働状態					
名義	機名	稼働条件名	ステータス	シフト番号	状態
1	SYSCOM0001	TEST01	生産中	022	シフトデータ 稼働確認 異常
2	SYSCOM0002	TEST02	生産中	06408	シフトデータ 稼働確認 異常

Analyze measured values



Display and operate the controller screen

CAMOT NET100 号機一覧					
現在の稼働状態					
名義	機名	稼働条件名	ステータス	シフト番号	状態
1	SYSCOM	TEST00	生産中	058149	シフトデータ 稼働確認 異常

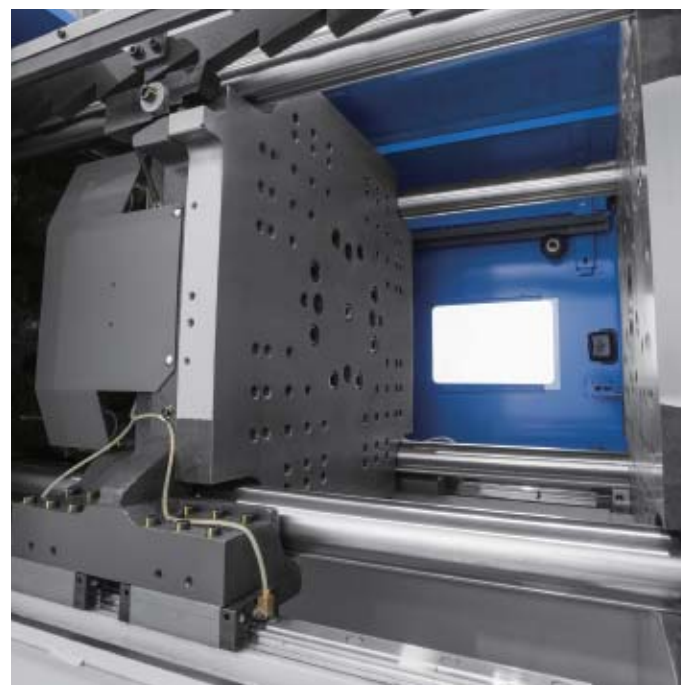
Display and manage molding conditions

1: SYSCOM 成形条件一覧					
シフト番号	機名	稼働条件名	ステータス	シフト番号	状態
1	SYSCOM	TEST00	生産中	058149	シフトデータ 稼働確認 異常
2	SYSCOM	TEST01	生産中	06408	シフトデータ 稼働確認 異常
3	SYSCOM	TEST02	生産中	06408	シフトデータ 稼働確認 異常
4	SYSCOM	TEST03	生産中	06408	シフトデータ 稼働確認 異常
5	SYSCOM	TEST04	生産中	06408	シフトデータ 稼働確認 異常
6	SYSCOM	TEST05	生産中	06408	シフトデータ 稼働確認 異常
7	SYSCOM	TEST06	生産中	06408	シフトデータ 稼働確認 異常
8	SYSCOM	TEST07	生産中	06408	シフトデータ 稼働確認 異常
9	SYSCOM	TEST08	生産中	06408	シフトデータ 稼働確認 異常
10	SYSCOM	TEST09	生産中	06408	シフトデータ 稼働確認 異常

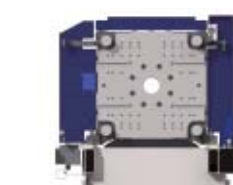
Innovated High-Rigidity Clamping Unit and Clamping Control

Clamping Unit Works With Various Types of Molds NEW

Twin brake for the mold opening/closing mechanism and the ejector mechanism



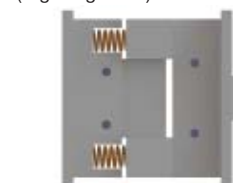
Uses a high-precision linear guide with low friction which contributes to energy saving and high cycles



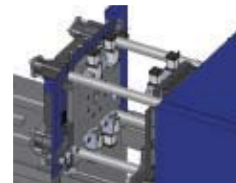
Platens are compatible with flexible processing (E.g.: T-groove)



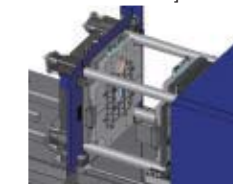
Ejector rod link



Mold with spring mechanism [Standard equipment for the brake mechanism] NEW!



Large molds can be automatically changed (Horizontal setup)



Easily installable and controllable magnet clamp



Compatible with JSW exclusive DSI molding technology

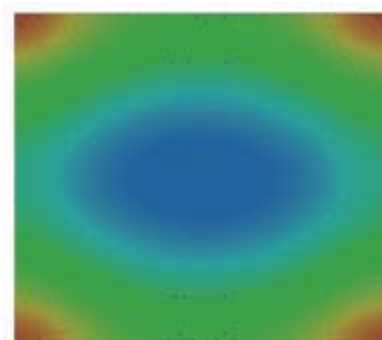
*Images include optional components.

"Flat Press Platens" With Equalized Clamping Pressure

- The high-rigidity clamping unit allows surface pressure in the mold to be spread evenly. [Molded products: Improved dimension precision, fewer burrs] [Molds: Improved lifespan, mold designs and mounting freedom]

Superior platen precision, uniform mold parting surface pressure

100-ton class conventional machine



With burr

J100ADS

- 55% reduction in surface pressure variation
- Surface pressure in the center area can be increased, and clamping force can be reduced.



Without burr

The uniform surface pressure inhibits burrs and deviations in thickness.

Increased Thickness and Width of Equippable Molds NEW

In order to be able to equip even larger molds, the platen size and daylight were increased.

*Upper row: ADS Lower row: Conventional machine

	J30ADS	J50ADS	J80ADS	J100ADS	J130ADS	J180ADS
Mold thickness	120~430	150~470	150~510	150~550	150~550	200~600
Min. - Max. (mm)	150~330	160~370	180~410	200~450	200~450	200~500
Tie bar interval	310×310	360×360	410×410	460×460	530×510	590×560
W × H (mm)	310×290	360×310	410×360	460×410	530×460	590×530

New Mold Protection Function NEW

Increased functionality of mold protection due to the adoption of new controls

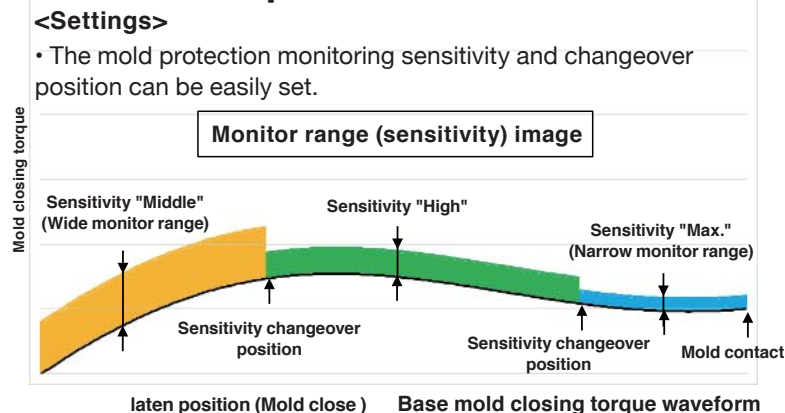
- Mold protection multi-stage settings [compatible with various mold structures]
- A high degree of safety through simple settings
- Ability to track mold temperature changes



Before testing

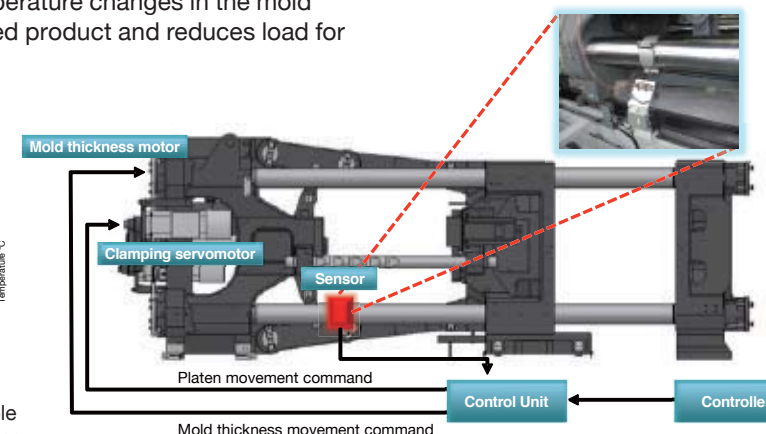
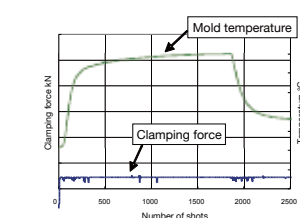
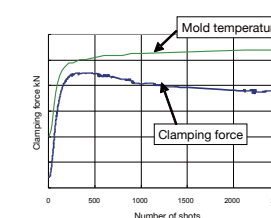
ADS

Conventional machine



Clamping Force Feedback Control *Recommended option

- Visualization of the actual clamping force of the toggle unit
- Clamping force fluctuations reduced based on temperature changes in the mold
- Stable degassing improves the quality of the molded product and reduces load for mold maintenance
- Optimized clamping force allows the life of the mold to be extended



Original High-Precision Injection / Recovery Control and Flexibility

JSW Exclusive High-Precision Recovery Control

Reverse seal control

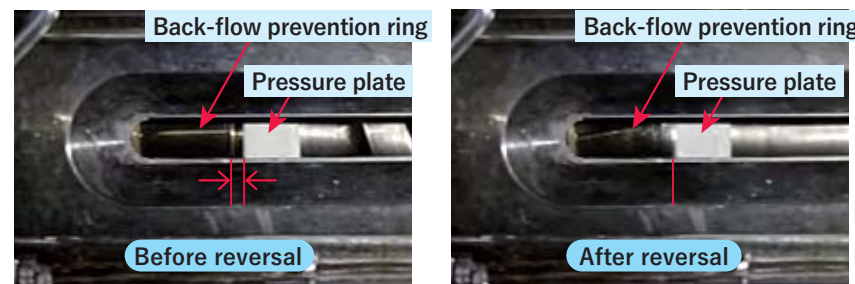
The screw is reversed after recovery ends to help the back-flow prevention ring close and to inhibit drooling.

IWCS control

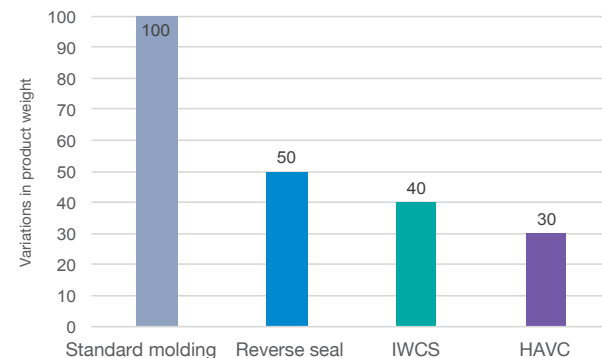
In order to stabilize product weight, the density of molten resin is controlled after recovery.

HAVC control

In order to stabilize product weight, the reverse seal and injection stroke after repressurization are constantly controlled.



Eliminates the gap between the back-flow prevention ring and the pressure plate after reversal



Injection Unit With Standard Friction Resistance Equipment

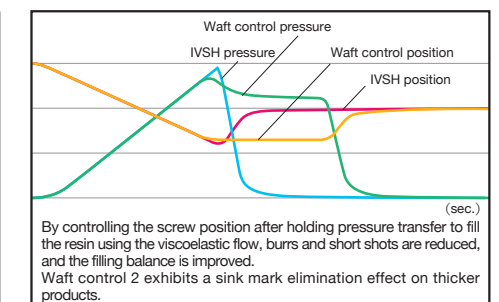
*JSW original LSP-2 screw (excludes 300U) and N2000F barrel

Clamping	Injection unit type	Screw diameter (mm)	Max. injection pressure (MPa)	Standard unit Max. injection speed (mm/s)	High-speed unit (HS) Max. injection speed (mm/s)	Extended pressure holding unit (EH) Max. injection speed (mm/s)
J30ADS	15U	16	276	350	500	250
		18	218			
		20	177			
J50ADS	30U	20	270	350	500	250
		22	223			
		25	172			
J80ADS	60U	25	270	350	500	250
		28	215			
		32	165			
J100ADS	110U	25	320	350	500	250
		28	300			
		32	270			
		35	225			
		40	172			
J130ADS	180U	35	260	350	500	200
		40	199			
		45	157			
J180ADS	300U	40	250	240	330	160
		46	189			
		51	154			

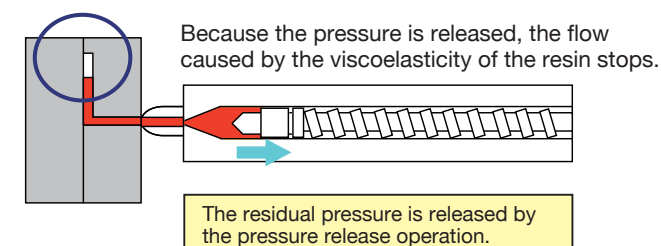
*Please contact us in regards to EH pressure holding times.

Various Holding Pressure Transfer Modes

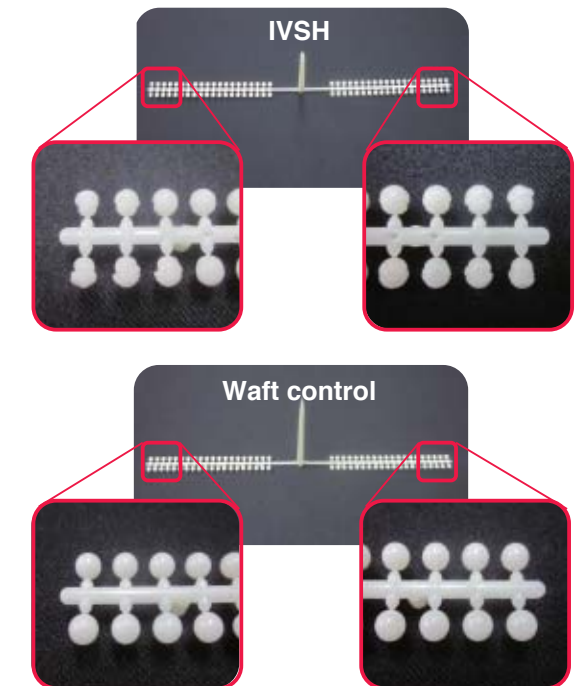
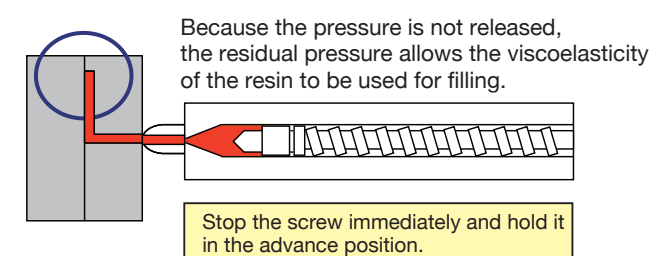
Select mode	Control	Improvements
IVSH	Position changeover	-
IVSL	Speed transfer	Less variation when filling
IPS	Pressure transfer	Less variation when filling
EXT	External signal selection	Pressure within the mold can be controlled (selected) by the user
Waft control 1	Constant control of the cushion position	Flow extension, improvements in filling balance, pressure reduction in the mold, etc.
Waft control 2	Constant control of the cushion position + Pressure holding	Flow extension, improvements in filling balance, pressure reduction in the mold, controlling sink marks, etc.



IVSH



Waft control



By stopping the screw immediately before filling, it is possible to extend the distance of the flow and improve the filling balance.

Screw Variations

JSW original screws correspond to diverse resins and products.

Name	Shape	Purpose
GP21	Single flight	JSW standard screws for use with all general-purpose resins
M7	Double flight	Compatible with both high-cycle molding and high kneading
M2K	Double flight	Used with optical resin (PC, PMMA), polyvinyl chloride resin (H-PVC) molding
HP	Double flight + mixing piece	Reduces color unevenness when using highly concentrated dry colors or master batches
CL	Specially shaped flight	Resin burn reduction
VP	Specially shaped flight	Prevents resin burns, contamination, and gas caused by excessive shearing



Additionally, various other types of screws are available.