

# Electric servo drive injection molding machine that has evolved to a higher standard than ever before

# ADS SERIES

JSW, a specialist in toggle type mold clamping unit design,

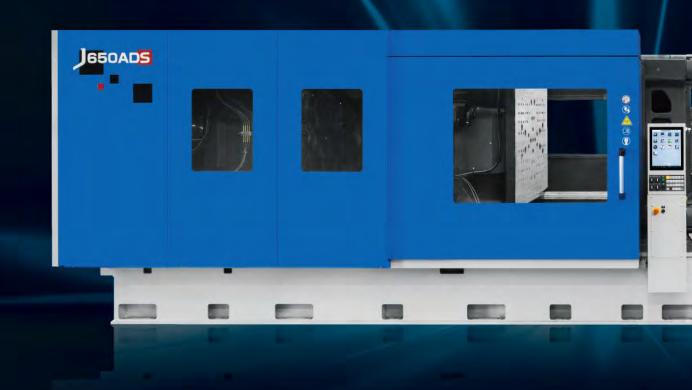
proudly presents the JADS series of electric servo drive injection molding machines.

As a world's top-class supplier we have achieved

"faster cycle times", a stronger, "long life design" and "precise & stable molding" based on our extensive experience.

In addition, the new controller, which is based on ergonomics and is extremely easy to use,

provides advanced intelligence to meet the diverse needs of various molding factories and contributes to increased productivity.



# 4 Solutions for High Productivity



#### Faster Cycle Times

- Ultrahigh-speed open/close toggle mechanism
- High-speed & high-acceleration ejector
- High speed servo type mold height adjustment device
- High response & high output injection unit

# SMART

#### Intelligence

- Applications for a variety of needs
- New controller "SYSCOM 5000i"
- Convenient screen layout
- IoT solutions "J-WiSe®"

# **S**TRONG

#### Longer Life Design

- High-rigidity mold clamping unit
- Flat press wide platen
- Advanced high-performance screw

# **S**TABLE

#### Stable Molding

- Clamping force feedback control
- High-accuracy recovery control
- Energy saving



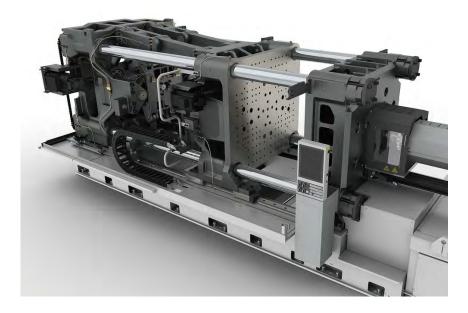
Conforms to national safety standards

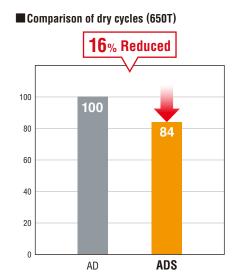
#### **Exceptional dry cycle capability**

#### Ultra high-speed toggle mechanism

JSW's original toggle clamp design has evolved to achieve top-level dry cycle times.

- Mold open/close speed is increased by approximately 15%
- High-speed, high-acceleration ejector device significantly reduces product removal time
- The servo drive mold thickness adjustment mechanism greatly reduces the time for the mold thickness adjustment and improves the linearity of clamping force between the set value and actual value





#### Improved stability of injection and plasticizing

#### Highly responsive & high-power injection unit

JSW's original high-precision, highly stable injection unit has been made more compact with reduced inertia allowing for consistent injection and plasticizing.

- Injection acceleration time has been increased by 27% to enable molding of thin-walled products
- The three-plate structure of the injection unit achieves high rigidity and high durability
- Large-capacity servo motors are installed to support a wide range of molding applications such as high speed and high load processes



# 27% Reduced 100 80 40 20 AD ADS



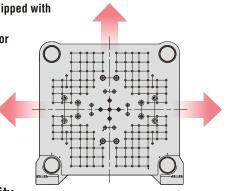
#### Mold clamping unit with a proven track record and high reputation

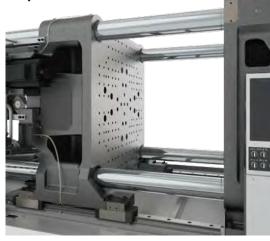
#### High-rigidity mold clamping unit

Further evolution of the proven highly rigid mold clamping unit to achieve more stable molding.

- High-rigidity mold clamping unit that pursues precise, stable molding and high-durability
- Maintenance-free, linear-guided mold support system with high running accuracy
- Flat press platens ensure uniform surface pressure distribution and prevent burr and uneven wall thickness in molded products

The mold open/close motor is equipped with a brake as standard to protect the mold in case of power failure or other unforeseen circumstances





#### Wide platens with high rigidity

By increasing the distance between tie bars while maintaining the rigidity of the mold platen, larger molds can be mounted.

Item Serie	es Model	J550	J650	J850	J850W
Distance between Tie-bars	AD	960 × 900	1060 × 960	1060 × 1060	1320 × 1320
H×V (mm)	ADS	1020 × 970	1120 × 1070	1120 × 1070	1370 × 1320

#### Advanced high-performance screw \*Standard screw for 1400H and smaller is the GP screw

#### M3-CL screw

Faster cycle times and a stable molding process is achieved utilizing a longer life screw with both high plasticizing capacity and high kneading performance.

- Achieves faster cycle molding with the industry's top-class plasticization capacity
- New screw design reduces wear and material burn
- JSW's original screw design provides
   both high plasticizing capacity and improved kneading performance



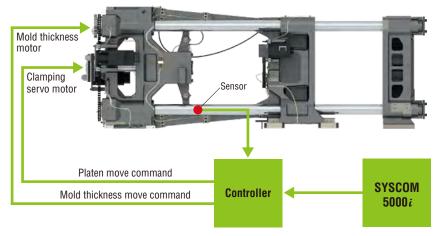
# Front side Hopper side Reduced screw diameter Hopper side Hopper side Front side Hopper side Hopper side No reduced screw diameter

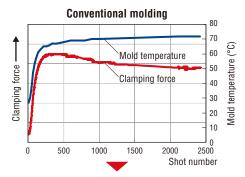
#### Highly precise and stable control

#### Original high precision mold clamping control

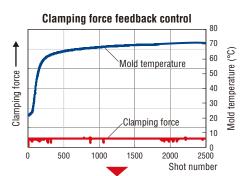
Prevents changes in mold clamping force due to changes in temperature to achieve stable molding.

- "Visualization" of the actual clamping force in toggle machine
- Reduced clamping force fluctuations based on temperature changes in the mold
- "Reduction of mold maintenance" by stabilizing gas venting
- "Longer mold life" with optimum clamping force





#### Mold clamping force changes as mold temperature rises



Mold clamping force remains constant even if the mold temperature changes

#### New mold protection function

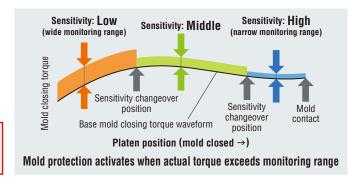
In addition to conventional mold protection, the use of the new control further improves mold protection performance.

- High safety performance with easy setup
- Compatible with various molds
- Follows changes in mold temperature
- Abnormality detection at all stages of mold open/close

Only two values need to be set

- Mold protection monitoring sensitivity
- Changeover position

Easy to set!



### High-precision original injection control

#### Various holding pressure settings

By selecting the proper holding pressure mode, the quality of the molded products can be improved and stabilized.

Select mode	Control	Improvements
IVSH	Changeover by Position	_
IVSL	Changeover by Speed	Less variation when filling
IPS	Changeover by Pressure	Less variation when filling
EXT	Changeover by External signal	Pressure within the mold can be controlled (selected) by user
Wait control 1	Constant control of the Cushion position	Flow extension, improvements in filling balance, pressure reduction in the mold, etc.
Wait 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.



#### High-accuracy recovery control

#### JSW's original high accuracy volume control

JSW's unique High Accuracy volume Technology enables further stabilization of molding.

### Reverse Seal Control

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

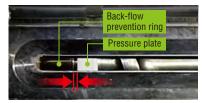
## Injection Weight and Cushion Stability

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

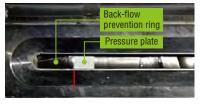
#### High Accuracy Volume Control

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

#### **■** Before reversal

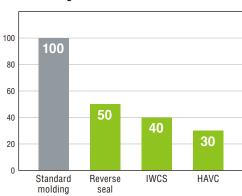


■ After reversal



Promotes closure of the back-flow prevention ring after reversal

#### ■ Product weight variation

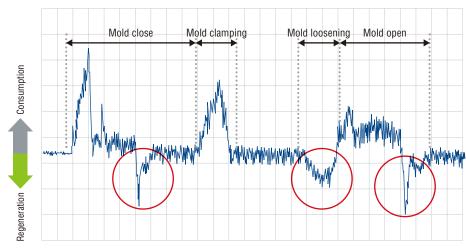


#### Various energy saving solutions

#### **Original Power Regeneration**

In the entire process of servo motor drive, such as injection and mold open/close, the energy generated at the time of deceleration is recovered as regenerative power to reduce power consumption.

#### Regenerated power in the mold open/close



#### **Barrel insulation cover (optional)**

- Prevents heat dissipation from the barrel heater and improves the thermal efficiency of the heater
- Reduces power consumption by about 24% when the barrel temperature rises

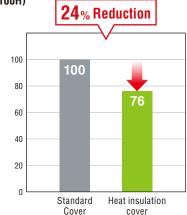
#### Synchro heat up control

- Reduces power consumption by synchronizing the temperature rise speed of the nozzle and barrel
- Prevents resin burn and contamination at the nozzle when the barrel temperature rises

#### ■ Regenerated power in the mold open/close







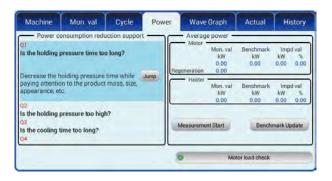
 $\ensuremath{ \star } \textsc{Power consumption}$  when the barrel temperature is increased from 150°C to 250°C

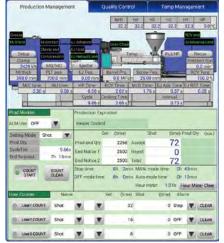
#### Management

#### Promotes energy savings and improves productivity with production management system

#### **Energy savings [J-Support]**

SYSCOM 5000i will suggest injection molding conditions in order to save energy





# Production management system

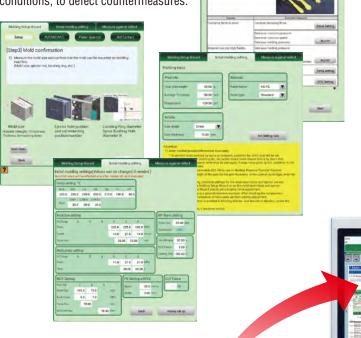
Collecting of shot data and statistical data, setting of upper and lower limit alarms can be controlled easily.

#### Manufacturing

#### Reduces operator work load to create higher added value

#### Molding assist [J-Assist]

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



#### Memo of molding conditions

Storage capabilities such as molding conditions, memos, setting of peripheral devices and photos of products.



#### Screen shots -Hand written memos

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



# Instruction manual stored in system

Instruction manual can be referred to as needed on the controller.





#### Maintenance

#### Preventive maintenance reduces machine downtime

#### Preventative maintenance [J-Support]

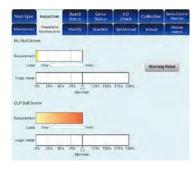
Maintenance items can be checked in collective display





Automatically notifies you when to perform regular inspections. Inspection record can be stored in the controller.

Smbl	ChkPoint	
Q-1	Ball screw	2020/08/25
0-2	Servomotor cooling fan	2020/08/25
0-3	Control Panel Cooling Fan	2020/08/25
Q-4	Inspection of Mold Thickness Adjustment	2020/08/25
Q-5	Band heater	2020/08/25
Q-6	Thermocouple	2020/08/25

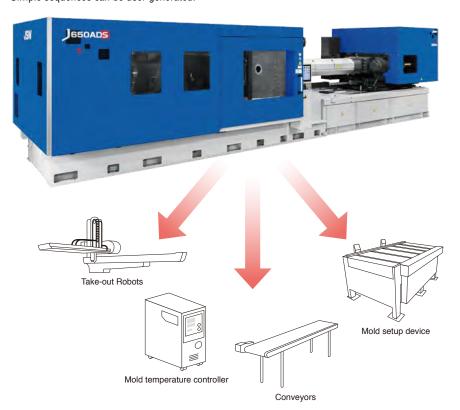


The inspection timing of the ball screws can be checked while taking the molding load into account.

#### Production engineering

#### I/O customization

Simple sequences can be user generated.



# Enables the construction of a manufacturing system through connection with peripheral equipment.

#### Setting

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	3	YCMCL	Mold closing		Output Setting	
Carred   File   Carred   File   Carred   File   Carred   File   Carred   File   Carred   File   Carred   Carr	4					-
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#### Action

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

## New controller SYSCOM5000i

## Function fully realized through simple navigation system

Main characteristics of SYSCOM5000i

- Casual multi-touch operation
- Simple lever operation
- User-manual display function
- On screen instruction manual
- Large 15" display with utilized energy saving LED technology





Touch operated lever switches



Tablet based operation (optional)



#### **User friendly screen configuration**

#### Operation process display

Visual or list display for every molding process.



#### Collective setting display

Molding conditions can be set without navigating numerous pages.

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#### **Cycle monitor**

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



#### Multiple injection (option)

Multiple injection unit control can be integrated.





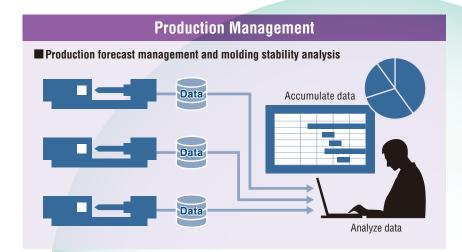


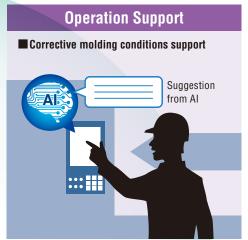
J-WiSe®: JSW Worldwide IoT Solutions of Enhancement

"J-WiSe®" is a general term for the IoT solutions that JSW aims to provide.

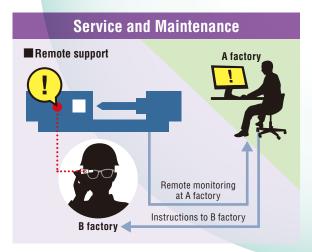
By providing systems and services in the four categories of "Production Management," "Operation Support,"

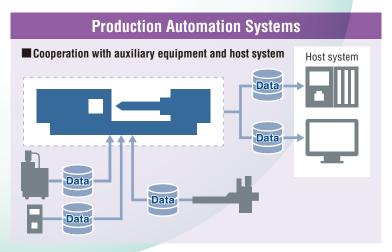
"Service and Maintenance," and "Production Automation Systems," our goal is to make our customers' molding factories smart factories and contribute to the improvement of their productivity.













## **Various Equipment**

A full range of equipment to meet a wide range of requirements.



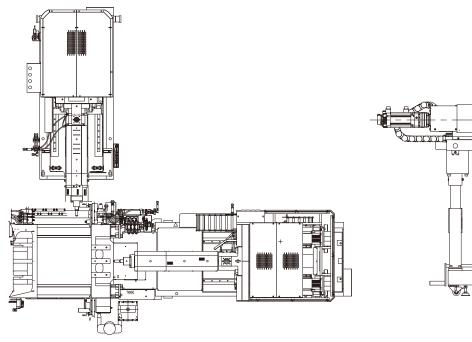
\*These are sample pictures of options and may differ from the pictures depending on the customer's specifications.

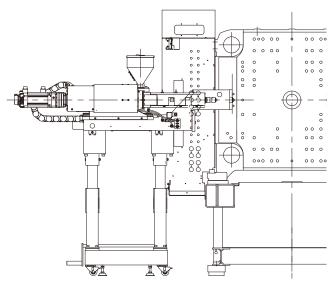


Flexibly respond to custom specifications.

## L-shape injection unit for two color molding

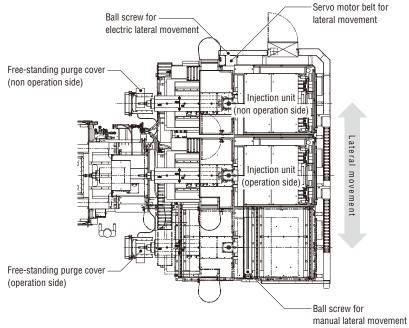
# Retrofit sub-injection unit "FLiP®" for two color molding





## Slide type twin injection unit to reduce setup time significantly





## **Standard Equipment List**

		lt	em			
	Open nozzle			Note 1		
	N2000F barrel					
	Chrome plated screw			Note 2		
	Screw pull-back					
	Purge cover (with limi	,				
	Injection Unit Swiveling device (with limit switch)  Note 3					
Jnit	Screw cold start preve					
	Molding/Purging/Paus	e temperat	ure select			
Injection and Plasticizing Unit	Auto purging circuit					
izir	Nozzle retract select	Injection	/Holding pressure: 1~6 steps (vari	abla)		
ıstic	Injection/Metering programmed control	-	/Back pressure: 1~3 steps (variabl			
P	Holding pressure trans		back pressure. 1~0 steps (variable	6)		
and	Holding pressure cont					
ion	Pull-back select					
ect	Barrel temperature con	ntrol (PID/S	SSR)			
ij	Nozzle temperature co	`	,			
	Synchrounous temper	ature rise c	ontrol			
	Hopper flange temperature control					
	Soft pack servo contro	ol				
	HAVC (high accuracy	olume con	trol)			
	IWCS (injection and co	ıshion stab	ility) control			
	Reverse seal control					
	Auto grease iubricatio					
	High performance plat Low vibration mold op					
	Wide platen	611/61036				
	·	anism (sta	tionary side/movable side)			
	Mold open/close and		Mold open/close: 4 steps (fixed)			
	Ejector programmed o	ontrol	Ejector: 1~3 steps (variable)			
	Mold protection function					
	Ejector servo motor with brake					
	Mold open/close servo motor with brake					
l in	Auto mold thickness adjusting device					
ing	Auto clamp force setting					
Clamping Unit	Clamp force display					
ြီ	Clamping force feedback control					
	Ejector plate return confirmation circuit					
	Electrical clamping unit safety device Robot mounting holes					
	Hobot mounting nois		Screw rotation during mold open	/close		
	Compound action		Eject during mold open	, 0.000		
	,		Injection during clamp up			
	Safety mat (under mo	d area) J85		Note 4		
	Grease free toggle bus					
	Auto grease lubricatio	1				

Touch panel 15" TFT color LCD controller 300 mold condition storage (internal memory)  Soft start molding  Self diagnostics function  I/O customize function  Molding operation assist [J-Assist]  Help function Pop up display  Manual browsing function  Start up safety notice  Molding condition memo Clock function  Multi language select (English, Chinese, Japanese)  USB port × 2  Overall setting screen Preheat timer Product takeout robot circuit Attended/Unattended operation select Emergency stop button Safety key  Actual value display Mold temperature display Injection/Metering waveform monitor Oscilloscope waveform monitor Energy consumption and regeneration monitor Injection/Metering waveform storage Barrel temperature monitor Injection pressure monitor (IPM) Statistical graph Production monitor Cumlative operating hour display Cycle monitor Molding condition upper/lower limit monitor Note 8 Inspection and maintenance guide [J-Support] Note 9 Heater system alarm Injection pressure overshoot alarm Grease lubrication alarm Servo fault alarm Unreleased clamp alarm Position calibration request Fault alarm buzz Alarm history Set value history Safety compliance (ISO20430, ISO60204-1) Cooling water closed circuit for feed throat Accessories (maintenance tools and ejector rods, etc.)		Item	
Soft start molding Self diagnostics function I/O customize function Molding operation assist [J-Assist] Help function Pop up display Manual browsing function Start up safety notice Molding condition memo Clock function Multi language select (English, Chinese, Japanese) USB port × 2 Overall setting screen Preheat timer Product takeout robot circuit Attended/Unattended operation select Emergency stop button Safety key Actual value display Mold temperature display Mold temperature display Injection/Metering waveform monitor Oscilloscope waveform monitor Energy consumption and regeneration monitor Injection/Metering waveform storage Barrel temperature monitor Injection pressure monitor (IPM) Statistical graph Production monitor Cumlative operating hour display Cycle monitor Molding condition upper/lower limit monitor Inspection and maintenance guide [J-Support] Note 9 Heater system alarm Injection pressure overshoot alarm Grease lubrication alarm Servo fault alarm Unreleased clamp alarm Position calibration request Fault alarm buzz Alarm history Set value history Safety compliance (ISO20430, ISO60204-1) Cooling water closed circuit for feed throat		Touch panel 15" TFT color LCD controller	
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Cooling water closed circuit for feed throat	S	·	
Accessories (maintenance tools and ejector rods, etc.)	her		
	01	Accessories (maintenance tools and ejector rods, etc.)	

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1400H and below are chip types.
2300H and above are MIII-CL screws.
Note 1
Note 2
         1400H and below are GP-21 screws.
        1400\mbox{H} and below are manual.
Note 3
        J850ADSW and above are standard equipment. (models with tie-bar spacing larger than 1200 mm)
Note 4
         J550ADS to J850ADS are optional. (tie-bar interval smaller than 1200 mm)
         The safety mat on the top of the steps is optional.
Note 5 Commercial USB flash drives can also store molding conditions.
Temperature sensor and wiring not included.
Note 8 You can select up to 18 display items and alarms from the list below.
         (1) Cycle time (2) Injection time (3) Metering time (4) Maximum injection pressure (5) Cushion position (6) Holding pressure end position
         (7) Holding pressure transfer pressure (8) Back pressure (9) Metering end position (10) Injection start position (11) Holding pressure transfer position
         (12) Metering torque (13) Holding pressure transfer speed (14) Mold close time (15) Mold open time (16) Clamp force (17) Shift amount (HAVC) (18) End speed (HAVC)
Note 9 Notifies you of component inspection times based on molding conditions
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	Item				
	Long nozzle				
	Shut off nozzle (pneumatic type and hydroulic type)				
	Mixing nozzle				
	KC nozzle (support up to 3100H φ 92)				
i i	LSP-2 screw (abrasion resistant type)				
lg L	Special design cores: MIIK screw for optical ap	plication			
izin	Special design screw  HP screw for high dispers	sion			
Injection and Plasticizing Unit	Wide selection of screws & barrels	Note 1			
Pla	Barrel insulation cover				
pui	Barrel blower cooling unit (with insulation or no insulation)				
on 8	Hopper				
ctic	Hopper slide device				
Inje	High speed injection spec.				
	Extended holding pressure time spec.	Note 2			
	Long time plasticizing spec.	Note 3			
	Electric motor driven injection unit advance/retract				
	Purge shutter				
	Daylight extension				
	Mold platen heat insulation boed (5 or 10 mm)	Note 4			
	Locating ring				
	Air jet				
	Core pull devices (pneumatic type and hydraulic type)	Note 5			
	Valve gate devices (pneumatic type and hydraulic type)	Note 5			
	Coupler joint (hydraulic, pneumatic)				
	Hydraulic power pack				
	Ejector gate cutting circuit				
Ξ	Ejector (one touch type)				
l g	Unscrewing motor circuit				
Clamping Unit	Auto safety gate open (operation side)				
lam	Auto safety gate open/close (operation side/non operation side/both sides)				
0	Safety mat (under mold area) J550ADS to J850ADS Note				
	Safety mat (top of the steps)				
	Safety footplate				
	T slot platen				
	Mold clamper device (pneumatic, hydraulic, magnet type)	Note 4			
	Easy mold clamper	A 1			
	Toggle type injection compression function compression:	A mode			
	1~6 steps (variable)	B mode			
	Forming mold control				
	Mechanical clamping unit safety device				

	Item	
lo l	Multi language select (1 language additional)	Note 7
ont	J-WiSe <sup>®</sup> system	
D Du	Mold temp display (with mold temp upper/lower limit alarm)	
on a	Mold temp control device (with mold temp upper/lower limit alarm)	
ntati	Hot runner control circuit	
nme	Receptacle	Note 8
Electrical Instrumentation and Control	Family mold control	
call	Flow mold control	
octri	Speae output signal circuit	
E	Motion/no-motion select	
	Hopper stage	
	Mold cooling water closed circuit (platen/bed)	
	Cooling water failure warning	
ည	Air pressure alarm	
Others	Leveling pad for installation	
	Movement prevent anchor bolts	
	Rotary warning light	
	Export specification	Note 9
	Designated color	Note 10

- Note 1 Please contact us for detailed specifications. Note 2 High pressure holding capacity for a long time.
- - Injection speed may be slow.
- Can be plasticized with high torque. Note 3
  - Plasticizing capacity may be reduced.
- When an insulated plate or magnetic clamper is mounted, the nozzle plunge amount must take these thicknesses into account. Specification values for mold thicknesses have also been changed.
- J850ADSW and above are standard equipment. (models with tie-bar spacing larger than 1200 mm) J550ADS to J850ADS are optional. (tie-bar interval smaller than 1200 mm)
- Japanese, English and Chinese are standard equipment.
- Note 8 Please specify the power supply voltage and the number of outlets required for ancillary equipment.
- Note 9 Export specifications must be discussed depending on the destination.
- Note 10 Designate colors, referring to color samples or muncell codes.





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