

eDART[®] Shuttle Control Software

Applications & Reference

In This Manual

- 2 Introduction
- 3 Hardware Installation
- 8 Software Installation
- 9 Shuttle Control Setup
- 27 Shuttle Control Operation

Introduction

The *eDART*[®] Shuttle Control software tool organizes data in shuttle and rotary molding applications. The software tool enables the *eDART* to determine which mold base position input is active, allowing the *eDART* to determine sensor and alarms that are in use.

The eDART Shuttle Control software tool accepts input position from the machine or table and automatically determines which cavity pressure sensors are active in each position; the eDART then activates only the alarms for those values computed from currently active sensors. In addition, the eDART saves summary and cycle data for the active sensors, separates set points for mold halves, and delays diverters by cycle(s) for rotary applications.

Sensor Placement in Mold Halves: Fixed vs. Moving Functionality

Sensors in the fixed half detect pressure on every cycle. Sensors in the moving half detect pressure only during cycles in which that mold half is under the fixed half.

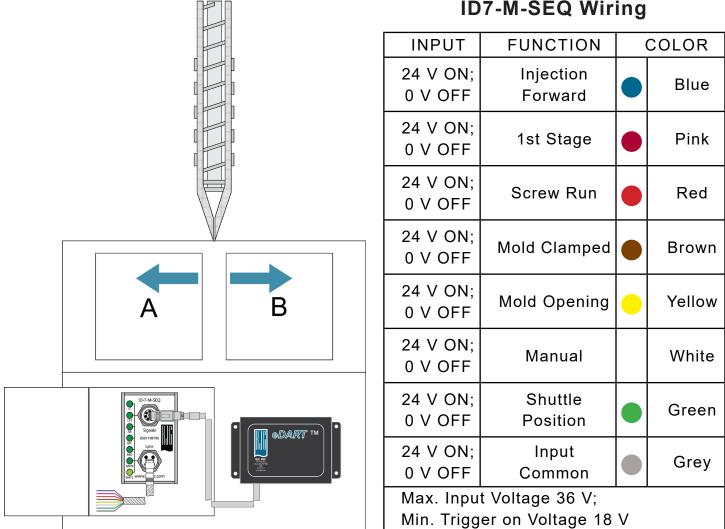
Function	Fixed Half Sensors	Moving Half Sensors	
Set Points		Separate control set points for each half or use w/valve gate control option.	
	Single set point for each half	Single control set point using high curve	
Alarm Levels		Separate alarms for each half	
	Single alarm level for each half	Single alarms for both halves using high and low values	
Summary Curves	Single summary curve for value in both halves—points on curve alternate between halves	Separate summary curves for each sensor in each half	

Hardware Installation

There are three wiring options when wiring for two positions.

Wiring for Two Positions—Preferred Method

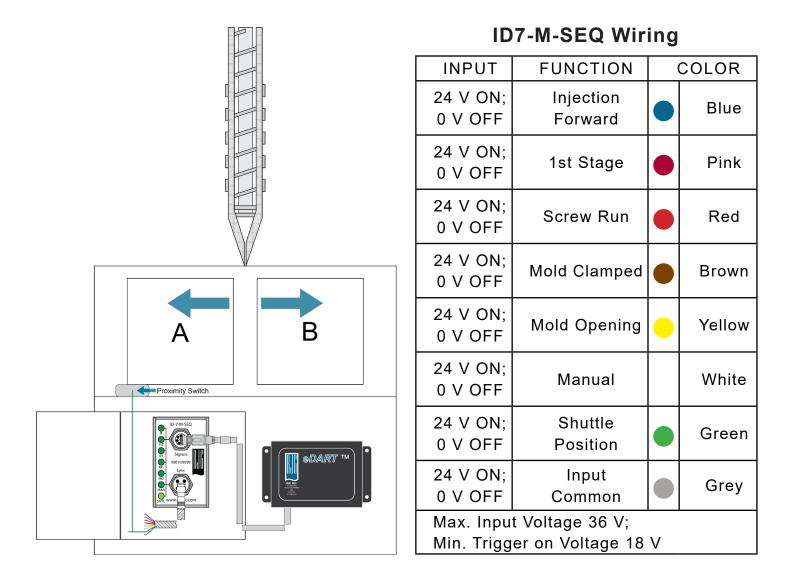
Wire the machine shuttle signal from the A OR B half to the ID7-M-SEQ sequence module. The signal must be ON at the start of the cycle for the mold in the first position and OFF at the start of the cycle for the second position. For example, if the A half shuttle signal is wired to the ID7-M-SEQ, the shuttle signal indicator is ON at the start of the A half cycle and OFF at the start of the B half cycle.



ID7-M-SEQ Wiring

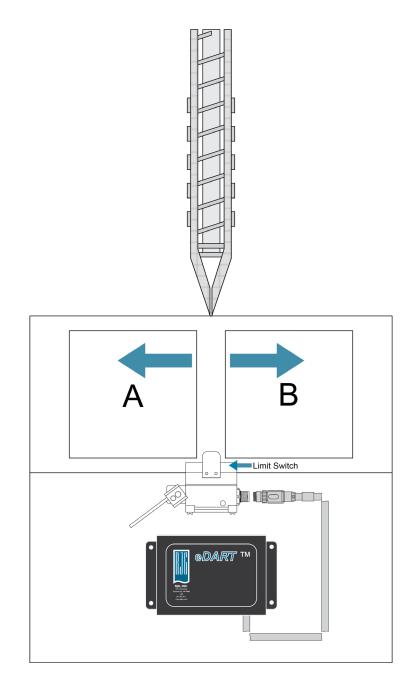
Wiring for Two Positions—Alternate Option 1

Wire the machine shuttle signal to the ID7-M-SEQ sequence module; wire a limit or proximity switch in conjunction with the sequence module to the *eDART* to indicate shuttle position.



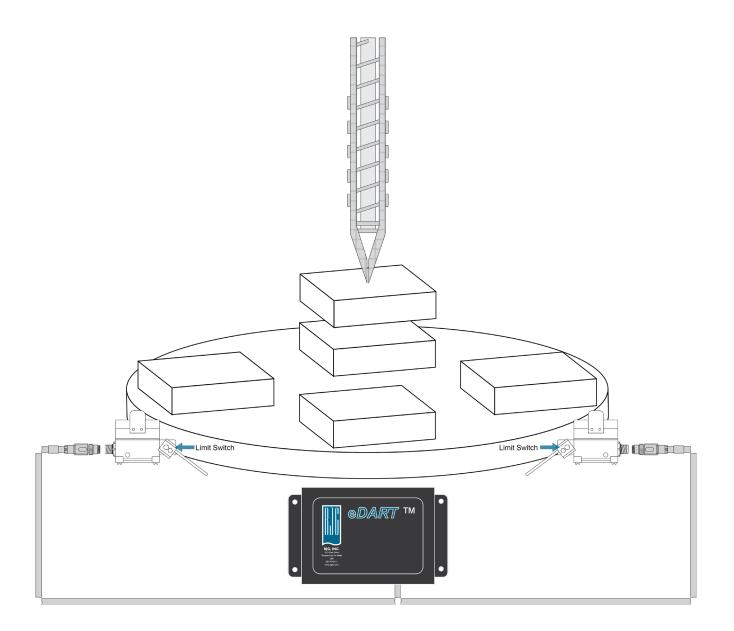
Wiring for Two Positions—Alternate Option 2

Mount a Lynx[™] L-LS limit switch on the shuttle table and wire it to the eDART to indicate shuttle position.



Wiring for Three or More Positions

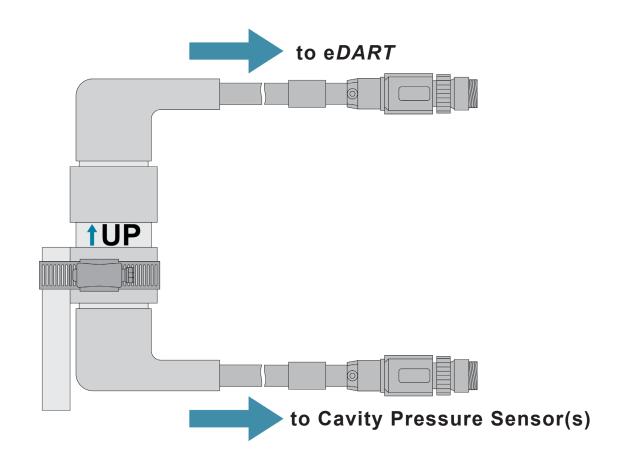
On a rotary table with three (3) or more positions, mount one (1) limit switch on the machine for each two (2) positions. For example, a rotary table with four (4) positions requires two (2) limit switches.



Slip Ring Connector for Cavity Pressure Sensors

The RJG Lynx[™] slip ring connector assembly (C-LX/SR-2M-M90) mounts directly on the rotary table and allows a full 360 degrees of rotation for continuous information from Lynx sensors that are mounted on rotary table molds.

- The slip ring assembly is not designed to carry mechanical loads.
- Contacts of the slip ring assembly are filled with mercury. The slip ring assembly must be shipped, stored, and installed with the arrow on the assembly pointing up.
- 1. Determine the best location for the slip ring assembly—closest to the center of rotation of the rotary table.
- 2. Mount the slip ring assembly on a post with a clamp attached to the lower plastic collar; the top half should rotate freely. In environments with excessive vibration, rubber tubing can be used.
- 3. Connect the top slip ring assembly cable to the eDART, and the bottom slip ring assembly cable to lynx devices.



Software Installation

Read and perform all instructions to install the Shuttle Control tool onto the eDART.

Requirements

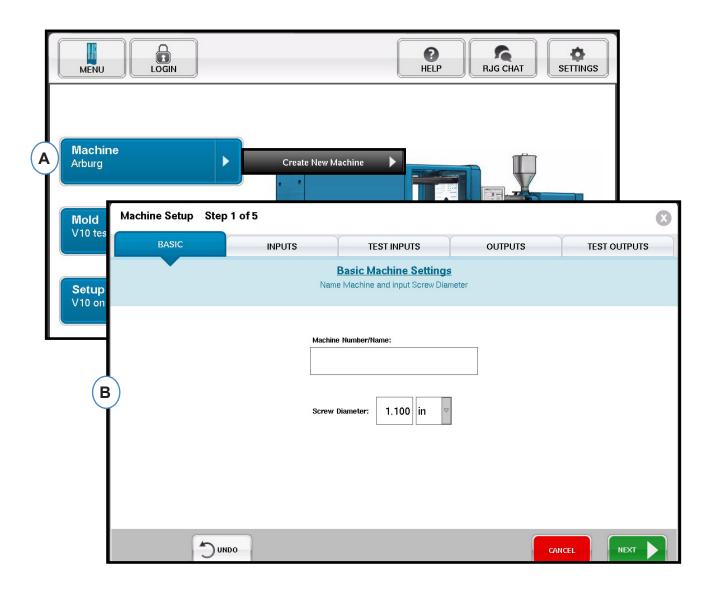
The following are required to install the Shuttle Control tool:

- eDART software version 10.6 or newer
- · Phindows installed on a Microsoft® Windows-based computer
- Shuttle Control software (disk or downloaded file)
- eDART's IP address which tool will be installed (Note: The eDART on which the Shuttle Control tool will be installed must be idle (not currently running a job).
- 1. On a Windows-based Computer begin a Phindows session with the eDART on which the Shuttle Control tool will be installed.
- 2. Insert the Shuttle Control software disk into the computer's disk drive **OR** double-click the installer file.
- 3. Click the Start Menu button.
- 4. Enter "run" using the keyboard and then enter/return.
- Enter the disk drive name followed by "\load_edart <eDART IP address>". For example, with the D: drive and eDART IP address of 192.168.1.1, the command to enter would be D:\load_eDART 192.168.1.1. (Note: There must be a space between "eDART" and the IP address.)
- 6. Restart the eDART.

Shuttle Control Setup

Machine Setup

The eDART Shuttle Control tool enables the selection of shuttle positions and limit switches for sequence input and during a job setup. Read and follow all instructions to setup and assign shuttle positions in the eDART software.



- A: Select the Machine button on the eDART Home page, then select the Creat New Machine button.
- **B:** Enter the Machine Number/Name in the provided field in the Machine Setup BASIC tab; enter the screw diameter and select the unit of measurement from the drop-down menu in the BASIC tab. Select the NEXT button.

Placing Machine Sensors and Assigning Sequences

All sensors connected to the machine and eDART will display in the Available Sensors list on the INPUTS tab. Drag and drop sensors from the Available Sensor list into the corresponding locations. When a sensor is held over a location, a window will open and allow placement of sensor within that location.

The connected Sequence Module ID7-M-SEQ will automatically assign to the Sequence Signal (ID7) box. The shuttle control sequence signals must be assigned within the Sequence signal box.

Machine Setup	Step 2 of 6						X
BASIC	INPUTS	TEST INPUTS	OUT	ID7			Shuttle Position #A
		Machine Inp Assign Machine sensors		Injection 0504000	on Forward		Shuttle Position #B
Available Sensor				O Not As 0504000			Shuttle Position #C
Available Sensor	Position/	Velocity		Screw 0504000			Semi-Auto or Auto
At IA1-D-VI			(C	Mold C 0504000	Clamped 1261:4		Machine in Manual
				O Not As 0504000			Mold Closing
				O Not As 0504000			Mold Opening
			E (B	Shuttle 0504000	Position #A		Mold Fully Open
Sequence Signal (ID7)				Save		Second Stage	
		N: 05040 00550 alue: N/A		Cancel	Save		First Stage
ВАСК	UNDO				CANCEL	NEX	

- A: Select the "i" icon in the Sequence box to assign sequence signals.
- **B:** Select channel 5, 6, or 7, then select Shuttle Position #A, Shuttle Position #B, or Shuttle Position #C to assign the signal to the channel (if selecting only Shuttle Position #A, use channel 7 only). Select the SAVE button.
- **C:** To unassign a previously assigned signal from a channel, select the radio button on the channel. Sequence signals must be assigned correctly—leave signals as "Not Assigned" if unsure of channel.
- **D:** Select the NEXT button to continue.

Testing Machine Sequence Signal Inputs

The TEST INPUTS tab provides an animation of the machine that mimics the sequence signals for assignment verification.

MENU	LOGIN			Image: Provide state stat	T SETTINGS
Machine Setup	Step 3 of 6				\bigotimes
BASIC	INPUTS	TEST INPUTS	OUTPUTS	TEST OUTPUTS	SUMMARY
	Test all M	Machine In Iachine inputs, Set Screw o	put Testing direction and zero Injecti	on Pressure	
		Machine	Animation	O L-PX Not Assigned	
Injection Forward	O 1 STG O S Not Assigned Screw	SR OMC Run Mold Clamp	oed Not Assigned	O MAN Not Assigned	O SHTL Shuttle Position #A
Cable retracts w	hen screw is moving forward.	В	Injection Pressu Turn pumps on v 1 0	ire vith machine idle.	0 Set To Zero
ВАСК	OUNDO			CANCEL	NEXT C

- A: To verify sequence signals, observe the corresponding labeled lights to ensure that the signals function at the correct times. If the corresponding sequence light is not triggered as expected (lights up at the wrong time, does not light up), correct wiring to module.
- **B:** Set Screw Direction and Zero Injection Pressure (hydraulic machines) to complete inputs.
- **C:** Select the NEXT button to continue.

Testing Machine Sequence Signal Inputs (continued)

An error window will appear after completing the TEST INPUTS tab. If the sequence signals are incorrect, an error message will appear once the job is started.

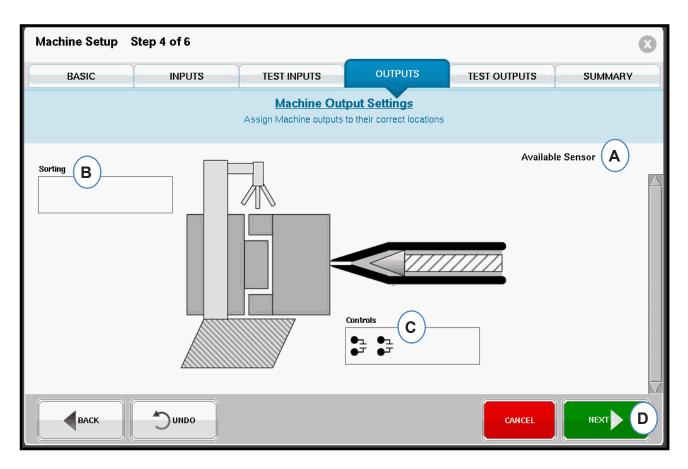
Following errors have been encountered:						
Not Assigned						
No signal has been received A This input is not used	d					
Mold Clamped						
No signal has been received	d					
Screw Run						
No signal has been received	d					
Injection Forward						
CANCELC						

A: Select the "This input is not used" box if the sequence signal is not used, or if the signal is not correct.

- **B:** Select "OK" to proceed without correcting the errors.
- **C:** Select "Cancel" to return to the TEST INPUTS tab to correct the errors.

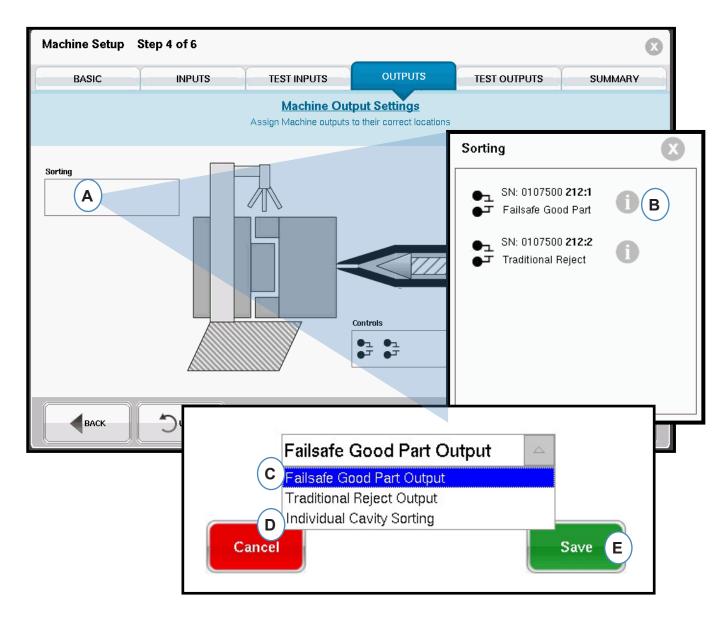
Configure Machine Outputs

Configure connected output modules in the OUTPUTS tab.



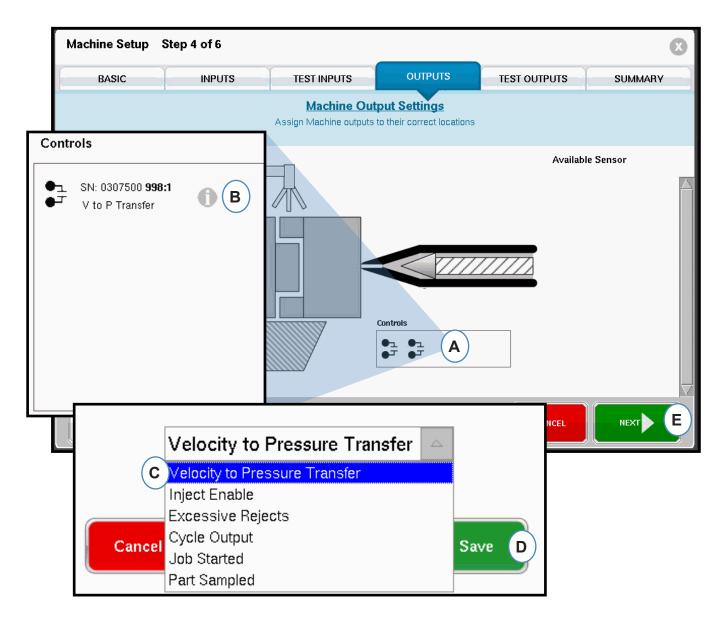
- **A:** Drag Output Modules from the Available Sensor list into the correct location.
- **B:** If a module is attached to a robot or part diverter drop it into the Sorting box.
- **C:** If a module is connected for $V \rightarrow P$ transfer of the machine drop it into the Controls box.
- **D:** Select the NEXT button to Continue.

Machine Sorting



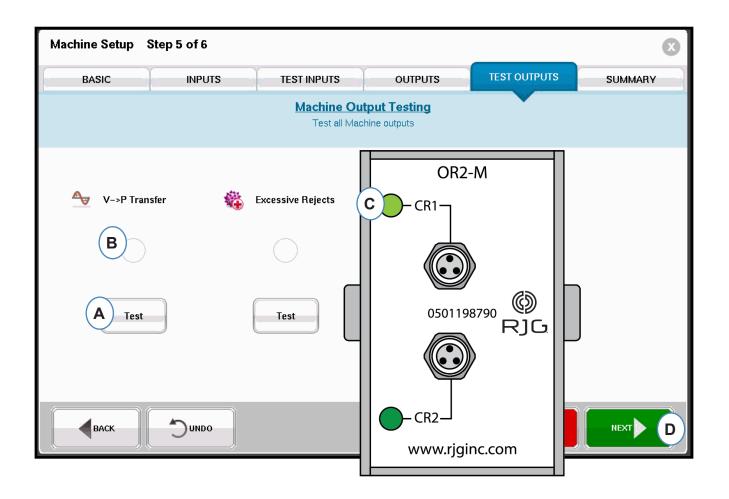
- A: Drag a sorting output from the Available Sensor list to the Sorting box, and drop in the correct location in the pop-up window.
- B: Select the "i" in the Sorting box to configure the sorting output.
- **C:** One side of a Lynx Relay Module OR2-M wired to a robot or part diverter is required if shot containment is desired (selects an entire shot for segregation and inspection). Select "Failsafe Good Part Output" for this containment type.
- **D:** One side of a Lynx Relay Module OR2-M wired to a robot or part diverter is required for each cavity if individual cavities are to be segregated for inspection. Select "Individual Cavity Sorting" for each module. The cavity identification for each module will be set in the Mold setup screen.
- **E:** Select the SAVE button, and then the CONTINUE button to continue.
- *RJG, Inc. eDART*[™] Software

Machine Control Velocity to Pressure Transfer



- A: Drag a module from the Available Sensor list to the Control box, and drop in the correct location.
- **B:** Select the "i" button in the Controls box to configure the control output type for each module.
- **C:** Choose the desired setting from the drop down.
- D: Select the SAVE button.
- E: Select the NEXT button to continue.

Machine Output Testing



- A: Select the Test button to individually test each available output.
- **B:** Verify that the corresponding light on the TEST OUTPUTS tab turns green.
- **C:** Verify that the LED on the corresponding output module turns green. Verify that the device alternates correctly on the machine, robot, or diverter.
- **D:** Select the NEXT button to continue.

BASIC	INPUTS TEST INPUTS	OUTPUTS	TEST OUTPUTS SUMMARY
		ensor Summary sensors are correct	
Туре	Location	Serial Number	Sort By Location
	Control Output Pack->Hold Xfer	0107500 209:2	\square
лл.	DigIn Inj.Fwd	0504000 233:1	
лл.	DigIn MIdC	0504000 233:4	
лл,	DigIn ScrewR	0504000 233:3	
лл.	Not Used	0504000 233:7	
лл,	Not Used	0504000 233:6	
лл,	Not Used	0504000 233:5	
	Not Used	0504000 233:2	
~~	Plastic Pressure Injection	0006000 122:1	

- **A:** The SUMMARY tab shows the type, location, and serial number of every connected Machine Sensor, whether in use or not.
- **B:** Select the FINISH button to complete setup.

	GOUT			B RJG CHAT	SETTINGS	
Machine Arburg		Filter RING rulers	/ / /			
Mold V10 test mold Setup V10 on Arburg		Two Rulers	Id Free Mold			
	MENU			P HELP	RJG CHAT	O SETTINGS
	Mold Setup		Ŷ	Ŷ	Ŷ	8
	BASIC INFO	INPU	IS OUTPUTS Basic Mold Service Name Mold and input basic	ettings		IMARY
В			Mold Name/Number: V10 test mold			
			Number of Cavities:			

- A: Select the Mold button on the eDART Home page, then select the Create New Mold button.
- **B:** Enter the Mold Number/Name in the provided field in the Mold Setup BASIC INFO tab; enter the number of cavities. Select the NEXT button to continue.

	MENU LOGOUT		HELP RJG CHAT
ſ	Mold Setup Step 2 of 5		8
	BASIC INFO INPUTS	OUTPUTS	TEST OUTPUTS SUMMARY
		Mold Sensor Se Assign Sensors to their Locat	
	Available Sensors Clear List	Sort By Serial #	Mold 1 Peset End of Cavity BN: 06484 00150:1 End of Cavity 1 B Mid Cavity Post Gate
	BACK		

For known sensor locations:

- A: Drag a sensor from the Available Sensors list and drop into the correct cavity number on the right. The Individual Cavity Window will appear when a sensor is held over a cavity in the mold window.
- **B:** There may be multiple sensors in each cavity (Post Gate, End of Cavity, Mid Cavity).
- **C:** Select the Mold button to go back to all cavities.

For unknown sensor locations:

- **D:** To determine placement of sensors within the mold and cavities, select "Clear List" in the Available Sensors list. Manually apply pressure to each sensor or pin. Sensors will appear in the "Available Sensor" list when pressure is applied to them. (Indirect Sensors: Open mold, extend ejector pins, push on pins one at a time, and note the order that pins were loaded; Direct Sensors: Apply pressure to sensors and note the order that sensors were loaded.)
- **E:** Select the NEXT button to continue.

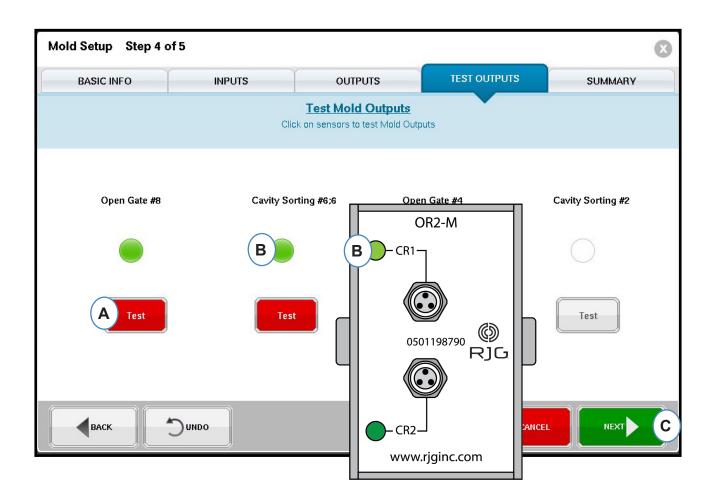
Individual Mold Cavity Part Containment Configuration

Individual cavity containment requires one relay from an Analog Output Module OR2-D to be assigned to each cavity. (Assigned during Machine Setup in OUTPUTS tab as "Individual Cavity Good Part Sorting"—relays labeled as such will appear in the "Available Sensor" list.)

BASIC INFO	INPUTS	OUTPUTS	TEST OUTPUTS	SUMMARY
		old Output Sensor Sett n Sensors to their Locations in		
Available Sensors	Sc	rt By Serial # 🔽	V10 test m	old
			1	(B)
SN: 0607500 092:1	SN: 0607500 092:	2	0 Sensor(s)	
-	-		0 Sensor(s)	
SN: 0607500 093:1 OR2-D	SN: 0607500 093: OR2-D	2	3	
	-		0 Sensor(s)	
		С) Sensor(s)	
	Mold	2	Reset 5	
		Cavity Sorting	D Sensor(s)	
	_	SN: 0607500 092:2	6	1
		Cavity Sorting		
	0	Valve Gate	CANCEL	NEXT
		valve Gate		

- A: Drag a sensor from the Available Sensor list on the left and drop into the correct cavity on the right.
- B: Drop the sensor into the correct location within the cavity.
- C: Select the Mold button to return to all cavities.
- **D:** Select the NEXT button to continue.

Testing Mold Outputs



- A: Select the Test button to individually test each available output.
- **B:** Verify that the LED on the TEST OUTPUTS tab and corresponding output module turns green.
- **C:** Select the NEXT button to continue.

BASIC INFO	INPU	TS	OUTPUTS	TEST OUTPUTS	SUMMARY
			Sensor Summai sor Locations are Co		
Cavity	Туре	Location		Serial Number	Sort By Cavity
Mold	\$	Runner		0902100 962:1	
2	ė	End of Cavity		0422401 025:1	
2	╡┙╡┙┫	Unknown		0607500 092:2	
4	•1 •1	Valve Gate		0607500 093:2	
6	•1	Unknown		0607500 092:1	
7	\$	Post Gate		0902100 964:1	
8	•-1 •-7	Valve Gate		0607500 093:1	
Unassigned	\$	Unassigned		0902100 963:1	
Unassigned	\$	Unassigned		0902100 961:1	$\overline{\nabla}$
					Processo

- A: The SUMMARY tab shows the type, location, and serial number of every connected Mold Sensor, whether in use or not.
- **B:** Select the FINISH button to complete setup.

MENU LOGOUT		Image: Provide state stat	SETTINGS
Machine Shuttle Mold Shuttle A Setup Not Selected	Filter	ocess	
Setup Notes	MENU LOGOUT Process Setup Step 1 of 4 BASIC	ALARM LIMITS SORTING A Basic Process Settings	RJG CHAT KCTIONS CONTROL SETTINGS
E	3	Name your Process and input notes about Proc Setup Name: Standard Cycle Time: 30.00 seconds Notes:	
	BACK		

A: Select the Setup button on the eDART Home page, then select the Create New Process button.

B: Enter the Setup Name in the provided field in the Process Setup BASIC tab; enter the standard cycle time and any notes (if desired, but not required). Select the NEXT button to continue.

Process Warning & Alarm Limits

A process warning or alarm can be set automatically or manually based on actual part characteristics.

	SOUT			P HELP	RJG CHAT	SETTINGS
Process Setup Step	o 2 of 4					\bigotimes
BASIC	ALA		SORT	ING ACTIONS	CONTR	OL SETTINGS
	Cho		imit Settings s and set upper and	(
Cycl	e Name	Туре	Value	Low	High	Units
C D-WTO-SET	B Mach		APPLY C	Material	ADD ADD ALARM	REMOVE ALARM NEXT F

- A: Select the Add Alarm button—the list of variables for available warnings or alarms will display.
- B: Select Machine, Mold, or Material, and then select the variable for which the warning or alarms will be set. One click creates a warning, designated by the symbol; two clicks creates an alarm, designated by the symbol; and three clicks creates both a warning and alarm, designated by the symbol.
- **C:** Select the APPLY button to apply warnings and alarms; select the DONE button when finished creating warnings and alarms.
- **D:** Select the AUTO-SET button, then select the SET button to accept the suggested alarm levels **OR** adjust alarm levels as desired.
- E: To manually set warning and alarms, enter the desired LOW and HIGH values in the provided fields.
- F: Select the NEXT button to continue.
- RJG, Inc. eDART[™] Software

Process Sorting Actions

Set timing and options for part segregation in the SORTING ACTIONS tab.

MENU LOGIN		HELP	RJG CHAT				
Process Setup Step 3 of 4			\bigotimes				
BASIC	ALARM LIMITS	SORTING ACTIONS	CONTROL SETTINGS				
Sort Settings Set timing and options for part segregation							
	Reject 1 sh		CANCEL				

- A: Select the check box to enable the a hold of the part diverter in one position until a change in the alarm state occurs.
- **B:** Select the check box to enable a contact to be held closed when a good part signal is generated; enter the desired time interval.
- **C:** Select the check box to enable the "Reject After Down" feature and enter the number of parts to be rejected after a Machine down state occurs.
- **D**: Select the check box to enable the "Diverter Delay" feature and enter the number of cycles to delay the output. This feature is used for conveyers (or rotary tables) that hold numerous parts prior to the connected diverter device or over-mold processes encounter alarms on the first shot.
- **E:** Select the NEXT button to continue.

Process Control Settings

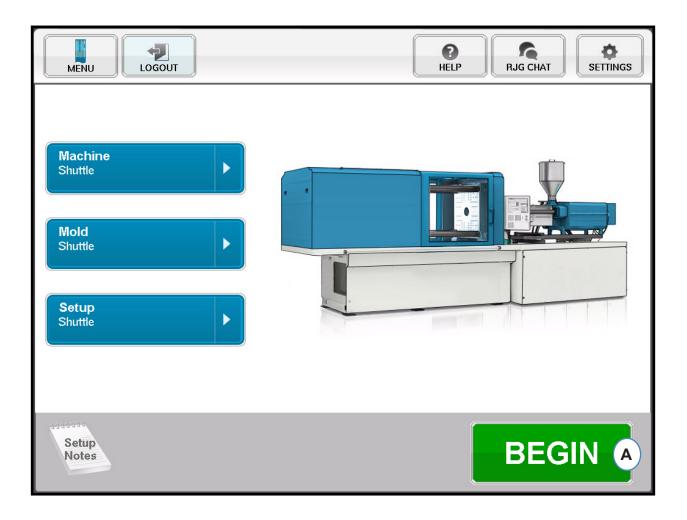
Configure how alarms are calculated and set up additional control output configurations in the CONTROL SETTINGS tab. This page allows for the modification of Integration limits and for configuration to view temperature drop instead of temperature rise in Liquid Silicone Rubber or other thermoset materials.

MENU LOGIN		HELP RJG CHAT				
Process Setup Step 4 of 4	I	\bigotimes				
BASIC	ALARM LIMITS SORTING ACTIONS CONTROL SETTINGS					
	Control Settings Set integration limits and additional sorting tools					
Computations	Consider cavity full when plastic pressure reaches	A 1000 psi at End of Cavity s and compute alarm outputs at: Screw Run End				
	B More					
BACK		Omputations Consider cavity full when psi a End of Cavity End of cavity pressure reaches 1000 psi a End of Cavity End of cavity pressure integrals and compute alarm outputs at: Integration Limit End: Meak Computation Option: Integration Visco 1000 B 1000 Less 0.00				

- **A:** Enter information in the provided field(s) and select the appropriate unit of measurement/location.
- **B:** Select More to view more options; select Less to hide additional options.
- **C:** Select the FINISH button to complete the process setup and return to the main window.

Shuttle Control Operation

Start-Up



A: Once the machine, mold, and process are set up, select the BEGIN button to start the job.

Job Summary Data

The eDART Shuttle Control tool software monitors and automatically creates summary data of four "phantom" curves for multiple sensors in the same location. The four curves are a cumulation of all sensors in that location at that time. For example, sensors placed at the Post Gate location will be divided into Post Gate #High (sensor with the highest reading), Post Gate #Avg (average of all sensor readings), Post Gate #Low (sensor with the lowest reading), and Post Gate #Rng (range or difference at each point between the highest and lowest sensor reading) curves.

The Shuttle Control will only show sensors that are in the active mold half—once pressure is applied to a sensor, it is included in the summary data. Sensors in the inactive mold half are not included in the #High, #Avg, #Low, and #Rng curves.

Peak, End of Cavity #1	•
A	-
Peak, End of Cavity #2	-
Notes->	

A: Moving Half Sensors—One sensor is active while one sensor is inactive; data points therefore will atlernate for each mold half.

Peak, End of Cavity B Notes->		
	End of cavity while in "A" position	End of Cavity while in "B" position

B: Fixed Half Sensors—Fixed half sensors plot a data point on every shot. If the mold shuttles from shot to shot, it is possible to see the alternate data between two halves.

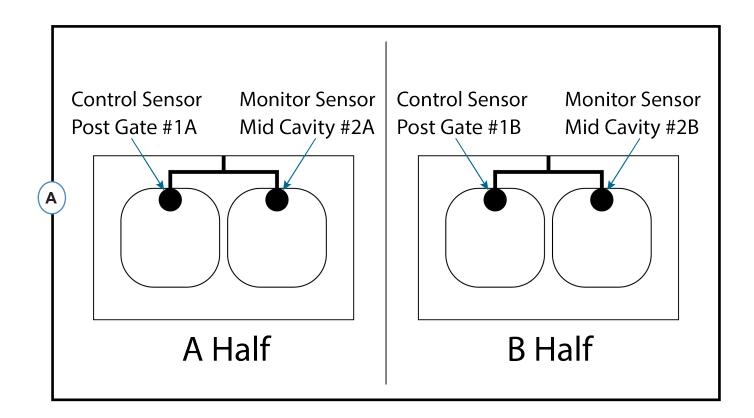
Peak, End of Cavity	
C Notes->	

C: Fixed Half Sensors—The upper and lower lines show the data trend for each mold half (these lines are for illustration only— lines are not plotted by the *eDART*).

V→P Transfer Control

Moving Half Sensors—When sensors are placed in the moving half, and each moving mold half is assigned a control sensor, the #High sensor is used to control cavity pressure transfer. If each mold half has more than one cavity with multiple sensors in the same location, the designated $V \rightarrow P$ control is based on the first sensor that reaches the pressure set point. For example, in a two-cavity mold with two Post Gate sensors (one for each cavity), the Post Gate sensor which reaches the V \rightarrow P pressure set point first will cause the control to transfer, even though the other sensor has not reached the pressure set point. This arrangement is ideal if pressures are intended to never exceed the designated set point.

CAUTION: When using the generated summary data points #High, #Avg, #Low, or #Rng for V \rightarrow P control, the sensors MUST be assigned to the correct mold half. If the sensor is assigned to the incorrect half, the signal will not be included in the data and the machine will not transfer. Failure to comply will result in damage to equipment.



A: To set up V→P control from a specific sensor in a multi-cavity mold with multiple sensors in the same location, the non-control sensors must be designated as a different location than the controlling sensor. For example, the control sensor is designated as Post Gate; the remaining sensors are designated as Mid Cavity—even if the non-control sensors are located Post Gate.

NOTE: Sensors are generated at 250 samples per second, giving them a 4 mS response time—even if the input sensors run faster.

Fixed Half Sensors—Sensors in the fixed half will have pressure applied during both shuttle positions, therefore, only one sensor and one set point can be used for $V \rightarrow P$ control. The single cavity pressure set point will control parts made in both halves.

Shuttle Control Tool

The Shuttle Control tool is designed to work based on the inputs made during normal machine, mold, and process setup in the *eDART* software, without manipulation to the Shuttle Control tool itself. However, in the event that automatic assignment generates incorrect settings, the tool can be manually adjusted.

NOTE: A job must be running to access the Shuttle Control tool.

				o Overview	PILP RJG CHAT
		Shu	ttle	Shuttle	Shuttle
MENU		P HELP	RJG CHAT	SETTINGS Sycle	
Process Setup Step 4 of 4					
BASIC	ALARM LIMITS	SORTING ACTIONS	CONTROL SET	TINGS	
		nd additional sorting tools		e Graph	
Computations B Shuttle Setup		re Detect: 200 psi 🗸	Reset & Re-Assign		Орио
B	-	Active Posn Locked Pr Det	Sorting Output		Quality Sampling
	End of Cavity #1;1	detect $ earrow O $	1	В	Setup Notes
	End of Cavity #2;1	detect O	1 🗢		
	End of Cavity #1;2	detect $ earrow $ O	1 🗢		
	End of Cavity #2;2	detect T	1 🗢		V to P Control
		(E) (F)			Save Master Setup
	S	Shuttle Position (shot start): 0	, 20000.00000		Add Note
ODNUC				VE G	

- A: Select Options, then select Process Settings.
- B: Select the CONTROL SETTINGS tab, then select the Shuttle Setup tab.
- **C:** Enter the pressure at which sensors will be detected. The sensor will be considered active during the cycle if it exceeds the set value for at least 0.25 seconds.
- **D:** Select reset & re-assign to reset the shuttle positions and locks for all sensors, and to restart auto-detection.
- **E:** Select the Active Position or Sorting Output for a sensor. The Active Position may be assigned to 1, 2, All, or detect. All indicates that it is active in both positions; All is automatically set if pressure over the threshold is applied for longer than 0.25 seconds in both positions. Detect indicates that the sensor is not yet assigned.
- **F:** Select a check box to lock a sensor; locking a sensor prevents auto-detection by the software; a lock is also set automatically after a sensor is determined to have the same position for three consecutive parts made in that position.
- **G:** Select SAVE to confirm changes.

NOTE: Changes made on this page are NOT saved when the job stops. The pressure detect set point is saved as a system and network default only.

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Data Storage

The eDART stores data for both mold halves in a single "phlat" file. Sensors that are not assigned or are located in the fixed half will have a data point for each shot. Summary values from inactive sensors—sensors in the moving half—will not exist in the file. Also, the Shuttle Control tool creates a summary value named "Timing Signal, Shuttle Position"; this value is a number beginning at one (1) that can be plotted on the summary graph, and allows the determination of shuttle position at the start of each shot.