

## Application Equipment Products Guide



# Application equipment

ThreeBond develops and sells sealants and adhesives as well as the equipment to apply and pressure feed them to maximize their performance. As a manufacturer with full knowledge of sealants and adhesives, ThreeBond enables you to reduce cost and

improve productivity, product quality, and working environment by developing such equipment. To provide further added value for customers, ThreeBond has been making efforts to develop and sell the equipment that incorporates new application and pressure feeding technologies.

Application Equipment

## Features of ThreeBond application equipment

- ① **Applies the required amount of material in the required shape.**  
ThreeBond offers valves and nozzles to apply materials in the shape of points, lines, and coatings.
- ② **Maximizes sealant and adhesive performance.**  
As a manufacturer thoroughly familiar with properties of sealants and adhesives, ThreeBond develops and designs the equipment for applying and pressure feeding each material.
- ③ **Applies and pressure feeds sealants and adhesives in all container types.**  
We offer equipment for applying and pressure feeding sealants and adhesives in various forms of containers, ranging from syringes to pails.
- ④ **Dedicated equipment design and manufacture.**  
We design and manufacture dedicated equipment to meet customer needs, ranging from simple applicators for low-volume production to custom-designed dispensing machines equipped with multiple functions for high-volume and multiple types of production.

The main components of a dispensing machine are as follows:

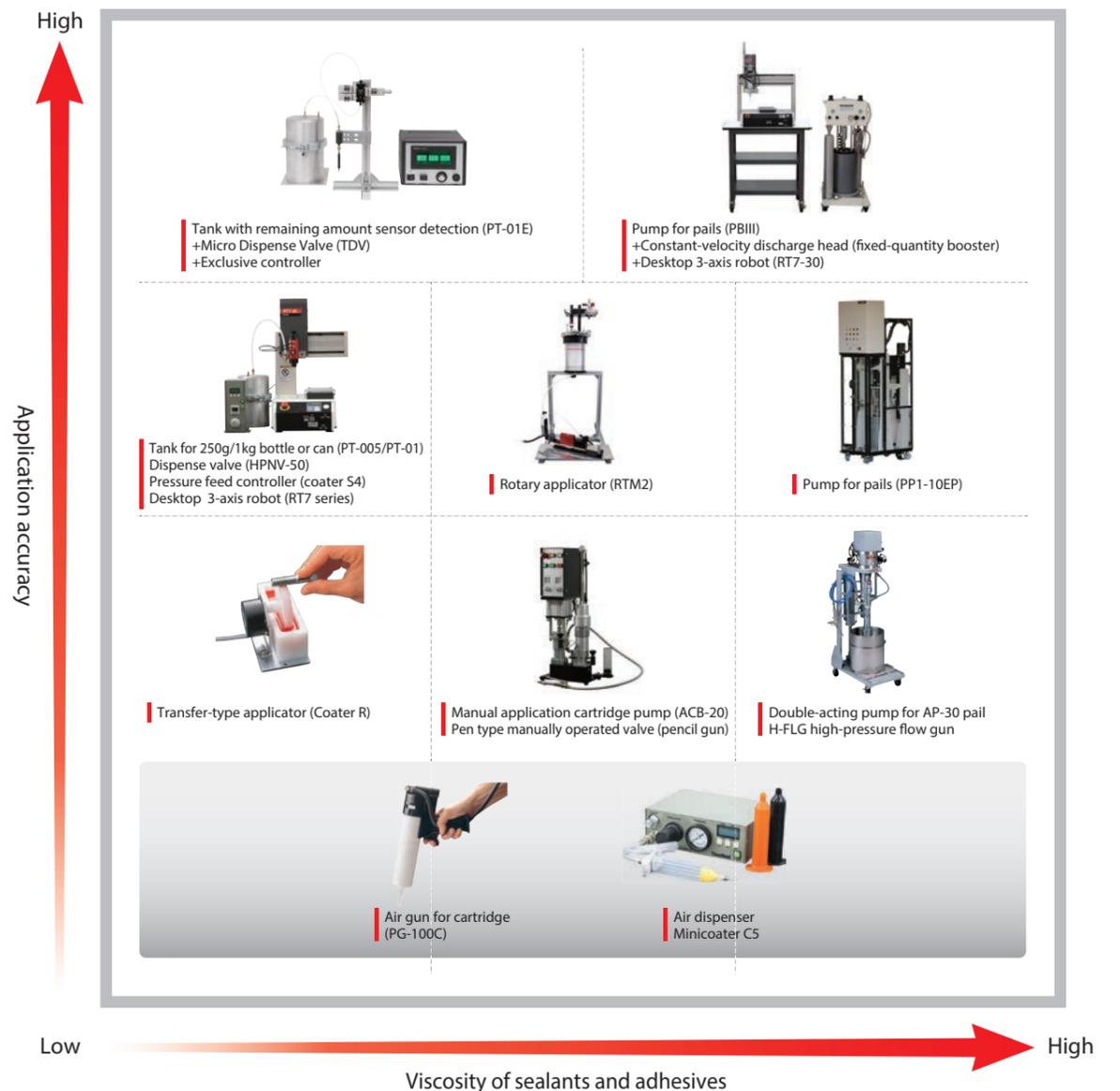
- Pressure feeder: Equipment including pumps to pressure feed materials
- Hoses: Piping used to pressure feed material from the pump to the valve
- Valves: Used to control the flow of material
- Nozzles: Attached to the valve and used to adjust the shape/size in which material is applied
- Controllers: Equipment to control the valve and pump
- Drive units: Robots that automate the application process

We provide dispensing machines that meet customer needs by combining various products that incorporate ThreeBond's unique technologies and features.

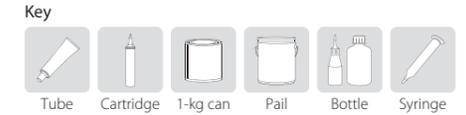
This product guide classifies our sealants and adhesives into series and explains the Application Equipment suitable for each individual series. For the details of the Application Equipment, individual product guides are available.

## For selection of Application Equipment

ThreeBond offers the following products according to the properties of each material, to maximize its performance. To provide the Application Equipment that meets customer requirements, we deploy staff who is specialized in the equipment and has full knowledge of sealants and adhesives at home and abroad. We can respond to a wide range of customer needs from delivery of the devices to provision of after-sales services. To select equipment suitable for our sealants and adhesives, contact one of our sales engineers.



# Dispenser



Application Equipment

## Air dispenser

### Coater S4



Standard valve controller for controlling application. MODE settings and counter display are shown on an easier-to-see liquid crystal display. New preset functions have been added with count down ability along with conventional count up. Automatic reset and external output ability after setting count up or down.



Outer dimensions	W109xH217.5xD210.5 mm
Weight	Approx. 2.4 kg
Drive Sources	Clean dry air, 0 to 0.7 MPa 100 to 240 VAC, 50/60 Hz
Suitable Materials	Compatible with low to high viscosity liquids *Varies by dispensing parts.

## Air dispenser

### Minicoater C5



Combining an air pressure controller with a syringe and syringe adapter is the most basic setup for single-component discharge equipment. Compatible with liquids with viscosity from low to high, including epoxy, silicone, UV resins, solder paste, silver paste, grease, oil, and a variety of other adhesives providing a wide range of use.



Air dispenser  
Individual catalog

Outer dimensions	W190xD136xH72.5 mm
Weight	1.7 kg
Drive Sources	Clean dry air, 0 to 0.7 MPa 100 to 240 VAC, 50/60 Hz
Suitable Materials	Compatible with low to high viscosity liquids *Varies by liquid product combination.

## Air gun for cartridge / Air gun for tube

### PG-100C / PG-100T



Specific needle nozzles can be attached to a cartridge or tube attachment in conjunction with the nozzle block.



Air gun for cartridge /  
Air gun for tube  
Individual catalog

Outer dimensions	W265xD70xH175 mm
Weight	720 g
Drive Sources	Clean dry air, 0 to 0.4 MPa
Suitable Materials	For cartridge: Cartridge container For tube: 100-g/150-g tube moisture-curing sealant and adhesive, etc.

## Transfer-type simple applicator

### Coater R



Coater R is a unit that simplifies application of sealant to threaded areas of the bolts and fittings needed in piping and assembly processes. Small and easy-to-carry for application work in a variety of locations.

Transfer-type simple applicator  
Individual catalog

Outer dimensions	W150.5xD70xH90 mm
Weight	870 g
Drive Sources	100 VAC, 50/60 Hz
Suitable Materials	Anaerobic sealing adhesive

# Dispenser



Application Equipment

## Rotary applicator

RTM2



Equipment that applies anaerobic sealing adhesive to the inner surface of cylindrical parts. Integration in processing and assembly lines improves productivity.

Rotary applicator  
Individual catalog



Type	RTM2 application head	Dispense Valve	Material pressure feed tank (PV2 tank)	Remaining amount detection sensor
Outer dimensions	W32xD313.6xH98 mm Not including bulb bracket	-	W252xD315xH516 mm Standard specifications	-
Weight	0.93kg	-	Approx. 6.7 kg	-
Drive Sources	Electricity of 24 VDC 5 A or more (120 W or more) is recommended	*For valve Clean dry air, 0.3 MPa or more	-	-
Suitable Materials	Anaerobic sealing adhesive			

## Manual rotary applicator

RTA-H



Anaerobic sealing adhesive drips into the rotor in the air gun tip, which rotates to apply the anaerobic sealing adhesive to the inner surface of cylindrical objects.

Manual rotary applicator  
Individual catalog



Type	Air gun	Controller	Material pressure feed tank (PV2 tank)
Outer dimensions	W210xD57 xH210 mm	W250xD190 xH150 mm	W252xD315xH516 mm Standard specifications
Weight	1.5 kg	2 kg	6.7 kg
Drive Sources	Clean dry air, 0.3 MPa or more 100 VAC or 200 VAC, 24 VDC	Clean dry air, 0 to 0.2 MPa Remaining amount detection sensor, 10 to 36 VDC	
Suitable Materials	Anaerobic sealing adhesive, other		

## Instant adhesive dispenser

Tank with remaining amount sensor detection (PT-01E)  
Micro Dispense Valve (TDV)  
Exclusive controller



Dispenser for applying difficult-to-handle instant adhesive via a diaphragm valve.

Instant adhesive dispenser  
Individual catalog



Outer dimensions	W160xD40xH90 mm
Weight	650 g
Drive Source	Clean dry air, 0.3 to 0.5 MPa
Suitable Materials	Instant Adhesives

## Manual dispenser for low viscosity liquids

Tank for 250-g/1-kg bottle or can (PT-005/PT-01)  
Pen type manually operated valve (pencil gun)



This dispenser enables hand-operated pencil gun application of low viscosity liquids via a pressure tank. Coating is easily adjusted via air pressure of the pressure tank and opening or closing the pencil gun lever.



Manual dispenser for low viscosity liquids  
Individual catalog



Type	Tank PT-005	Tank PT-01	Pencil gun
Outer dimensions	W149xD149xH226 mm	W162xD162xH247 mm	Ø12x152 mm
Weight	2 kg	3.6kg	100 g
Drive Source	Clean dry air, 0 to 0.5 MPa		
Suitable Materials	Liquid gasket, moisture-curing sealant and adhesive, single-component epoxy resin, UV-curing resin		

## Dispenser for tube-packaged materials

Tube Dispense Tank  
Air dispenser (minicoater C5)



Basic air pressure controlled dispenser optimal for tube-packaged material application. This simple dispenser controls air with minicoater C5 to handle a wide range of materials.



Dispenser for tube-packaged materials  
Individual catalog



Type	Tank for 100-g tube	Tank for 150-g tube
Outer dimensions	Ø450x200 mm	Ø450x210 mm
Weight	334 g	466 g
Drive Source	Clean dry air, 0 to 0.7 MPa, 100 to 240 VAC, 50/60 Hz	
Suitable Materials	For tube: 100-g/150-g tube moisture-curing sealant and adhesive, etc.	

# Fixed-quantity FIPG Booster

Application Equipment

## Single-component fixed-quantity booster series

SCB series  
SCB-28-CL/SCB-17-LE/DQ1LW06

Discharges a fixed volume by consistent velocity drive of the plunger via a stepping motor. Discharge speed is controllable via numerical values to simplify adjustments in application.



SCB series

Single-component fixed-quantity booster series Individual catalog

	SCB-28-CL		SCB-17-LE		DQ1LW06	
Type	Clutch type	Controller	Base Model	Controller	Lightweight type	Controller
Outer dimensions	W178xD135xH417 mm	W320xD280xH180 mm	W150.5xD108.5xH374 mm	W320xD350xH226 mm	W125.5xD133xH440 mm	W320xD300xH160 mm
Weight	6 kg	10 kg	3 kg	10 kg	6 kg	10 kg
Drive Sources	100 VAC or 200 VAC±10%, 50/60 Hz		24 VDC, 50/60 Hz		100 to 240 VAC±10%, 50/60 Hz	
Suitable Materials	Moisture curing sealants and adhesives					



Single-component fixed-quantity booster, clutch type

SCB-28-CL



Single-component fixed-quantity booster, base model type

SCB-17-LE



Single-component fixed-quantity booster, lightweight type

DQ1LW06

# Introduction / Tank



## Instant adhesive dispenser

Tubing pump TF300mp-S



Tubing pump discharge prevents runs, leaks, and clogs while ensuring liquids are used completely. Adhesive only passes through the material tube, so it can be left to sit for several days without curing and the device can be operated quickly.



Instant adhesive dispenser Individual catalog



Outer dimensions	W210xD200xH87 mm
Weight	3.5 kg
Drive Source	100 VAC, 50/60 Hz
Suitable Materials	Instant Adhesives

## Pressure feed tank

PT-005 / PT-01 / PT-03

The material pressure feed tank is for pressure feeding medium and low-viscosity materials. Uses compressed air to feed material from the container set in the tank.



PT-005



PT-01

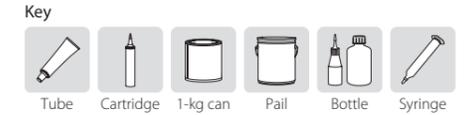


PT-03

Type	PT-005	PT-01	PT-03
Outer dimensions	W149xD149xH226 mm	W162xD162xH247 mm	W300xD300xH415 mm
Weight	2 kg	3.6 kg	21 kg
Drive Source	Clean dry air, 0 to 0.5 MPa		Clean dry air, 0 to 0.77 MPa
Suitable Materials	Liquid gasket, moisture-curing sealant and adhesive, anaerobic sealing adhesive, volatile solvent-type adhesive, instant adhesive, single-component epoxy resin, UV-curing resin		



# Pump



Application Equipment

## Single-acting pump for pails: PBIII series

PBIII-30/45



Pump for high-pressure feeding of high-viscosity materials from pails. Uniform linear application is possible when combined with a robot.



Single-acting pump for pails: PBIII series  
Individual catalog

Type	PBIII-30	PBIII-45
Outer dimensions	W430xD500xH1031.4 to 1458.4 mm	W430xD500xH1050.4 to 1477.4mm
Weight	Approx. 120 kg	
Drive Sources	Clean dry air, 0.3 to 0.6 MPa	
Suitable Material Viscosity	Moisture-curing sealant and adhesive, single-component epoxy resin	

## Single-acting pump for pails: PB series

PB30 / 45 / 60



Equipment for high-pressure feeding of high-viscosity sealant. Uniform linear application is possible when combined with a robot and dispense valve with no pulsation.



Type	PB30	PB45	PB60
Outer dimensions	W370xD670xH1105 to 1503 mm	W420xD670xH1170 to 1565 mm	W500xD672xH1472 to 1863 mm
Weight	Approx. 70 kg	Approx. 90 kg	Approx. 100 kg
Drive Sources	Primary clean dry air, 0.3 to 0.6 MPa Secondary clean dry air, 0.15 to 0.4 MPa		Primary clean dry air, 0.4 to 0.6 MPa Secondary clean dry air, 0.2 to 0.4 MPa
Suitable Material Viscosity	Moisture-curing sealant and adhesive, single-component epoxy resin		

## Double-acting pump for pails (AP-30), high-pressure flow gun (H-FLG)

Dispenser for tube-packaged materials.



This dispenser is excellent in high-speed dispense and functionality due to the combination of high-pressure feeding pump for pails with a high-pressure flow gun.



Double-acting pump for pails (AP-30), high-pressure flow gun (H-FLG)  
Individual catalog

Type	Pail pump	High-pressure flow gun
Outer dimensions	W370xD671xH1028 to 1426 mm	-
Weight	70 kg	580 g
Drive Sources	Clean dry air, 0.35 to 0.6 MPa	
Suitable Material Viscosity	Moisture-curing sealant and adhesive, single-component epoxy resin	

## Manual application cartridge pump

ACB-20

\*Pen type manually operated valve (pencil gun)



Unit for high-pressure feeding of high-viscosity materials from cartridge containers. Suggested for manual application. Automatic refill of the pump when it reaches the bottom of its stroke.



Manual application cartridge pump  
Individual catalog

Outer dimensions	W320xD255xH630 mm
Weight	16 kg
Drive Source	Clean dry air, 0.4 to 0.6 MPa, Power source, 100 VAC
Suitable Material Viscosity	Moisture curing sealants and adhesives

## High-viscosity material compatible cartridge pump

PCB-20



Unit for high-pressure feeding of high-viscosity materials from cartridge containers to secondary discharge valves. Uniform linear application is possible when placing the dispense valve onto a robot.



High-viscosity material compatible cartridge pump  
Individual catalog

Outer dimensions	W335xD255xH645 mm
Weight	18 kg
Drive Source	Clean dry air, 0.2 to 0.7 MPa, 24 VDC (when using the auto switch)
Suitable Material Viscosity	Moisture curing sealants and adhesives



### Pump for 1-kg cans

PH1-20



Pump for high-pressure feeding of materials loaded in 1kg metal cans. Use a can opener to open 1kg material package and set it into the pump without requiring pouring of liquid.



Outer dimensions	W300xD200xH555 to 710 mm
Weight	26 kg
Drive Source	Clean dry air, 0.2 to 0.6 MPa
Suitable Material Viscosity	Materials for heat dissipation with viscosities around 30 to 200 Pa-s, materials containing large amounts of fillers, materials other than those reactive to metal ions

### Material Reduction Unit for low viscosity FIPG

Pump accessory



Material Reduction Unit for low viscosity FIPG that can be attached to conventional PB or PBIII pump.

### Dispense Valve

HPNV-50



Needle type dispense valve well-suited to automatic application with excellent durability and pressure resistance. Optimal for use as a silicone-based material dispense valve. Running cost is reduced through simple attachment and removal of the material chamber.

Dispense Valve Individual catalog



Type	HPNV-50
Outer dimensions	W40xD41.5xH150 mm
Weight	470 g
Drive Source	Clean dry air, 0.3 to 0.6 MPa
Suitable Material Viscosity	Liquid gasket, moisture-curing sealant and adhesive, single-component epoxy resin

### Dispense Valve

Slender-SVR



Needle type pneumatic dispense valve that is compact and resistant to high-pressure. More accurate stopping point when dispensing than HPNV-50

Outer dimensions	W28xD28xH166 to 170 mm
Weight	430 g
Drive Source	Clean dry air, 0.3 to 0.6 MPa
Suitable Material Viscosity	Liquid gasket, moisture-curing sealant and adhesive, single-component epoxy resin

### Surface Application Adhesive dispense valve

Surface Application Adhesive dispense valve PV-SN Series



This is a dispense valve for application of sealant and adhesive in coating form.

Dispense Valve Individual catalog



Type	RV05-SN50	RV10-SN100	RV15-SN150
Outer dimensions	W161xD86.5xH124 mm	W211xD86.5xH124 mm	W261xD86.5xH124 mm
Weight	2.4 kg	2.6 kg	2.9 kg
Drive Source	Clean dry air, 0.3 to 0.6 MPa		
Suitable Material Viscosity	Moisture-curing sealant and adhesive, single-component epoxy resin, UV-curing resin		

# Valve

Application Equipment

# Electrically driven FIPG application system



## Fixed-quantity dispense valve for anaerobic sealing adhesive

CVA3 / 4 / 5

Pneumatic valve for dispensing fixed quantities of anaerobic sealing adhesive. Also compatible with some light curing resin.



CVA3



CVA4



CVA5

Type	CVA3	CVA4	CVA5
Outer dimensions	W50.5xD50.5xH218 mm	W30xD30xH176 mm	W30xD35xH201 mm
Weight	540 g	340 g	350 g
Drive Source	Clean dry air, 0.3 to 0.4 MPa	Clean dry air, 0.35 to 0.5 MPa	
Suitable Material Viscosity	Anaerobic sealing adhesive, other		

## Micro Dispense Valve (TDV)

TDV valve



Valve for dispensing ThreeBond 1700 and 7700 series instant adhesive.

Outer dimensions	W160xD40xH90 mm
Weight	650 g
Drive Source	Clean dry air, 0.3 to 0.5 MPa
Suitable Material Viscosity	Instant Adhesives

## Anaerobic adhesive and sealant dispense valve

KOBO valve



Valve for high accuracy discharge of anaerobic sealing adhesive in  $\mu\text{L}$  units. Optimal for extremely small quantity discharge from 30 to 200  $\mu\text{L}$ .

Outer dimensions	W94xD40xH73.5 mm
Weight	470 g
Drive Sources	Clean dry air, 0.3 to 0.5 MPa
Suitable Material Viscosity	Anaerobic sealing adhesive, other

Anaerobic adhesive and sealant dispense valve Individual catalog

## Fixed quantity dispenser

DQ1EP



Dispenser where the single-component fixed-quantity booster (page 7) drive has been converted to electric. Maximum discharge in a single cycle is 28 cc.

Outer dimensions	W160xD110xH400 mm
Weight	9 kg
Drive Source	3-phase 200 V
Suitable Material Viscosity	Moisture curing sealants and adhesives

## Cartridge pump

PC1-11EP



Equipment where the cartridge pump (page 10) drive has been converted to electric. Electric automatic cartridge tank switching is standard.



Outer dimensions	W580xD610xH1600 mm
Weight	200 kg
Drive Source	3-phase 200 V
Suitable Material Viscosity	Moisture curing sealants and adhesives

## Pump for pails

PP1-10EP



Equipment where the pail pump (page 9) drive has been converted to electric. A servo motor controls the raising/lowering of the pump enabling the FIPG remaining amount detection to be set.



Outer dimensions	W600xD860xH1870 mm
Weight	340 kg
Drive Source	3-phase 200 V
Suitable Material Viscosity	Moisture curing sealants and adhesives

## Controller



Controls an electric FIPG application system with a single controller.

Type	Controller	Operation part
Outer dimensions	W850xD250xH1200 mm	W250xD120xH250 mm
Weight	110 kg	5 kg
Drive Source	3-phase 200 V	

## Desktop robot

### RT7 series

This new style desktop robot has a low price without sacrificing practicality and provides an incredible cost performance. The stepping motor combined with a special micro-step drive circuit saves on energy and space.



RT7-20

Type	RT7-20	RT7-30	RT7-40	RT7-50
Operation range	X200×Y200×Z50 mm	X300×Y320×Z100 mm	X400×Y400×Z150 mm	X510×Y510×Z150 mm
Maximum payload	Workpiece, 7.0 kg / tool, 3.5 kg	Workpiece, 15.0 kg / tool, 7.0 kg	Workpiece, 15.0 kg / tool, 7.0 kg	Workpiece, 15.0 kg / tool, 7.0 kg
Outer dimensions	W323×D387×H554 mm	W560×D535×H659 mm	W584×D631×H807 mm	W678×D731×H807 mm
Weight	20 kg	35 kg	42 kg	44 kg



RT7-30



RT7-40



RT7-50

## Combination examples

Key



### Automatic application device for low and medium viscosity materials



#### Equipment List

Tank for 250-g/1-kg bottle or can (PT-005/PT-01)  
 Dispense valve (HPNV-50)  
 Pressure feed controller (coater S4)  
 Desktop 3-axis robot (RT7-20)



Automatic application device for low and medium viscosity materials  
 Individual catalog



Drive Sources	Clean dry air, 0 to 0.7 MPa, 100 to 240 VAC, 50/60 Hz
Suitable viscosity	low and medium viscosity materials
Suitable Materials	TB1100 series, liquid gasket TB2000, 2100, 2200 series epoxy resin adhesives TB3000, 3100 series UV curing resin
Suitable packaging	250-g bottles, 1-kg bottles or cans

### Automatic application device for low and medium viscosity materials



#### Equipment List

333-ml cartridge-type tank  
 Liquid agent discharge valve (HPNV-50)  
 Pressure feed controller (coater S4)  
 Desktop orthogonal 3-axis robot (RT7-20)



Automatic application device for low and medium viscosity materials  
 Individual catalog



Drive Sources	Clean dry air, 0 to 0.7 MPa, 100 to 240 VAC, 50/60 Hz
Suitable viscosity	low and medium viscosity liquid agents
Suitable Materials	Moisture curing sealant such as TB1200 and TB1500 series UV curing resin such as TB3000 and 3100 series
Suitable packaging	333-ml cartridge

### Fixed-quantity application device for high-viscosity materials



#### Equipment List

Pump for pails (PBIII)  
 Constant-velocity discharge head (fixed-quantity booster)  
 Desktop 3-axis robot (RT7-30)



Fixed-quantity application device for high-viscosity materials  
 Individual catalog

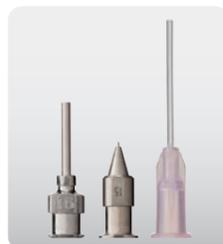


Drive Sources	Clean dry air, 0.3 MPa or more, 100 VAC, 24 VDC
Suitable viscosity	low to high viscosity
Suitable Materials	Moisture curing sealant such as TB1200 and TB1500 series
Suitable packaging	Pail

# Accessories

Application Equipment

## Nozzle



Stainless steel needle / PTFE needle nozzle / Precision nozzle

Nozzles made of various materials (including metal) are available in many sizes. You should select a nozzle material suitable for the properties of the dispense material used.

Nozzle Individual catalog



## Nozzle block



NB2 / NB2R / NB4 / NB5

Connects the valve with the nozzle. We can manufacture an integral type of nozzle block combined with your specified nozzle diameter / length to fit a custom application.

Nozzle block Individual catalog



## Cartridge accessories



Cartridge tank

Aluminum tank with cylinder

Cartridge attachment

Low-viscosity, low-thixotropy material compatible cartridge tank (LVCT-AC)

Cartridge accessories Individual catalog



Pressure feed tank used to pressure feed cartridge-type sealants and adhesives.

## Syringes and syringe accessories



Syringe / adapter / adapter assembly

Syringes and related accessories used for manual application of micro and low volumes.

Syringes and syringe accessories Individual catalog



## Tubes and hoses



PTFE tubes / nylon tubes / high and low pressure PTFE hoses

Our lineup of products provides a variety of options.

Tubes and hoses Individual catalog



## Hand gun for two-component liquid cartridge



TB2086M / TB3955 dedicated use hand gun

Hand gun that dispenses by mixing material within a static mixer.

Hand gun for two-component liquid cartridge Individual catalog



# Applicator Specification Check Sheet

Fill in this form and consult one of our sales engineers. We will make a proposal covering your requests.

Date	/ /
Person in charge (ThreeBond)	

### Customer information

Customer name				
Address				
Installation environment	<input type="checkbox"/> Standard environment	<input type="checkbox"/> clean room	<input type="checkbox"/> Other	Ambient temperature. °C to °C

### Equipment type

<input type="checkbox"/> Off-line single unit	<input type="checkbox"/> In-line unit	<input type="checkbox"/> Coating unit	<input type="checkbox"/> Other ( )
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### Equipment description

### Workpiece information

Name of workpiece				Number of models		
Dimensions of workpiece	Weight	kg	Material	<input type="checkbox"/> Metal	<input type="checkbox"/> Resin	<input type="checkbox"/> Other
Surface to be coated	<input type="checkbox"/> XY plane (without difference in height)	<input type="checkbox"/> XY plane (with difference in height)	<input type="checkbox"/> Three-dimensional structure			

### Application specification

Applying method	<input type="checkbox"/> Line application	<input type="checkbox"/> Point application	<input type="checkbox"/> filling	<input type="checkbox"/> Other			
Material to be applied			Coating weight	g	Bead diameter	∅	mm
Container Type	<input type="checkbox"/> Cartridge	<input type="checkbox"/> Pail	<input type="checkbox"/> Pail/bottle	kg	<input type="checkbox"/> Syringe	cc	<input type="checkbox"/> Other ( )

### Power source

Primary electric source	<input type="checkbox"/> Single-phase 200 VAC	<input type="checkbox"/> Three-phase 200 VAC	<input type="checkbox"/> Single-phase 100 VAC	<input type="checkbox"/> Other	
Primary pneumatic source	<input type="checkbox"/> Dry air	<input type="checkbox"/> Lubricated air	<input type="checkbox"/> Other	Guaranteed minimum supply pressure	MPa

### Operating specification

Number of pieces to be produced	pieces/month		pieces/day		pieces/hour	
Cycle time	Machine Cycle time	sec		Start of discharge to end of discharge	sec	
Operation process	1			<input type="checkbox"/> Automatic operation	<input type="checkbox"/> Manual operation	
	2			<input type="checkbox"/> Automatic operation	<input type="checkbox"/> Manual operation	
	3			<input type="checkbox"/> Automatic operation	<input type="checkbox"/> Manual operation	
	4			<input type="checkbox"/> Automatic operation	<input type="checkbox"/> Manual operation	
	5			<input type="checkbox"/> Automatic operation	<input type="checkbox"/> Manual operation	
	6			<input type="checkbox"/> Automatic operation	<input type="checkbox"/> Manual operation	
	7			<input type="checkbox"/> Automatic operation	<input type="checkbox"/> Manual operation	

### Schedule

Desired date for submission of estimate		Expected date of order placement	
Desired date for completion of manufacturing		Desired date for delivery	

Product catalog can be viewed on ActiBook.




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Creating Our Future From a Single Drop

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- With about 100 sales offices and manufacturing plants in Japan as well as 60 sales offices and manufacturing plants that are located outside of Japan, we have established a system to quickly meet the needs of our customers.

Your request:

3PGO40•18•11•SK