

Micro-Dot™

Manual Syringe Dispenser Operation Manual

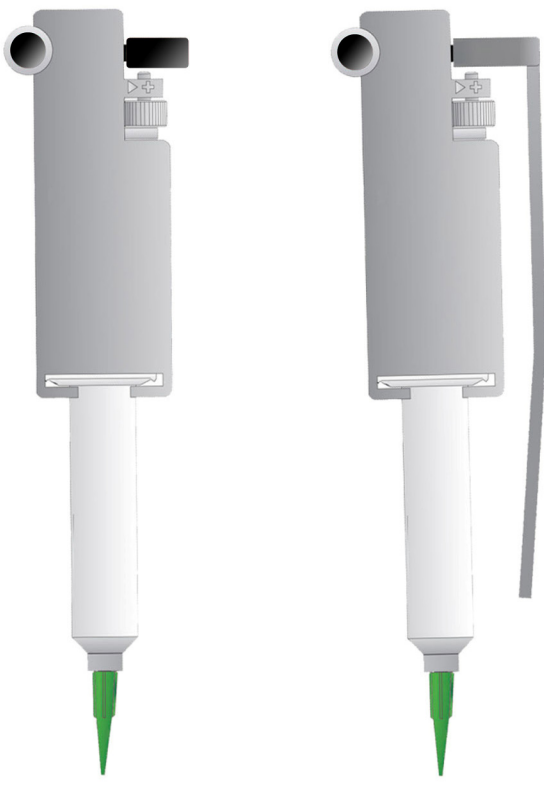


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UNPACKAGING AND INSPECTION

Upon receipt of the unit, carefully remove the contents from the boxes and check for damage. **DYMAX is not responsible for damage from shipping – all claims for shipping damage should be made with the carrier.**

Check all boxes for contents and retain original shipping cartons in case you need to repackage any item for return.

If you observe or experience any problem with your equipment, notify DYMAX Customer Service, your authorized DYMAX distributor, or your DYMAX representative immediately.

Micro-Dot™ Syringe Dispenser Includes:

- **Micro-Dot™**
- **Sample Dispensing Kit**



Figure 1. Micro-Dot™ (Thumb)
PN T20000



Figure 2. Micro-Dot™ (Lever)
PN T20010

SPECIFICATIONS

Part Number	T20000 Thumb Actuated T20010 Lever Actuated
Dispenser Type	Manual, positive-displacement syringe dispenser
Dimensions (W x H x D)	4.5" x 0.87" x 2.13" (11.4 cm x 2.2 cm x 5.4 cm)
Weight	2.8 oz (81.3 g)
Minimum Shot Size	0.0003 mL (400 cP material with 25 gauge taper tip)
Maximum Shot Size	0.170 mL (400 cP material with 14 gauge taper tip)

DISPENSER COMPONENTS

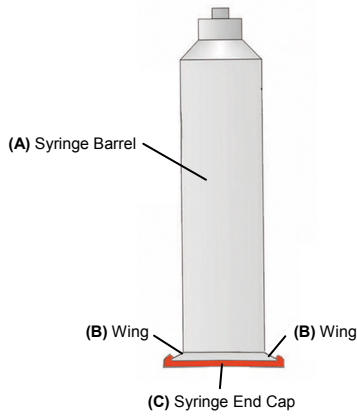


Figure 4. Syringe Parts

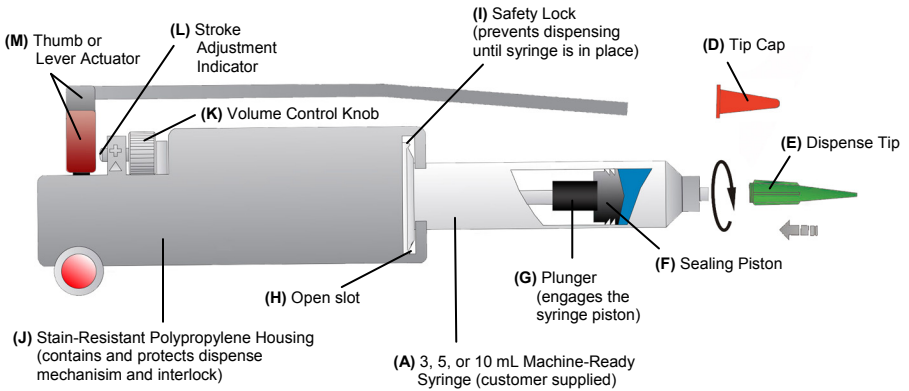


Figure 5. Micro-Dot™ Component Diagram

SET-UP

SYRINGE PREPARATION:

The Syringe End Cap (C) must be removed before connecting the Syringe (A) to the Micro-Dot™ dispenser. Remove the Syringe End Cap (C) by prying it upwards from under the Syringe Wings (B).

INSERTING THE SYRINGE INTO THE *MICRO-DOT*

NOTE: The *Micro-Dot* has a built-in Safety Lock (I) and will not operate without a Syringe (A) in its proper position.

1. The *Micro-Dot* Plunger (G) must be extended before the Syringe (A) is connected to the *Micro-Dot*. To extend the Plunger (G):
 - Hold the *Micro-Dot* body in your hand with the Plunger (G) pointed down.
 - Do not depress the Thumb or Lever Actuator (M) (doing so will lock the Plunger (G) and override the Safety Lock (I)).
 - If the Plunger (G) does not drop freely, grip the Plunger (G) and pull it from the *Micro-Dot* Housing (J).
2. Insert the Plunger (G) into the Syringe Barrel (A).
3. Rotate the Syringe (A) to align the Wings (B) with the Open Slot (H) at the end of the *Micro-Dot* body.



CAUTION: If Syringe (A) is over-filled, the Syringe can not be inserted into the *Micro-Dot* with the Syringe Tip Cap (D) in place.

4. Slide the Syringe (A) back until the Wings (B) contact the *Micro-Dot* Housing (J).
5. Firmly rotate the Syringe (A) counterclockwise until it stops.

PREPARING THE SYRINGE FOR DISPENSING

1. Remove the Syringe Tip Cap (D) by turning it counterclockwise.
2. Attach the appropriate Dispense Tip (E) by inserting it onto the end of the Syringe (A) and turning clockwise until it stops. When selecting the correct Dispense Tip to use:
 - For best performance with the *Micro-Dot*, Taper Dispense Tips should be used with most fluids.



CAUTION: Taper Dispense Tips reduce the back pressure generated during dispensing that can lead to loss of repeatability or dripping following dispense.

- Use smaller diameter Dispense Tips with low viscosities and larger Dispense Tips for higher viscosities and gel products.
- Always use the largest diameter acceptable for your application.

OPERATION

NOTE: Disregard Step 1 if the Stroke Adjustment Indicator (L) is retracted at least half way from the bottom of the Thumb or Lever Actuator (M) to where it enters the Housing (J).

- Step 1. Rotate the Volume Control Knob (K) until the top of the Stroke Adjustment Screw (M) is approximately half way between the bottom of the Actuating Thumb Button or Lever (M) and the Housing (J).
- Step 2. Prime the Micro-Dot™ by depressing the Thumb or Lever Actuator (M) a few strokes until consistent drops of material are being dispensed. Touch the drops off on a disposable surface after each dispense.

The size of the adhesive dot can be adjusted by turning the Volume Adjustment Knob (K). Rotate the Volume Adjustment Knob towards the “+” symbol to increase dot size or in the opposite direction to decrease dot size.

- Step 3. Between shots, the *Micro-Dot* should be stored upright to ensure that fluid does not leak around the piston. The single-position, inclined syringe stand from DYMAX is recommended as it will also protect the dispense tip between uses.

EQUIPMENT MAINTENANCE

TIP REPLACEMENT

To avoid clogging of dispensing tips, avoid prolonged periods of non-use. Should clogging occur, replace dispensing tips as needed.

STORAGE

To avoid accidental damage to the unit when storing without a Syringe (A), push the Plunger (G) into the Housing (J).

TROUBLESHOOTING

Problem	Possible Cause	Corrective Action
Inconsistent Shots	Clogged or damaged tip	Replace tip
	Back pressure from using wrong tip for fluid type	Use appropriate tip for material. For assistance, call DYMAX Applications Engineering
	Leaking syringe piston	Increase tip size or replace syringe
	Presence of air bubbles in the syringe	Replace syringe
	Damaged Micro-Dot™	Contact DYMAX

WARRANTY

CAUTION!

DYMAX CORPORATION RESERVES THE RIGHT TO INVALIDATE ANY WARRANTIES, EXPRESSED OR IMPLIED, DUE TO ANY REPAIRS PERFORMED OR ATTEMPTED ON DYMAX EQUIPMENT WITHOUT WRITTEN AUTHORIZATION FROM DYMAX. THOSE CORRECTIVE ACTIONS LISTED BELOW ARE LIMITED TO THIS AUTHORIZATION.

DYMAX Corporation offers a one-year warranty against defects in material and workmanship on all system components *with proof of purchase date*. Unauthorized repair, modification, or improper use of equipment may void warranty. The use of aftermarket replacement parts not supplied or approved by DYMAX Corporation, will void any effective warranties and may result in damage to the equipment.

**For further assistance with adhesive and equipment selection,
contact DYMAX Applications Engineering.**



In the U.S. Call: 877.396.2988
In North and South America Call: +1.860.482.1010
In Europe Call: +49 (0) 611.962.7900
In China Call: +86.755.83485759
In Asia Call: +852.2460.7038
In Korea Call: 82.2.784.3434

www.dymax.com ♦ www.dymax.de ♦ www.dymax.com.cn ♦ www.dymax.co.kr

DYMAX Corporation - 318 Industrial Lane - Torrington, CT 06790 - Phone: 860.482.1010 - Fax: 860.496.0608 -
E-mail: info@dymax.com - www.dymax.com

DYMAX Europe GmbH - Kasteler Strasse 45 - Building G 359 - 65203 Wiesbaden, Germany - Phone: +49 (0) 611.962.7900 -
Fax: +49 (0) 611.962.7900 - E-mail: info_de@dymax.com - www.dymax.de

DYMAX UV Adhesives & Equipment (Shenzhen) Co., Ltd - Unit 807, Talfook Building, No. 9 Shihua Road, Futian Free Trade
Zone, Shenzhen, China 518038 - Phone: +86.755.83485759 - Fax: +86.755.83485760 - E-mail: dymaxasia@dymax.com -
www.dymax.com.cn

DYMAX Asia (HK) - Room 1103, 11/F., Metro Centre, Phase I, 32 Lam Hing St., Kowloon Bay, Hong Kong - Phone: +852.2460.7038
- Fax: +852.2460.7017 - E-mail: dymaxasia@dymax.com - www.dymax.com.cn

DYMAX Korea LLC - #903, CCMM B/D, 12 Yeoido-Dong, Youngdungpo-Gu, Seoul, Korea, 150-869 - Phone: 82.2.784.3434 -
Fax: 82.2.784.5775 - E-mail: info@dymax.kr - www.dymax.co.kr

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product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained
in DYMAX's standard Conditions of Sale. DYMAX recommends that any intended application be evaluated and tested by the user to
insure that desired performance criteria are satisfied. DYMAX is willing to assist users in their performance testing and evaluation by
offering equipment trial rental and leasing programs to assist in such testing and evaluations. Data sheets are available for valve
controllers or pressure pots upon request.

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