

Manual Tools
Syringe Gun Dispensers

USER GUIDE



Adhesive Dispensing Ltd

Solutions customers stick with...

Introduction

Thank you for purchasing the ADL hand operated syringe gun. Our dispensing gun systems are built and pre-assembled using high quality parts to ensure that your time is spent where it belongs, on productivity. The guns are built to accept industry standard syringe barrels. You can use pre-filled syringe barrels containing fluids such as solder paste, flux, silicone, RTV, grease and PVA or use empty barrels from us and fill yourself. This user guide will answer most of the more common questions and help you to maximise the benefits from your new syringe gun dispensing system.

This version incorporates a fixed 1/8" rod movement and some accessories required to achieve results. Designed for use on a work bench and as part of a production or assembly process, we keep the dispensing system clean, simple and fast. This is a simple system for setup straight out of the box.

To achieve maximum performance from Adhesive Dispensing equipment, please read the instructions carefully.

After completing this guide, please do not hesitate to contact the technical team at Adhesive Dispensing Ltd or contact your authorised Adhesive Dispensing Ltd reseller.

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Our Pledge

We offer you the assurance that our products will operate and perform to your satisfaction. Our goal is to provide the highest quality products for use with your industrial applications.

If for any reason you feel that you are not satisfied with our products, we would be grateful if you would write or call us so we can give it our urgent attention. We strive to develop strong partnerships by delivering cost effective solutions that provide savings in assembly time and raw materials.

So your confidence and trust in Adhesive Dispensing Ltd is of the utmost importance to us.

Meets applicable CE requirements.

This manual is for the express and sole use of ADL dispenser users and customers, and no part of this manual may be reproduced in any way. © Adhesive Dispensing Ltd 2007

Specifications

Capacity:	10cc, 30cc or 55cc Versions #TS710SG, #TS730SG, #TS755SG
Initiation:	Manual Trigger Dispenser
Gun Materials:	Polypropylene, nylon, EPR O-ring
Colour:	Red body, white trigger and flange
Barrel Connection:	Bayonet push/twist
Length:	175 mm
Height:	135 mm
Weight:	110 gram (without filled syringe)

First Steps

Step 1:

Unpack the shipping box and use the supplied delivery note to make sure all items are present. If any items are missing or damaged, please contact us immediately.

Step 2:

Ensure the area where you are setting up the equipment is clean and follow safety procedures of your adhesive Material Safety Data Sheet for safe handling.

Step 3:

Activate your one (1) year product warranty by filling in and returning by fax or email the warranty card.

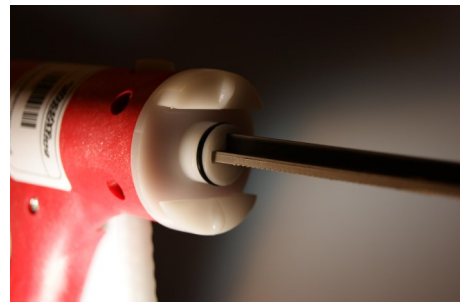
Setup

Insert Rod:

The gun is supplied with a suitable size plunger rod. Align the flat end of the rod to the white gun end and push in rod whilst pressing the white release button on the top of the gun. **Note:** *Never push or pull the rod without pressing the white release button or it will cause damage.*

Pull the rod back as far as it will go to show the plunger end next to the O-ring.

This gun accepts industry syringe barrels with wide flanges. Locate the syringe end to the gun flange, push on fully and twist anti-clockwise into place. The barrel will sit over the O-ring on the gun.



Setup Continued

Assemble Syringe:

If your adhesive is supplied in a pre-filled syringe, please skip this step.

When using our industrial syringe barrels, take an empty syringe and attach a luer lock tip cap seal.

Fill the syringe with your adhesive or paste. Take care not to overfill because material will ooze from the tip when the tip cap is removed. Usually 3/4 full is ideal.

Insert the white or blue. The open piston side faces out of the barrel so the flat side pushes against the liquid when under pressure. Push the piston down so that it sits flat on the adhesive level without any air gaps. Any air gaps in the barrel may cause drips and ooze later on.



Attach Filled Barrel to Gun:



Align the barrel flange to the gun flange. Push over rod end and over O-ring seal. Push all the way and then twist the barrel anti-clockwise.

With the barrel attached, squeeze the gun trigger gently until it moves down to the level of the piston.



Remove the tip cap from the tip end of the 10cc barrel. This will expose a male luer lock thread on the barrel ready to accept any of our dispensing tips.

Attach a tip and twist onto the barrel clockwise into place. Select from standard tips to brush types, tapered style and roller flexible tips.



Hold the gun and position the tip above the area to be dispensed to. Squeeze the trigger to make a deposit. Release the trigger to stop. For the best results, touch the tip to the surface of the part, make deposit then release trigger before moving the gun away. This will release all the fluid to the part and not carry over or spill from the tip when finished. Ensure the piston does not have an air gap between the fluid or it might drip.



Disposable Reservoir System

Five sizes, three colours and two types of syringe barrels/pistons make up the 700 series reservoir system for quality dispensing of all kinds of assembly fluids.

For samples, recommendations and immediate customer service:

0845 652 0058

www.adhesivedispensers.co.uk

Syringe barrel & piston sets

	QTY	Clear Barrels White Pistons	Clear Barrels Red Pistons	Amber Barrels White Pistons	Black Barrels White Pistons
3cc	(50)	903-NW	903-NR	903-DW	903-BW
5cc	(50)	905-NW	905-NR	905-DW	905-BW
10cc	(50)	910-NW	910-NR	910-DW	910-BW
30cc	(50)	930-NW	930-NR	930-DW	930-BW
55cc	(50)	955-NW	955-NR	955-DW	955-BW



Syringe Barrel Dimensions

CAPACITY	Overall Length A inches/mm	Outside Diameter B inches/mm
3 cc	2.96/75.18	0.46/11.56
5 cc	2.83/71.9	0.59/14.99
10 cc	3.58/90.9	0.72/18.29
30 cc	4.66/118.36	0.99/25.15
55 cc	6.91/175.51	1.01/25.65

Reservoirs available in clear for most fluids; translucent amber for UV and light-sensitive materials (*240 to 550 nm); and opaque black to ensure complete light blockage. Amber and black barrels also available with red pistons; request the straight wall series.

Syringe barrel without pistons

	QTY	Natural Clear Barrels	Light Block Amber Barrels	Opaque Black Barrels
3cc	(50)	903-N	903-D	903-B
5cc	(50)	905-N	905-D	905-B
10cc	(50)	910-N	910-D	910-B
30cc	(50)	930-N	930-D	930-B
55cc	(50)	955-N	955-D	955-B

Tip and end caps

	QTY	End Cap
3cc	(50)	903-EC
5cc	(50)	905-EC
10cc	(50)	910-EC
30cc	(50)	930-EC
55cc	(50)	930-EC
	QTY	Tip Cap
	(50)	900-ORTC

Note: Order appropriate type of piston separately.

End cap for air tight barrel sealing. Locking tip cap fits all

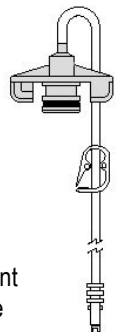
Wiper and flat wall pistons

	QTY	White Wiper Pistons	Red Flat Wall Pistons
3cc	(50)	7030009WPK	7030006RPK
5cc	(50)	7050009WPK	7050006RPK
10cc	(50)	7100009WPK	7100006RPK
30cc	(50)	7300009WPK	7300006RPK
55cc	(50)	7300009WPK	7300006RPK



Adapter assemblies

	QTY	Black Head 3 ft clear hose	Black Head 6ft clear hose
3cc	(1)	70303RHB	70306RHB
5cc	(1)	70503RHB	70506RHB
10cc	(1)	71003RHB	71006RHB
30cc	(1)	73003RHB	73006RHB
55cc	(1)	73003RHB	73006RHB



Pistons ensure constant dispensing force, prevent drip or ooze, contain all possible hazardous fumes and empty all fluid from barrel.

One-piece moulded lock adapter provides safe attachment of syringe barrel. Includes 5/32" OD flexible polyurethane tubing, EPR O-ring, quick-connect & optional safety clip. Refer to price list for spare parts.

Adapter assembly o-rings

	QTY	EPR Rubber	Viton Rubber
3cc	(10)	P3015EPK	P3019VPK
5cc	(10)	P3016EPK	P3020VPK
10cc	(10)	P3017EPK	P3021VPK
30cc	(10)	P3018EPK	P3022VPK
55cc	(10)	P3018EPK	P3022VPK



Rubber o-ring replacements for all size adapter assemblies. Use EPR rubber o-rings for most standard fluids and adhesives. Use Viton rubber o-rings for solvents, aggressive fluids.





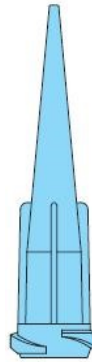
Precision Dispense Tips

All tips supplied in packs of 50 unless specified.

Tapered tips

gauge	standard	colour	opaque rigid	colour
14	TTN14	Olive	TTN14E	Salmon
16	TTN16	Grey	TTN16E	Grey
18	TTN18	Green	TTN18E	Green
20	TTN20	Pink	TTN20E	Pink
22	TTN22	Blue	TTN22E	Blue
25	TTN25	Red	TTN25E	Red
27	TTN27	White	n/a	n/a

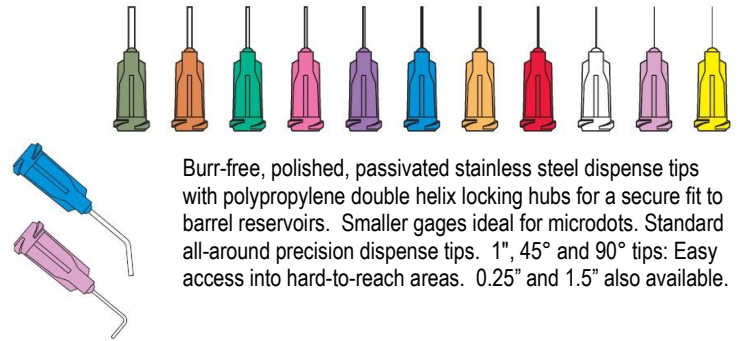
Use with gel cyanoacrylates, UV-cure adhesives, sealants, and particle filled materials or any medium to high viscosity fluid. Moulded of polyethylene with UV-light block additive.



Gauge	Color	I.D. (inches)	I.D. (mm)
14	Olive	0.063	1.600
15	Amber	0.054	1.371
18	Green	0.033	0.838
20	Pink	0.024	0.610
21	Purple	0.020	0.508
22	Blue	0.016	0.406
23	Orange	0.013	0.330
25	Red	0.010	0.254
27	Clear	0.008	0.203
30	Lavender	0.006	0.152
32	Yellow	0.004	0.102

Precision stainless steel tips

gauge	0.5"	1.0"	45°	90°
14	914050-TE	914100-TE	914050-45BTE	914050-90BTE
15	915050-TE	915100-TE	915050-45BTE	915050-90BTE
18	918050-TE	918100-TE	918050-45BTE	918050-90BTE
20	920050-TE	920100-TE	920050-45BTE	920100-90BTE
21	921050-TE	921100-TE	921050-45BTE	921050-90BTE
22	922050-TE	922100-TE	922050-45BTE	922050-90BTE
23	923050-TE	923100-TE	923050-45BTE	923050-90BTE
25	925050-TE	n/a	925050-45BTE	925050-90BTE
27	927050-TE	n/a	927050-45BTE	927050-90BTE
30	930050-TE	n/a	930050-45BTE	930050-90BTE
32	932025-TE	n/a	n/a	n/a



Burr-free, polished, passivated stainless steel dispense tips with polypropylene double helix locking hubs for a secure fit to barrel reservoirs. Smaller gages ideal for microdots. Standard all-around precision dispense tips. 1", 45° and 90° tips: Easy access into hard-to-reach areas. 0.25" and 1.5" also available.

TS-P plastic flexible tips

gauge	1.5" long	colour
15	TSP15	Grey
16	TSP16	Brown
18	TSP18	Pink
20	TSP20	Yellow
22	TSP22	Black
25	TSP25	Red



Flexible tips allow access to hard to reach areas and allow you to cut and customise the length. Ideal for CA applications. Both hub and tube are made from polypropylene. 1.5" length.

gauge	soft bristle	stiff bristle
16	BT16SOFT	BT16STIFF
18	BT18SOFT	BT18STIFF
22	BT22SOFT	BT22STIFF

Brush tips



Use these double helix brush tips for spread applications such as glues and other materials. Soft brush is made of red sable, stiff of nylon. In packs of 12.

Polypro flexible tips

gauge	0.5"	1.5" long	colour
16	3115PPS	3115PP	Amber
18	3118PPS	3118PP	Green
20	3120PPS	3120PP	Pink
25	3125PPS	3125PP	Red

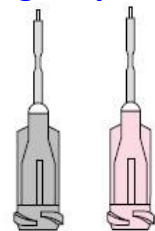


Flexible polypro tips allow access to hard to reach areas and allow you to cut and customise the length. Ideal for CA applications. Made from polypropylene. 0.5" and 1.5" length.

Teflon Lined rigid tips

gauge	0.5" long	1.0" long
21	5121TLCS	5121TLC
25	5125TLCS	5125TLC

Teflon lined dispensing tips will not clog when used with cyanoacrylate adhesives. Rigid stainless steel shaft with crimped Teflon inner lining. Supplied in packs of 50.



Assorted tip kit



part	description
TN00DKIT	Tip kit

This kit contains a selection of our most popular precision, precision bent and TTN needles to let you test different types to find the ones that fit your applications.

SS precision tips



Precision stainless steel needles ideal for use with automated dispensers. 10 per box. Not available in bulk.

gauge	part no	colour	Length
14	TS14SS-1/2	Stainless Steel	1/2"
15	TS15SS-1/2	Stainless Steel	1/2"
16	TS16SS-1/2	Stainless Steel	1/2"
17	TS17SS-1/2	Stainless Steel	1/2"
18	TS18SS-1/2	Stainless Steel	1/2"
20	TS20SS-1/2	Stainless Steel	1/2"
21	TS21SS-1/2	Stainless Steel	1/2"
22	TS22SS-1/2	Stainless Steel	1/2"
23	TS23SS-1/2	Stainless Steel	1/2"
25	TS25SS-1/2	Stainless Steel	1/2"
27	TS27SS-1/2	Stainless Steel	1/2"
30	TS30SS-1/2	Stainless Steel	1/2"

Troubleshooting

Problem

Possible Solution

No Fluid Flow

Remove the tip cap.
Check that adhesive or paste has not cured at tip.
Check that the rod is moving when the trigger is squeezed.
Use a new syringe barrel, piston and tip.
If tip size too small, use a larger bore tip.

Rod Does Not Move

Remove the rod by pressing down the white gun release button and pulling rod out. Check the rod for damage and/ or residue adhesive cured. Clean and replace. If damaged, replace rod.
Contact Adhesive Dispensing Ltd if faulty gun.

Syringe Barrel Does Not Fit

Use only syringes 10cc, 30cc or 55cc (to suit the gun size ordered).

The syringe guns can also be used with other manufacturers barrels that feature wide flanges.

Dispense Rate Too Slow

Increase tip gauge size.
Use tapered dispense tips.

Adhesive Drips After Dispense

Replace barrel and piston with new.

Air is present between the piston and the fluid level inside the syringe. Remove any air from the syringe by removing from gun, turning the barrel upside down with tip removed and pushing the piston up to remove air. Re-attach tip and replace into gun once air removed.

This gun is not ideal for very watery liquids. If a low viscosity fluid is used, select a smaller bore tip and press the trigger gently.

If you require any further assistance with this product, please call us on Free Phone 0800 094 9058 or +44 (0) 1908 686660.

Or email us at support@adhesivedispensers.co.uk.

Warranty

One Year Limited Warranty

Adhesive Dispensing Ltd (ADL) warrants its product to be free from defects in materials and workmanship for a period of one year from the date of purchase.

Under this warranty, ADL will repair or replace any defective part or, at its own option, the complete value regardless of fault. To obtain service under warranty, product must be returned, carriage prepaid, to ADL.

Before use, the customer must determine the suitability of the product for their intended use and therefore customer assumes all risk and liability connected with product's use. At no time, under any circumstance, shall any liability or obligation of ADL arising from the warranty exceed the purchase price of the product.

Except as provided herein, ADL makes no warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. In no event will ADL be liable for direct, indirect, special, incidental, or consequential damages arising out of use of this product.



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