



# **SYSTEM TB 1000**

## **BULK ADHESIVE APPLICATOR**

### **INSTRUCTION FOR SET UP AND OPERATION**

#### **SYSTEM TB1000**

Congratulations on your purchase of the TARGET SYSTEM TB 1000 Bulk Adhesive Applicator. This high quality spray system is designed to operate continuously providing years of trouble free service, requiring only minimal maintenance. When used with TEK BOND TB-10 water based adhesive it is the perfect, safe and environmentally responsible replacement for aerosol spray tack.

The pump unit is extremely durable and once in use, will only cycle periodically. The only required maintenance for the system is regular cleaning. This is outlined in the operation section of this manual. The biggest single cause of premature failure of this system results from insufficient cleaning of the pump, so please pay extra attention to this section.

As with all TARGET or TEKMAR products, should you experience any difficulties with this product please call our customer service line at  
800/564-1096

## **ASSEMBLY INSTRUCTIONS**

The pump and spray gun come fully assembled and ready to operate. The stand requires some minimal assembly which is outlined below.

1.0 Attach the stiffening strap to the bottom of the stand using the supplied four(4) # 8 screws.

1.1 Place the pump on the top of the stand over the four (4) 1/4" studs. The pump should be orientated so that the back of the pump (end with 36" suction hose) is almost flush with the stand, and the front of the pump (end with air connection and regulator) is set back approx. 2" from the front of the stand.

1.2 Place one each of the supplied washers and 1/4" nuts on each of the studs and tighten.

The TARGET SYSTEM TB 1000 is now assembled and ready for air hook up.

## **AIR HOOK UP**

The air requirements for the SYSTEM TB 1000 are very minimal. An input pressure of 40-60 PSI is all that is required. The MAXIMUM input pressure for the system is 100 PSI.

2.0 It is highly recommended that the air be attached to the unit using a quick release connector. This allows the air to be easily disconnected for maintenance or in the event of an emergency.

2.1 Before connecting the air, turn the regulator adjustment knob fully counter clockwise. This will effectively shut the pump system down.

2.2 The air supply to the gun is regulated by the main unit. The pump will function on an air pressure of 20-120 PSI, the regulator is primarily used to

adjust the air flow through the gun.

## ADJUSTMENT

**3.0** Place a five gallon pail of TEK BOND TB-10 adhesive under the stand with the opening at the back of the stand. Insert the clear suction hose through the opening, ensure that sufficient hose is lowered in so as to reach the bottom of the bucket. Hose extensions are available to allow direct suction from larger containers such as 15 gallon buckets and 55 gallon drums.

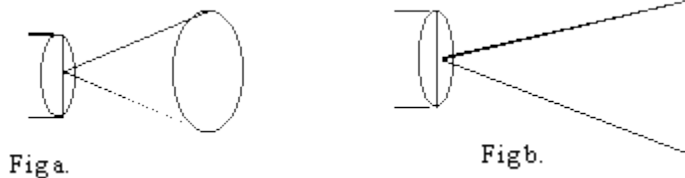
**3.1** Connect the air and slowly turn the regulator clockwise until the gauge registers 40 PSI. The pump should now be cycling making a clicking sound.

*Please note that once primed the pump will stop cycling.*

**3.2** The spray gun has two adjustment controls. The smaller knob is the spray adjustment control, while the larger knob controls the flow. Open up the larger knob 2 or 3 turns (counter-clockwise) to allow the system to prime. Directing the gun into a trash can or old cardboard box, squeeze the trigger all the way in and hold it until adhesive starts to come out of the nozzle.

**3.3** Once adhesive is spraying out of the nozzle slowly rotate the knob back in (clockwise) until a fine spray is achieved. The desired setting should produce an extremely fine spray pattern that is almost invisible. If necessary increase air pressure, not exceeding 60PSI

**3.4** The smaller silver knob on the gun is used to adjust the spray pattern. With the knob all the way in a circular spray pattern is achieved (see fig a). By slowly rotating it counter clockwise a flatter fan type spray pattern can be achieved (see fig b). The flat fan spray pattern is more suitable for the application of adhesive. The nozzle should be positioned vertically to produce a horizontal flat fan or reversed for a vertical spray.



**3.5** If more adhesive is required then slowly turn the lower, larger silver knob counter-clockwise. Once the desired spray has been set, practice spraying on some scrap cardboard.

**3.5** The unit should be located as near to the press as possible. Should it be desired to locate the system away from the press then extension hoses are available for a maximum extension of 20 ft. Make sure that the unit and hoses are not placed in such a way so as to present a hazard to anyone. If necessary tape hoses down to avoid any risk of someone tripping or falling.

# OPERATION

The success of the TARGET SYSTEM TB 1000 and TEKBOND TB-10 is dependent upon the minimal use of the adhesive. To maximize adhesive usage it is essential to follow the operating procedures outlined below.

**4.0** Initially when starting with clean pallets it is necessary to apply a “build” of adhesive before printing, this is a very quick operation. Simply apply a very light application of adhesive, 2 or 3 fast passes moving from the front to the back or from side to side of the pallet is all it takes. Rotate through each pallet twice. This will only take a few minutes and will allow a good base for the adhesive to “build” on.

**4.1** Start printing as usual, apply a fine mist of adhesive as required. If lint starts to gather on the pallet, it can quickly be removed using a slightly damp sponge. Often it is not necessary to re-apply adhesive after this lint removal procedure. When sprayed in the above manor, TEKBOND TB-10 should tack almost instantly allowing high speed loading and unloading of textiles.

**4.2** As printing continues re-apply adhesive as necessary. Do not over apply adhesive as it will start lay down too thick and will then have potential to start transferring onto the garment.

**4.3** On fleece goods adhesive will need to be applied more frequently due to the transfer of fleece onto the pallet.

**4.4** It is highly recommended that pallet mask be used to eliminate unnecessary clean-up

# CARE AND MAINTENANCE

## CLEANING

The biggest single cause for premature failure of the TB1000 is as a result of insufficient or non cleaning of the pump and spray gun. If the following steps are taken then the unit will provide years of trouble free maintenance.

If the unit is to be inactive for any period of time (2 or more days) or at least once a month the unit should be flushed in the following manner.

**NOTE :** Wet adhesive can be washed off the system using hot water. Should it be allowed to dry then an adhesive remover such as TB-AR will have to be used.

**5.0** Once a day, at the end of the shift the nozzle on the spray gun should be wiped clean of adhesive using TEKBOND TB-AR adhesive remover. Special care should be taken to ensure that the small air holes are not blocked as this will effect the atomization of the adhesive. If they are heavily clogged with adhesive then the nozzle should be removed and allowed to soak in TB-AR remover.

**5.1** To flush the pump, hose and spray gun assembly, remove the suction hose from the adhesive. While the adhesive is still wet (white in appearance) place the tube in about 1/2 gallon of hot water. Open up the fluid control knob on the gun and hold the trigger wide open and direct the spray into a trash can or box. As soon as clear liquid can be seen coming out of the nozzle, the suction tube can be removed from the water. A small amount of TB-AR

(denatured alcohol can be substituted) should then be run through the system to displace the water. The system is then flushed and ready for re-priming with TB-10 adhesive.

## **MAINTENANCE**

***Please note that the unit should never be disassembled in any way without having first been flushed as described above. If this is not done then exposed adhesive can dry in the pump, hoses or spray gun and invalidate the warranty.***

**6.0** Needle wear is not unusual. To identify this problem, look for wear of the tip and wear between the needle and the point of contact with the packing. To replace needle, remove adjusting screw. Be careful when removing adjusting screw as it is spring loaded. Pull trigger back all the way and grasp end of needle. Let trigger go without letting needle loose. Pull needle from gun. Re-assemble needle cap and lock nut with replacement needle. Re-insert into gun and adjusting screw.

## **Lubrication**

Lubrication procedures should be initiated on a regular basis, at least weekly, using a non-silicon spray gun lube.

**7.0** Lubricate the exposed parts of the needle (591-20) in front of and behind the trigger (591-43).

**7.1** Lube the trigger screw (591-44) so that it moves freely.

**7.2** Remove the adjusting screw (591-25) and lubricate the threads.