



## Hi-Tech Systems

1190 N. Del Rio Pl., Ontario, CA 91764

[www.hitechpolyurea.com](http://www.hitechpolyurea.com)

(800) 454-5530

### HT MINI PUMP MANUAL

For Use with all Hi-Tech Polyureas



## SAFETY

1. Become completely familiar with the HT MINI Polyurea pump before operation and read all safety recommendations on the SDS of the material you will be pumping.
2. Keep hands and clothing free from all moving parts.
3. Always use the same tanks (Isocyanate or Polyol) with similar chemicals or mixed material will cure inside of the tanks, pumps, hoses, etc...
4. Never alter the machine from its original condition for safety purposes.

## OPERATION

**Caution, the drill must be set to run clockwise, reversing the direction will damage the pumps gear box. Do not use the hammer function, Do not run the pump dry.**

1. Fill tanks - Iso in Iso tank, Polyol in Polyol tank. Never allow pumps to run dry – keep them wet with oil if not polyol or isocyanate.
2. Check all connections for leaks and tightness.
3. Connect pump to power supply, if equipped with battery/inverter/charger connect the drills power cord to the inverter. If not equipped with battery/inverter/charger connect the drills power cord to a 110-volt power source.
4. Lock the drill “on/off” switch in the “on’ position. Adjust speed control with the dial knob on the drill switch. Attach nozzle to manifold with retaining nut, trigger the power switch on the applicator handle (**pump will continue to pump while the trigger is pressed, the pump will stop when trigger is released**) purge product to test for proper mixing, then begin pumping.
5. When finished, disconnect your power source, close lids, remove nozzle and grease manifold until grease flows out. Add a small amount of grease to the manifold threads before replacing night cap and nut. Be sure your pumps and supply lines remain wet with product or oil.
6. Seal the tanks air tight with a sheet of clear plastic or the best option is to add a layer of dry compressed nitrogen for approximately 3 – 5 seconds quickly closing the lid after adding the nitrogen.
7. For detailed instructions, please view the videos on our website, [www.hitechpolyurea.com](http://www.hitechpolyurea.com).
8. Battery/Inverter/Charger: If equipped, be sure the battery is charged and connected to the inverter with the quick disconnects. (The quick disconnects connect the battery to the inverter, and quickly unplug to connect the battery to the charger as needed). To power up, turn on the inverter – green light illuminates and fan within inverter starts running, plug the HT MINI into the inverter, turn on the machine.

## CLEANING/MAINTENANCE

1. Empty tanks and purge the system out with acetone, xylene, or like material. Cycle cleaner through system for 10 minutes using ratio valves on the manifold, but also purge through the manifold to clean it out. Wipe tanks clean then purge cleaner out with clean oil leaving it within the lines, manifold, valves, and the pumps.
2. Grease manifold through fittings and add grease to manifold threads.
3. Replace night cap securely with nut.
4. For detailed instructions, please view the videos on our website, [www.hitechpolyurea.com](http://www.hitechpolyurea.com).

## SPECIFICATIONS

1. Weight: 27 lbs. dry, 91 lbs. with cart/battery/inverter/charger dry.
2. Pumps: Piston Pumps
3. Tanks: 1/2 gallon tanks for 1 gallon total capacity.
4. Hoses: 3/8" x 8' stainless steel braided hoses coupled with a protective sleeve
5. Dispensing Unit: Extended lightweight aluminum handle with a dual port manifold, thumb operated Momentary On/Off Button
6. Viscosity: 50 – 800 cps.
7. Ratios: 1:1
8. Option: 12 volt deep cycle battery, 1250 watt inverter & 6 Amp speed charger with quick connects

### SIX MONTH LIMITED WARRANTY

Hi-Tech Systems (HTS) will repair or replace, at its expense and its option, any part of the SB MINI Pump, which in the course of normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to HTS within six (6) months from the date of the original purchase and provides HTS with a reasonable opportunity to verify the alleged defect by inspection. Parts may need to be sent to the manufacturer for inspection and repair or replacement. HTS will not be responsible for any asserted defect, which has resulted from misuse, abuse or repair or alteration made or specifically authorized by anyone other than HTS. Under no circumstances will HTS be liable for incidental or consequential damages resulting from defective products. This warranty is HTS's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether or merchantability, fitness for purpose, or otherwise, are expressly disclaimed by HTS.

### **Manifold Assembly**



