

# Hi-Tech Systems

## SB-2005 PUMP

### MANUAL



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# SAFETY

1. Become completely familiar with the SB-2005 pump before operation.
2. Read all safety recommendations on the Material Safety and Data Sheets of the material you will be pumping.
3. Keep hands and clothing free from all moving chains, gears and moving parts while operating the equipment.
4. Be sure to strap the pump securely and use the wheel brakes before transporting
5. It is highly recommended to always use the same tanks (A or B) for the same material, otherwise you run the risk of having material harden inside of the tank, pump, hoses, etc...

## OPERATION

1. Fill tanks with separate materials for blending; always use the same tanks for the same material, (A side in A tank, B side in B tank). Do not allow material to run dry in either tank.
2. Check all connections for leaks and tightness, including the chain. To adjust the chain tightness, loosen the nut on the idler sprocket located directly above the main drive sprocket coming from the motor, and slide up or down so you have approximately ½” of play in the chain.
3. Have work site ready for application.
4. Connect pump to power supply and open relief valves on top of tank lids.
5. Turn on the switch on the aluminum box attached to the frame, then turn on the switch on the handle, adjust the flow with the speed control and run a small amount of material out to verify both sides are being pumped freely. Once verified, attach nozzle to manifold with retaining nut and begin dispensing.
6. When finished, turn off the switch on the handle, then on the aluminum box, disconnect your power source, close relief valves on lids, remove nozzle and grease manifold until grease flows out.

## CLEANING/MAINTENANCE

1. If you leave material in the tanks, properly seal under the lid of the tanks with appropriate seal, such as a sheet of clear plastic. This will help to avoid hardening or crystallization of the material.
2. If removing material, drain material through drain cocks below tanks, clean/flush tanks with xylene, (it is best to cycle xylene through system for approximately ten minutes), then purge with mineral spirits or 30W oil and keep this fluid within the lines and just above the tank strainer within the tanks. Check and clean debris from strainers at base of tanks. Strainers are threaded clockwise onto an interior nipple.
3. Grease manifold and wheel bearings.
4. Wipe down machine and inside tanks.
5. Check seals under lids and replace as necessary.
6. Check all fittings for tightness and/or cracks.
7. Check hoses for leaks and replace as necessary.
8. Check chain for proper tightness.

## SPECIFICATIONS

1. Weight: 190 lbs. dry
2. Height: 38-1/2"
3. Width: 27"
4. Length: 30"
5. Motor: 1/2HP DC Gear motor w/separate heat sink, RPM: 0 - 500, Volts: 90-130, Torque: 202 In. Lbs., Amps: 5.5
6. Pumps: Cast iron dual internal rotary gear pumps
7. Tanks: 6.7 gallon, 14 gauge 304 stainless steel (ss) tanks w/ss lids, w/custom welded ss mounting nipples for ss suction line strainers and pump mounts, attached to frame with ss worm gear clamps
8. Power: 110 volt
9. Hoses: 3/8" x 14.5' Nylon braided hoses coupled with a protective sleeve
10. Wheels: 6" non marring gray balloon cushion wheels for easy roll over of cords and debris, swivel wheels have brakes
11. Dispensing Unit: Extended lightweight handle with a dual port manifold, on/off switch and speed control knob
12. Viscosity: 50 – 5,000 centipodes
13. Flow Rate: To 1 gallon per minute
14. Ratios: 1 – 1 ratio, easily geared to other ratios

## PARTS LIST

Motor	SBP100
Heat Sink	SBP101
Pumps	SBP102
Tanks	SBP103
Lids	SBP104
Speed Control	SBP105
Chain	SBP106
20T Gear	SBP107
35T Drive	SBP108
Strainers	SBP109
Idler	SBP110
Manifold	SBP111
Night Cap	SBP112
Wheels – Swivel	SBP113
Wheels – Rigid	SBP114
Worm Gear Clamps	SBP115
Supply Lines	SBP116
Line Cover	SBP117
Fuseholder	SBP118
Switch/Fuse	SBP119
Control Cover	SBP120
Elbow – Man	SBP121
Elbow – Pump	SBP121
45 - Drain	SBP122
Valve – Lid	SBP123
Valve – Drain	SBP124
Pipe Tee	SBP125
Reducer/Tank-Tee	SBP126
Nipple ½ - 3/8	SBP127
Nipple ½ - 1/4	SBP128
Toggle	SBP129
Electrical Lines	SBP130
Aluminum Box	SBP131
Lid Holder	SBP132
Wing Nut	SBP133
Nipple ½ - ½	SBP134

# WARRANTY

## SIX MONTH LIMITED WARRANTY

Hi-Tech Systems (HTS) will repair or replace, at its expense and its option, any part of the SB2005 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 of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by HTS.