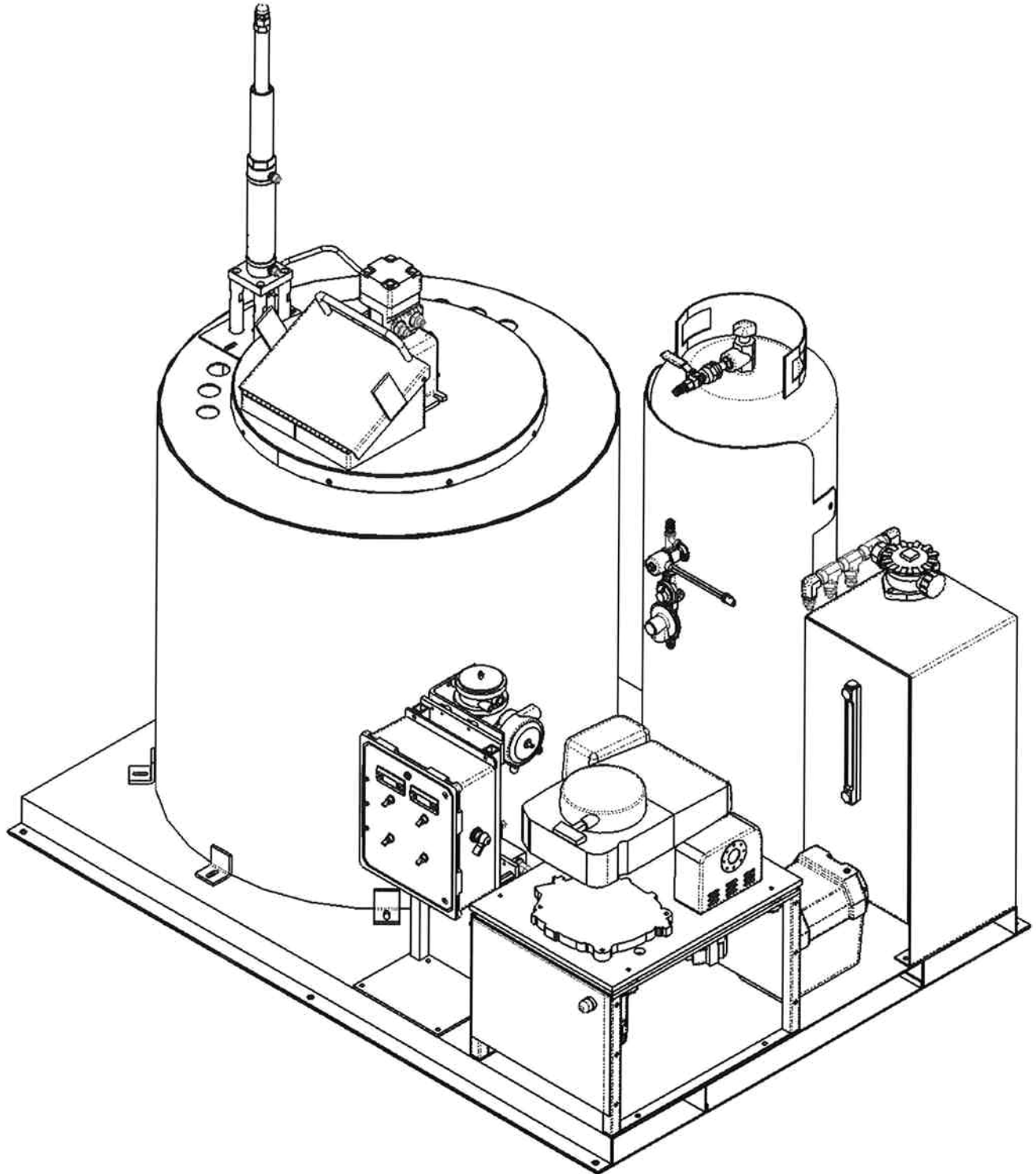


BIGSHOT BITUMINOUS APPLICATOR

SERIAL # BS10331 AND UP



Dispensing Technology Corporation

5345 N. Commerce Ave. #1 Moorpark, CA 93021
805-529-7733 Tel 805-529-7732 Fax www.dispensingtech.com



Warning

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.



Caution

This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.



WARNING

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, give DTC a call.
- Do not alter or modify the equipment. Only use parts that are compatible with this machine.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure of the lowest rated component in each of the following system. The maximum working fluid pressure of the fluid spray system is 500 PSI. The maximum rated pressure of the hydraulic system is 400 PSI. **NEVER EXCEED 400 PSI HYDRAULIC PRESSURE AS HOSE DAMAGE AND BURSTING COULD OCCUR.**
- **Always wear protective eyewear, gloves, clothing, and respirator as recommended by the fluid and solvent manufacturer.**
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.



WARNING



PERSONAL PROTECTIVE EQUIPMENT

You must wear proper protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing protection
- Always have adequate ventilation for task being performed



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or the skin, inhaled, or swallowed.

- Read Material Safety Data Sheet (MSDS) to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.



INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce the skin. This may look like just a cut, but it is a serious injury that can result in amputation. **GET IMMEDIATE MEDICAL ATTENTION!**

- **Do not** point the gun at anyone or at any part of the body.
- **Do not** put your hand over the spray tip.
- **Do not** stop or deflect leaks with your hand, body, glove, or rag.
- Use the lowest possible pressure when flushing, priming, or troubleshooting.
- Engage trigger safety lock when not spraying.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately. High-pressure hose cannot be re-coupled; replace the entire hose.



Burn Hazard

Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.

DAILY STARTUP

BEFORE STARTING ENGINE

1. Check propane fuel level and fill tank if necessary. Use only vapor withdrawal type bottle with the BigShot Applicator.
2. Check oil level in engine and add as needed. Use oil rated **HD 30 only**. Engine is equipped with a low oil level alarm. If high pitched oil alert alarm is heard, stop engine immediately and add oil to the proper fill level. Catastrophic engine damage may occur if engine is operated while oil alert alarm is sounding.
3. Check oil level in hydraulic reservoir, add oil as needed. Only use oil rated ISO 46 and fill until oil is visible in the site glass but not more than $\frac{1}{2}$ the height of the site glass.
4. Check material reservoir and add material if needed. Tank should be no more than $\frac{1}{3}$ full for quickest startup. Do not operate unit with material below the sensor probe (approximately 4").
5. Close material tank lid and be sure that agitator stop switch is actuated if machine is equipped with one (Agitator stop switch is an optional item).
6. Turn ON propane battle valve and $\frac{1}{4}$ turn safety shutoff valve located at bottle outlet.

START-UP

1. Be sure control box switch is in the OFF position prior to starting engine. Also be sure all switches on the front panel of the control box are in the OFF position.
2. Pull choke lever to the full ON position and depress starter button on side of power pack.
3. Continue holding choke in the full ON position until engine starts.
4. Release choke lever when engine starts.
5. Allow engine to warm up for a few minutes before turning ON the control box.
6. When engine has warmed up for several minutes turn the control box to the ON position
7. The temperature controller displays will illuminate and display the actual temperature at the sensors.

NOTE

The display will always indicate the actual process temperature unless you are in the SET mode as described below.

8. Adjust the temperature set points as desired. To adjust the set point, press the SET button on the front of the controller twice in rapid succession. You can now use the UP/DOWN arrow keys to adjust the set point higher or lower.

REMEMBER, NEVER EXCEED 400 DEGREES ON THE HOSE TEMPERATURE OR 425 DEGREES ON THE MATERIAL TEMPERATURE.

9. When you have the temperature set points adjusted as desired wait approximately one minute and the actual temperature will be displayed again. You may also press the function key above the set point key twice in rapid succession to return to the actual temperature indication.

STARTING THE BURNER

1. When the temperature is adjusted as desired, turn the material switch to the ON position. The ignition system will start (clicking sound) and the burner will ignite. Also the green light on the material toggle switch will illuminate. This light will normally be ON only when the controller is calling for heat.
2. Now turn the agitator switch to the ON position. The green light on the agitator toggle switch will illuminate. The agitator will start to turn automatically when the material has softened around the edges sufficiently.

STARTING THE HEATED HOSE

1. The hose will require approximately 20 minutes to come up to temperature. Approximately 20 minutes before you are ready to use the machine, turn the hose toggle switch to the ON position. The green light on the material toggle switch will illuminate. This indicates that the controller is calling for heat. Allow hose to reach the temperature set point prior to dispensing material.

2. DISPENSING ADHESIVE

When the material and the hose have come up to temperature you are ready to begin dispensing.

REMEMBER, HOT MELT MATERIALS CAN CAUSE SERIOUS BURNS. ALWAYS WEAR GLOVES, SAFETY FACE SHIELD AND LONG SLEEVE SHIRT, AS WELL AS ANY OTHER SAFETY EQUIPMENT APPROPRIATE FOR YOUR SPECIFIC OPERATION.

1. Adjust the pump shot size to the desired output by loosening the locknut located at the top of the pump motor and turning the shot adjuster to increase or decrease the material output as desired. Turn the adjuster **CLOCKWISE TO DECREASE** material output or **COUNTER-CLOCKWISE TO INCREASE** material output.
2. Be sure that the **TRIGGER SAFETY SWITCH** is in engaged. Turn the pump switch to the **ON** position. Disengage trigger safety and dispense a sample shot of material back into the melter lid or into an appropriate waste container. Adjust shot size desired.
3. Point dispense wand at the spot on ground that you desire material. Duckbill tip should be several inches off of the ground. Pull trigger fully until material stops flowing. Release trigger and place marker.

ALWAYS ENGAGE TRIGGER SAFETY LOCKOUT AND TURN PUMP TO THE OFF POSITION WHEN NOT DISPENSING MATERIAL AND WHEN ADJSUTING OR CHANGING THE DUCKBILL VALVE.

ADDING MATERIAL TO THE MELTER

Extreme care should be used when adding material to the melting tank to avoid being splashed with hot material.

REMEMBER, HOT MELT MATERIALS CAN CAUSE SERIOUS BURNS. ALWAYS WEAR GLOVES, SAFETY FACE SHIELD AND LONG SLEEVE SHIRT, AS WELL AS ANY OTHER SAFETY EQUIPMENT APPROPRIATE FOR YOUR SPECIFIC OPERATION.

1. Open melting tank lid. If unit is equipped with an agitator stop switch(optional) the agitator will stop whenever the lid is open.
2. Place a block material on the open lid. Rapidly in a single motion close lid depositing the material in the tank. Never drop material into the tank with lid in the open position as splashing may occur.

SHUT DOWN PROCEDURE

It is recommended that the melter is left approximately $\frac{1}{4}$ to $\frac{1}{3}$ full when done at the end of the day. This allows a more rapid start up the next time the melter is used.

1. Be sure to engage the trigger safety lock. Stow hose securely for travel.
2. Turn the melter, hose, pump and agitator switches on the front of the control panel to the OFF position.
3. Turn the main control unit power switch on the side of the control box to the OFF position.
4. Turn the $\frac{1}{4}$ turn ball shutoff valve at the propane bottle to the OFF position.
5. Turn the propane bottle valve clockwise to the fully off position.
6. The unit is now ready for overnight storage

MAINTENANCE

PLEASE REFER TO THE INDIVIDUAL EQUIPMENT MANUALS FOR COMPLETE SERVICE AND MAINTENANCE INTERVALS AND PROCEDURES.

DAILY OR EVERY 10 HOURS

- Check oil level in engine and add as needed.
- Check hydraulic oil level in reservoir, add oil as needed.
- Inspect entire machine for leaks, spills worn hoses, loose nuts and bolts etc.

Every 50 hours

- Change engine fluid and filter.
- Inspect and check tension on alternator drive belt.

EVERY 12 MONTHS OR 1000 HOURS OF OPERATION

- Change hydraulic fluid and filter.
- Change agitator drive belt and re-tension.

FLUIDS

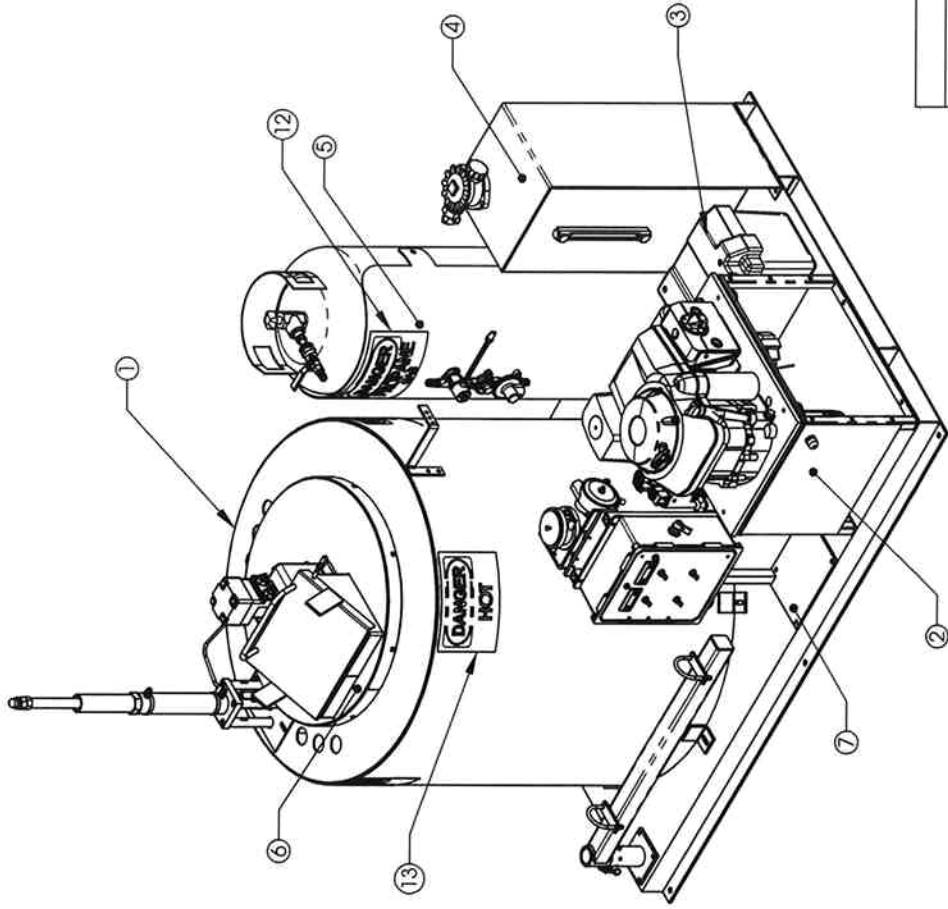
13 HP Honda Propane Ready

H D 30 rated engine oil.

Hydraulic Fluid

DTE 25, Tellus 6 or equal

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	010-10088	MELTER PUMP ASSEMBLY	1
2	010-10091	ENGINE, PUMP & GENERATOR ASSY.	1
3	020-10171	PROPANE Battery Box 10-1/8" H X 11-1/8" W X 7-3/4" D Inside, Polypropylene	1
4	110-10026	HYD RESERVOIR ASSY	1
5	170-10039	PROPANE TANK ASSY	1
6	010-10107	AGITATOR & LID ASSY	1
7	010-10108	CONTROL BOX	1
8	010-00123	BITUMINOUS HOSE SUPPORT	1
9	020-10183	BATTERY TERMINAL, 8MM STUD	1
10	020-10163	BATTERY TERMINAL, 5/16" STUD	1
11	020-10168	BATTERY	1
12	010-00023	WARNING SIGN, PROPANE	1
13	010-00024	WARNING SIGN, HOT	4
14	010-10159	HYDRAULIC MANIFOLD	1
15	020-10186	125 AMP FUSE	1
16	020-10188	INSULATION NUT	1



PART NO. 010-10090	
Dispensing Technology Corporation Moorpark, CA	
TITLE BITUMINOUS APPLICATOR 500 LB CAPACITY	
SIZE B	DWG NO. 010-10090
REV. B	SHEET 1 OF 1
APPROVALS	DATE
DRAWN	
CHECKED	
APPROVED	
REVISED	
DO NOT SCALE DRAWING	
SCALE 1:12	

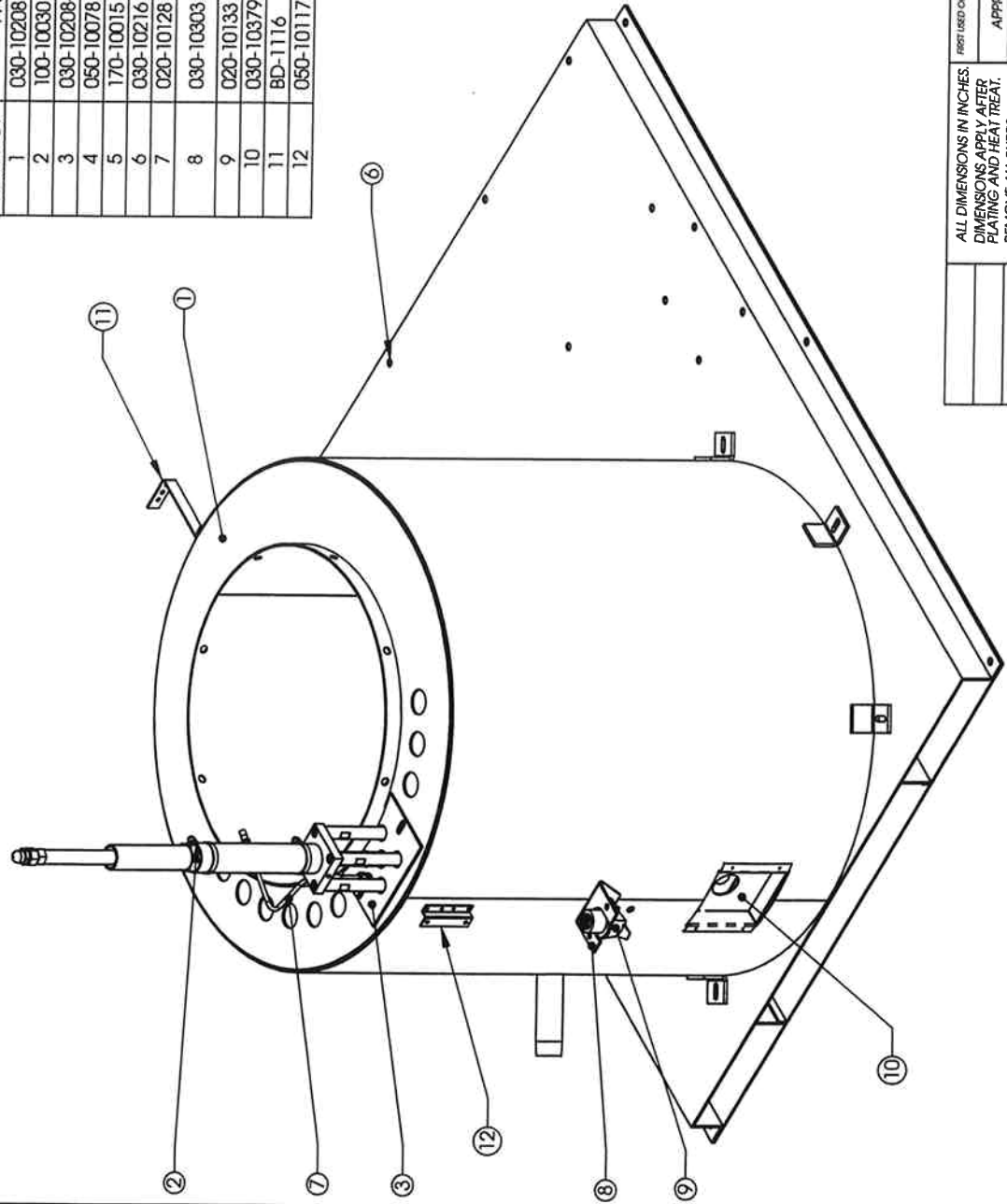
ALL DIMENSIONS IN INCHES.
DIMENSIONS APPLY AFTER
PLATING AND HEAT TREAT.
REMOVE ALL BURRS.
BREAK ALL SHARP EDGES.
TOLERANCES: X.XX ± .01
X.XXX ± .005
X° ± .5°

1. MAT'L.

NOTES: UNLESS OTHERWISE SPECIFIED

WHERE USED

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	030-10208	500 LB MELTER PUMP ASSEMBLY	1
2	100-10030	PUMP ASSEMBLY	1
3	030-10208-12	COVER PLATE	1
4	050-10078	BRONZE BUSHING, 1 X 1.25	1
5	170-10015	PROPANE BURNER ASSEMBLY	1
6	030-10216	MOUNTING SKID	1
7	020-10128	THERMOCOUPLE SENSOR ASSY	1
8	030-10303	CONNECTOR MOUNTING BRACKET	1
9	020-10133	ELECTRICAL CONNECTOR, 7 PIN	1
10	030-10379	HEAT SHIELD	1
11	BD-1116	BD-1116	1
12	050-10117	REGULATOR MTG BRACKET	1

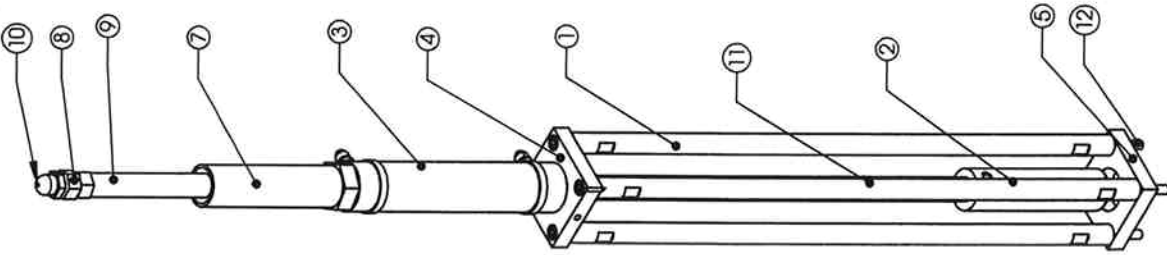


PART NO. 010-10088	
Dispersing Technology Corporation Moorpark, CA	
MELTER PUMP ASSEMBLY	
DATE	15-07-2006
APPROVALS	
DRAWN	
CHECKED	
APPROVED	
ISSUED	
DO NOT SCALE DRAWING	SCALE 1:24
SIZE	B
DWG. NO.	010-10088
REV.	B
SHEET 1 OF 1	

ALL DIMENSIONS IN INCHES
DIMENSIONS APPLY AFTER
PLATING AND HEAT TREAT.
REMOVE ALL BURRS.
BREAK ALL SHARP EDGES.
TOLERANCES: X.XX ± .01
X.XXX ± .005
X° ± .5°

1. MAT'L.
NOTES: UNLESS OTHERWISE SPECIFIED

WHERE USED



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	030-10189	PUMP TIE RODS	4
2	100-10028	PUMP PISTON	1
3	H-316-DUZ	HYDRAULIC DRIVE CYLINDER	1
4	030-10204	CYLINDER MOUNTING PLATE	1
5	100-10032	PUMP PLATE	1
6	080-10009	TEFLON O-RING	1
7	030-10205	ADJUSTER GUARD	1
8	030-10207	HEAVY NUT 5/8-11 NC	1
9	030-10206	SHOT ADJUSTER	1
10	050-10069	ACORN NUT	1
11	030-10211	PUMP DRIVE ROD	1
12	SSCUPSKT 0.375-16x2.5-HX-N	SHSS, .375-16 X2.5 LONG	4
13	050-10071	SHIM WASHER, 1.25 X 1.75 X .015 THK SS	1
14	050-10070	SHIM WASHER, 1.25 ID X 1.75 OD X .010 THK SS	1
15	B12404-06-04	NIPPLE, 6 JIC X 4 MPT	2
16	Socket Head Cap Screw_AI		4

PART NO. 100-10030

Dispensing Technology Corporation
Moonpark, CA

PUMP ASSEMBLY

DWG NO. 100-10030

REV. A

DATE 21-02-2005

APPROVALS

DRAWN

CHECKED

APPROVED

ISSUED

DO NOT SCALE DRAWING

SCALE 1:1

SHEET 1 OF 1

ALL DIMENSIONS IN INCHES.
DIMENSIONS APPLY AFTER
PLATING AND HEAT TREAT.
REMOVE ALL BURRS.
BREAK ALL SHARP EDGES.
TOLERANCES: X.XX ± .01
X.XXX ± .005
X° ± .5°

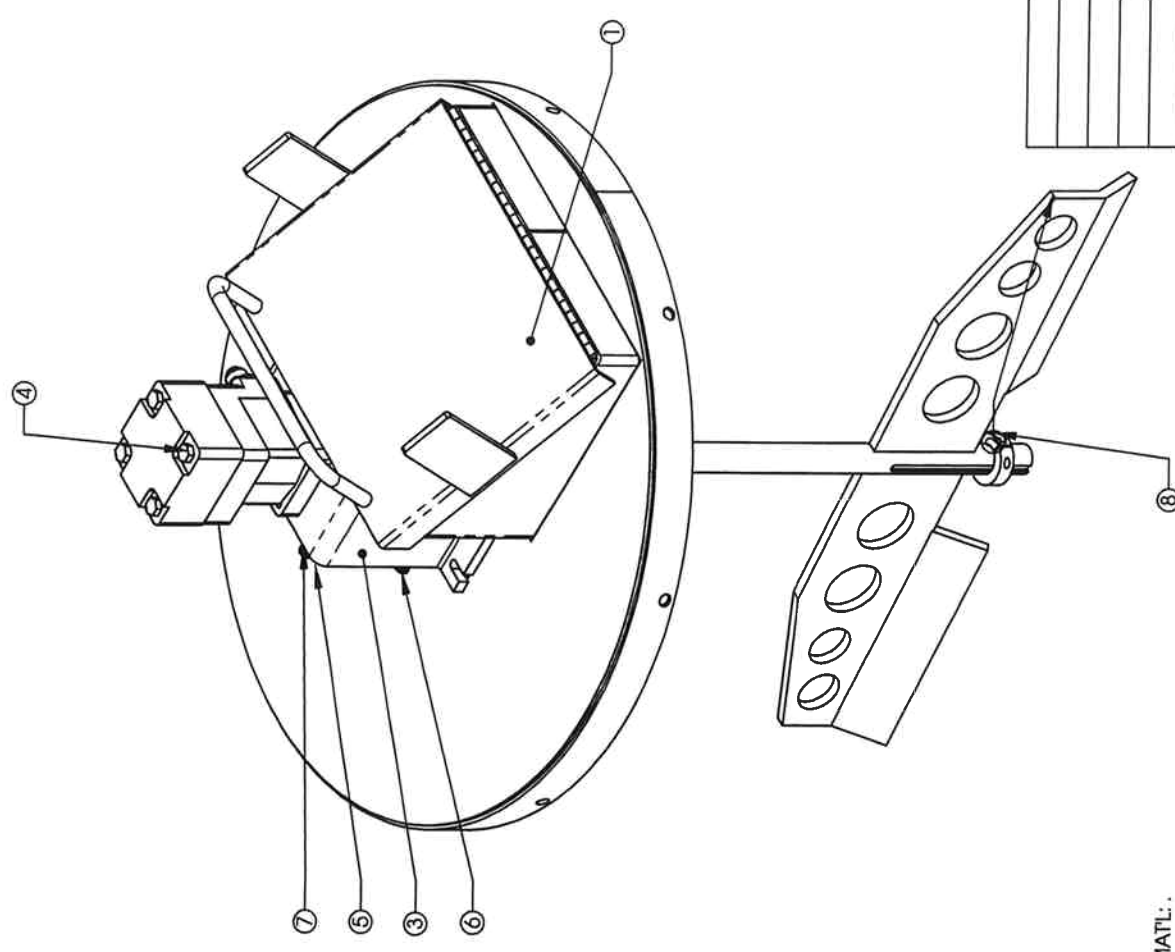
WHERE USED

1. MAT'L: .
NOTES: UNLESS OTHERWISE SPECIFIED

ITEM NO.	ID	DESCRIPTION	QTY.
1	030-10209	MELTER LID	1
2	030-10212	AGITATOR, 500 LB MELTER	1
3	030-10213	AGITATOR MOTOR BRACKET	1
4	090-10034	AGITATOR DRIVE MOTOR	1
5	030-10214	AGITATOR COVER PLATE	1
6		1/4-20 X 1.5 LING HH BOLT	4
7		1/4 SPLIT LOCK WASHER	4
8	050-10034	SPLIT SHAFT COLLAR, 1"	1
9	050-10075	BEARING, 1" ID 2 BOLT FLANGE	1
10	B16400-6-10-O	NIPPLE, 6 JIC X 10 ORB	1
11	B16400-08-10-O	NIPPLE, 8 JIC X 10 ORB	1
12	050-00164	COUPLING	1

6407KAZ

(050-10177)6407K5Z chain



PART NO. 010-10107	
Dispensing Technology Corporation Moorpark, CA	
LID & AGITATOR ASSY	
DATE 04-02-2006	DWG. NO. 010-10107
REV. B	REV. B
DO NOT SCALE DRAWING	
SCALE 1:4	
SHEET 1 OF 1	

ALL DIMENSIONS IN INCHES
DIMENSIONS APPLY AFTER
PLATING AND HEAT TREAT.
REMOVE ALL BURRS.
BREAK ALL SHARP EDGES.
TOLERANCES: X.XX ± .01
X.XXX ± .005
X" ± .5"

WHERE USED

1. MATL.
NOTES: UNLESS OTHERWISE SPECIFIED