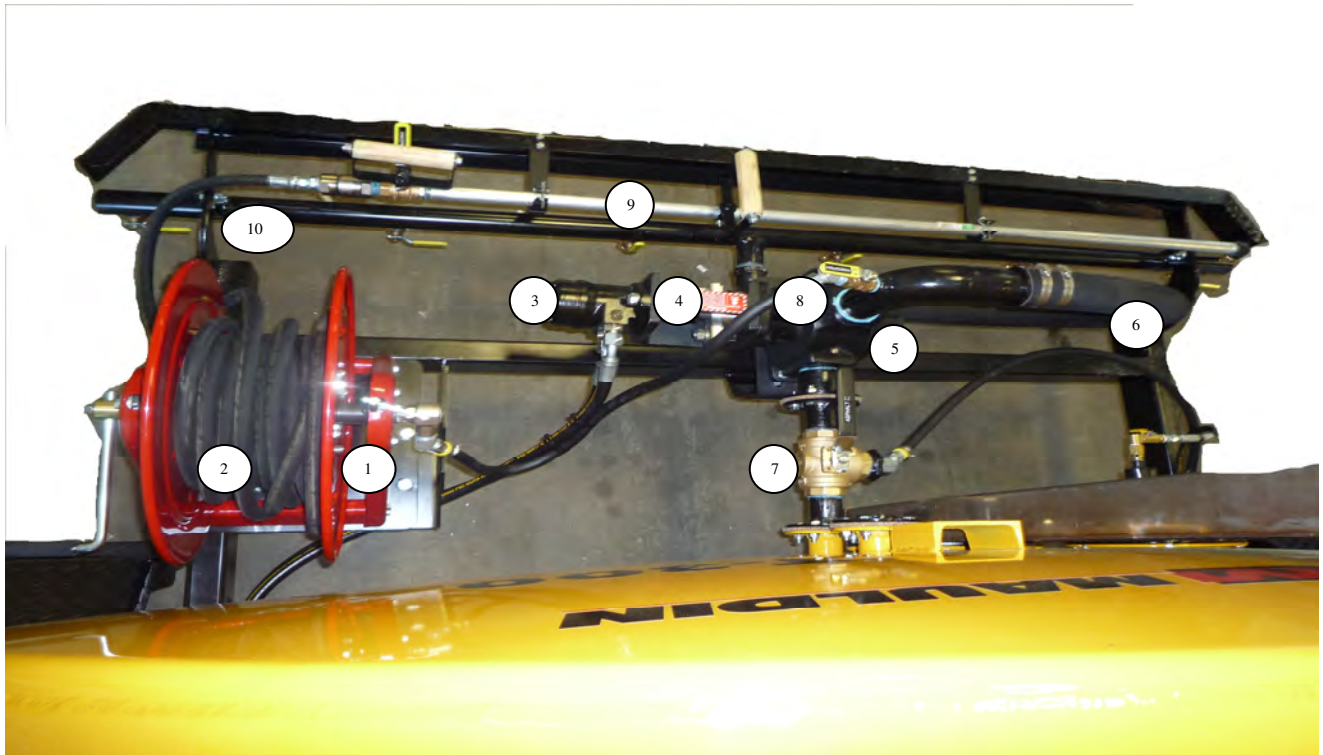




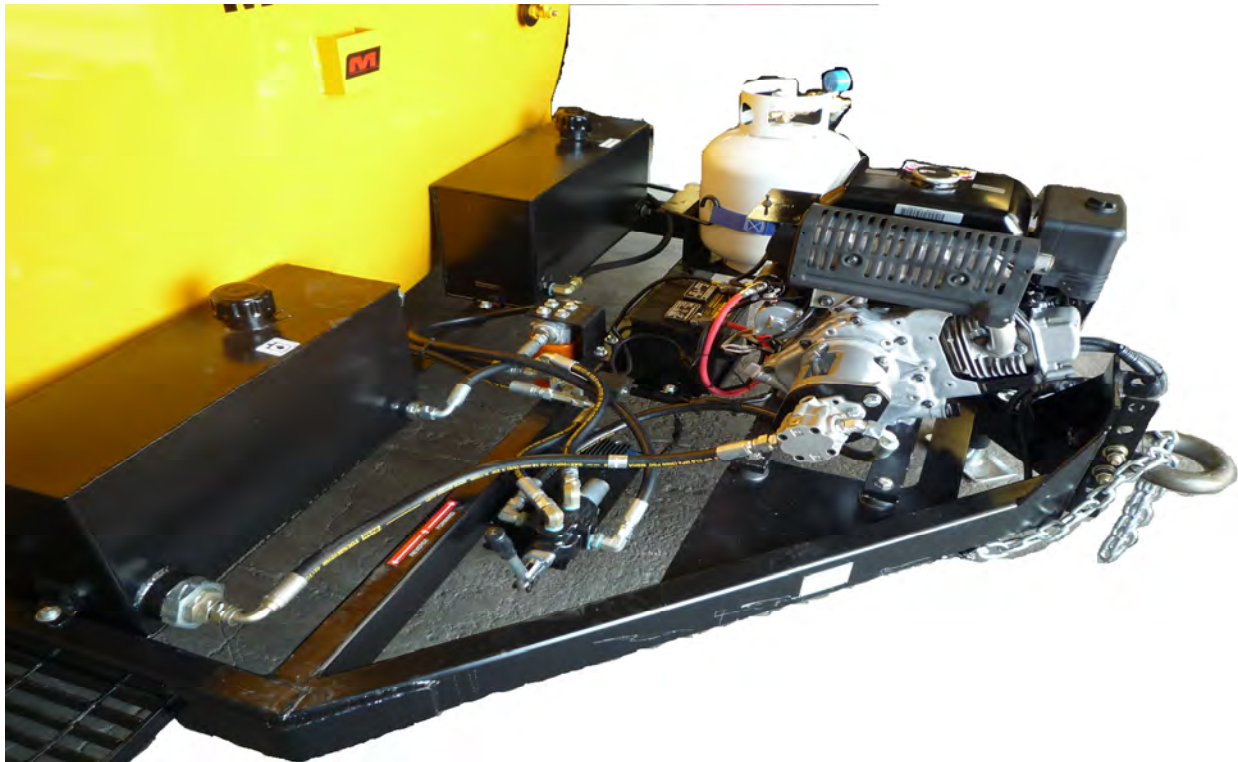
***PARTS & OPERATION MANUAL***  
***MODEL MT-300 / MT600***

**SOLD & SERVICED BY**





1. Hose Reel .....	050-0723
2. Asphalt Hose (Reel) .....	014-0046
3. Motor, Hydraulic .....	124404
4. Coupling, Motor to Pump.....	125422-1
5. Asphalt Pump .....	011-0252
6. Asphalt Hose .....	123564
7. Valve, Ball Large .....	130010
a. Gasket, Flange .....	123-123593-1
8. Valve, Ball Small .....	122463
9. Handspray Wand Assy.....	123250
a. Nozzle.....	123484
b. Vavle, Handle .....	123058
10. Spray Tube Assy .....	130257
a. Nozzle (X6) .....	123484
b. Valve, Ball (x6).....	122463



10. Engine, Kohler CH185.....	010-0275
11. Pump, Drive Hydraulic.....	013-0007
a. Coupling, Pump.....	015-0119
b. Chain, Coupling.....	015-0044
c. Coupling, Engine.....	015-0033
12. Propane Tank.....	050-0049
a. Regulator.....	050-0049
b. Strap, Tank.....	010-0649
13. Filter, Hydraulic.....	021-0002
14. Head, Filter.....	021-0087B
15. Valve, Spray.....	
a. Body.....	017-0126
b. Cartridge.....	017-0022
c. Coil.....	017-0127
16. Tank, Hydraulic.....	130325
a. Cap, Tank.....	050-0522
17. Tank, Cleanout.....	130325-1
18. Valve, Selector.....	017-0003
19. Battery.....	020-0500
a. Cable (Negative).....	020-0318
b. Cable (Positive).....	020-0361

## OPERATION INSTRUCTIONS

*MT300/ MT600*

### Heating instruction

*MT300/ MT600*

- Open propane tank and set regulator to @5 PSI.
- Open valve at propane burner(s) on rear of tank while using a striker to light gas.
- After the burner is going return the front of the tank and turn the regulator up to 8-12 PSI.
- ***Burners shall not be left un-attended! You are responsible to turn them off when desired temperature is achieved. (This is usually 120 –140 degrees F.)***

### Hand Spray Instruction

*MT300/ MT600*

- At the front of the unit move the pump direction lever into the “Forward.”
- At the back of machine open hand spray wand valve and use your hand spray wand valve on the wand to regulate pressure. (start with engine @ idle)
- When finished spraying, turn hand spray “wand valve” off and replace it to the holder to return to tank.
- Close the hand spray tank valve.
- AT the front of machine turn pump selection switch to “Neutral.”

### Spray bar Instructions

*MT300/ MT600*

- On units equipped with spray bar
- At the front of the machine (with the engine @ idle) pull the pump direction lever to “Forward” position.
- To spray – Position the trailer to the area you wish to spray, turn your headlight switch to on and the spray bar will began to spray. (you should try to maintain a vehicle speed of 2-3 MPH while spraying.) to end the spray shut headlights off.
  - If you desire to test or manually turn the spray bar on, there is a switch located on the front of the trailer mounted to the engine.
  - Please note that any vehicle equipped with daytime running lights you need to check that taillights are not on until the headlight switch is on. ***(Standard daytime running lights equipped on most new vehicles turns only the headlights only. The taillight on wire controls the spray bar.)***

## **Clean Out Instruction**

*MT300/ MT600*

- At the front of the machine pull the pump valve lever to “Reverse” (speed up engine to high idle)
- At rear of machine close your hand spray “tank valve”, then open your hand spray “wand valve” until you hear air sucking through the end. Close and open the hand spray “wand valve” a few times to ensure as much material is removed as possible.
- Close the hand spray valve.
- With the selector valve still in reverse, (high idle) at the front of the machine turn the spray switch to “On.” This will do the same as sucking air in your hand spray wand only it will suck air in the bar. Do this a few times also to ensure as much material is removed as possible.
- At the front of the machine pull the pump direction lever to “Neutral.” (RETURN ENGINE TO IDLE)
- If desired, you can introduce clean out material into the lines for storage. To do this at the rear of the machine at the inlet of the asphalt pump turn that lever to “Clean Out.”
- At the front of the machine pull the pump direction lever to “Forward.” You will now be introducing clean out solvent to the bar switch on the spray switch until the clean out solvent gets to the nozzles, then shut the switch off.
- Next open hand spray valve and open wand until clean out solvent spays through nozzle, close wand, return hand spray valve to closed position.
- Leave the “Clean Out” lever in the clean out direction, to assure tack does not gravity feed into the pump.
- Turn the pump direction valve to “Neutral” and your machine is ready for overnight or long term storage.

**Note:** be sure to stop the engine whenever the machine is not in use. This will increase the life of the hydraulic components.

For any further questions please contact your Dealer or Mauldin representative

## OPERATION INSTRUCTIONS

*MU-300/ MU-600*

### Heating instruction

*MU-300/ MU-600*

#### Diesel Burner

- The burner control box is located at the rear street side of the machine, attached to the tank.
- Voltage is provided to the thermostat first so the thermostat must be set to your desired temperature. (See recommended material temps addendum “A” of this manual)
- After desired temperature is set turn the diesel blower switch to on position. (You will here the blower fan turn on.)
- To light the burner turn the fuel switch to the on position. (The burner should light and you will here it and see fumes emitting from the exhaust stacks.)
- When material the reaches the desired temperature the burner will shut off automatically. It also turns on automatically if material falls below the desired temperature.
- After using the burners leave the blowers going with the fuel off for @ 5 minutes. This will allow the heating tubes to cool at a steady speed so that the life of the tubes can be extended.
- ***The machine should not be left un-attended while burners are running! If the thermostat would fail you are responsible to turn them off when desired temperature is achieved.***

#### Hand Spray Instruction

*MU-300/ MU-600*

- At the front of the unit (with engine at idle) select “Auto” on the pump direction selection switch.
- At the back of machine open hand spray valve and use your hand spray “wand valve” on the wand to regulate pressure.
- When finished spraying, turn hand spray “wand valve” off and replace it to the holder to return to tank.
- Close the hand spray tank valve.

## **Spray bar Instructions**

*MU-300/ MU-600*

- At the front of the machine (with the engine @ idle) put the pump direction switch to the “Auto” position.
- To spray – Position the trailer to the area you wish to spray, press the “1” button on the key fob and the spray bar will began to spray, to end the spray shut push the “2” button and the bar will shut off. (you should try to maintain a vehicle speed of 2-3 MPH while spraying.)
  - If you desire to test or manually turn the spray bar on there is a switch located on the front of the trailer on the counsel to turn spray on/off.

## **Clean Out Instruction**

*MU-300/ MU-600*

- At the front of the machine (with the engine @ high idle) put the pump direction switch to the “Reverse” position.
- Assure the hand spray selector valve is closed; open your hand spray wand “valve” until you hear air sucking through the end. Close and open the hand spray wand a few times to ensure as much material is removed as possible.
- With the selector valve still in reverse, at the front of the machine turn the spray switch to “On.” This will do the same as sucking air in your hand spray wand only it will suck air in the bar. Do this a few times also to ensure as much material is removed as possible.
- At the front of the machine switch pump selector switch to “Auto”. (RETURN ENGINE TO IDLE)
- At the rear of the machine, assure the spray wand selector valve is off, pull “tank/cleanout valve” to cleanout position.
- At the front of the machine switch the pump direction selector valve to the “forward position. You will now be circulating clean out solvent through the bar and returning it to the cleanout tank. (you may quickly turn the spray on/off to purge the nozzles.) You should let the bar circulate for 2-3 minutes.
- Next open hand spray valve and open wand until clean out solvent spays through nozzle, close wand, return hand spray valve to closed position.
- Leave the “Clean Out” lever in the clean out direction, to assure tack does not gravity feed into the pump.
- Turn the pump direction switch to “Neutral” and your machine is ready for overnight or long term storage.

## **Purging and clean out tank Instruction**

*MU-300/ MU-600*

- After using clean out material 5 to 10 times it is recommended to drain solids from the bottom of the cleanout tank. This should be done in prior to using the machine while all materials are cold.
- Open the plug in the bottom of the tank and let the thick material drain out into a pan or bucket, until the clean out solvent starts to run free, than close the plug.
- It is recommended that the thick material be returned to the asphalt tank by putting the machine in the reverse mode and sucking it into the tank with the spray wand.

For any further questions please contact your Dealer or Mauldin representative



ADDENDUM "A"

**Guideline Temperatures for common liquid Asphalts**

Type & Grade <u>Asphalt Cements</u>	Spraying Temperature		Type & Grade <u>Cutback Asphalts</u>	Spraying Temperature	
	Deg. C	Deg. F		Deg. C	Deg. F
AC-2.5	130	270	MC-30	30	80
AC-5	140	280	MC-70	50	120
AC-10	140	280	MC-250	75	165
AC-20	145	295	MC-800	95	200
AC-40	150	300	MC-3000	110	230
AR-1000	135	275	RC-70	50	120
AR-2000	140	285	RC-250	75	195
AR-4000	145	290	RC-800	95	200
AR-8000	145	290	RC-3000	110	230
			SC-70	50	120
PEN 40-50	150	300	SC-250	75	160
PEN 60-70	145	295	SC-800	95	200
PEN 85-100	140	280	SC-3000	110	230
PEN 120-150	130	270			
PEN 200-300	130	270			

**Emulsified Asphalts**

RS-1	20-60	70-140
RS-2	50-85	125-185
HFRS-2	50-85	125-185
MS-1	20-70	70-160
MS-2	20-70	70-160
MS-2h	20-70	70-160
HFMS-1	20-70	70-160
HFMS-2	20-70	70-160
HFMS-2h	20-70	70-160
HFMS-2s	20-70	70-160
SS-1	20-70	70-160
SS-1h	20-70	70-160
CRS-1	50-85	125-185
CRS-2	50-85	125-185
CMS-2	20-70	70-160
CMS-2h	20-70	70-160
CSS-1	20-70	70-160
CSS-1h	20-70	70-160

These recommendations are provided by "The Asphalt Institute" and advise the minimum spray temperatures for safety.