

# DCD-M30 Adhesive Spray System

en Product Manual



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**ADOfil™**

# Safety



*Warning! If you use this fluid dispensing equipment without first reading and understanding the information in this guide, personal injury can result from the uncontrolled release of high-pressure gas, injection or exposure to chemicals.*

## GENERAL SAFETY CONSIDERATIONS

All users of Adofil's Adhesive Spray Systems should read and understand this user manual before using the equipment.

## SPECIFIC SAFETY CONSIDERATIONS

### Using Safe Operating Pressure

Pressurizing the components in the dispensing system beyond the maximum recommended pressure can result in the rupturing of the components and serious personal injury. To minimize the risk of rupturing components and injury, do not exceed the maximum operating pressure of the components in your fluid dispensing system.

### Preventing Injection Injury

- Discharging fluids or compressed air with a dispensing tip against your skin can cause very serious injection injury. To minimize the risk of injection injury, do not place the dispensing tip in contact with your skin.
- Never lift the top lid when the tank is pressurized.
- Before every operation, check that safety relief valve is functioning properly.
- Do not try to modify the pressure tank by drilling or welding processes.

## Service

Have your dispensing system serviced or replacement of any damaged part should be done by Adofil authorized technician. This will ensure that safety of system is maintained.

## MAINTENANCE AND CLEANING

1. Compressed air pressure should not exceed 10 bar (145Psi). Otherwise, it will cause negative effects (damage to objects or injury to the user).
2. Make certain air supply is clean and dry.
3. Dispensing liquid should be kept above 5°C to avoid change in density. Otherwise, the syrup will be hard to dispense and proper dots can not be formed.
4. Clean the dispensing tip and connector regularly.
5. Avoid turning barrels upside down or lay down on its side. Avoid hit the plastic barrel assemblies with hot or sharp objects.
6. Avoid exposing the dispenser to excessive moisture or solvent.

## WARRENTY

From date of purchase, Adofil offers a one-year warranty against defects in materials and workmanship of all system components (excluding consumables) with proof of purchase and purchase date. Unauthorized repair, modification or improper use of equipment may void your warranty benefits. The use of aftermarket replacements parts not supplied or approved by Adofil will void any effective warranties and may result in the damage of the equipment.

## Product Description and Specifications

### Intended Use

Direct Container Dispenser (DCD) is a uniquely designed system that allow your adhesive container to directly use with our dispenser without need of transferring adhesive from one container to other. This help to reduce loss of adhesive, avoid need to clean main container & refilling time.

### Salient Features

- Steel tank is especially designed to withstand tough use at production line and withstand maximum air pressure. DCM –M30 has capacity to adopt container size of 30 liters.
- Attached castor wheel provide mobility for the heavy system.
- Corrosion proof galvanized.
- Adjustable spray pattern with accuracy.
- Highly precise pressure regulator is installed to control the flow of adhesive medium with desired flow rate.
- Adhesive original container can be directly used with the system.
- High quality pressure relief valve and safety valves are installed for safe operation.
- Easy for maintenance & cleaning of parts.

### System Key elements

- Inline feed spray gun
- System Pressure Regulator
- Stainless steel container with casting wheel
- Fluid and air hose assemblies
- Manual stir system
- Air & adhesive shutoff valve
- Pressure safety valve

### DCD M30 System Requirements

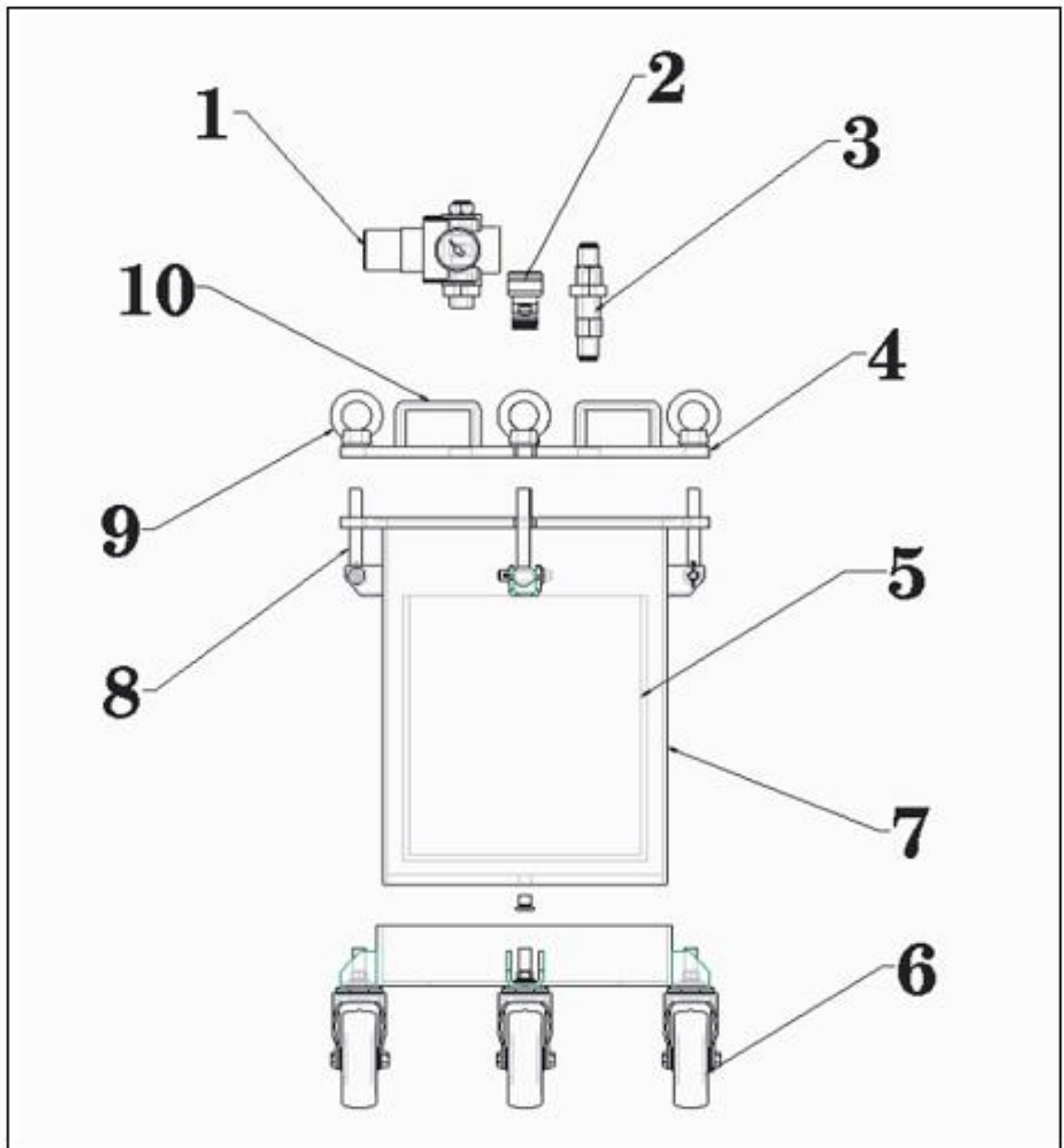
Compressed Air Line	6 Bar max
Air Flow	30 CFM

### Benefits

- Faster cycle and batch time
- Reduced material and maintenance cost
- Easy for maintenance
- Minimal power consumption

### Add-on Accessories (will be available as per customer's request)

1. Pneumatic Controlled suck Valve
2. Pneumatic Controller Unit
3. Syringe Stand
4. Stirrer – to stir the adhesive
5. SS container (available in 5, 10, 25, 30 L capacity)



### Part List

Item	Part Number	Description
1	80122741	Pressure regulator with gauge
2	80122742	Safety Relief Valve
3	80122743	1/2 inch male Connector
4	80122744	Top Plate
5	80122745	10 L Paint/Glue container
6	80122746	3 inch wheel
7	80122747	Pressure Tank
8	80122748	Eye - bolt
9	80122749	Eye - nut
10	80122750	Handle

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## PRODUCT SETTING UP

### ▪ AUTO AND MANUAL MODE

#### **Manual Mode**

Manual mode allows the user to dispense for unlimited amount of time by either pressing down on the supplied foot switch or pushing the SHOT button on the front of DS M55 unit. The material will continue to dispense for as long as the user is pushing down on the foot switch or pressing the SHOT button. As soon as either of these released, the dispensing will stop.

#### **Auto Mode**

Auto mode allows the user to create a repeating cycle of dispensing. This is programmed by setting the dispensing time for a SHOT.

### ▪ Adjustment of duration of a Dispensing Shot.

The dispensing time control notch for a shot is located on the front panel of the unit. The dispensing time can be regulated directly

### ▪ Internal air pressure control

The air pressure regulation knob controls internal air pressure. Air pressure at 0.1-2.7bar (1-40Psi) is normally used.

### ▪ Vacuum control

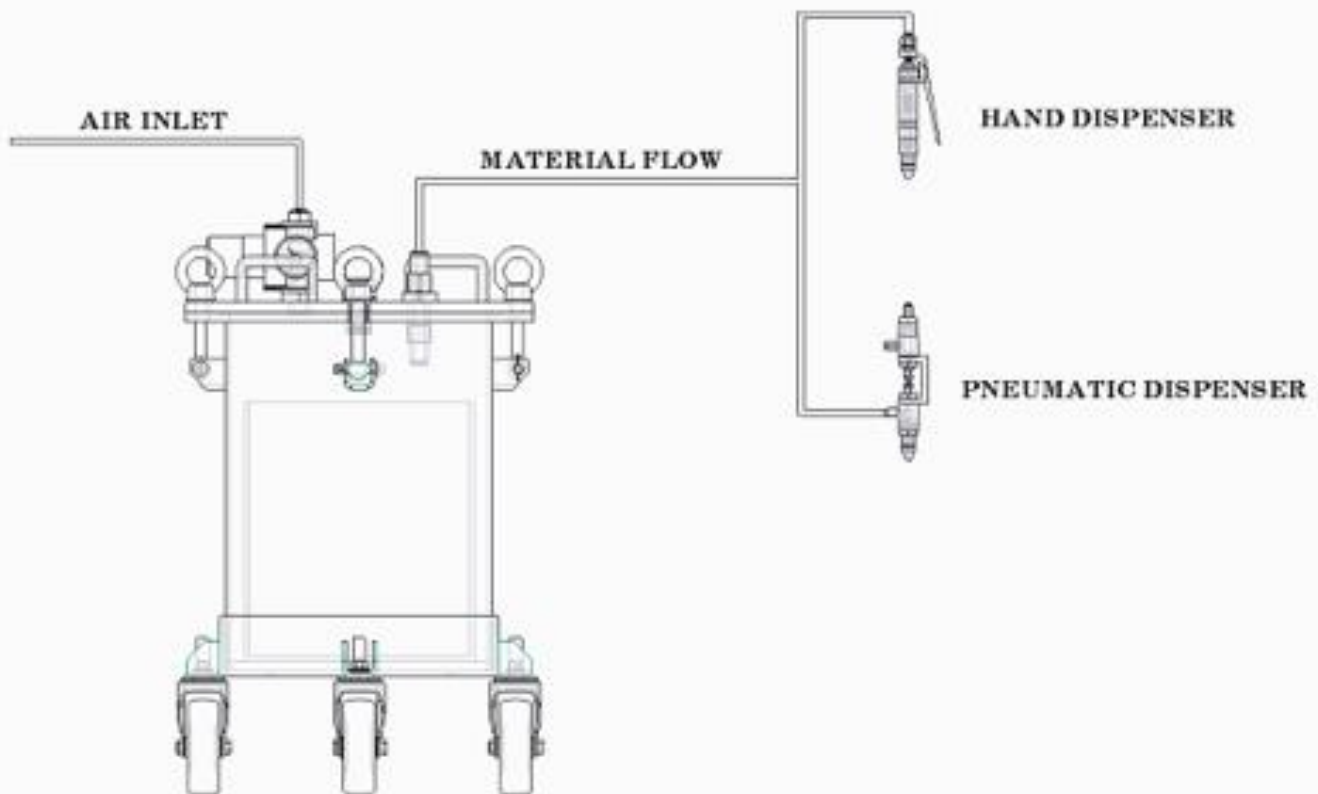
The vacuum control knob regulates the ending dot in the air reflection, avoid connected dots. Turn the knob clockwise will increase air reflection , otherwise, it will decrease.

### ▪ Set up

1. Connect the 7 bar dry and filtered air supply to the unit's air input plug.
2. Fill the barrel with syrup. Make sure the syrup level is not over the limit.
3. Turn the unit "ON" by switching the red power to ON position.
4. Pull the air pressure regulator knob outward and turn clockwise until the desired air pressure is indicated.
5. Set the mode switch to proper position, referring to the adjustment of dispensing time and interval time.

### Helpful hints for making Proper deposit

1. Hold the barrel at approximately 60°C (+ or -20°C) angle (Fig 1)
2. Lift the dispenser barrel vertically after making a drop, as shown (Fig2).
3. Do not let the syrup flow back into the controller as shown in (Fig3).
4. Increase or decrease dot size by either, Increase or decrease time only, Or Increase or decrease pressure only, Or Increase or decrease size of the tip.



## TROUBLESHOOTING

- **Dispenser does not turn on.**

Check the power connector on the back and make sure it is pushed in completely.

- **I hear air leaking.**

The vacuum may be on. Turn the vacuum knob on the front of the unit clockwise until the hissing stops. Also check your air connector fitting in the back of the unit for a tight fit. Use Teflon™ tapes if necessary.

- **Everything is on and seems to be working, but no material dispenses out of the syringe.**

Check the power adapter fitting that connects to the center left of the dispenser back, ensuring it is pushed in all the way. Also check to see that you have air pressure and the gauge is reading above 0 psi.

- **I can't turn the air pressure up or down.**

The regulator knob (large black knob on front of dispenser) is locked. Simply pull out towards you to unlock it. It will turn easily after this is done.

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### **Contact Us**

If you have any question or comments regarding the unit please feel free to contact us by emailing [info@mechstore.com](mailto:info@mechstore.com), phoning our facility at (080) 2339-5090, or logon to our website [www.mechstore.com](http://www.mechstore.com)

### **Disposal**

This machine, accessories and packaging should be sorted for environmental-friendly recycling.

Do not dispose of the dispenser system into household waste!

Subject to change without notice.

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