

THOMPSON DUKE INDUSTRIAL BIG JIM

Patented (United States Patent No. 10,440,989)

The Thompson Duke Industrial Big JIM is a fully automatic Joint Infusion Machine able to infuse a wide range of pre-rolled joints with cannabis extracts. Precision control of the dispense volume, draw speed, and dispense speed for bottom-up filling accurately dispenses extract in the center of the pre-roll joint with an infusing range of 0.05mL to 2.2mL. In addition to infusing pre-rolls the Big JIM is also capable of filling vaporizer cartridges and devices.

Advanced Multi-Variable Dispense System Control

Advanced multi-variable, dual servo dispense system control allows for precise operator tuning of filling variables such as extract core volume, length, and vertical position within the center of the Preroll. Accurately control the infusion extract viscosity by tuning each of the four independent system heaters, as well as the draw speed and dispense speed settings. Adjust the bottom-up filling volumes from 0.05mL to 2.2mL by selecting any of three available dispense system sizes via the touchscreen; 0.5mL, 1.0mL, and 5.0mL. Rapidly transfer between Preroll infusion and cartridge/pod filling operation.

Innovative Versatility

Automatically fill Prerolls as well as cartridges, pods, capsules, syringes and jars. Featuring a large tray table able to accommodate up to 100 Prerolls or 252 cartridges. Refill the large 500mL heated glass extract reservoir during operation. Adjust the dispense capacity precisely up to 2.2mL via touchscreen control. Quickly configure tray arrays for new devices introduced into the market with custom designed trays* available for non-standard devices.

Rapid Extract Formulation Changes and System Cleaning

Replace the food safe, laboratory grade, dispense system components in less than one minute to switch extract formulations. Rapidly clean the dispense components with less than one gram loss.

Optimized Touch Screen Control System

Easily control the filling operation using the simple and intuitive color touch screen. Includes a serpentine filling pattern and ability to control table speed to increase throughput. Variable control for dispense volume, dispense speed, draw speed, draw time, dwell time, needle speed and table speed. Adjust temperature and fill speed on the fly. Monitor operating parameters including Preroll and cartridge tray fill status, real time diagnostics and alarms with complete alarm history.

American-Made, UL508 Certified and Compliant

Designed, manufactured, and distributed from the United States of America. Industrial control system with compliant materials and dispense components adheres to the rigorous Good Manufacturing Practice guidelines required for legal compliance. Stainless steel check valves custom designed and manufactured specifically for extract filling applications. Exceptional customer support available for the lifetime of the machine.

Portable

Lightweight and portable benchtop design only requires 120V AC power for quick and easy setup, and operation, and cleaning.

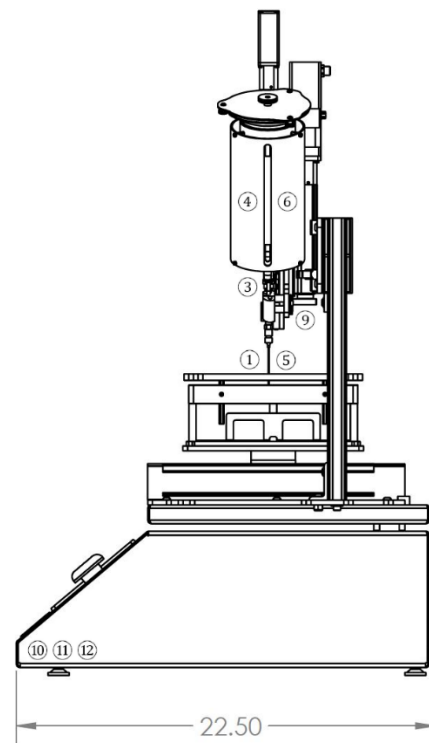
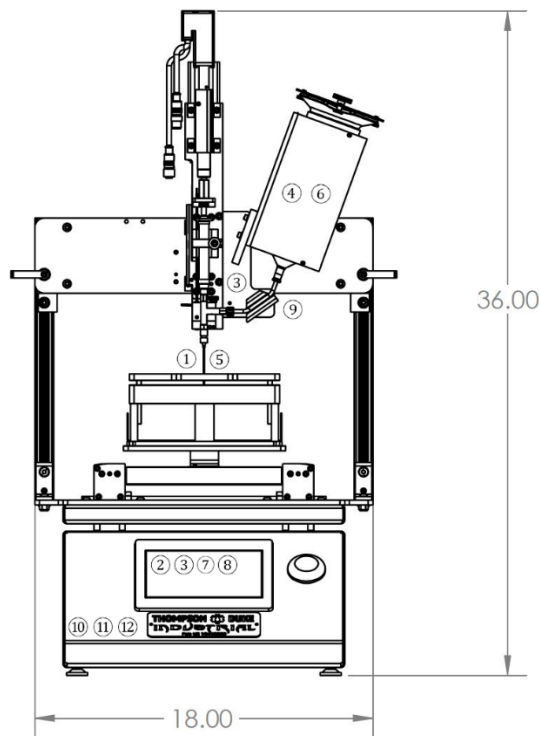
* Custom tooling may be required depending on manufacturer packaging



THOMPSON DUKE INDUSTRIAL

BIG JIM JOINT INFUSION MACHINE

The Thompson Duke Industrial Big JIM is a fully automatic Joint Infusion Machine able to infuse a wide range of pre-rolled joints with extracts.



- ① Automatically infuse pre-rolled joints and fill cartridges, pods, capsules, syringes and jars directly in manufacturer packaging*
- ② Precision control of dispense volume, draw speed and dispense speed for bottom-up infusing ranges between 0.05mL to 2.2mL
- ③ Advanced digital temperature control of full dispense path including product reservoir, dispense tubing, and valve
- ④ Fill high viscosity extracts and distillates with extreme accuracy, precision and repeatability
- ⑤ Minimal product loss during product changeover
- ⑥ Large 500ml glass, heated extract reservoir can be filled during operation
- ⑦ Seven inch touch screen for easy operation and total control of your filling process with new and improved serpentine filling pattern and the ability to control table speed to increase throughput.
- ⑧ System displays for tray fill status and real time diagnostic alarms
- ⑨ Laboratory grade, food safe, replaceable components make switching between products quick and simple
- ⑩ Aluminum construction and stainless steel enclosure
- ⑪ Portable benchtop design with adjustable height
- ⑫ American made and supported

Height	36" MAX
Width	18"
Depth	22.50"
Weight	75 LBS
Ambient Temperature	0-45 C (32-113 F)
Temperature Range of Reservoir	Ambient - 93 C (Ambient - 200 F)
Dispense Volume	0.05mL-2.2mL
Glass Reservoir Capacity	500mL
Working Voltage	120VAC 60Hz Single Phase
Power Consumption	250W
Max Number of Pre-rolls Per Tray	100
Max Pre-roll Height	5.25"
Max Pre-roll Diameter	N/A
Product Loss	<1g

*Custom tooling may be required depending on manufacturers' packaging



THOMPSON DUKE INDUSTRIAL LITTLE JIM

The Thompson Duke Industrial Little JIM is a bolt on apparatus for the MCF1 and SVH Semi-Automatic Filling Machines for infusing a wide range of Prerolls with extracts. Manually control the distribution of the extract core in the center of a wide variety of Prerolls from the bottom-up, and infuse precisely any volume between of 0.05mL to 1.42mL. The Little JIM Joint Infusion Machine is an accurate and efficient solution for any infusion operation.

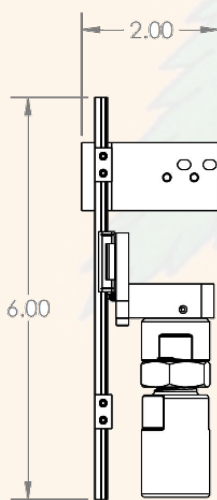
New Functionality and Backwards Compatibility

Turn your existing semi-automatic filling machine into a completely new tool. The Little Jim bolts onto any MCF1 or SVH and converts it into a Joint Infusion Machine. The custom designed, 3D printed apparatus can be changed out with a few screws and accommodates the most common pre-roll formats and folds in the industry. Manually infuse from the bottom up any desired volume from 0.05mL to 1.42.

Little JIM Installed on MCF1



Product Specifications



Height	6" MAX
Width	2"
Depth	1.75"
Weight	1lbs
Operation	Manual
Capacity	1
Number of Pucks Included	2
Max Pre-roll Height	4.20"
Max Pre-roll Diameter	0.5"
Product Loss	<1g

