



# Jet Loader System



The powerful, clean and versatile vacuum loading system that's specially designed to meet the molding industry's toughest requirements.



# MATSUI'S newly developed Jet Loader V and Jet Loader VC vacuum hopper loaders offer real breakthroughs in productivity and efficiency.

Conventional vacuum loaders can be loud and inefficient. The brush type motors used have short life spans and produce high noise levels. The thin pancake type filter is exposed, allowing much of the dust to pollute the plant. Fines and dust also stick to the flapper door causing vacuum loss and other conveying problems. Correcting these problems usually requires a dangerous climb high onto the press.

The Jet Loader features a unique dual dust collection system that consists of one filter in the hopper, and one at the vacuum pump. This innovative dual system effectively removes dust and the problems it causes. It also helps double conveying capacity while using half the power consumed by conventional loaders.

But that's just the start. There are many more reasons to consider the jet loader your number one choice for a powerful trouble-free loading system:

## POWERFUL PUMP

Can handle the big jobs over long distances. The "brushless" motor is designed to last 10 years, and is available in sizes from 1 Hp to 5 Hp.

## CLEAN, SEALED FILTRATION

Keeps dust completely contained. Located at floor level, the filter is easily and safely cleaned.

## QUIET OPERATION

The motor operates without brushes, so it's practically noise free. In fact, levels as low as 68 decibels have been recorded.

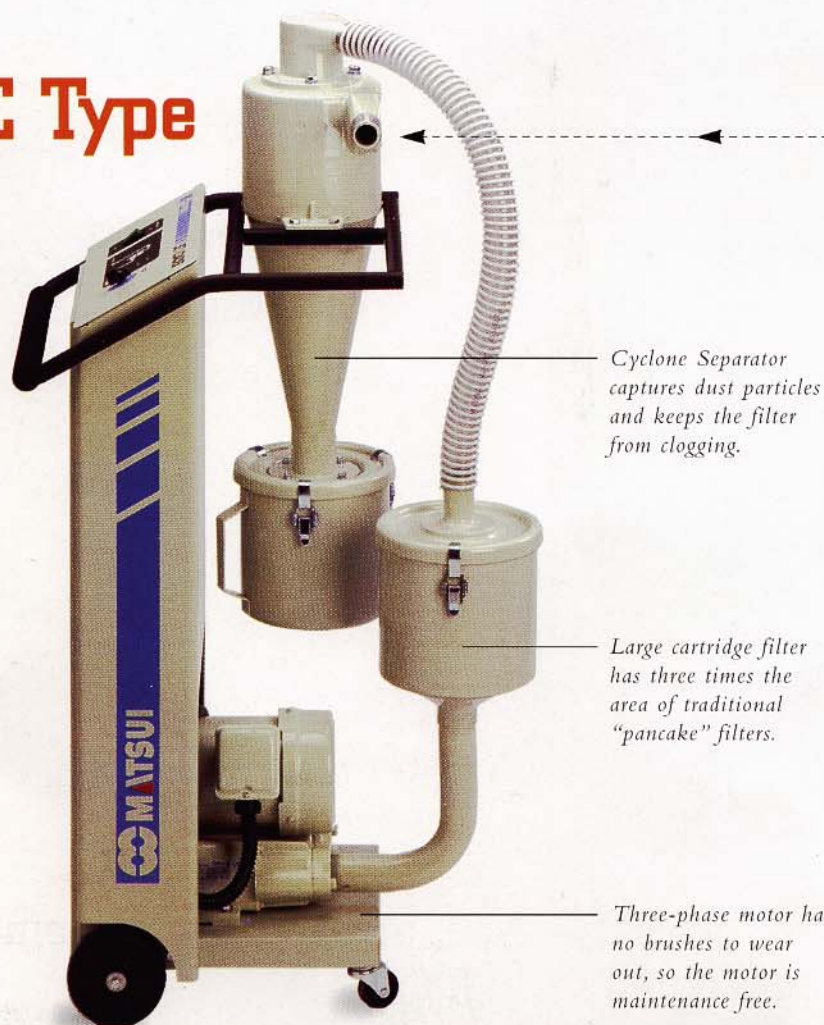
## SAVES ENERGY

Runs on three-phase power, drawing less amperage than conventional single-phase units.

## HIGHLY VERSATILE

The Jet Loader can be quickly moved to wherever it's needed. One Jet Loader can load two hoppers (VII Option). It can handle problem materials such as dusty regrind or processed resins. Different hoppers are available, including Mini "One-Shot" Hoppers and Jet Clones.

## VC Type



*Cyclone Separator captures dust particles and keeps the filter from clogging.*

*Large cartridge filter has three times the area of traditional "pancake" filters.*

*Three-phase motor has no brushes to wear out, so the motor is maintenance free.*



*Stainless steel screen filter effectively separates resin from dust particles by pulling a 360° vacuum.*



# A Full Range of Features and Options Make the Perfect Choice for Your Molding Operation



## **JET CLONE VACUUM HOPPER**

The standard vacuum hopper for the Jet Loader. The Jet Clone is used to load material hoppers and is available in 5-liter, 10-liter and 20-liter capacities. Constructed of stainless steel and aluminum.



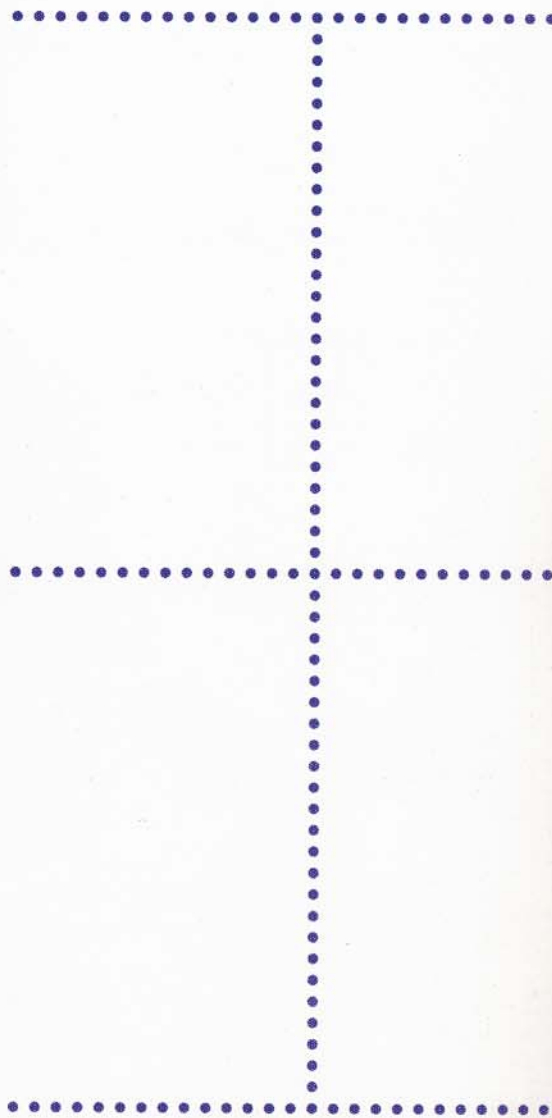
## **MINI VACUUM HOPPER (2L OPTION)**

The MVH-2 is a 2-liter capacity "one-shot" hopper designed to mount on the press throat. A clear glass tube and a proximity sensor are used to maintain a minimum level of resin. Recommended for shots under one pound and for machines under 250 tons. Constructed of stainless steel.



## **MINI VACUUM HOPPER (10L OPTION)**

The MVH-10 is a 10-liter capacity "one-shot" hopper designed to mount on the press throat. A clear glass tube and a proximity sensor are used to maintain a minimum level of resin. Recommended for shots over one pound and for machines over 250 tons. Constructed of stainless steel.



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## **SUCTION NOZZLES**

A Suction Nozzle is standard equipment on the Jet Loader. Two lengths are available: standard and gaylord. An air mixture screen adjustment facilitates smooth conveying.



## **TWO-PORT VALVE (VII OPTION)**

The Two-Port Valve allows one Jet Loader to do the work of two. Switching on demand, vacuum is sequenced between two vacuum hoppers. Any combination of hoppers is possible.



## **CYCLONE SEPARATOR (VC OPTION)**

The Cyclone Separator removes dust and fines from the air stream. Collected particles are dropped into a cup, which is easily cleaned. This separator is ideal for use with regrind or reprocessed resins. Reduces conveying problems and extends filter life.

## **CHOICES**



*The large, pleated filter has more area and a longer life than conventional filters. Kept sealed, no dust will pollute your plant.*



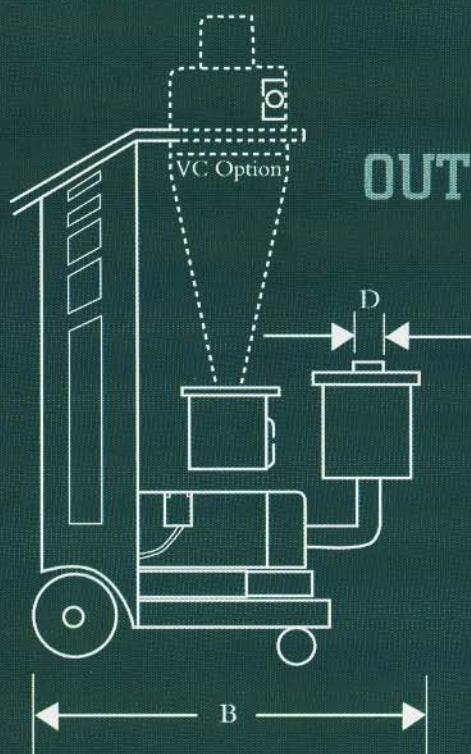
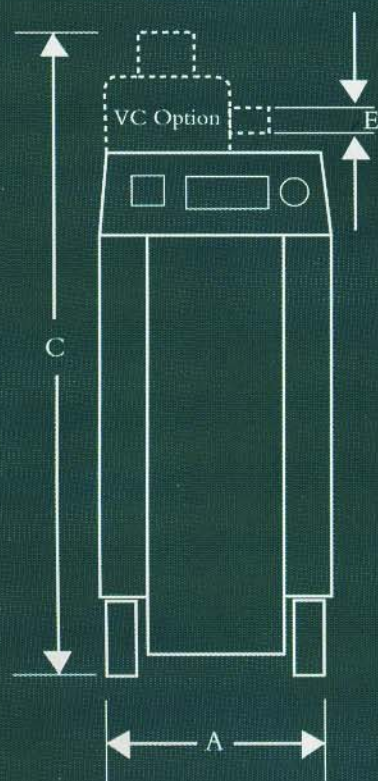
# Jet Loader

## SPECIFICATIONS

Conveying Capacity: Lbs/Hr

Model	Airflow: (CFM)	Motor Output (HP)	15 ft.	30 ft.	50 ft.	80 ft.	100 ft.	Convey Hose I.D.	Suction Hose I.D.	Standard Hopper
JL-4V (VC)	98	1.1	840	550	370	200	180	1.5"	1.5"	JC-5 or 10
JL-5V (VC)	154	2.5	1390	1080	770	550	460	2.0"	2.5"	JC-15 or 20
JL-6V (VC)	206	4.5	1850	1540	1390	1080	930	2.5"	2.5"	JC-20

\* Capacities estimated with a resin weight of 39 Lbs/cu ft., a suction distance of 16 ft, and a 10 ft vertical rise.  
Actual capacities will vary with resin shape, density, the piping layout, and other factors.



## OUTER DIMENSIONS

Dimension	JL-4V (VC)	JL-5V (VC)	JL-6V (VC)
A (inches)	18.5	18.5	18.5
B	21.75 (23.25)	27.25 (28.75)	31.25 (32.75)
C	38.75 (48.75)	38.75 (48.75)	38.75 (48.75)
D	1.5	2.5	2.5
E	1.5	1.5 (2.5)	2.0 (2.5)
Weight Lbs.	130 (150)	160 (180)	200 (220)

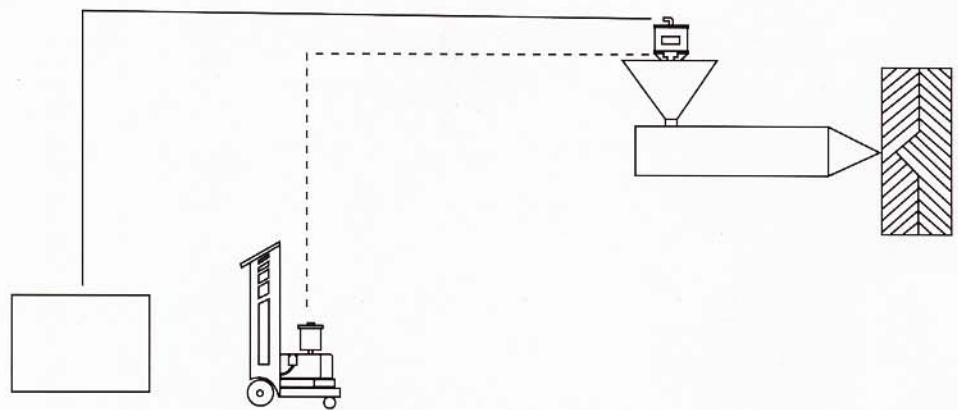
\* On 4V-6V "E" dimension refers to port size on pump.



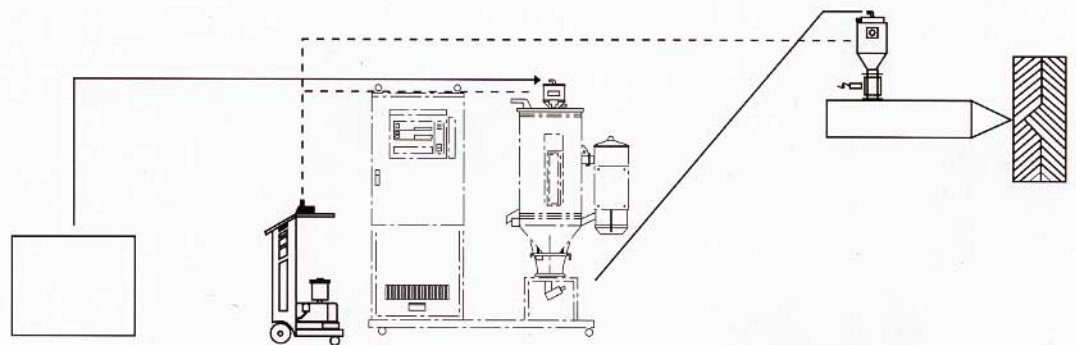
# System Flow

## EXAMPLES

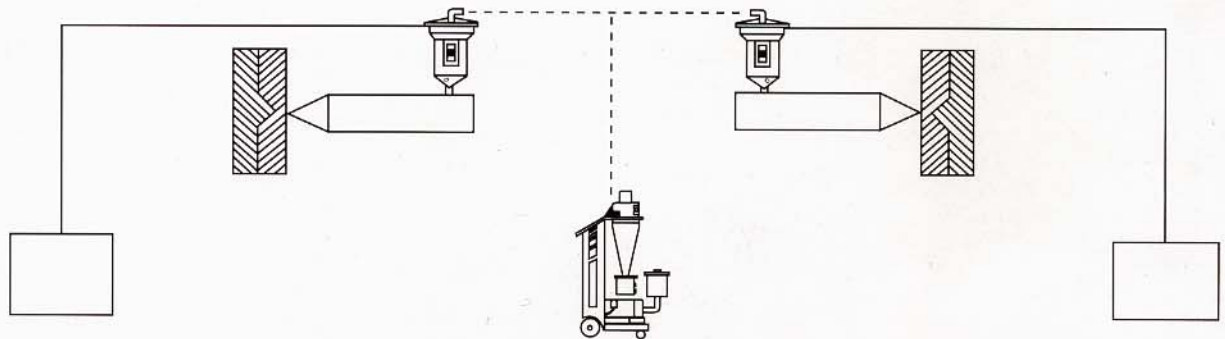
### Standard JV-4V with Jet Clone



### JV-4VII with MVH-2 & Jet Clone



### JV-4VCII with (2) MVH-10



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#### Chicago Headquarters:

1250 West Lunt Avenue  
Elk Grove Village, IL 60007  
847-290-9680  
Fax: 290-9685

#### Los Angeles Office:

1240 North Lakeview Avenue  
Anaheim, CA 92807  
714-693-1101  
Fax: 693-1345