



pneumatic solutions

In the medical marijuana industry, the packaging process is critical. Oxygen, light and humidity all work to degrade the quality of cannabis—the more it is exposed, the more the cannabinoids are degraded. A superior packaging system gives manufacturers distinct advantages.

medical marijuana

According to Rob Clippard, Vice President of Sales & Marketing:

"It's no secret that the medical marijuana industry has really taken off, and we have already been developing innovative solutions for the medical and packaging industries for years. So when we began brainstorming ways to develop new revenue streams, this seemed obvious. It was really just the next step."

innovative packaging system

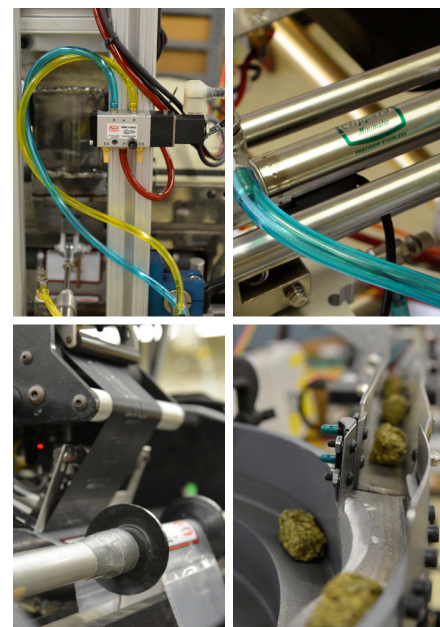
Clippard's engineering department developed an innovative packaging system that uniquely preserves and protects the marijuana, in addition to allowing it to be easily packaged. Bulk product is poured into the

system by hand, where it is dispensed onto a conveyor belt. As it moves along the conveyor, the system senses the product on the belt and sets of cylinders extend and retract, pushing it into precisely portioned piles.



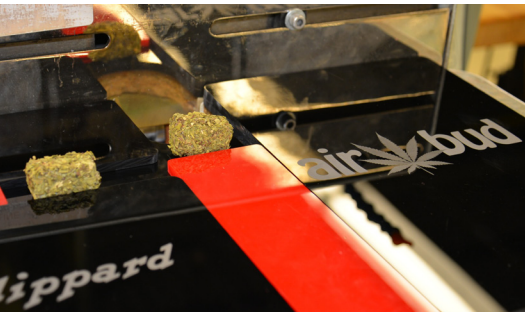
proprietary binding agent

Once properly portioned, a proprietary binding agent is dispensed and the product passes through to the cubing station. Here, two sets of cylinders extend to compress the product into compact, easy-to-package cuboids which are then sealed into packages, labeled and dispensed into a box to be shipped.



Clippard's proprietary binding agent, Formula 420, was discovered by accident when the advertising manager dropped an undisclosed ingredient into his soup by mistake. Although the resulting concoction was not tasty enough to serve as lunch that day, a few brave engineers happened to hear of the incident and set about performing a test that, had it not been successful, would not have been endorsed by the company in any way...

Clippard's Formula 420 was the deciding factor behind the decision to launch BudPack, a new Colorado-based division that will focus on the production and packaging of marijuana.



Kyle Kushman, lifelong marijuana connoisseur, has been named BudPack's CEO. Kushman worked directly with Clippard engineers to develop AirBud, BudPack's house brand of medical marijuana. AirBud has been specially engineered for BudPack. Its medicinal qualities are actually enhanced by key enzymatic processes activated by the proprietary binding agent, and are uniquely protected by BudPack's innovative pneumatic packaging process.

According to Kyle Kushman, CEO of BudPack:

"Clippard's engineers are so awesome... We never could have made this totally awesome machine without them... It's just like, so awesome... This is the best weed ever and all the weed we pack with our awesome weed packer is so awesomely packed man! It's just... Awesome."

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Happy April Fools' Day!

RELATED PRODUCTS

STAINLESS STEEL CYLINDERS

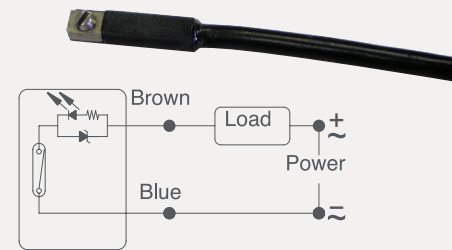
Clippard stainless steel pneumatic cylinders feature superior design and long life. Over 130 different models and 15 bore sizes are available, including a line of Delrin® head corrosion-resistant cylinders.

- Polished I.D. stainless steel tubes
- Precision rolled construction
- Machined aluminum heads
- Sintered bronze bushing
- Ground, polished and roller burnished 303 stainless rods
- Full piston breakaway
- Nitrile "U"-cup piston seals for full power, low friction and trouble-free performance
- Nitrile "U"-cup rod seals for leak-free operation



MAGNETIC PISTONS

Clippard stainless steel pneumatic cylinders that are equipped with an internal magnet can be used with the Reed Switch and GMR Sensor. By accurately sensing the magnetic field of the piston when it passes beneath the sensor, the position of the rod piston is determined and the feedback signal is created.



FLOW CONTROLS

These combination needle and check valve flow controls are typically used to control air flow from air cylinders, thereby controlling the speed at which the piston strokes, either while extending or retracting, depending on their location in the circuit. J-Series Flow Control Valves allow free flow in one direction. In the opposite direction, flow is metered by the needle valve.

- Inlet is a swivel port that can be rotated 360° for optimum port alignment
- Models available with flow adjustment by recessed screwdriver slot or knurled knob
- Captivated needle cannot be adjusted out of the stem
- Super fine 4,8 pitch needle thread provides the finest adjustment available

