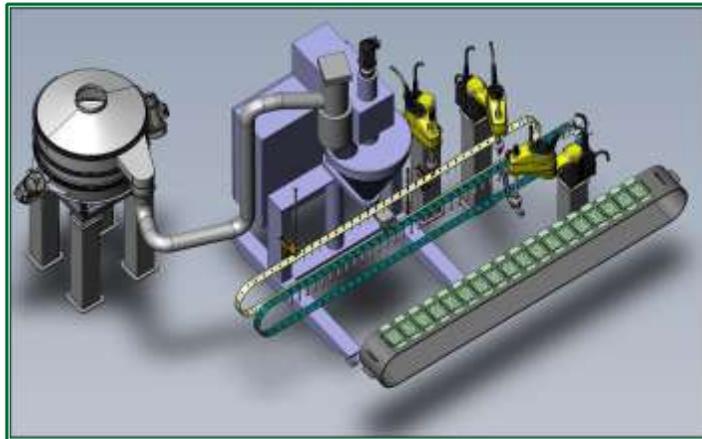


Cannabis Pre-Roll Automated Filling Line



High Speed Twisting Test



Complete Filling Line with Tube and Blister Packaging

Automated Pre-Roll Line Sequence of Operation

The Automated Pre-Roll Line is designed to produce up to 40 Joints per minute.

Pre Roll filling and Closure:

The product is loaded manually into a 24" diameter Single Deck Vibrating Screen and is processed to remove unwanted material. The product is transported via a vacuum system to deposit the product into a servo driven auger to dispense 1 gram of product into a staged cone. The duration of the auger will be based on the strain being run. It will require operator adjustment to meet the desired fill per cone +/- tolerance of 5%.

A stack of nested cones are placed into a staging tube that dispenses one cone in sequential positions on a servo driven conveyor. The unfilled cones advance to the loading area under the auger filler to receive a single charge of 1 gram of product. Once filled, the conveyor continues to advance to a weigh scale to determine proper fill. Once the proper fill is met, the filled joint moves to a tamping station with pneumatic vibration to lightly compact the product in the joint with a pneumatic top tamping tool simultaneously. Once completed, the filled cone moves to the twisting station where the base is lightly pinched to allow the FANUC Scara robot to engage the top of the joint and twist it closed. If the fill is out of spec, the pre-roll will not be tamped or twisted, It will be picked up and deposited a rework bin. The completed joint can then travel and be deposited into a bin or container at the end of the conveyor.



Optional Pre-Roll Primary Packaging:

For primary packaging operation of **single tubes**, the completed pre roll is picked off out the fill conveyor and placed into an open tube. The loaded tube moves forward to plow the cap down and snap it closed. Options to take a supply of tubes and place them into an unscrambler and place the tubes automatically into the tube conveyor. We can also provide the option to label the tubes and place them into a bin at the end of the line. Unscrambling and tube labeling can be quoted based on customer requirements.

For primary packaging of **blister packs**, the completed joint will be robotically picked from the joint conveyor and placed onto a slide to take the joint from a vertical format to horizontal. The Blister tray are denested and placed onto a servo driven tray conveyor. With the tray in position, the FANUC Scara robot picks up the joint and places it into the tray in the proper orientation. Capable of single or multiple counts in an alternating nesting position. Tray denesting, blister sealing and cartoning can be quoted based on customer's requirements.

Other customer requests can be reviewed and quoted.

If you have an idea like this or something else and want to have help in making it a reality.

Give us a call and let's talk...509-783-1369.