



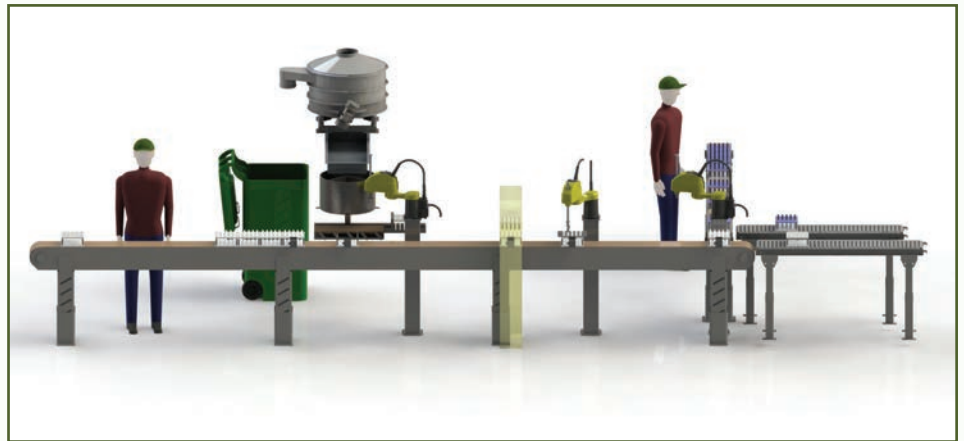
**PROVIDING PACKAGING AUTOMATION AND
INSPECTION SOLUTIONS TO THE CANNABIS INDUSTRY**



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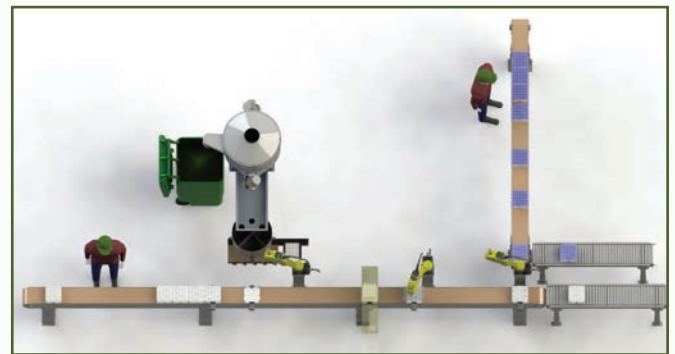
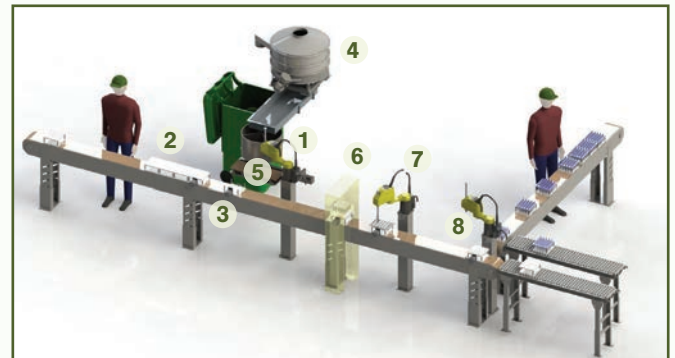
AUTOMATED ROBOTIC JOINT PRODUCTION LINE

- Manual Joint Blank Loading into tray
- Bulk Feed System
- De-Stemming and Vibration Sifting
- Vibration Loading
- Overfill Collection and Return
- Tamping Section
- Automated Top Twist
- Final Packaging Station - Bulk or Tube
- Featuring FANUC SCARA Robotics



One of the highest costs in the industry is the manual process of filling, tamping and twisting joints. After being approached by several cannabis producers to help them automate, our starting point was to determine which FANUC Robot to deploy in the system.

1. The SCARA was the most cost effective and speed capable solution.
2. With that, Emerald Automation determined that joints needed to be preloaded into a pocketed tray that would keep all the empty joints in proper registration throughout each step.
3. Pre-loaded trays enter the system to the filling station where they are staged.
4. The product is vibratory sifted to a consistent grade.
5. That product is fed to the fill station where the product is evenly distributed over the charge block. The loaded block moves to locate over the empty joint tray with overfill collection and return. The loading robot takes the filled tray and places it over the empty joint tray for filling.
6. That filled tray then moves to a tamping station to ensure a proper fill with adequate room to twist the top.
7. The next step is the twist station where a second robot twist closes the top of each joint individually.
8. The completed joint can be loaded into the retail product tube and then deposited into a bulk case or staged for manual or display tray loading.



Speeds up to 24 joints per minute / 1,440 per hour / 11,520 per 8 hour shift

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