KDF-6L Capsule Filling Machine (For Liquid)



Kwang Dah has decades of experience in soft-gelatin capsule and hard capsule filling machines, and has developed a hard capsule liquid filling and sealing machine. This is the best solution for hard capsules to replace the soft-gelatin capsules procedures for the following benefits to create an advance packaging method:

A: Reduce the cost of purchasing machines, manufacturing space, the labor costs, the manpower, skill requirements, and producing procedures;

B: Aids the product differentiation, sealing property, and aesthetics.
The above benefits will make an easier producing procedure for capsule filling liquid.

KDF-6L Capsule Liquid Filling Machine equips the servo control system.
This machine can fill liquid (oil base) for hard capsules, and adjust filling volume by the servo control system. This machine could equip the filling units for granules, micro capsules or micro tablets as options for the best value to verity functions in one machine for Pharmaceuticals, Health supplements, Nutrition, Chemistry, Oil industries.

Features:

1. The housing and surface are covered with stainless steel, whole machine meets FDA & PIC/S cG.M.P. requirements.
2. Parts are made by CNC machine. All parts are standardized and easy to exchange.
3. PLC+HMI system is included the functions: authorize management, servo control filling system and adjust filling volume.

4. Absorbing devices of impaction: These devices can emergency stop machine immediately and absorb the impaction in the meantime to protect the main/important structures when abnormal impaction happens.
5. Smart Sensing System to pause automatically in the event of problems when no capsules, no liquid, door is opened, and abnormal load for the machine are detected.
6. Two station capsule-opening design to ensure all capsules are opened.
7. Capsule missed detection system: 6 sensors for inspecting whether any missing capsules in molds. No capsules no liquid filling, then reject and discharged.
8. Special design of liquid hopper: Easy to remove for discharging or cleaning, and the leftover liquid can be recycled without waste.
9. Filling volume adjustment will be controlled by servo motors and HMI to meet the micro adjustment for accuracy filling volume.
10. The filling cylinders and pistons made by ceramics: Reduce friction and expend device's working life, and avoid the causing particulate to pollute the products.
11. Two outlets for good products and defective products. The capsule which isn't been filled will be rejected to defective outlet.
12. Available addition filling units(options) for granules, micro capsules or micro tablets.
13. Easy to change and cleaning the molds(tooling) without alignment. Changing molds within 30 minutes by a person without experience.

Technical data:

- Machine process: up to 50 000 capsules per hour.
- The machine is made of stainless steel
- Compact dimensions are: 1070 mm in length, 1240 mm in width and 2150 mm in height.