

TM4600 Automatic 12-channel Tablet & Capsule Counting Machine



The 12-channel tablet and capsule counting machine TM4600 is an automatic counting packaging machine for dispensing capsules, tablets, pills, and sugar-coated tablets, into bottles. TM4600 uses KEYENCE high-accuracy optical sensor for product detection and provides high-speed counting via 12 feeding channels. Compared with other counting machines with fewer channels, TM4600 has a higher production speed, as high as 2200-6000pcs/minute, which provides high-speed counting and filling production for the pharmaceutical industry and nutritional supplement industries. In addition, TM4600 is easy to operate with a large touch screen. It can be applied to a variety of product counting without changing the parts of the feeding module to meet the needs of pharmaceutical and health food factories for automated pill counting and packaging.

Features

1. Product feeding by a 12-channel vibration feeding module, the vibration frequency and speed can be adjusted by the operator.
2. The counting module height can be adjusted by the motor lifting device, so it is possible to fill bottles of different heights.
3. The large-capacity hopper can accommodate most tablets, lozenges, and capsules. Provides maximum versatility with no need to change components in the feeding module when changing counting products.
4. Dust collection device to prevent the powder of tablet from affecting the counting accuracy.
5. HMI to monitor the process: Real-time display to ensure that the count is accurate and in accordance with the set quantity, controlling the production progress.
6. HMI can memorize 100 sets of production recipes, including parameter settings and batch information to improve the speed of line changeover
7. PLC controlled, and HMI touchscreen, adjustment and setting can be done through the touch screen, convenient for different products to be produced alternately
8. The products are filled into the bottles or containers on the conveyor through the stainless-steel sanitary feeding system and bottle-feeding system while accurate counting.

9. Two-stage vibration feeding module is suitable for general capsules and round tablets and has excellent adaptability to irregular pellets.
10. Suitable for capsules and tablets with a diameter of 4~40mm and height of 4mm or more. (Other sizes can be customized)
11. 12-channel vibration feeding module and 2 nozzles for high counting and filling speed
12. Counting sensor is KEYENCE for accurate detection.
13. Counting number can be set from 1-9999, meeting the needs of supplements and pharmaceutical packaging.
14. The product contact material complies with FDA to meet pharmaceutical, food, and cosmetic production.
15. Plastic steel chain conveyor and guide rail, stable bottle conveying, and low noise.
16. Conveyor can accommodate various sizes of bottles.
17. Automatic bottle infeed and outfeed system, accurate positioning of bottles.
18. Counting machine can be customized with 8, 12, 16, 24 channels. With an automatic feeding machine, it can increase the production capacity.
19. Quick detachable design, tool-free to disassemble and clean.
21. Straight-line conveyor design, easy to integrate with other packaging machines.
22. Food-grade plastic acrylic transparent cover.
23. Set a target output, the machine will stop automatically when the set output is reached.
24. Automatic alarm system, the machine can detect abnormalities to prevent defect products
25. No need to re-set the sensor for product change.

Specification

- Automation Level : Fully Automatic
- Tablet/Capsule Size : (Dia.)4~40mm; (H)>4mm ; NO.000~NO.5
- Counting Speed : 2200-6000 pcs/min (depending on product size and shape)
- Accuracy : 100% (with proper speed)
- Bottle Size : (Dia.)38-100mm; (H)60~220mm
- Power Supply : 110 or 220VAC, 50/60Hz, single phase
- (Electrical system in accordance with overseas regulations are available)
- Air Supply : 40~60 PSI
- Machine Size : (L)2100mm (W)1504mm (H)1754mm
- ※ Actual product specifications may vary