STRENGTHS

The bag making process is concerned with several of technology to produce bags from roll form material, which including continuously feeding web tension control, intermittent feeding web tension control, forming mechanism, add-on equipment, temperature and pressure of longitudinal / transverse sealing and cooling section, cutting length control and conveyor system. More than 1,000 units sold worldwide since established. Based on the design and manufacturing experience, HCI has excellent design and integration ability. HCI's pouch machine with the benefits of accurate products dimension, high sealing strength, quick changeover, minimize the waste on re-start operation, high speed production and durable machine structure.

FTSC-V

Servo In Line Three Side Seal Bag/Stand-up Pouch/Zipper Pouch/Four Side Seal Bag Making Machine

Suitable for sealable co-extrusion films, multi-layer films such as laminates of Polyester, BOPP, and CPP... This machine is ideal for the production of 3-side sealing bags, stand-up pouches, bottom gusseted stand-up pouches, zipper bags, combined stand-up/zipper pouches, four side seal bag...

Main Structures

• Outer transmission mechanism: Compared with inner transmission mechanism, the structures of outer transmission mechanism is much simple and easy for maintenance, and gives about 30% more productivity than conventional bag making machines.
• Brand-new design unwinder: material feeding roller is changed to horizontal direction to make the web more stable; accompany with linear position sensor control system, the dance roller keeps the feeding speed and tension constantly, auto raising during web splitting and "immediately stop" when material broken.
• Main drive servo motor: The operator can change the feeding and sealing time for each material independently. Sealing temperature adjustment unnecessary while machine speed up. This mechanism can help to reduce the waste of material greatly.
• Feeding servo motors: The pouch length is accurately controlled by servo motor includes middle pulling stand and rear pulling stand for upgrading production speed.
• Cutter servo motor control system: The cutting speed is variable and the double cut function can eliminates burns on in-line corner or notch puncher. This function improves the products quality.

Zipper/Side Sealing/Bottom Sealing Section

• The latest development of zipper pouch sealer and side sealer auto descending device (Patent No.M355902) which can prevent the material been overheated or broken when machine stop.
• HCI zipper guiding and cooling plate (Patent No.178721): This plate can steady the sealing position of zipper and the cooling circulation system can prevent the zipper pouch been overheated.
• Ultrasonic sealing device: it can weld the zipper rib in advance before entering the bottom sealer. The bottom sealed position will be flattened and perfected without leakage problem.
• The new skip-seal structure adopts the pneumatic control stopper to block the hot-sealing bar to descend. The structure is simple and durable, and can also be used for the zipper sealing depth control to avoid the sealing area broken.
• Each bottom sealing unit can replace embossing plate with silicon plate; the system can provide the most accurate and fastest heating performance.

Cutter Structure and Safety Protection

• Varying Cutter Structure reduces unnecessary contacts between upper and lower cutters while enhancing cutter lifetime and restraining operational noise. (Patent No.M355904)
• Newest cutter unit with easy adjustment and durable structure. The cutter unit can adjust the position from single side or whole unit moves front and rear.
• Upon request, several extra safety devices are available - movable protecting cover for heat sealing section, safety light curtain, cutter cover and interlock switch.

Unwind width (m/m) | Mechanical speed (bags/min) | Max. unwind diameter (mm) | Length of product (mm) | Width of product (mm) | Feeding speed (m/min) | FTSC-V500-3 | FTSC-V600-3 |
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Optional Accessories

• Secondary unwinder and web registration device for produce bags from 2 different rolls.
• The splice auto-detection function automatically detects the joint of the web, gusset, and zipper; and prevents defects by pausing cutting until the joint passes the cutter.
• Web guiding device on middle of machine to guide the web after forming / sealing and before trimming, can increase the bag quality and reduce the waste and operation adjustment.
• Various punching device available, such as round hole, butterfly, Mexican hat hanging slot and handle puncher, notch etc. All size are upon request.

Capabilities of Producing Various Type Bags

• Three side sealed bags*: Can produce 2 lanes of 3-side sealed bags and products length can reach to 1200mm(Max.) by its skip-seal function.
• Stand-up + Zipper * 2: Can produce 2 lanes of stand-up pouch or zipper pouch or stand-up with zipper pouch.
• Folded Bottom Gusset Pouch * 1: Equipped with the gusset device on main machine with additional dancer roller, gusset depth from 20-70MM, stable forming with flat bag making speed.
• Four-Side-Sealed bags * 1: Can produce it by using 2 reels of bottom insertion.
• Shaped pouch, spout pouch or micro-perforated pouch making function are upon request.

HMI Control System

• Color touch screen with simple figure display for setting and easy operation. Irregular malfunction-detects system: monitor items include motors, inverters, control box communications, punchers, sensors, sealing temperatures etc... and the abnormal position will display on LCD directly. It is very convenient for operators to obviate the malfunction immediately.
• Three pouch making control modes:
  *Speed Mode - Sealing time varies with cutting speed
  *Sealing Time Mode - Cutting speed varies with sealing time
  *Extension Sealing Mode - Speed varies with heating extended time, suitable for thicker film
• Acceleration will be accelerated to the pre-set speed by 2 stages during start-up, avoiding one-time acceleration to stretch or dispense the web and improve the stability of bag making.
• Temperature upper and lower limit alarm: the operator can alter the range of limit and auto stop function and the sealing temperature will vary with machine speed and the increasing rate can be changed.
• Operation parameters could be saved in system such as cutting speed, pieces, length, temperatures etc. and those parameters will be saved automatically when power failure happened.

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