

## NICHROME

### Nichrome Milk Pouch Crating System with Online Leak Detection Mechanism



➤ Efficient and error-free

➤ Reduces manual labour

➤ Improves productivity



**NICHROME**  
Packaging Solutions

An ISO 9001:2008 and ISO 22000:2005 Certified Company

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The Automatic Milk Pouch Crating System offers a solution to count & fill pouches in crates in synchronization with high speed Filpack Servo 12 k machines.

- The system can be customized as per customer layout and number of machines
- System provides total end of line solution from crate washing center to cold storage
- System helps to maintain quality and food safety standard as well as keep count of the number of pouches and crates

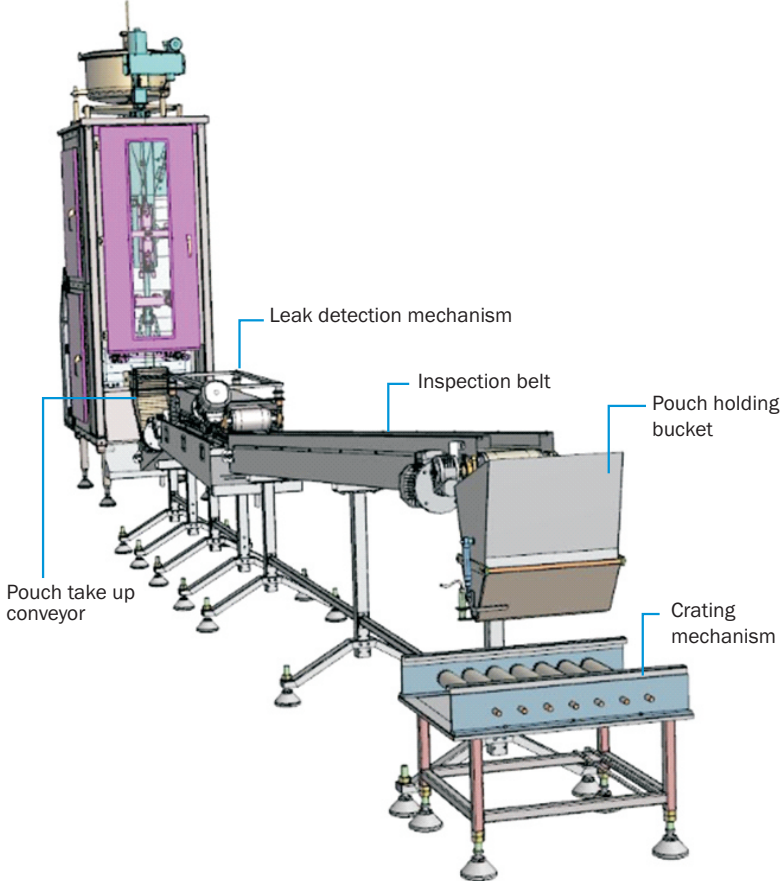
**System Features:**

- Automates the entire secondary packing process saving labour, time and space
- Provides hygienic and modern secondary packing process
- Improves productivity
- Independent of speed of machines / Number of heads
- Independent of volume of pouches
- 3 Phase, 415 VAC operated
- Flexibility – change in pouch orientation

**Advantages:**

- The system is fully automatic and hence reduces labour
- The secondary packaging becomes systematic
- Each crate filled with correct pouch count
- System has optional features of data logging and online crate weighing.  
The entire production data can be logged and saved on Cloud or central server

**Schematic Layout :**



**Construction:**

The module design is suitable for Filpack Servo 6k machine output @100 pouches / min.

System consists of following mechanisms:

**Pouch Take Up Conveyor:** Each head of machine is hooked up with Pouch Take Up Conveyor. Conveyor used to take up pouches to certain height suitable for the system.

Speed of conveyor	30,000 mm/min
MOC of belt	Food grade PVC
MOC of conveyor	SS 304

**Online Leak Detection Mechanism:** Each pouch from the pouch take up conveyor passes through a pressing conveyor which removes excess air from leakage pouch through which the operator can easily differentiate leaky pouches.

Speed of conveyor	30,000 mm/min
MOC of belt	Food grade white PVC
MOC of conveyor	SS 304

**Inspection Belt Conveyor:** Leaky pouches from online leak detection mechanism are to be manually segregated at inspection belt.

Speed of conveyor	30,000 mm/min
MOC of belt	Food grade white PVC
MOC of conveyor	SS 304

**Pouch Accumulation / holding bucket** linked at the other end of conveyor.

**Pouch Counter and Holding Bucket:** The exact required number of pouches are counted and dropped in the holding bucket. The bucket holds the pouches during transit of the crates. Opening / closing of buckets is pneumatically controlled.

MOC	SS 304
Capacity	6 Ltrs.

**Crate Conveyor:** A twin belt constructed conveyor for supply of empty / filled crates to all machine heads with pneumatic pusher and stopper mechanism.

Speed of conveyor	24,000 mm/min
MOC of belt	Multiple chain food grade
MOC of conveyor	SS 304

**Control System:** PLC-based control panel to control system operation. Touch screen HMI to facilitate recipe, control & operating desired sequence.

**Note:** System can be customized as per requirements and available space



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**NICHROME INDIA LTD.** Safire Park Galleria, 4, Pune-Mumbai Road, Shivajinagar, Pune – 411 005, India  
 Tel.: +91 - 20 - 6601 1001 Fax: +91 - 20 - 6601 1010 E-mail: marketing@nichrome.com [www.nichrome.com](http://www.nichrome.com)  
 Service Centres & Offices at: Delhi | Kolkata | Mumbai | Bangalore | Hyderabad | Chennai | Ahmedabad | Chandigarh | Kanpur  
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