

GAN 120

Double Head Tube Filler with Adaptive Sealing Options



BY

stelda 
Case Packaging Solutions



The WIMCO GAN 120 is a robust double-head tube filling and closing machine engineered for high-speed, high-accuracy production environments. Its Ferguson drive ensures smooth operation, while PLC-based controls and “No Tube, No Fill” logic reduce wastage and downtime. From pharmaceuticals to cosmetics, the GAN 120 adapts quickly to various tube sizes and closure formats, making it a cornerstone of flexible, large-scale manufacturing.

Salient Features

- **Dual-Head Performance:** Delivers up to 120 tubes/min for high-volume production.
- **Tail-Free Filling:** Ensures accurate, waste-free filling up to 250cc.
- **Adaptive Sealing Options:** Compatible with hot air, crimping, and combination sealing formats.
- **Centralised Lubrication:** Minimizes maintenance and improves machine longevity.
- **Smooth Drive System:** Ferguson drive enables consistent mechanical flow.
- **Smart Tube Handling:** Includes auto tube infeed, orientation, and coding.
- **Versatile Material Handling:** Seamlessly works with metal, laminated, and plastic tubes.
- **Tool-Free Changeovers:** Enables quick shifts between tube sizes and products.
- **GMP-Compliant Build:** SS304 cladding and flameproof options for cleanroom operations.
- **Expandable Integration:** Ready for cap tightening, product counting, cartoner linkage, and more.
- Automatic tube orientation via I-mark registration sensor

Technical Specifications

| Parameter | Specifications |
|-----------------------|----------------------------------|
| Machine Type | Double Head Tube Filling Machine |
| Max Mechanical Speed | Up to 120 tubes per minute |
| Minimum Filling Range | Min: 1cc Max: 250cc |
| Filling Accuracy | ±1% of fill weight |
| Tube Diameter | Min: 12.7 mm Max: 45 mm |
| Tube Length | Min: Max: 200 mm |

Utilities Requirement

| Parameter | Specifications |
|---------------------------|--|
| Power Consumption | 3 Phase, 440 V, 50Hz Min: 3.0 kW Max: 8.5 kW |
| Air Consumption | Min: 200 LPM @ 6 kg/cm ² Max: 700 LPM @ 6 kg/cm ² or 25 CFM |
| Chilled Water Requirement | 8 LPM @ 8–10°C (for hot air sealing) |
| Machine Weight | GAN Tube Filler – 1800 kg LS 120 Lamisealer – 600 kg |

Optional Features

| | | | |
|----|--|----|--|
| 1 | 21 CFR compliant | 18 | Servo Indexing |
| 2 | Double Color Filling | 19 | Reverse Folding Beam |
| 3 | Combi Conversion | 20 | Jar Filling Conversion |
| 4 | Nitrogen Purging System before and after filling tubes | 21 | Pneumatic Sealer |
| 5 | Auto Infeed | 22 | Two Way rejection system |
| 6 | Profile Single Head | 23 | Three way rejection system |
| 7 | Profile Double Head | 24 | Inkjet printer |
| 8 | CI Pump to SS Pump conversion | 25 | Vision System for cleaning |
| 9 | Machine Extension | 26 | Vision System testing for sealing |
| 10 | Tube Orientation | 27 | Pharma code reader |
| 11 | PLC Control Panel | 28 | Ultrasonic Sealer |
| 12 | Cleaning In Place & Sterilisation In Place | 29 | Water Chiller |
| 13 | Motorised Stirrer | 30 | Trim Collector Indigenous |
| 14 | Jacketed Hopper | 31 | Trim Collector International |
| 15 | Guarding Cabinet | 32 | Jacketed Hopper |
| 16 | Servo Filling | 33 | Optical camera system for tube registration, Automatic tube orientation and print verification |
| 17 | Servo lifting | 34 | cGMP compliant |

Machine Layout

| UTILITY | | | |
|-------------------|--------|-------------------|---------------|
| MACHINE TYPE | POWER | AIR | CHILLED WATER |
| GAN LS 120 | 8.5 KW | 650 LPM @ 6kg/cm2 | 8 LPM @ 8-10° |
| GAN METAL FOLDING | 1.9 KW | 200 LPM @ 6kg/cm2 | NOT REQUIRED |
| GAN COMBI | 8.5 KW | 650 LPM @ 6kg/cm2 | 8 LPM @ 8-10° |

*0.33 KW AND 0.5 KW POWER WILL BE ADDED FOR STIRRER AND JACKETED-HOPPER RESPECTIVELY

01 TUBE INFEEED
 02 TUBE PRESSING
 03 TUBE REGISTRATION
 04 TUBE CLEANING
 05 TUBE FILLING
 06 TUBE HEATING
 07 TUBE SEALING
 08 TUBE FOLDING-1
 09 TUBE FOLDING-2
 10 TUBE CODDING
 11 TUBE TRIMMING
 12 TUBE EJECT (SIDE)
 13 TUBE EJECT (CENTER)
 A AIR INLET
 B WATER INLET

3226
2725
2480
925
1384

| | |
|--------------|-------------|
| ASSEMBLY: - | Material: - |
| TREATMENT: - | QTY: - |
| R.M.SIZE: - | |

| | | | | |
|------------------------------------|------------------|------------|-----------|-------------------|
| Drawn: SHITAL | Checked: SANTOSH | Scale: NTS | E.F.WL: - | Date: 22.06.12 |
| Description: TUBE FILLING(GAN-120) | | | | Drg. No. GA - 005 |

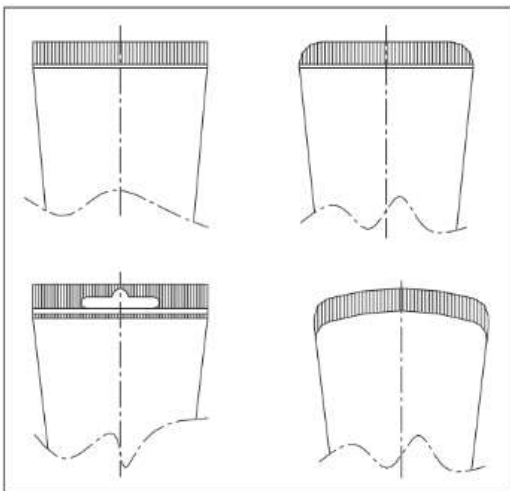
WIMCO AMBARNATH

IF IN DOUBT ASK

ANGULAR DIM.

SHEET 1 OF 1

Sealing Patterns



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