

## Tube filling machine **CONDOR 300**



### Product Overview

The CONDOR 300 is a high-speed tube filler with a capacity to produce about 100,000 tubes per shift. This is the fastest tube filler in Subnil's range.

The tubes have to be first manually transferred from the tube box to the cassette provided on the machine. In turn the cassette transfers them, through multiple chutes, to a servo-driven pocketed conveyor. From the conveyor, multiple tubes are picked up by a rotary pick-up device, driven by servo, and loaded into the tube holders. First the tubes are centered & oriented and then filled. They are then closed depending on the type of tube. In case of metal tubes, the tubes are flattened and crimped twice (or even thrice). In case of laminate / plastic tubes, they are first heated on the inside periphery and then sealed. Batch details are then coded on the crimp (or seal) with metal stereotypes and the tubes are ejected out either into a collection container or to a tube-transfer system to link to the downstream [MERLIN 300XC](#) cartoner from Vectacraft.

### Technical Specifications:

#### Features

- The pump unit has a vertical dosing system, which aids in easy suction
- Bottom-up filling coupled with shut-off nozzle ensures accurate & clean fill without air entrapment
- Indexer is absolutely smooth.
- Tool-less adjustments coupled with faster reproduction of settings (aided by position indicators and tri-clover fittings) make changeover quite effortless.
- Product level sensor, centralised lubrication and a host of safety features like detection of reverse tube, jammed tube, air pressure drop etc. are part of basic machine.

## Optional equipment

- Saddle fold
- Multi-colour filling
- Designer seal in plastic tubes
- Gas flushing before & after filling
- Servo motor options in various stations

## Tube Filler Program

MODEL	LIMBUS 35	LIMBUS 70	LIMBUS 100	LIMBUS 150	CONDOR 225	CONDOR 300	CONDOR 375	CONDOR 420
TYPE	ROTARY				LINEAR			
NO. OF HEADS	1	1	1	2	3	4	5	6
CAPACITY * (Max Tubes/min.)	35	70	100	150	225	300	375	420
TUBE SIZE RANGE								
Diameter (Min-Max)	10 - 50 mm			10 - 40 mm		10 - 30 mm		
Length (Min-Max)	50 - 250 mm							
UTILITIES								
Power	1.2 Kw** 4.5 Kw***	1.3-4 Kw** 5-7.75 Kw***	5.2 Kw** 9.5 Kw***	7 Kw** 12 Kw***	7 Kw** 13.5 Kw***	7.5 Kw** 14 Kw***	8 Kw** 15 Kw***	
Compressed Air (at 6 kg/cm <sup>2</sup> pressure)	12 cfm	25 cfm	40 cfm	50 cfm	55 cfm	58 cfm	60 cfm	
Water Circulation (at 12°C)	3 LPM	5 LPM	10 LPM	13 LPM	15 LPM	18 LPM	20 LPM	
FILLING RANGE	3 - 300 cc					3 - 150 cc		
FILLING ACCURACY	± 1%							
OPERATOR	1				2			

\* Final output depends on tube diameter, fill volume, tube blend and product characteristics

\*\* For metal tubes

\*\*\* For laminate / plastic tubes