

## Counting Line

### Product Data





# Counting Line

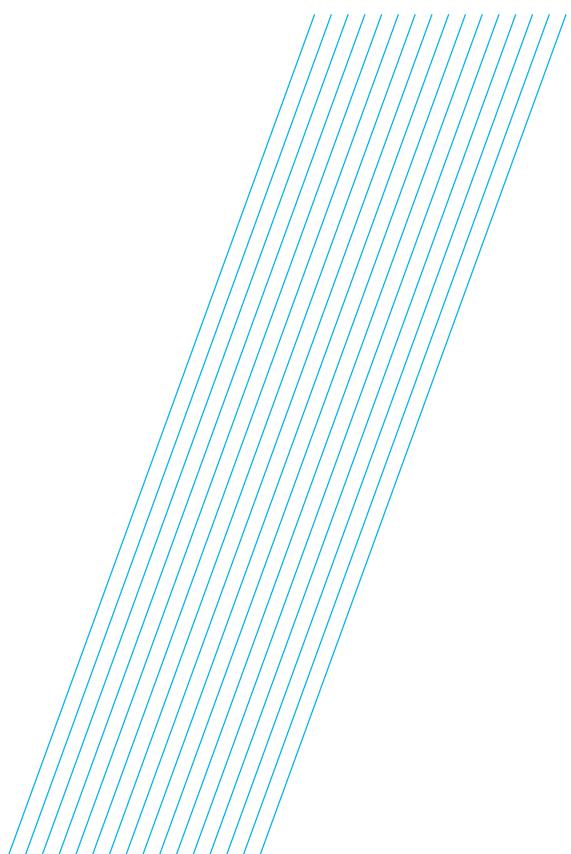
## Product Data

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# DELTA**COUNT**300S

## Automatic Multi-channel Counter



The DELTA**COUNT**300S is a 12-channel single head automatic counter designed to automatically count and fill tablets/capsules in to plastic as well as glass bottles/containers/jars.

PLC and touch screen HMI control panel, tablet shutter time check, auto gating system, self-compensating vibrator control, and sequential shutter closing speed are provided for the ease of operation.

Fully cGMP and CE compliant.



Production rates may vary depending on machine speed, fill material viscosity, and operator experience.

**DELTA**COUNT**300S includes many standard features, increasing performance and reliability:**

- Compact design requiring minimum space
- No product change parts required
- All contact parts made from SS316L
- Optical Sensor for reliable and accurate fill counts
- Integrated conveyor and counter
- Tool-less changeover for all contact parts
- Stainless steel hopper, easy to remove for cleaning
- Automatic gating system
- Operator user-friendly HMI control panel
- 21 CFR part 11 compliance (optional)
- Camera Vision System to detect cross contamination (optional)
- cGMP and CE compliant

<b>Technical Specification</b>	<b>DELTA<b>COUNT</b>300S</b>
Type	12 Channel (1 head type)
Working Speed	50 Bottle/min (Ø7 tablet 100T filling)
Output	Up to 12000 tablets/min (depending on fill count)
Container size range	Ø 25 – 120mm, 50 – 220mm height
Feeding method	3 step vibration feeding type
Fill counts	1 – 9999 (accuracy 99.99%)
Products size	Tablets & Caplets (up to Ø30mm) Capsules & SoftGel (00#-5#)
Controls	Inverter, PLC touch-screen with colour HMI control panel
Hopper Capacity	25L
Electrics	220V, 1 Phase, 50/60 Hz, 1kW
Compressed air	5-6kg/cm <sup>3</sup>
Machine Dimension	W1500mm x L2410mm x H2100mm
Weight	700kg



# SIGMA**COUNT**310D

## Automatic Multi-channel Twin-deck Counter



The SIGMA**COUNT**310D is a 12-channel twin-deck automatic counter designed to automatically count and fill tablets/capsules in to plastic as well as glass bottles/containers/jars.

The machine features PLC and touch screen HMI control panel, tablet shutter time check, auto gating system, self-compensating vibrator control, and sequential shutter closing speed are provided for the ease of operation. The SIGMACOUNT310D is fully cGMP and CE compliant.



**SIGMACOUNT310D includes many standard features, increasing performance and reliability:**

- Compact design requiring minimum space
- No product change parts required
- All contact parts made from SS316L
- Optical Sensor for reliable and accurate fill counts
- Integrated conveyor and counter
- Tool-less changeover for all contact parts
- Stainless steel hopper, easy to remove for cleaning
- Automatic gating system
- Operator user-friendly HMI control panel
- 21 CFR part 11 compliance (optional)
- Camera Vision System to detect cross contamination (optional)
- cGMP and CE compliant

<b>Technical Specification</b>	<b>SIGMACOUNT310D</b>
Type	24 Channel (2 head type)
Working Speed	95 Bottle/min (Ø7 tablet 100T filling)
Output	Up to 12000 tablets/min (depending on fill count)
Container size range	Ø 25 – 120mm, 50 – 220mm height
Feeding method	3 step vibration feeding type
Fill counts	1 – 9999 (accuracy 99.99%)
Products size	Tablets & Caplets (up to Ø30mm) Capsules & SoftGel (00#-5#)
Controls	Inverter, PLC touch-screen with colour HMI control panel
Hopper Capacity	50L (2 x 25L)
Electrics	220V, 1 Phase, 50/60 Hz, 2kW
Compressed air	5-6kg/cm <sup>3</sup>
Machine Dimension	W1590mm x L4160mm x H2100mm
Weight	1400kg

Production rates may vary depending on machine speed, fill material viscosity, and operator experience.

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# ILC120

## Automatic Inline Screw/Press on Capper

The AVE Technologies ILC120 automatic Inline Capper places and tightens caps at speeds of up to 120 bottles/min with minimum change parts.

The ILC120 applies caps on the container/bottle by stripping them out of a chute in the path of the moving container and placing them over the mouth of the container.



### Features include:

- Industrial PLC and touch screen HMI control panel
- cGMP and CE compliant
- Caps are gradually tightened as they pass along 4 pairs of spindles
- Stabilising gripper belts
- Applicable for screw and press-on caps
- Fully adjustable cap feeder, spindles and side belts require no change parts for various applications.
- Servo controlled spindle speed adjustment
- Container rejection for missing, misaligned and skewed caps

### Technical Specification

Output	Up to 120 bottles/min (depending on the shape and size of the cap)
Container size ranges	Ø 25-100mm (dia.) 50-200mm (height)
Cap size ranges	Ø 20-70mm (dia.)
Electrics	220V, 1 Phase, 50/60Hz
Power	1.5kW
Compressed air	5-6kg/cm <sup>3</sup>
Dimensions	1237 x 3230 x 20270 mm
Weight	700kg

## Automatic Bottle Un-scrambler



The BU120 bottle unscrambler is designed to increase efficiency and productivity. The Machine automatically sorts and orients containers in an upright position and clean them before conveying into the production line.

It is capable of unscrambling and cleaning round, oval or rectangular bottles with an output of up to 120 bottles/minute. Empty bottles are loaded into

an extra-large hopper then a bottle elevator feeds the empty bottles in to the sorter where they are aligned around the sorter disc.

While the bottles are being transported from the sorter to the aligning unit, they are inverted and cleaned by deionizing air with vacuum. The bottles are turned into an upright position for discharge.

### Features include:

- cGMP and CE compliant
- Quick and easy changeover without tools
- Fully interlocked guarding enclosure
- Container diameters (20 - 120mm)
- Container heights (50 - 220mm)
- Up to 120 containers/min (size dependant)
- Bulk hopper with level sensor elevator
- Adjustable side belt
- Disc sorter with level sensor
- 0.1 Micron air filter with vacuum suction
- Main frame: Stainless steel SS304
- Turn table: SS304 304
- Side belt: SS304 & AL6061 (Frame), Latex & Spandex (Belt)

### Technical Specification

Container type	Round, Square, Oval
Container sizes	25-100mm dia, 50-200mm height
Controls	Inverter, PLC with colour HMI control panel
Ionizer	Modular with built-in dust collector
Cleaning principle	Inverting with purified ionized air
Hopper Capacity	300L
Electrics	220V, 50/60 Hz, 1 phase 1.5KW/6.8A
Compressed air	600L/Min
Machine Dimension	2450 × W 1780 × 1240mm
Weight	750kgs



# ENCART 120

## Automatic Desiccant Inserter

### Features include:

- Ideal for pharmaceutical, health-care, and food industry use.
- Can cut continuous desiccant (SAP) strips as per fixed length and insert into container automatically
- Driven by double stepping motor
- Detect sensor – if no bottle, no action, Automatic alarm and shutdown function
- The machine automatically stops when the bottle supply is insufficient or bottles become blocked. Returns to normal when the problem is resolved
- PLC control, touch screen as HMI, easy to operate and maintain
- Height can be adjusted to fit variable bottle size
- Can be used as a stand-alone machine or inline with a counter.



### Technical Specification

Max speed (bottles/min)	120
Container specs:	
Diameter	40 - 100mm Ø
Height	45 - 250mm
Desiccant width (cross section)	5-30mm
Noise	< 70dB
Compressed air supply	0.5Mpa
Electrics	220V 1pH 50Hz/60Hz
Total power	0.5kW
Conveyor length	1800mm
Dimensions	600 x 700 x 1800mm
Weight	150kg



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## AVE Technologies also offer:

Tablet Compression Solutions

Encapsulation Solutions

SoftGel Systems

Counting Line

Blister Packers

FBD & High Shear Mixers

Cartoners

Jelly & Gummy

Cleanroom Panels

The quality of our products is our first consideration from conceptual design to final commissioning. All activities in the manufacture process are in accordance with the company's Quality Assurance Manual and International Standards Directive BS EN ISO 9001:2015. The production site where the products are made has been assessed and given ISO 9001:2015 approval, Cleanroom and Contained Enclosures Standards ISO14644 Pt 1 - 7.



Proud to be a British Company

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