



## Complete Groninger Vial Line

### Description

Line purchased 'new' in 2013, shipped to end user, and never run in production due to manufacturing reprioritization. The line is in never used condition.

Complete line - Tunnel / Washer / Filling / Stoppering / Crimping (detailed below)

Line is for watery liquid

Line speed up to 200 vials (10R) per minute (depending on product and size)

Line has not run any products ever (no antibiotics, hormones or oncology etc..)

Change parts included: for 2, 4, 6, 10, 25, 30 and 35 ml vials

Stopper change parts are for 13mm and 20mm

Two different type of aluminum flip-off cap (13 and 20mm)

Filling accuracy is  $\pm 0.5\%$  for filling volume above 1ml,  $\pm 1\%$  for filling volume below 1ml)

Guarding is stainless steel with hinged glass doors and polycarbonate side walls.

Machinery is currently packed into six crates and located in a well-ventilated warehouse

Line can be laid out in warehouse and staged for inspection

Six Crates are approx. 24.5 ton intotal

Dimensions: Washer and Tunnel approx.: L5550\*W3847\*H2360; Filling and Capping:

### Infeed turntable

Machine Type: DTE1000

Machine No.:9958

Year of manufacture: 2013

Feeding glass vials, diameter 900mm, operating height 900 mm

Variable frequency controlled drive

Loading plate and transfer to washing machine.

Different size parts for other vial diameters

### Washer

Machine Type: ASVK4000

Machine No.:9959

Year of manufacture: 2013

Output: variable up to 200vials/minute

Working range:  $\varnothing 16-52\text{mm}$

7 stations washing sequence separated into 3 washing zones (recycled water washing,WFI washing sterile air blowing)

Single lane vial discharge

### Depyrogenation Tunnel

Machine Type: STH1154

Machine No.:9960

Year of manufacture: 2013

Three separate internal chambers (Infeed ,hot and cooling zone)

Infrared-heater in the infeed module

Maximum sterilizing temperature 280 -300°C Easy

handing and changing of the filters

Pressurisable design with delta p cascade towards infeed



#### **Tunnel discharge turntable with PETP plate**

Machine Type: DTP1000

Machine No. :9961

Year of manufacture: 2013

Variable drive, consisting of turntable and transfer to the filling machine

#### **Fully automatic continuous motion filling and stoppering machine**

Machine Type: DFVK6000

Machine No. :9962

Year of manufacture: 2013

Filling style: piston pump

Dosing range: 0.2ml-66ml with corresponding dosing pumps

6 rotation dosing pumps

Programmable control "No vial-No filling-No closure"

Pre-filling check weigh of vials

Post filling check weigh of vials

Reject station for vial (accumulation control)

One buffer tank (appr 10L) made form SST316L with level sensor, and squeezing valve to connect to main product tank

Automatic inserting station for rubber stoppers 6-head continuous operation.

Pre-feeder hopper for stoppers, vibratory unscrambling bowl, feeding tracks vacuum ledge for inserting.

Check station for rubber stopper presence on vial

#### **Infeed turntable with SST plate**

Machine Type: DTE 1000

Machine No. :9963

Year of manufacture: 2013

Variable frequency controlled drive.

#### **Automatic Closing Machine for continuous operation**

Machine Type: KVK108B

Machine No. :9964

Year of manufacture: 2013

Output infinitely variable up to 300vial /minute (Depending on type of container and of closure)

Switch for maximum accumulation at machine discharge, ,

Safety device: no stopper-no cap

Worm gear running in oil bath

Check station for aluminum cap presence

#### **Transport Conveyor**

Machine Type: TRB

Machine No. :9966

Year of manufacture: 2013

#### **Passive RABs Covering DTP DFVK KVK**