

Alpha-Vet Animal Health LTD.  
Pharmaceutical Plant  
Veterinary Products Bábolna



# ABOUT THE FACTORY IN GENERAL

## THE BUILDING

**Built by traditional technology according to the production requirements – contains production area and rooms for supporting activities**

**The building contains:**

**Production area:**

- Weighing rooms
- Granulation area
- Powder technology for premixes
- Tableting area
- Liquid technology (solutions and suspensions)
- Secondary packaging area

**Storage area:**

- Storages for starting materials
- Storage for quarantine and semi-finished products
- Storage for finished products

**Supplying systems**

- HVAC system
- Compressed air system
- Air treating system for fluid granulation
- Purified Water supplying system

- **Production and supporting activities are placed on the first floor, offices and quality control laboratory are located on the second floor.**
- **Size of whole plant – including the laboratory and supporting areas – is 1.100 m<sup>2</sup>**



# PRODUCTION OF POWDER MIXTURES

## HORIZONTAL BARREL MIXER

- Mixing capacity: 300 kg (600 litre)

## AUTOMATIC SACK FILLER

- Prepares sacks from 390 mm wide flat foil by a forming unit
- Suitable for different foils (BOPP or laminated foils)
- Filling range between 50-1000 gram

## AUTOMATIC BAG FILLING DEVICE

- For dispensing and closing 10 to 50 kg paper bags
- Relocatable to any other machines



# FLUID GRANULATION

## FLUID GRANULATOR

- Suitable for granulation of powders, maximal batch size is 250 kg.
- Peristaltic liquid dispenser
- Solution preparation tanks for making binder solutions

## 2,000 LITER HOMOGENIZATOR

- For homogenization of dry or slightly damp powders and granulates
- Maximum filling weight: 800 kg

## OSCILLATION SIEVER AND ROTATION REGRANULATOR

- The oscillation siever for sieving powders
- The rotation regranulator for milling and standardising particles or granulates





# TABLETT PRESSING, BLISTREING

## TABLETING MACHINE

### 4 tablet punches tablet press

- Rotary system
- 30.000-70.000 tablets/hour
- 400-1200 milligram tablet weight

## BLISTERING MACHINE

- Suitable for PVC and aluminium packaging materials
- Card size of even 110 mm x 140 mm

## V-BLENDER

- Capacity of 300 l
- For homogenisation of granulates before tableting



# LIQUID TECHNOLOGY

## SOLUTION PREPARATION HAPPENS IN CLASS „C” AREA

- General batch size 250 – 500 litres

## ROOMS OF LIQUID PRODUCTION PLANT

- Separated material air locks for incoming starting and primary packaging materials from Class D to Class C
- Separated material air lock for outgoing semi-finished products from Class C to Class D, to storing area
- Separated personnel air lock from Class D to Class C
- Weighing room for liquids
- Solution preparation room
- Filling room
- Separated Washing room for assets of liquid production

## AUTOMATIC SOLUTION PREPARATION SYSTEM FOR SOLUTIONS AND SUSPENSIONS

- PLC managed system
- 250 and 500 litres heatable vessels
- 600 litres storing tank for filling
- Mixers
- CIP
- Colloid mill for suspensions

## FILLING SYSTEM FOR SOLUTIONS AND SUSPENSIONS

- Peristaltic pump
- Buffer tank with mixer
- Semiautomatic pneumatic filling machine  
(filling volume: 100-1000 ml solutions and suspensions)

## CAPPING MACHINE

- Suitable for closing flacons with multiform caps

## INDUCTIVE CLOSING MACHINE

- Suitable for closing flacons with inductive seals



# QUALITY CONTROL LABORATORY

1. Measurements for API's and
  - a. IR-identification
  - b. Particle size by Malvern Mastersizer
  - c. Assay by HPLC or GC-method or UV-Spectrophotometry or Titrimetric-method
  - d. Optical rotation determination
  - e. Loss on drying or KF-water content
  - f. pH-measurements
  - g. conductivity measurements
2. Measurements for different types of products (powders, tablets/film-coated tablets/capsules, granules etc.)
  - a. Physical parameter measurements
    - i. Particle size by Malvern Mastersizer or Sieve-analysis
    - ii. Loss on drying or KF-water content
    - iii. friability, hardness, disintegration for solid dosage forms
    - iv. pH-measurements
    - v. conductivity measurements
  - b. Chemical parameter measurements
    - i. Assay – measured by diverse methodology (HPLC, UV-Spectrophotometry or Titrimetric-method)
    - ii. Impurity measurements with adequate methodology (HPLC or GC)
    - iii. Dissolution for solid dosage forms followed by HPLC, UV-Spectrophotometry or Titrimetric-measurement





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