

The Height of Performance

**NKP**



NKEW-200

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**NKEW-200**  
**AUTOMATIC EXTERNAL VIAL WASHING MACHINE**

# AUTOMATIC EXTERNAL VIAL WASHING MACHINE

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## OPERATION

The External Vial Washing Machine is designed to wash the outer surface of round shaped Vials (5ml to 100ml Vials). This machine washes the outer sides of Vials and eliminates the particles that are formed on the vials, which are previously filled and sealed.

From the infeed Turn Table the vials are fed into the External Vial Washing Machine conveyors. The machine consists of two conveyors on which the vials are properly fed and transported from Infeed Turn Table for the washing operation. Two operations are carried out on this machine, First the vials are washed by water jet and then dried by air jet. On the sides of the conveyor a set of spray nozzles are fitted on each conveyor for water jet. One set of knives blocks are provided on each conveyor for air jet. The air is sprayed through this knives. The knives are fitted in a inclined manner which ensures that the air that is sprayed reaches the each corner of the vial which are previously washed. After washing and drying the vial are guided to the outfeed Turn Table. Before reaching the outfeed Turn Table a special arrangement is provided to dry the vial from the bottom side. A set of syringes are provided on the sides of each conveyor at the exit end which sprays the air jet on the bottom part of the vial resulting in the drying of the vials. This machine is completely operated by PLC. A covering of Acrylic cabinet is provided in the machine which when opened up during the operation immediately stops the supply of water & air and shows the indication with alarm in the PLC.

## SALIENT FEATURES

- Total cGMP model
- S.S. frame structure
- Can handle vial sizes from 5ml to 100ml without any change parts (No change parts required)
- "NO VIAL NO WASHING" system eliminates wastage of water & air.
- Easy cleaning & maintaining
- Machine is equipped with PLC system.
- Stops supply of water & air when acrylic doors opened during operation.
- Indication & alarm in PLC.
- Normal water required for washing, No hot water required.
- When there is no vial on conveyor, it stops the water & air supply.

## UTILITIES: (TO BE PROVIDED BY BUYER)

Pneumatic Air :- Filtered, oil free, sterile low pressure Air at 5kg/cm<sup>2</sup> (4/6 bar) 150 CFM.

Water supply: 120 Liters /hour (Approx.)

Note : You can reuse the drain DM water which is used in the vial washing machine

## BASIC MACHINE CONSIST OF

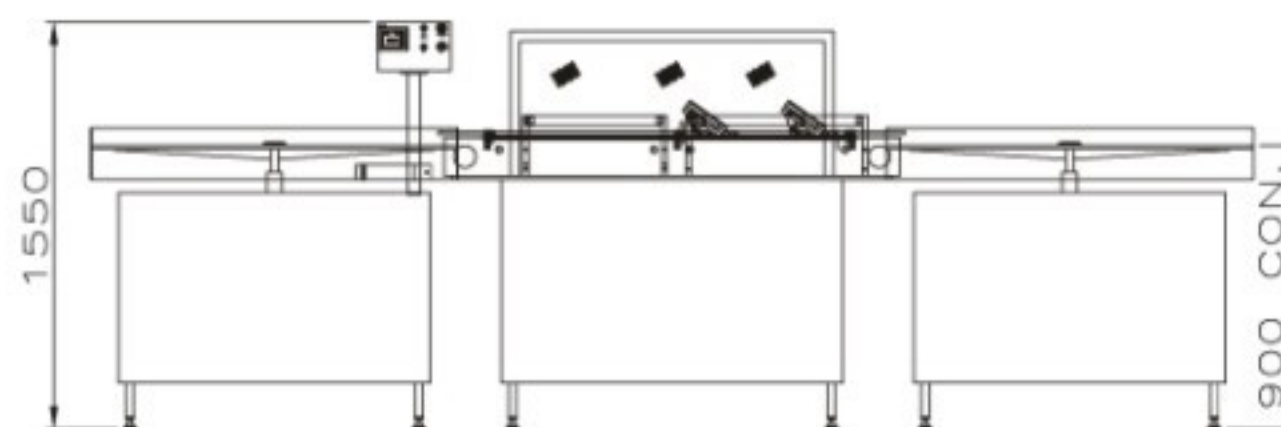
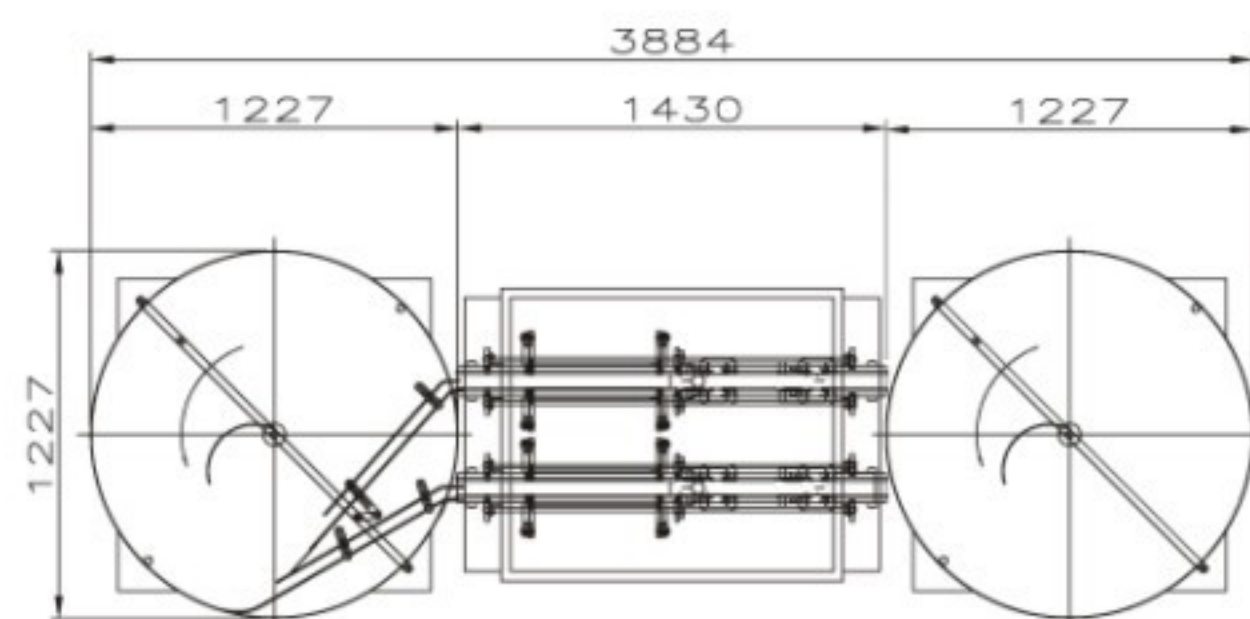
- PLC Control for the machine.
- Infeed & outfeed Turn Tables.
- Imported Gear motor for main drive, unscrambler and scrambler.
- A.C.frequency drive for main drive, unscrambler and scrambler.
- "No vial No Washing" system.
- Acrylic cabinet for machine.

## MACHINE SPECIFICATION

Model No.	: NKEW200
Direction	: Left To Right
Production Rate	: Up to 200 Vials / Min for single dose
Electrical Supply	: 210 Volts 3 Phase 50/60 Hz (5 Wire)
Power Requirement	: 2 HP
Height of Conveyor	: 900 MM (Approx.)
Dimension	: 3870 MM(L) X 930 MM (W) X 1550 MM (H)
Net weight	: 550 KGS. (Approx.)
Gross weight	: 1211 KGS. (Approx.)

## INPUT SPECIFICATION

Container Diameter	: 25 MM to 60 MM MAX.
Height	: 38 MM to 120 MM.



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