

# **AUTOMATIC LATEX CONDOM** **PRODUCTION LINE**



**PLOT NO F-3, CAMERON INDUSTRIAL PARK, OPP.  
DWARKA HOUSING, AMBETHAN, CHAKAN, PUNE,  
MAHARASHTRA, - 410501, INDIA**

**Mobile /WhatsApp: - +919096115174, +917219540695**

**EMAIL: - [vsindustries99@gmail.com](mailto:vsindustries99@gmail.com)**

## INTRODUCTION OF CONDOM

A condom is a sheath-shaped barrier device that is mainly used during sexual intercourse to reduce the risk of contracting sexually transmitted diseases and female pregnancy. Most modern condoms are made of latex, and people with latex allergies should choose non-latex condoms, such as polyurethane condoms

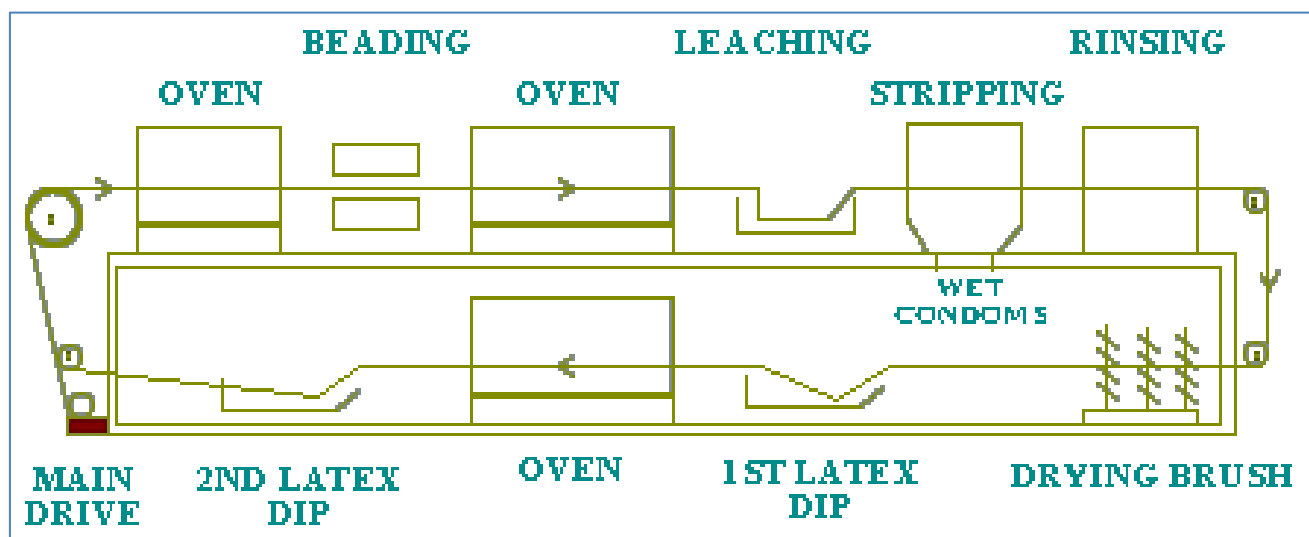
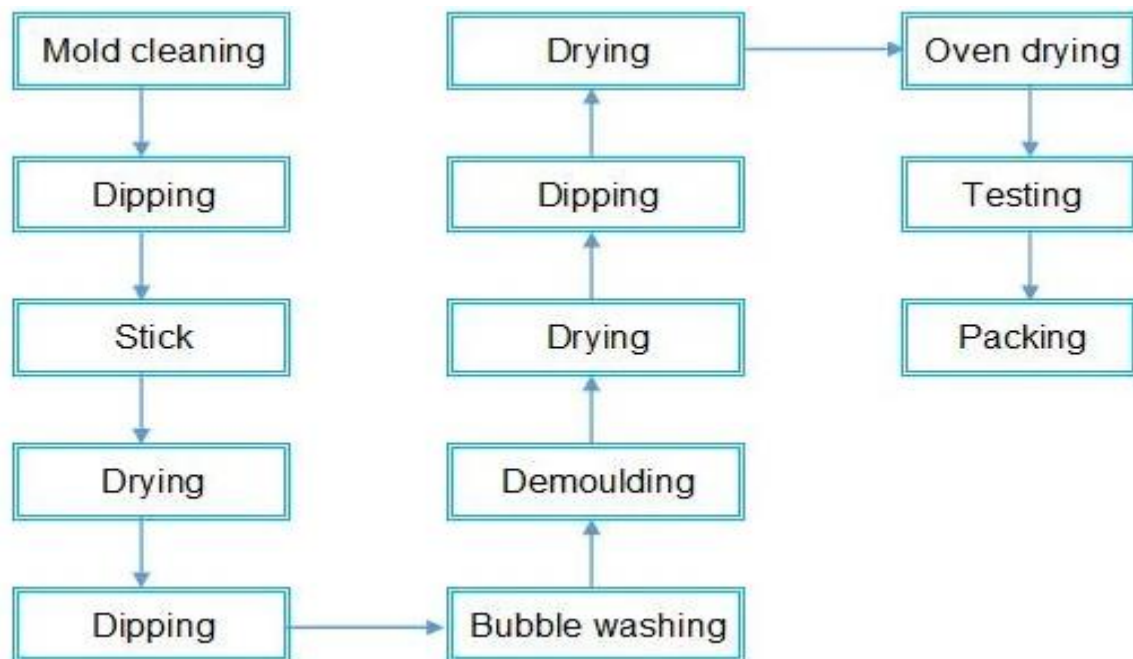
## MAIN TECHNICAL PARAMETERS

- Machine dimension (in meter) (L×W×H): **44 x 4x 6, 55 x 4 x 6, 65 x 4 x6**
- Power Supply: 380V, 50hz
- Power: 50KWH, 55KWH, 60KWH
- Capacity: **100,000 pcs/day, 150,000 pcs/day, 250,000 pcs/day,**
- Product qualification rate: ≥98% (After debugging the equipment, the Seller shall notify the buyer. If the buyer accompanies the test run for 3 days and the product qualification rate has reached the standard, the equipment shall be deemed to be qualified)
- Fuel: Oil/Natural gas (Optional)
- Worker:16-18 workers/shift
- Heat consumption: 1,000,000kcal/hr
- Latex consumption: a/c to machine
- Water consumption: 10 tons/day
- Soft water: 5T / 24h

## TECHNICAL CHARACTERISTICS

- Adopt advanced latex dipping technology, advanced process layout and diversified adjustment of production technology.
- Cancel the ammonia water swelling process, which is changed to extended alkaline tank design. Reach the effect of swelling and leaching, environmental protection and saving.
- Templates are fabricated with SS304 plate. The whole chain is driven by two sets of main motors, with varying frequency speed control system. The equipment's are running smoothly and steadily.
- The whole machine is equipped with stainless steel plates in the ceiling, and sealed with plastic steel.
- . The equipment is designed fully, effectively, reliably and reasonably to prevent the condom from bubble head, flow reversals, wryneck, curling, pinholes etc.
- Can produce different kinds of common and irregular-shaped condoms with shiny side, granule, thread and multicolour.
- Adopt the fully-enclosed stainless-steel tubes to pressure convey the latex material in production.
- Clean Water stripping, continuous acid washing, fully ensure the moulds and equipment clean.
- Dehydration and direct drying in post vulcanization makes the production operation more energy saving and simple

## PRODUCTION PROCESS



## MATERIAL REQUIREMENT

Sr.no	Name	Use
<b>MIXING EQUIPMENT</b>		
1	Vulcanization Tank	Pre-vulcanization
2	Blender	
3	Storage tank	Storage and maturing
4	Pressure tank	Latex centrifugation and conveying
5	High speed centrifuge	Latex centrifugation
6	Mixing tank	Mix the material
7	Polymer Tank	
8	Coagulant mixing tank	
9	Sand mill	
10	Diaphragm Pump, Transport pipe	
11	Centrifugal filter barrel	For filtering
12	One time filter barrel	For filtering
13	One-Off Filter	For filtering
14	Filter screen	For filtering
15	Latex funnel	Funnel
16	Latex tank filter funnel	Funnel
17	Compounding drive cabinet	Electrical control of compounding equipment
18	Main control console	Electrical control of the dipping machine
<b>EQUIPMENT FOR HEATING SOURCE</b>		
19	Thermopack/Air heater	
<b>DIPPING EQUIPMENT</b>		
20	Dipping machine	Condom forming and shaping
21	Formers & former holders	Moulds and the mould jigs
22	The first-time latex adding tank	To add the latex
23	The second- and third-time latex adding tan	To add the latex
24	Stirring machine	
<b>POST VULCANIZATION EQUIPMENT</b>		
25	Vulcanizing machine	Condom post vulcanization
26	Testing equipment	
27	Automatic water testing machine with 12-Head	To detect pinholes in the lab
28	Inflation tester with 2-Head by computer control	Condom inflation experiment
29	Quick testing machine	Latex quick testing in production process
<b>LAB PROCESS</b>		
30	Pressure measuring machine	
31	Thickness Meter	
32	Electric water leakage tester	
34	Viscometer	
35	Alcohol thermometer	
36	Hydrometer	
37	Infrared radiation thermometer	
38	Electronic Balance	
39	Dry electric inspection tester	

PACKING PROCESS		
40	Condom bagging machine	
41	Automatic box packing machine	
42	Transparent film packing machine	
UTILITIES		
43	Air compressor	To convey latex
44	Air Storage Tank	for required store Air
45	Water purifier	To make soft water
46	Chiller	

## **LIST OF CHEMICAL SUBSTANCES**

SR. NO	SUBSTANCE
1	Ammonia (NH <sub>3</sub> )
2	Antioxidant 2246 (2,2'-methylenebis(4-methyl-6-tert-butylphenol))
3	Carbon dioxide or carbonic acid gas (CO <sub>2</sub> )
4	Formaldehyde (formalin, methanal)
5	Hydrocarbons
6	Mica
7	Mineral oil
8	Nitrogen oxides (NO and NO <sub>2</sub> )
9	Nitrosamines
10	Nonoxynol-9
11	Potassium laurate and laurate acid (n-dodecanoic acid)
12	Rubber
13	Sulphur (S <sub>8</sub> )
14	Sulphur dioxide (SO <sub>2</sub> )
15	Talc
16	Tetramethyl thiuram Disulphide (TMTD)
17	Toluene (methylbenzene) (C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> )
18	Zinc Dibutyldithiocarbamate (ZDBC)
19	Zinc-2-Mercaptobenzothiazole

**Notice: - All parameters provided above are for reference only. Actual field installation Should be subject to specific design.**