



N. K. INDUSTRIES

"leading through innovation"

Pioneer Manufacturer & Supplier of
Pharmaceutical, Food, Processing
& Packaging Machinery

SINCE 1978



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About “N K Industries”

*“Leadership through
Innovation”*

- ★ N. K. Industries enjoys manufacturing excellence in the field of industrial machinery for pharmaceuticals, chemicals, cosmetics, pesticides, food & beverages and packaging industries.
- ★ N.K Industries has become a pioneer and trust worthy name since about more than three decades especially in field of Pharmaceutical machinery.
- ★ With Built up area of 2500 Sq Ft in 1000 Sq yard Land, we have complete in-house capabilities to design, engineer, and tool and manufacture machinery in compliance to international standard.
- ★ N.K. Industries has goal to provide highest quality, most cost effective equipment solutions.
- ★ More than 2500 machines supplied by us are successfully running in India & abroad with reputed multinational firm.
- ★ During a very long and progressive span of experience in machinery manufacturing field, we have adopted continuous improvement and innovation to satisfy customized customer's requirements.
- ★ During the manufacturing process, we follow the required standard very strictly to match our products with customer's satisfaction. Further our Quality and design management system has been approved by D & B.

Quality Policy

- ★ “At N K Industries, we will consistently provide products that meet and exceed customer and regulatory requirements and will continually improve our quality system to enhance customer satisfaction.”



LABELING MACHINE

Automatic Vertical Self Adhesive Sticker Labeling Machine Model NKSAL -120



TECHNICAL SPECIFICATION



LABELS

Model	NKSAL-120	NKSAL-240
Operating Direction	Left to Right	Left to Right
Speed	Up to 120 Container/min.	Up to 240 Container/min.
Type of Labeling	Wrap around	Wrap around
	Partial wrap around	Partial wrap around
Container suitability for labeling	Vial Labeling	Vial Labeling
	Round Glass bottle	Round Glass bottle
	Round Plastic Bottle	Round Plastic Bottle
	Pet Bottle	Pet Bottle
Label Height	10 mm to 160 mm	10 mm to 160 mm
Label Length	12 mm to Unlimited	12 mm to Unlimited
Gap between two labels	Min. 5 mm	Min. 5 mm



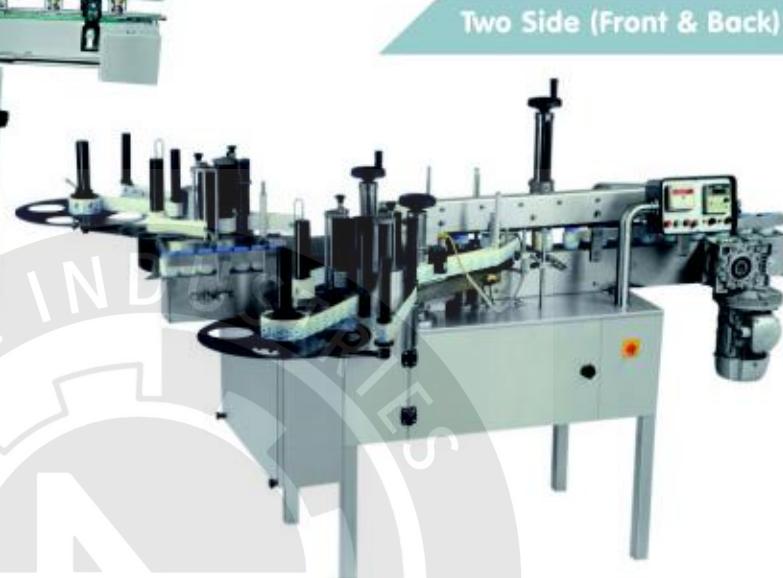
SALIENT FEATURES

- Quite a compact design as well as cGMP model.
- Superior Slider Label Applicator for better label alignment in both vertical & horizontal direction.
- Specially designed reel mechanism to place the roll.
- Breaking assembly to avoid variation during releasing of roll.
- No Change Parts Required.

- Wrap around mechanism to wrap the label on container.
- Auto Label Length Detection.
- Accurate label dispensing.
- Practically a maintenance free machine.
- Provision for all type of online batch coding like Ink Coder, Cassette Coder, Hot Foil Coder, SS Metal Stereo Box for printing, thermal inkjet printer.



Single Side



Two Side (Front & Back)



TECHNICAL SPECIFICATION

Model	Single Side	Two Side	Model	Single Side	Two Side	
Operating Direction		Left to Right	Label Core Dia.	75 mm to 76 mm Ø		
Speed	Up to 120 Containers / min*		Container Diameter	20 mm to 90 mm Ø		
Type of Labeling	Single Side Flat bottle	Front & Back	Power Consumption	1 KW		
		Flat bottle	Electrical Connection	230 Volts, Single Phase, 50 Hz		
		Double Side	Height of Conveyor	Adjustable from 800 to 850 mm		
Label Height	10 mm to 160 mm		Dimension	2000 mm (L) x 1250 mm (W) x 1500 mm (H)		
Label Length	12 mm to Unlimited		Weight	300 Kgs (Approx.)		
Gap between two labels	Min. 5 mm		Gross Weight	500 Kgs (Approx.)		
Label Roll Dia.	300 mm Max. Ø		*(Depends upon Container and Label Size)			



SALIENT FEATURES

- Quite a compact design as well as cGMP model.
- Superior Slider Label Applicator for better label alignment in both vertical and horizontal direction.
- Specially designed reel mechanism to place the roll.
- Breaking assembly to avoid variation during releasing of roll.
- No Change Parts Required for label size.
- Tool Less Guide Rails for Easy Adjustment.
- Least change part for container size.
- TOP press belt system to apply axial pressure on containers to facilitate correct label application.
- Auto Label Length Detection.
- Accurate label dispensing.
- Provision for all type of online batch coding like Ink Coder, Cassette Coder, Hot Foil Coder, SS Metal Stereo Box for printing, thermal inkjet printer.



LABELING MACHINE

Automatic Vertical Rotary Ampoule Sticker Labeling Machine



TECHNICAL SPECIFICATION

Model	NKSAL-250A	NKSAL-400A
Speed	250 Ampoule/Minute	400 Ampoule/Minute
Container Suitability	Ampoule Labeling	Ampoule Labeling
	Vial Labeling	Vial Labeling
Type of Labeling	Wrap around	Wrap around
	Partial wrap around	Partial wrap around
Label Height	10 mm to 80 mm	10 mm to 80 mm
Label Length	20mm to 70 mm	20mm to 70 mm
Gap between two labels	Approx. 3 mm	Approx. 3 mm

Model	NKSAL-250A	NKSAL-400A
Label Roll Dia.	300 mm Max. Ø	300 mm Max. Ø
Label Core Dia.	75 mm to 76 mm Ø	75 mm to 76 mm Ø
Container Diameter	8 mm to 20 mm Dia	8 mm to 20 mm Dia
Power Consumption	1.5 HP	2 HP
Electrical Connection	230 Volts, Single Phase 50 Hz.	
Dimension	1300mm (L) x 1250 mm (W) x 1500mm (H)	1530MM (L) x 1850mm (W) x 1500MM (H)



SALIENT FEATURES

- Modular design as well as cGMP model.
- Machine frame made using AISI 304.
- No Change part required for change in Label Size.
- Superior Slider Label Applicator for better label alignment in both vertical and horizontal direction.
- Specially designed reel mechanism to place the roll.
- Highly efficient Breaking assembly to avoid variation during releasing of roll.
- No Change Parts Required.
- Tool Less Guide Rails for Easy Adjustment.
- Wrap around mechanism to wrap the label on container.
- Auto Label Length Detection.
- Accurate label dispensing.
- Almost a maintenance free machine.
- Provision for all type of online batch coding like thermal inkjet printer.

WET GLUE LABELING



Automatic Wet Glue Labeling Machine



High Speed NHL-300

NHL-150

TECHNICAL SPECIFICATION

Model	NHL-150	NHL-300
Direction	Left To Right.	Left To Right.
Production Rate	Up to 150 Containers / Min*	200 unit / minute
Unscramble	762 MM Diameter.	-
Electrical Supply	1.00 HP For Main Drive.	1.00 HP For Main Drive.
	0.50 HP for Vacuum pump.	3.00 HP for Vacuum pump.
Power Requirement	440 Volts, 3 Phase (4 wire System) 50 Hz.	440 Volts, 3 Phase (4 wire System) 50 Hz.
Height of Conveyor	Adjustable from 800 To 850 MM	Adjustable from 800 To 850 MM
Dimensions	1830 MM (L) X 1100 MM (W) X 1100 MM (H)	2700 MM (L) X 900 MM (W) X 1100 MM (H)
Net Weight	580 KGS. (Approx.)	-
Gross Weight	950 KGS. (Approx.)	-
Container Diameter	16 MM To 70 MM MAX	16 MM To 90 MM MAX
Label Size	Length : 20 MM To 130 MM Maximum	20 mm X 45 mm Min. (W) X 90 mm X 175 mm Max. (L)

*depending upon container diameter and Label dimension.



WET GLUE LABELING

Salient Features



NHL-150

- Total cGMP model.
- Stainless Steel cladding or hard chrome plating of all exposed parts to ensure long life and resistance against corrosion.
- Special design and heat-treatment of all moving / rotating parts to absorb normal wear and tear.
- Special self-aligning bearing ensure smooth and trouble free rotation of the parts.
- "No Container, No Label" an electrical sensing device avoids wastage of labels. It also helps in keeping the unit neat and clean.
- No Label – No Glue System.
- Minimum change over time is required from one size of container or label to another.
- Quick change of speed or the adjustment of the complete system and synchronization is possible automatically with the help of % speed pot on operating panel.
- Suitable for OVERLAP LABELING where the length of label is more than the circumference of the container.
- A high efficient vacuum pump develops sufficient vacuum to hold labels on pick-up cylinder.



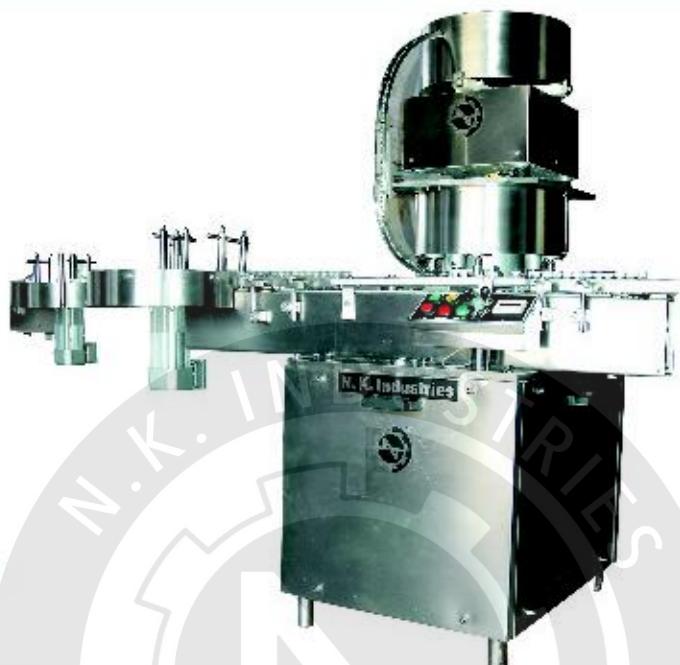
NHL-300

- Total cGMP model.
- Stainless Steel cladding or hard chrome plating of all exposed parts to ensure long life and resistance against corrosion.
- Special design and heat-treatment of all moving / rotating parts to absorb normal wear and tear.
- Special self-aligning bearing ensure smooth and trouble free rotation of the parts.
- A high efficient vacuum pump develops sufficient vacuum to hold labels on pick-up cylinder.
- 30 to 50% Glue Saving on each Label due to Strip Gluing System
- No Label - No Gluing System eliminating wastage of Glue
- No Bottle - No Label System eliminating wastage of Labels
- No Label - No Coding System eliminating wastage of Ink
- Easy to Change Label Application height on Bottles
- Built in Vial Jamming Sensor to avoid damage/ breakage to the Vials at in feed
- Synchronized speed of Label application with Gluing, Printing and Vial Feeding
- Fully Gear Drive System - No Chain Drive
- Easy Change over system - No Setting of Master or Cam for timing
- Least Change over time for Bottle and Label Change Parts
- Suitable for any type of Grooved Surface of Product
- Suitable for Partial, Full Wrap Around and Overlap Labeling
- Fully Stainless Steel finish Machine

VIAL CAPPING



Automatic Single Head Vial Capping Machine



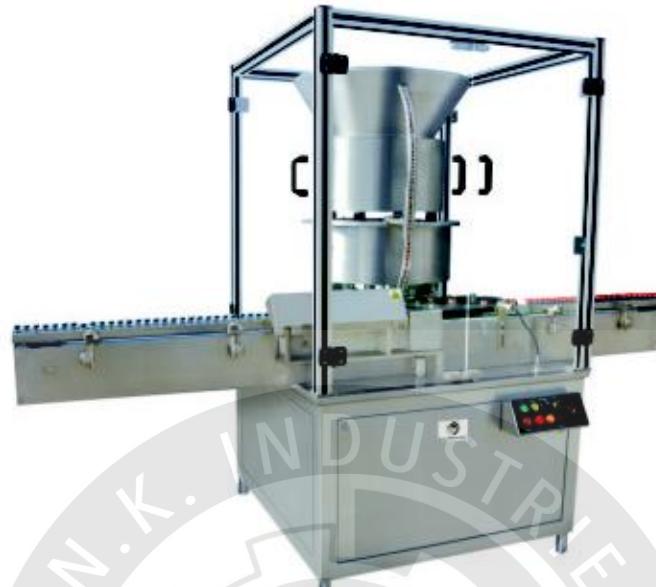
NKCS-50

TECHNICAL SPECIFICATION

Model	NKCS - 50
Machine type	Single head Vial capping machine
Direction	Left to Right
Vial Diameter (mm)	Up to 45 mm
Vial Height (mm)	75mm* Maximum
Flip off Seal / Tear off Seal Sizes	Applicable for 13mm, 20mm, 32mm
Production rate	Up to 60 Vial per minute
Electrical supply	0.5 HP for Main Drive
No of Sealing Head	Single head
Power requirement	230 V, 1 Phase (4 Wire System) 50 HZ
Height of Conveyor	Adjustable from 800 to 850 mm
Dimension (L X W X H) mm	1220 X 635 X 1700

SALIENT FEATURES

- Quite Compact footprint
- CGMP Model.
- Due to very elegant design it results in User friendly operation & minimum maintenance.
- Parts coming in contact with the vial, aluminum cap are made out of AISI 304.
- Minimum size change-over & set-up times
- Crease free sealing & qualitative hermetic sealing.
- Sealing Pressure can be varied according to diverse sizes of Flip off caps & tear off caps.
- An extraordinary safety clutch device is incorporated on star wheel system for stoppage of machine in the event via gets overturned or in any jamming.
- Lowest particle generation. As an option, specially designed Viton sealing roller & Pneumatic Sealing head available.
- "No Cap – No Vial" system.

**TECHNICAL SPECIFICATION**

Model	NKCS-150	NKCS-250	NKCS-350	NKCS-450
Machine type	4 head Vial	6 head Vial	8 Head Vial	12 Head Vial
Direction	Left to Right	Left to Right	Left to Right	Left to Right
Vial Diameter (mm)	Up to 45 mm	Up to 45 mm	Up to 45 mm	Up to 45 mm
Vial Height (mm)	75mm* Maximum	75mm* Maximum	75mm* Maximum	75mm* Maximum
Flip off Seal / Tear of Seal Sizes	Applicable for 13mm, 20mm, 32mm			
Production rate	Up to 120 Vial per minute	Up to 200 Vial per minute	Up to 300 Vial per minute	Up to 400 Vial per minute
Electrical supply	1 HP for Main Drive	1 HP for Main Drive	1.5 HP for Main Drive	2 HP for Main Drive
No of Sealing Head	Four head	Six Head	Eight Head	Twelve HEAD
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ			
Height of Conveyor	Adjustable from 800 to 850 mm			
Dimension (L X W X H) mm	1530 x 768 x 1530	1530 x 768 x 1530	1830 X 768 x 1600	2200 x 1050 x 1900

**SALIENT FEATURES**

- Quite Compact & Modular design.
- CGMP Model.
- Very effortless design thus results in User friendly operation & minimum maintenance.
- Parts coming in contact with the vial, aluminum cap are made out of AISI 304.
- Minimum size change-over & set-up times
- Specially developed & Designed Cam which applies Gradual pressure during sealing process thus results in to wrinkle free sealing & qualitative hermetic sealing.
- Sealing Pressure can be varied according to diverse sizes of Flip off caps & tear off caps.
- An extraordinary safety clutch device is incorporated on star wheel system for stoppage of machine in the event via gets overturned or in any jamming.
- Lowest particle generation. As an option, specially designed Viton sealing roller & Pneumatic Sealing head available.
- "No Cap – No Vial" system.



Automatic Single Head Ropp Capping Machine



TECHNICAL SPECIFICATION

Model	Single Head Ropp Capping	Model	Single Head Ropp Capping
Direction	Left To Right.	Dimensions	1200 MM (L) X 750 MM (W) X 1900 MM (H)
Type of Capping	ROPP Type capping	Net Weight	550 KGS (Approx.)
Production Rate	Up to 50 Bottles/Min depending upon container Diameter & height	Gross Weight	740 KGS (Approx.)
Electrical Supply	1.25 HP	Bottle Diameter	22 MM To 65 MM MAX.
No of ROPP Capping Head	Single	Height	55 MM To 110 MM MAXIMUM.
Power Requirement	440 Volts, 3 Phase (4 wire System) 50 Hz.	ROPP Caps	22, 25 & 28 MM DIAMETER.(with help of change parts)
Height of Conveyor	Adjustable from 800 To 850 MM		



SALIENT FEATURES

- Compact & adaptable unit as per GMP standard.
- Parts coming in contact with bottle / ROPP cap are made out of AISI 304, good housekeeping
- Single motor synchronizes conveyor, star wheels and platform turret.
- Low Power consumption.
- A Special safety clutch device is being integrated on Star wheel system for stoppage of machine in the event, vial is over turned.
- A special background Suppression sensor stops machine automatically in the event, there is no aluminum cap in delivery chute.
- No Bottle – No Cap System.
- Sealing Pressure can be control / changed to suit diverse sizes of ROPP caps.
- Various cap feeding system available like vibrator feeder system,
- Mechanical orientator system or Water fall type elevator.
- Fast format Changeover from one size of container to other size.
- Distinctively designed position system prevents from cap being jammed.
- Precise counting arrangement helps to manage production process.
- Outfitted with emergency button for safety concern.
- All electrical & Brought out items are of CE certified.

**TECHNICAL SPECIFICATION**

Model	NKCS-150R	NKCS-250R	NKCS-350R	NKCS-450R
Direction	Left to Right	Left to Right	Left to Right	Left to Right
Production rate	Up to 100 Bottle/minute*	Up to 120 Bottle/minute*	Up to 180 Bottle/minute*	Up to 300 Bottle/minute*
Electrical supply	1 HP for Main Drive 0.25 HP for Orientation Unit		2 HP for Main Drive 0.50 HP for Orientation Unit	
No of Sealing Head	4 head	6 Head	8 Head	12 HEAD
Bottle Diameter (mm)	22 MM To 65 MM MAX.	22 MM To 65 MM MAX.	22 MM To 65 MM MAX.	22 MM To 65 MM MAX.
Bottle Height (mm)	55 MM To 110 MM MAX.	55 MM To 110 MM MAX.	55 MM To 110 MM MAX.	55 MM To 110 MM MAX.
ROPP Cap	20 mm to 40 mm	20 mm to 40 mm	20 mm to 40 mm	20 mm to 40 mm
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ			
Height of Conveyor	Adjustable from 800 to 850 mm			
Dimension (L X W X H) mm	1530 x 812 x 1900	1830 x 812 x 1900	2130 X 915 x 1900	3050 x 1050 x 1900

*for 50 ml bottle

**SALIENT FEATURES**

- CGMP Model, Compact Model & Modular system.
- Parts coming in contact with bottle / ROPP cap are made out of AISI 304, good housekeeping
- Single motor synchronizes conveyor, star wheels and platform turret.
- A Special safety clutch devices are being integrated on in feed & out feed Star wheel system for stoppage of machine in the event, vial is over turned.
- A special background Suppression sensor stops machine automatically in the event, there is no aluminum cap in delivery chute.
- No Bottle – No Cap System.
- Single Cam system which controls Head height & Cap pick-off assembly
- Sealing Pressure can be control / changed to suit diverse sizes of ROPP caps.
- Various cap feeding system available like vibrator feeder system, Mechanical cap feeder orientator or Water fall type elevator.
- Fast format Changeover from one size of container to other size due to use of custom designed part.
- Distinctively designed position system prevents from cap being jammed.
- 6 Digit precise counting arrangement helps to manage production process.

SCREW CAPPING



Automatic Inline Linear Screw Capping Machine



TECHNICAL SPECIFICATION

Particular	Specification
Operating direction	Left to write
Output	30 to 60 BPM
No of Tightening disc	6 Nos (3 set of cap tightening device)
Bottle Dia	40 to 80mm (up to 150 mm in special case)
Cap Dia	25 mm to 50 mm (up to 100mm dia in special Case)
Power Require	2 HP
Dimension	1000 (L) X 800(W) X 1500(H)mm
Net Weight	550 KG
Gross Weight	800 KG
PLC operation & Acrylic Cabinet	Available on demand



SALIENT FEATURES

- cGMP Model
- Parts coming in contact with bottle / screw cap are made out of AISI 304
- A special background Suppression sensor stops machine automatically in the event, there is no screw cap in delivery chute.
- 3 sets of tightening discs
- Various cap feeding option available like vibrator feeder system, Mechanical cap feeder orientator or Water fall type elevator.
- Tool less adjust for change in bottle size.
- 6 Digit precise counting arrangement helps to manage production process.



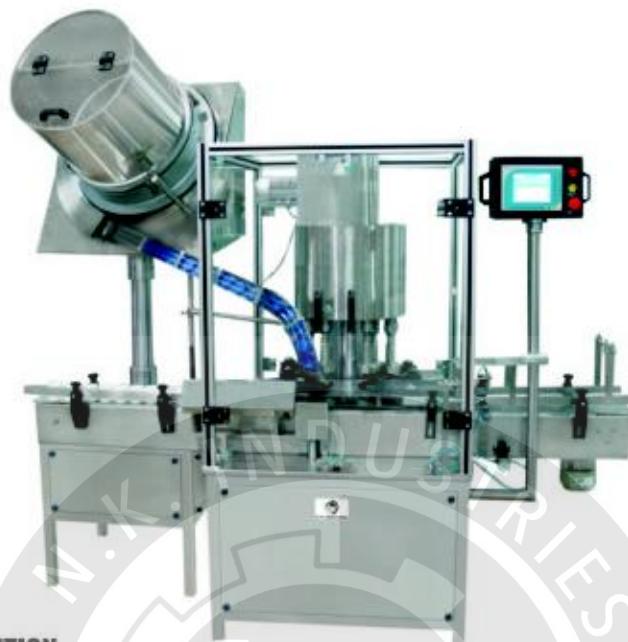
TECHNICAL SPECIFICATION

Particular	Specification	Particular	Specification
Direction	Left To Right.	Dimensions	1530 MM (L) X 850 MM (W) X 1900 MM (H)
Type of Capping	Screw capping	Net Weight	550 KGS (Approx.)
Electrical Supply	1.00 HP For Main Drive	Gross Weight	740 KGS (Approx.)
Output	40 -50 bottle / Minute	Container Diameter	22 mm to 100 mm
No of Sealing Head	Single	Height	15 mm to 100 mm
Power Requirement	230 Volts, 1 Phase 50 Hz.	Screw Caps	Diameter: 22 mm to 56 mm
Height of Conveyor	Adjustable from 800 To 850 MM		Height : 15 mm to 18.3 mm



SALIENT FEATURES

- Compact & adaptable unit as per GMP standard.
- Parts coming in contact with bottle / Screw cap are made out of AISI 304.
- Single motor synchronizes conveyor, star wheels and platform turret.
- A Special safety clutch device integrated on Star wheel system for stoppage of machine in the event, vial is over turned.
- A special background Suppression sensor stops machine automatically in case, there is no screw cap in delivery chute.
- No Bottle – No Cap System.
- Specially design Jaw type head for torque adjustment.
- Various cap feeding system available like vibrator feeder system, Mechanical orientator system or Water fall type elevator.
- Fast format Changeover from one size of container to other size.
- Distinctively designed position system prevents from cap being jammed.



TECHNICAL SPECIFICATION

Machine Name	4 Head Screw Capping	6 Head Screw Capping	8 Head Screw Capping	12 Head Screw Capping
Model	NKCS-150	NKCS-250	NKCS-350	NKCS-450
Direction	Left to Right	Left to Right	Left to Right	Left to Right
Production rate	Up to 100 Bottle/minute*	Up to 120 Bottle/minute*	Up to 180 Bottle/minute*	Up to 250Bottle/minute*
Electrical supply	1 HP for Main Drive 0.25 HP for Orientation Unit		2 HP for Main Drive 0.50 HP for Orientation Unit	
No of Screw Capping Head	4 head	6 Head	8 Head	12 Head
Bottle Diameter (mm)	22 MM To 100 MM MAX.	22 MM To 100 MM MAX.	22 MM To 100 MM MAX.	22 MM To 100 MM MAX.
Bottle Height (mm)	55 MM To 250 MM MAX.	55 MM To 250 MM MAX.	55 MM To 250 MM MAX.	55 MM To 250 MM MAX.
Screw Cap Dia	20 mm to 100 mm**	20 mm to 100 mm**	20 mm to 100 mm**	20 mm to 100 mm**
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ			
Height of Conveyor	Adjustable from 800 to 850 mm			
Dimension (L X W X H) mm	1530 x 815 x 1900	1830 x 812 x 1900	2130 X 915 x 1900	3050 x 1050 x 1900

*for 100 ml bottle, **(with the help of change part)

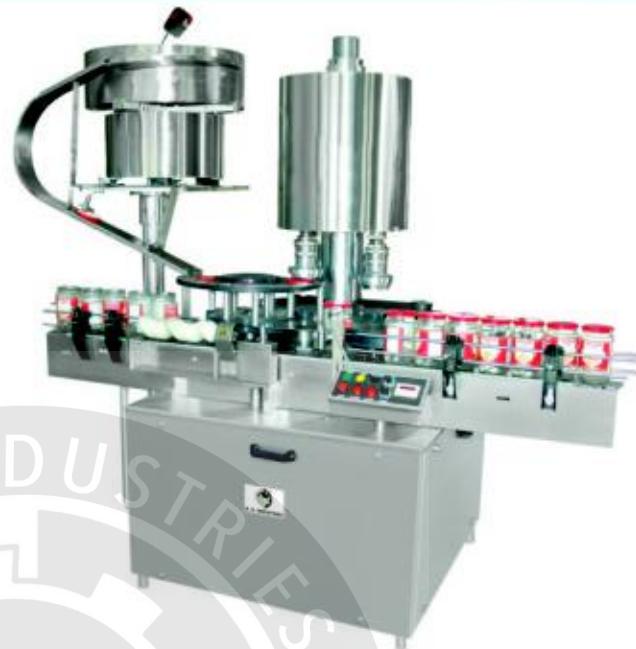


SALIENT FEATURES

- CGMP Model.
- Parts coming in contact with bottle / screw cap are made out of AISI 304, good housekeeping
- Single motor synchronizes conveyor, star wheels and platform turret.
- A Special safety clutch devices are being integrated on in feed & out feed Star wheel system for stoppage of machine in the event, vial is over turned.
- A special background Suppression sensor stops machine automatically in the event, there is no screw cap in delivery chute.
- No Bottle – No Cap System.
- Single Cam system which controls Head height & Cap pick-off assembly
- Specially design Jaw type head for torque adjustment.
- Various cap feeding option available like vibrator feeder system, Mechanical cap feeder orientator or Water fall type elevator.
- Fast format Changeover from one size of container to other size due to use of custom designed part.
- Distinctively designed position system prevents from cap being jammed.
- 6 Digit precise counting arrangement helps to manage production process.



This inventive series of Automatic Multi head pick and Place Rotary Screw capping machine is extension to conventional shut pick screw capping technology. Here the Machine is equipped with specially designed two CAM systems with one cam lift the cap precisely and other CAM places that cap perfectly on bottle thus allow nearly 100 % Screw capping.



TECHNICAL SPECIFICATION

Machine Name	4 Head Screw Capping	6 Head Screw Capping	8 Head Screw Capping
Model	NKCS-150P	NKCS-250P	NKCS-350P
Direction	Left to Right	Left to Right	Left to Right
Production rate	Up to 100 Bottle/minute*	Up to 120 Bottle/minute*	Up to 180 Bottle/minute*
Electrical supply	1 HP for Main Drive 0.25 HP***		2 HP for Main Drive 0.50 HP***
No of Screw Capping Head	4 head	6 Head	8 Head
Bottle Diameter (mm)	22 MM To 80 MM MAX.	22 MM To 80 MM MAX.	22 MM To 80 MM MAX.
Bottle Height (mm)	55 MM To 200 MM MAX.	55 MM To 200 MM MAX.	55 MM To 200 MM MAX.
Screw Cap Dia	20 mm to 52 mm**	20 mm to 52 mm**	20 mm to 52 mm**
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ		
Height of Conveyor	Adjustable from 800 to 850 mm		
Dimension (L X W X H) mm	1530 x 812 x 1900	1830 x 812 x 1900	2130 X 915 x 1900

*for 100 ml bottle, **(with the help of change part), ***for Orientation Unit



SALIENT FEATURES

- CGMP Model, Compact Model & Modular system.
- Parts coming in contact with bottle / screw cap are made out of AISI 304, good housekeeping
- Single motor synchronizes conveyor, star wheels and platform turret.
- A Special safety clutch devices are being integrated on in feed & out feed Star wheel system for stoppage of machine in the event, vial is over turned.
- A special background Suppression sensor stops machine automatically in the event, there is no screw cap in delivery chute.
- Electro-pneumatic No Bottle – No Cap System.
- Two Cam system which controls Cap pick up assembly and Cap release assembly
- New innovative Magnetic hysteria sealing head for capping on bottle with incorporated clutch system.
- Various cap feeding option available like vibrator feeder system, Mechanical cap feeder orientator or Water fall type elevator.
- Fast format Changeover from one size of container to other size due to use of custom designed part.
- Distinctively designed position system prevents from cap being jammed.
- 6 Digit precise counting arrangement helps to manage production process.



Automatic Monoblock Inner Plugging Screw Capping Machine



TECHNICAL SPECIFICATION

Particular	Specification	Particular	Specification
Direction	Left To Right.	Screw Cap	22 mm to 52 mm dia cap (with the help of change part)
Electrical Supply	2.00 HP	Bottle diameter	22 mm to 80 mm max
Output	50-55 bottle / Minute	Bottle height	55 mm to 200 mm max
No of Capping Head	1 Nos inner cap Pneumatic head	Power Requirement	440 Volts, 3 Phase 50 Hz.
	1 Nos Screw cap head	Height of Conveyor	Adjustable from 800 To 850 MM
inner plug feeder system	Vibrator feeder with Chute	Dimension	1830 mm (L) X 915 mm (W) X 1530 mm (H)
Screw Cap Feeder system	Mechanical Orientator with chute	Inner plug adaptability	19 mm to 30 mm inner plug , PET Plug



SALIENT FEATURES

- CGMP ,Compact & Ergonomic Model
- Single unit can perform two operation together i.e. screw capping & Inner plugging.
- Parts coming in contact with bottle / screw cap / inner plug are made out of AISI 304
- Single motor synchronizes conveyor, star wheels and platform turret
- A Special safety clutch devices are being integrated on product wheel.
- A special background Suppression sensor stops machine automatically in the event, there is no screw cap & inner plug in respective chute.
- Unique vibrator based feeder for inner plug
- Mechanical orientator for Screw cap.
- No Bottle – No Plug – No Screw capping system
- 6 Digit precise counting arrangement helps to manage production process
- Outfitted with emergency button for safety concern.



LUG CAPPING

Automatic Twist off Cap Vacuum Lug Capping Machine



TECHNICAL SPECIFICATION

Particular	Specification	Particular	Specification
Direction	Left to right	Rated steam pressure	≤ 0.4MPa
Applicability	Twist off cap , POP up cap ,Lug Cap	Power	5 HP
Cap diameter	30-85 mm	Machine Dimension	1800mm (L) ×1100mm (W) ×2000mm (H)
Bottle diameter	Up to 160 mm	Machine weight	1000 KG
Bottle height	65 to 260 mm		
Machine speed	50 bottle per minute		
Steam requirement	180 to 230 KG/ Hour		



SALIENT FEATURES

- Machine Structure is made of AISI 304.
- CGMP & Compact model.
- A special background Suppression sensor stops machine automatically in the event, there is no screw cap in delivery chute.
- Parabola Tracking Sliding principal to obtain unidirectional caps from vibrator feeder.
- Various cap feeding option available like vibrator feeder system, or Water fall type cap feeder elevator.
- Machine comes with Pre-sealing assembly, sealing assembly, Steam piping, Cooling water assembly, Exhaust ventilation assembly
- Fast format Changeover from one size of container to other size due to use of custom designed part.
- 6 Digit precise counting arrangement helps to manage production process.
- Outfitted with emergency button for safety concern.

SNAP & PRESS FIT



Automatic Rotary Snap Fit Capping Machine



TECHNICAL SPECIFICATION

Machine Name	4 Head Snap Fit	6 Head Snap Fit	8 Head Snap Fit
Model	NKCS-150PS	NKCS-250PS	NKCS-350PS
Direction	Left to Right	Left to Right	Left to Right
Production rate	Up to 100 Bottle/minute*	Up to 120 Bottle/minute*	Up to 180 Bottle/minute*
Electrical supply	1 HP for Main Drive 0.25 HP***	2 HP for Main Drive 0.50 HP***	
No of Screw Capping Head	4 head	6 Head	8 Head
Bottle Diameter (mm)	22 MM To 80 MM MAX.	22 MM To 80 MM MAX.	22 MM To 80 MM MAX.
Bottle Height (mm)	55 MM To 200 MM MAX.	55 MM To 200 MM MAX.	55 MM To 200 MM MAX.
Screw Cap Dia	22 mm to 52 mm**	22 mm to 52 mm**	22 mm to 52 mm**
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ		
Height of Conveyor	Adjustable from 800 to 850 mm		
Dimension (L X W X H) mm	1530 x 812 x 1900	1830 x 812 x 1900	2130 X 915 x 1900
Type of Capping	Snap Fit Type Capping	Snap Fit Type Capping	Snap Fit Type Capping
Cap Heating System	Swiss Make Air Heat	Swiss Make Air Heat	Swiss Make Air Heat

*for 50 ml bottle, **(with the help of change part), ***for Orientation Unit



SNAP & PRESS FIT

Automatic Rotary Snap Fit Capping Machine



SALIENT FEATURES

- CGMP Model, Compact Model & Modular system.
- Parts coming in contact with bottle / screw cap are made out of AISI 304, good housekeeping.
- Single motor synchronizes conveyor, star wheels and platform turret.
- A Special safety clutch devices are being integrated on in feed & out feed Star wheel system for stoppage of machine in the event, vial is over turned.
- A special background Suppression sensor stops machine automatically in the event, there is no screw cap in delivery chute.
- As an optional, Swiss made Air heater system to soften caps.
- Electro-pneumatic No Bottle – No Cap System.
- Two Cam system which controls Cap pick up assembly and Cap release assembly
- Specially designed Snap fit head.
- Various cap feeding option available like vibrator feeder system, Mechanical cap feeder orientator or Water fall type elevator.
- Fast format Changeover from one size of container to other size due to use of custom designed part.
- Distinctively designed position system prevents from cap being jammed.
- 6 Digit precise counting arrangement helps to manage production process.
- Outfitted with emergency button for safety concern.
- Digital Pressure switch for pressure governing.



TECHNICAL SPECIFICATION

Machine Name	4 Head Press Fit	6 Head Press Fit	8 Head Press Fit
Model	NKCS-150PPS	NKCS-250PPS	NKCS-350PPS
Direction	Left to Right	Left to Right	Left to Right
Production rate	Up to 100 Bottle/minute*	Up to 120 Bottle/minute*	Up to 180 Bottle/minute*
Electrical supply	1 HP for Main Drive 0.25 HP***		2 HP for Main Drive 0.50 HP***
No of Screw Capping Head	4 head	6 Head	8 Head
Bottle Diameter (mm)	22 MM To 80 MM MAX.	22 MM To 80 MM MAX.	22 MM To 80 MM MAX.
Bottle Height (mm)	55 MM To 200 MM MAX.	55 MM To 200 MM MAX.	55 MM To 200 MM MAX.
Screw Cap Dia	22 mm to 52 mm**	22 mm to 52 mm**	22 mm to 52 mm**
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ		
Height of Conveyor	Adjustable from 800 to 850 mm		
Dimension (L X W X H) mm	1630 x 912 x 1900	1930 x 912 x 1900	2230 X 1000 x 1900
Type of Capping	Press Fit Type Capping	Press Fit Type Capping	Press Fit Type Capping

*for 50 ml bottle, **(with the help of change part), ***for Orientation Unit



SALIENT FEATURES

- CGMP Model, Compact Model & Modular system.
- Parts coming in contact with bottle / press fit cap are made out of AISI 304, good housekeeping.
- Single motor synchronizes conveyor, star wheels and platform turret.
- A Special safety clutch devices are being integrated on in feed & out feed Star wheel system for stoppage of machine in the event, vial is over turned.
- A special background Suppression sensor stops machine automatically in the event, there is no screw cap in delivery chute.
- Electro-pneumatic No Bottle – No Cap System.
- Two Cam system which controls Cap pick up assembly and Cap release assembly
- Specially designed press fit head.
- Various cap feeding option available like vibrator feeder system, Mechanical cap feeder orientator or Water fall type elevator.
- Fast format Changeover from one size of container to other size due to use of custom designed part.
- Distinctively designed position system prevents from cap being jammed.
- 6 Digit precise counting arrangement helps to manage production process.



COMBI CAPPING

Combi Capping Machine

This inventive series of Combi Bottle capping machine is our endeavor to various industries in representing cutting edge technology. As name suggest, this machine can carry out ROPP, CRC and Screw capping application. The machine has relatively very easy changeover from ROPP cap to Screw cap to CRC Cap.



TECHNICAL SPECIFICATION

Machine Name	4 Head Combi	6 Head Combi	8 Head Combi
Model	NKCS-150P	NKCS-250P	NKCS-350P
Direction	Left to Right	Left to Right	Left to Right
Production rate	Up to 100 Bottle/minute*	Up to 120 Bottle/minute*	Up to 180 Bottle/minute*
Electrical supply	1 HP for Main Drive 0.25 HP***	2 HP for Main Drive 0.50 HP***	
No of Screw Capping Head	4 head	6 Head	8 Head
Bottle Diameter (mm)	22 MM To 80 MM MAX.	22 MM To 80 MM MAX.	22 MM To 80 MM MAX.
Bottle Height (mm)	55 MM To 200 MM MAX.	55 MM To 200 MM MAX.	55 MM To 200 MM MAX.
Screw Cap Dia	22 mm to 52 mm**	22 mm to 52 mm**	22 mm to 52 mm**
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ		
Height of Conveyor	Adjustable from 800 to 850 mm		
Dimension (L X W X H) mm	1530 x 812 x 1900	1830 x 812 x 1900	2130 X 915 x 1900

*for 50 ml bottle, **(with the help of change part), ***for Orientation Unit



SALIENT FEATURES

- CGMP Model, Compact Model & Modular system.
- Parts coming in contact with bottle / screw cap are made out of AISI 304, good housekeeping
- Single motor synchronizes conveyor, star wheels and platform turret.
- A Special safety clutch devices are being integrated on in feed & out feed Star wheel system for stoppage of machine in the event, vial is over turned.
- A special background Suppression sensor stops machine automatically in the event, there is no screw cap in delivery chute.
- Electro-pneumatic No Bottle – No Cap System.
- Two Cam system which controls Cap pick up assembly and Cap release assembly
- New innovative Magnetic hysteria sealing head for capping on bottle with incorporated clutch system.
- Various cap feeding option available like vibrator feeder system, Mechanical cap feeder orientator or Water fall type elevator.
- Fast format Changeover from one size of container to other size due to use of custom designed part.
- Distinctively designed position system prevents from cap being jammed.
- 6 Digit precise counting arrangement helps to manage production process.



CAP PLACEMENT

Automatic Measuring Cup Placing Machine



TECHNICAL SPECIFICATION

Model	NCP-150	NCP-300
Direction	Left to Right	Left to Right
Production rate	Up to 130 bottle / minute	Up to 250 bottle / minute
Electrical supply	1 HP	2 HP
Auto cap Pick Up ratio	≥99.9%	≥99.9%
Qualified capping ratio	≥99.8%	≥99.8%
Power requirement	440 V, 3 Phase (4 Wire System) 50 HZ	440 V, 3 Phase (4 Wire System) 50 HZ
Height of Conveyor	Adjustable from 800 to 850 mm	Adjustable from 800 to 850 mm
Bottle dia	30 mm to 85 mm max	30 mm to 85 mm max
Bottle height	80 mm to 250 mm max	80 mm to 250 mm max
Measuring Cup / Cap Size	22 mm, 25 mm, 28 mm, 32 mm	22 mm, 25 mm, 28 mm, 32 mm
Dimension (L X W X H) mm	1530 x 915 x 1830	1900 x 915 x 1830



SALIENT FEATURES

- CGMP Model
- Machine frame made using AISI 304.
- No Bottle - No Cup / Cap System & machine will be stop.
- Minimum format parts are required for linear movement of the bottles.
- Machine with Totally Synchronized Front and Back Bottle Holding Belt with Top Stabilizing and Pressing Belt System.
- The Machine is equipped with either Orientation type Cap Feeder or Vibratory type Bowl.
- Minimum Change Over and Setting time
- Hopper can be completely dismantled for easy cleaning.
- 6 Digit precise counting arrangement helps to manage production process.
- Outfitted with emergency button for safety concern.



The Special Automatic Measuring Cup placing machine- Helmet Cap Model NCP-120H is used for applying Helmet cap on IV Bottles in pharmaceutical companies. This machine can deliver speed of 120 bottle per minute.



TECHNICAL SPECIFICATION

Particular	Specification
Bottle Size	Diameter Up to 85mm* or other Shape bottle with proper base
Bottle Height	250 mm* Maximum
Measuring Cup / Cap Size	22 mm ,25 mm ,28 mm ,32 mm
Electrical	230V A.C Single Phase Power Supply (50 Hz) with A.C. Drive
Power	1 H.P.
Conveyor Height	850-900 mm
Overall Dimensions	1800 mm (L) x 800 mm (W) x 1900 mm (H)
Speed :	Max. 100 to 120 Bottles per minute



SALIENT FEATURES

- CGMP Model, Compact Model & Modular system.
- Machine frame made using AISI 304.
- No Bottle - No Cup / Cap System & machine will be stop.
- Minimum format parts are required for linear movement of the bottles.
- Machine with Totally Synchronized Front and Back Bottle Holding Belt with Top Stabilizing and Pressing Belt System.
- Specially designed Vibrator feeding system.
- Minimum Change Over and Setting time
- Hopper can be completely dismantled for easy cleaning.
- 6 Digit precise counting arrangement helps to manage production process.
- Outfitted with emergency button for safety concern.



POWDER FILLING

Semi Automatic Injectable Dry Powder Filling Machine



TECHNICAL SPECIFICATION

Model	
Filling Speed	40 Vials/minute based on 5-10ml vial for Single Dosage (Depending up on size/types of vial & powder density)
Design	Left to Right
Dosage	50 mg to 1.5 grams. Single Dose (with Change Parts) 1.5 grams to 6 grams. Double, Triple and Four Doses.
	Fill range depending upon vial opening and bulk density of powder. Under controlled level of Humidity (i.e. 25%)
Dosing wheel	One
Dosing port / Wheel	8 Nos
Vial Diameter	25 mm to 45 mm max
Vial Height	75 mm maximum
Power Supply	0.5 HP , 230V, 1 phase
Fill Accuracy	±2% depending upon consistency and uniformity of bulk density of injectable powder
Bottle Loading	On provided bottle Platform
Powder Suction	Through Vacuum
Powder Delivered	Through Air/Nitrogen (Customer to Provide)
Machine Dimension	525 (mm) X 600 (mm) X 650 (mm)



SALIENT FEATURES

- CGMP Model.
- Highly precise powder dosing system based on Vacuum -pressure.
- Bottle feeding is done manual on bottle loading platform.
- All Part comes in contact with powder are manufactured using SS 316L.
- "No Vial – No Filling" technique eliminates wastage of expensive sterile powder.
- Flexible to suit from 5 ml. to 50 ml vials.
- All Contact Parts are of S.S 316L.
- Quick change over with minimum use of tools.
- Contact parts are removable for mandatory autoclaving.

**TECHNICAL SPECIFICATION**

Particular	Specification	Specification
Filling Speed	120 Vials/minute*	240 Vials/minute*
Dosing wheel	One	Two
Dosing port / Wheel	8 Nos	8 Nos
Design	Left to Right	
Dosage	50 mg to 1.5 grams. Single Dose (with Change Parts)	
	1.5 grams to 6 grams. Double, Triple and Four Doses.	
	Fill range depending upon vial opening and bulk density of powder.	
	Under controlled level of Humidity (i.e. 25%)	
Fill Accuracy	±2% depending upon consistency and uniformity of bulk density of injectable powder	
Product Conveyor	50 mm (2") wide delrin conveyor	
Powder Suction	Through Vacuum	
Powder Delivered	Through Air/Nitrogen (Customer to Provide)	
Stopper Delivered	Through Vibratory Bowl & Chute	
Machine Dimension	1830 (mm) X 915 (mm) X 1600 (mm)	2100 (L) x 1170 (W) X 1600 (H)

*Based on 5-10ml vial for Single Dosage (Depending up on size/types of vial & powder density)



Automatic Injectable Dry Powder Filling Machine



SALIENT FEATURES

- Compact footprint where different modules like turntables, filling and rubber stoppering are assembled as one unit with minimum space requirement.
- Entire transmission of machine is helical gear driven, which impart long and trouble free operation.
- CGMP Design.
- Highly precise powder dosing system based on Vacuum -pressure.
- Simple, fast and repeatable changeover.
- Positive vial transport system i.e. vial separator guide vials through module like filling, stoppering ensuring they remain upright during transport.
- Parts come in Contact with Sterile Powder & Rubber stoppers are of AISI 316L.
- Multiple dosing of injectable / sterile powder or changeover of container size and different fill size is possible by just changing the vial separator or size of the piston respectively.
- “NO VIAL NO FILL” scheme eliminates wastage of costly Powder.
- Special delrin conveyor belt to avoid sticking of vial on conveyor.
- Autonomous pneumatic circuit i.e. Vacuum and pressure circuit.



AUGER POWDER

Semi Automatic Powder Filling Machine



N.K. INDUSTRIES
N.K. INDUSTRIES



TECHNICAL SPECIFICATION

Model	NKAPF-40
Output / Hour	600 to 1200 Container per hours
Number of head	1 No.
Fill Size	5 Gms to 1 Kg.
Electric Specification	1 HP / 415 Volts / 50 Hz
Machine Dimensions	1000 mm (L) x 1000 mm (W) x 1000 mm (H)
Net Weight	320 Kgs.
Gross Weight	575 Kgs.
Change parts required	(a) Auger (b) Funnel
Electrical supply	3 Phase + Neutral + Earthing
Electrical load	0.75 KW



SALIENT FEATURES

- Filling range from 5 grams to 1000 grams with the help of change part
- No containers no fill system
- Accuracy $\pm 1\%$ in single dose.
- Machine body frame is covered using fine PVC matt finished AISI 304 steel.
- All contact parts with Powder are of AISI 316L.
- A unit to fill variety of fine and granulated powder and can be used for various type of containers.
- Minimum change over time due to use of Standard Format part.



TECHNICAL SPECIFICATION

Particular	Specification
Machine Direction	Left to Right
Production Rate	<p>Output and accuracy of the machine is subjected to flow property of the powder and other related conditions.</p> <p>But for calculation purpose usually</p> <p>5 gms of filling gives an output of 30 BPM.</p>
Fill Volume (Range)	5 Gms to 500 Gms
Bottle Diameter	25 MM To 80 MM MAX.
Filling Accuracy	+/- 1.0 % subject to the powder nature, fill weight & speed.
Hopper Capacity	18 Liter
Power Consumption	1.5 HP
Power Connection	415 VAC, 50 Hz ,3PH + N
Machine Dimension(L X W X H) MM	1530 mm X 915 mm X 1600 mm



AUGER POWDER

Single Head Automatic Auger Powder Filling Machine



SALIENT FEATURES

- All contact parts in AISI 316L or Food Grade Material.
- Structure & all exposed parts & structure cladded or covered with S.S. 304
- Works on Auger metric principle with either clutch / Servo mechanism for precise operation
- High productivity because of fast and reliable synchronization between filling and indexing systems
- Weight variation: Less than +/- 1.0 % subject to the powder nature, fill weight & speed.
- Minimum change parts, hence quick changeover.
- No Change Part require for change in bottle height
- Virtually no powder loss – precise alignment by a positive holding mechanism ensures that the nozzle and the bottles are perfectly aligned thus ensuring no powder loss.
- Variable speed for slat conveyor – The speed of the slat conveyor can be controlled with A/C variable motor thus falling of bottles is totally eliminated.
- No dripping – drip control mechanism to control dripping after completion of dosing.
- Lower cost of production – Since requirement of labour, space and support facilities is minimal.
- Simple operation – easy to operate & maintain
- High operational comfort – Since all parts are easily accessible and controls are conveniently located.
- Long life – sturdy robust design, sophisticated manufacturing techniques and better material of construction ensures long and trouble-free life.
- Ease of maintenance – due to less number of moving parts.
- No Bottle – No Fill Mechanism- to avoid wastage of medicament in absence of bottle.



Automatic Double Head Auger Powder Filling Machine



TECHNICAL SPECIFICATION

Particular	Specification
Machine Direction	Left to Right
Production Rate	Output and accuracy of the machine is subjected to flow property of the powder and other related conditions. But for calculation purpose usually 5 gms of filling gives an output of 60 BPM.
Fill Volume (Range)	5 Gms to 500 Gms
Bottle Diameter	25 MM To 80 MM MAX.
Filling Accuracy	+/- 1.0 % subject to the powder nature, fill weight & speed.
Hopper Capacity	25 Liter
Power Consumption	2 HP
Power Connection	415 VAC, 50 Hz ,3PH + N
Machine Dimension(L X W X H) MM	1700 X 1000 X 900
Floor Space	1200 x 1050 mm / 1900 x 1050 mm (including slat conveyor)



AUGER POWDER

Single Head Automatic Auger Powder Filling Machine



SALIENT FEATURES

- All contact parts in S.S.316 or Food Grade Material.
- Structure & all exposed parts & structure cladded or covered with S.S. 304
- Works on Auger metric principle with either clutch / Servo mechanism for precise operation
- High productivity because of fast and reliable synchronization between filling and indexing systems
- Weight variation: Less than +/- 1.0 % subject to the powder nature, fill weight & speed.
- Minimum change parts, hence quick changeover.
- No Change Part require for change in bottle height
- Virtually no powder loss – precise alignment by a positive holding mechanism ensures that the nozzle and the bottles are perfectly aligned thus ensuring no powder loss.
- Variable speed for slat conveyor – The speed of the slat conveyor can be controlled with A/C variable motor thus falling of bottles is totally eliminated.
- No dripping – drip control mechanism to control dripping after completion of dosing.
- Lower cost of production – Since requirement of labour, space and support facilities is minimal.
- Simple operation – easy to operate & maintain
- High operational comfort – Since all parts are easily accessible and controls are conveniently located.
- Long life – sturdy robust design, sophisticated manufacturing techniques and better material of construction ensures long and trouble-free life.
- Ease of maintenance – due to less number of moving parts.
- No Bottle – No Fill Mechanism- to avoid wastage of medicament in absence of bottle.



VIAL AMPOULE

Ampoule Visual Inspection Machine



TECHNICAL SPECIFICATION

Particular	Specification
Type of Machine	Inspection of Vial and Ampoule with minimum human intervention
Ampoule Diameter range (mm)	10 mm to 15 mm
Ampoule height (mm)	55 to 125 mm
Speed (Ampoule per minute)	60 to 70 Ampoules per minute depending upon the Human proficiency.
Power consumption (KW)	1 KW
Electrical Connection	230 V, Single Phase , 50 HZ
Machine Dimension (L X W X H) mm	1530 X 1200 X 1575
Ampoule loading	Through tray in hopper
Net Weight (KG)	500 KG



SALIENT FEATURES

- Total cGMP Model & Maintenance free operation.
- All contact parts are AISI 304.
- Ampoules can be effortlessly mass loaded in hopper.
- 6 nos of Ampoule spinner to achieve higher speed. Rotation of spinners can be adjusted to give desired vortex in liquid.
- Magnified view with back light illumination for coherent real-time view of six ampoules.
- Modular & compacted ejection system
- Facility of repeat cycle.
- LED as well buzzer assisted safe rejection.
- Two inbuilt counters for monitoring of production. i.e. 1 counters for Total production status and another counter for Rejection Unit.



TECHNICAL SPECIFICATION

Model	NKVI-250
Direction	Left to Right
Electrical Supply	1.5 HP
Power Supply	230 Volts, Single Phase, 50 Hz.
Net Weight	450Kgs. (Approx)
Gross Weight	550Kgs. (Approx)
Input Specification	5 ML Vial to 30 ML Vial



SALIENT FEATURES

- No Maintenance, cGMP Model & silent performing machine
- Whole body is manufactured using premium grade of PVC coated AISI 304.
- Integral Turntable at both in feed and out feed side of machine.
- Reduction gears guarantee tweak free & soundless operation.
- Can be used for varying size of vials with various change parts.
- Magnified view of vial during inspection process.
- Inbuilt Auto rejection system for rejected vial.
- All electrical & Brought out items are of CE certified.
- Machine speed can be varied as per production requirement.



VIAL AMPOULE

Manual Vial/Bottle Inspection Machine with Black & White Board



TECHNICAL SPECIFICATION

Model	NKVIC-60	NKVIC-100	NKVIC-150	NKVIC-200	NKVIC-250
Direction			Left to Right		
Seating Arrangement for operator	2	4	6	8	10
Power Consumption	0.5 HP		0.75 HP		1 HP
Electrical connection	415 Volts, 3 Phase (4wire system)50 Hz.				
Dimension (L X W X H) mm	1300 x 765 x 1530	1900 x 765 x 1530	2550 x 765 x 1530	3100 x 765 x 1530	3700 x 765 x 1530



SALIENT FEATURES

- Advanced white & back board with appropriate illumination for checking impurities.
- Machine body is of AISI 304
- No format Parts required for change over of each vial / bottle size.
- Moderately trouble-free to operate.
- Nearly Maintenance free machine.
- Cost-effective machine.
- All electronics / Brought out items are CE certified
- According to seating arrangement various model available.



WASHING MACHINE

Automatic Bottle Washing Machine (Tunnel Type)



TECHNICAL SPECIFICATION

Model	NKBW-60	NKBW-120	NKBW-240	NKBW-300
Working direction	Left - Right			
Speed	Up to 60 Bottle/minute	Up to 120 Bottle/minute	Up to 240 Bottle/minute	Up to 300 Bottle/minute
Conveyor Height	750 ± 50 mm			
Washing Sequence	5 internal Washes / 2 External Washes			
No of Filter	3 nos each for recycled water , DM Water & Compressed Air			
Air consumption	30 to 50 CFM @ 3 to 4 bar Pressure			
Fresh Water consumption	600 to 900 Ltrs/Hours			
DM water Consumption	600 to 900 Ltrs/Hours			
Power Supply	3 KW to 6 KW depending upon Model			
Electrical Connection	415V, 3 Phase , 50 HZ ,4 core wire			
Tanks	2 nos of AISI 316L tanks			
Input Specifications	30 ml to 200 ml Bottles without any major change parts. Can accommodate different sizes of bottles with the help of minimal change parts. Special machines are available for other size and type of containers on request			



SALIENT FEATURES

- CGMP & Modular design.
- Machine Frame Structure is entirely AISI 304.
- Two Nos of Emergency switch are fitted at in feed and out feed side.
- High pressure spray nozzles ensure perfect wash of Bottles
- High pressure spray nozzles ensure perfect wash of Bottles. Spray duration is electrically controlled by magnetic valve
- Inbuilt 2 Nos AISI 316L Tanks & Pumps & are positioned suitable for easy maintenance.
- Low Maintenance cost
- All electrical and brought out items are of CE certified.



The Automatic High Speed Rotary External Ampoule Washing Machine Model NKEAW-250 is used to wash external surface of cylindrical container like Ampoule.

TECHNICAL SPECIFICATION

Particular	Specification
Machine overall Dimension (L X W X H) mm	1400 X 1070 X 730 /1400 X 1070 X 1230 (with operating Panel)
Machine net weight (KG)	500
Machine gross weight (KG)	800
Tanks	2 nos of SS-316 Tanks with 50 Liters Capacity
Output	1 ml to 5 ml Ampoule @ 250 CPM
Suitability	1 ml to 5 ml ampoule with change part
Loading of Container to Machine	Tray
Unloading of Container	Tray
No of centrifugal pump with 3 phase induction motor	2 Nos
Blower	1 Nos
Heater block	3 no of heaters and each rating 1 KW.



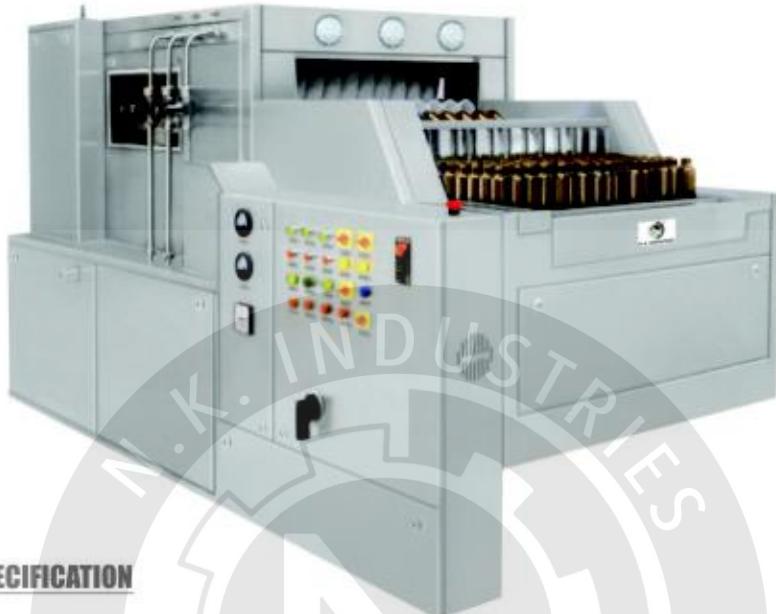
SALIENT FEATURES

- Machine frame is made of AISI 304 pipe duly welded & grinded surfaces & fully covered with the AISI 304 Sheet.
- CGMP Model.
- Loading is done with help of Tray where Ampoule stored in bulk.
- 4 stage external washing sequence.



WASHING MACHINE

Automatic Linear Vial Washing Machine (Tunnel Type)



TECHNICAL SPECIFICATION

Model	NKVV-60	NKVV-120	NKVIC-240	NKVIC-300	NKVIC-400
Working direction	Left to Right				
Speed	Up to 60 Vial/min.	Up to 120 Vial/min.	Up to 240 Vial/min.	Up to 300 Vial/min.	Up to 400 Vial/min.
Conveyor Height	750 ± 50 mm	750 ± 50 mm	750 ± 50 mm	750 ± 50 mm	750 ± 50 mm
Washing Sequence	10 internal Washes 2 External Washes				
No of Filter	Filter for recycled water , DM Water & Compressed Air And WFI water				
Air consumption	10 - 30 CFM depending upon the Machine Model & Vial size				
Fresh Water consumption	100 to 350 LPM depending upon the Model & Vial size				
Power Supply	3 to 5 HP, 440 V, 3 Phase, 50 Hz				
Electrical Connection	415V, 3 Phase , 50 HZ ,4 core wire				
Tanks	2 nos of AISI 316L tanks				
Input Specifications	5 to 30 ml without any change parts Additional change parts will be required for 2 ml & 50 - 100 ml vials.				



SALIENT FEATURES

- CGMP & Modular design.
- Machine Frame Structure is entirely AISI 304.
- Easy downstream integration with sterilizing tunnel
- Emergency switch are fitted at in feed and out feed side.
- Washing chamber having various spray zones of various entity like air and WFI Water & Spray duration is electrically controlled by magnetic valve.
- PENETRATING TYPE NOZZLE for water and air spraying.
- Inbuilt 2 Nos AISI 316L Tanks & Pumps.
- Low Maintenance.
- All electrical and brought out items are of CE certified.



The "N.K.INDUSTRIES" Rotary bottle washing machine is compact and highly efficient GMP requirement of washing for glass and plastic bottles.



WASHING SEQUENCE

Type of Washing Entity	Washing Sequence		Consumption
FRESH WATER	First wash		300 Liters / Hour Approx. at 15 PSI
	Third wash		600 Liters / Hour Approx. at 15 PSI
	Outside wash		800 Liters / Hour Approx. at 15 PSI
HOT DETERGENT	Second wash	No consumption as such, water loss During re-circulation shall be compensated	
DM. OR DI WATER	Fourth wash		300 Liters /Hour Approx. at 15 PSI



TECHNICAL SPECIFICATION

Particular	Specification
Diameter of container	25 mm to 100 mm
Outside diameter of Neck	20 mm to 38 mm
Output	60 to 100 bottle per minute
Height of container	Up to 280 mm
Motor for main drive	½ HP / 415 V/3 Phase / 50 Hz /1000 RPM
Electric Heater Tank	3 KW
Total Load	5 KW
Dimensions	1550 mm L X 1700 mm W X 1300 mm H
Net Weight	750 Kgs. Approx



SALIENT FEATURES

- Geneva mechanism.
- Four inner, one outer and one air wash
- Sequence of washes of washes to customers choice
- Output: 64 to 100 bottles per minute,
Easy operation.
- Stationary nozzles eliminate contamination of water cycles.
- Easy loading and unloading with two rows.
- Individual solenoid valve for each washing sequence, which eliminates carbon plate and other accessories, reduces leakage and maintenance to minimum.
- Higher capacity centrifugal pumps to wash bigger bottles (500 & ml)
- The stationary nozzles avoid chipping of bottle necks.
- Pumps and tanks are mounted on portable stand for easy maintenance.
- Bottle guide system especially for light weight bottle.



LIQUID FILLING

Automatic Volumetric Liquid Filling Machine (2-4-6-8-12)



TECHNICAL SPECIFICATION

Machine Name	2 Head	4 Head	6 Head	8 Head	12 Head
Model	NKLFL-30	NKLFL-60	NKLFL-90	NKLFL-120	NKLFL-200
Output (BPM)	30	60	90	120	200
No of Filling Head	2 Head	2 Head	2 Head	2 Head	2 Head
Electrical supply	1 HP	1 HP	1.5 HP	2 HP	2.5 HP
Dimension (L X W X H) mm	1530 X 850 x 1700	1830 X 850 x 1700	2000 X 850 x 1700	2400 X 850 x 1700	2500 x 900 x 1800
Container Diameter	16 mm to 100 mm (With the help of change part)				
Container Height	Up to 100 mm				
Filling Accuracy	±1 %				
Filling Range	5 ml to 100ml (Above 500ml Help of Stroke system)				
Power requirement	440v 3 Phase 50Hz 4 Wire System				



SALIENT FEATURES

- Quite a compact & modular design
- cGMP model.
- Machine frame made using AISI 304.
- All contact parts with liquid made using AISI 316L.
- Tool Less Guide Rails for Easy Adjustment for container.
- Fill volume can be adjusted with the help of adjustable eccentricity of ram shaft.
- Wide range of syringe selection available to fill from 5 ml to 1000 ml
- Self centring device to take care of non concentricity of container to certain extant.
- Foaming & spillage is avoided due to diving nozzles.
- Long Liquid collection tray with outlet below conveyor to Safeguards transmission assemblies.
- No Bottle – No filling arrangement

INJECTABLE VIAL



Automatic Injectable Vial Filling & Stoppering Machine



Model	NKVFRS-50	NKVFRS-100	NKVFRS-150	NKVFRS-200	NKVFRS-250
Direction	Left to Right				
Production rate	Up to 50 Vial/min.	Up to 100 Vial/min.	Up to 150 Vial/min.	Up to 180 Vial/min.	Up to 200 Vial/min.
Number of head/Syringe	2 Head *	4 Head *	6 Head *	8 Head *	12 Head *
Filling Size	1 ml to 100 ml				
Filling Accuracy	± 1 % on Single Dose				
Power Consumption	2 HP	2.5 HP	2.5 HP	2.75 HP	3.75 HP
Input Vial Diameter (mm)	16 MM To 50 MM MAX.				
Vial Height (mm)	Up to 75 mm max				
Rubber Stopper	13mm/ 20mm (Slotted & Non-Slotted)				
Electrical connection	440 V ,3 Phase (4 Wire System) 50 HZ				
Air pressure	6 bar pressure 0.5 CFM				
Height of Conveyor	Adjustable from 800 to 850 mm				
Dimension (L X W X H) mm	1500 X 800 X 1400	1800 X 800 X 1400	1800 X 800 X 1400	2000 X 900 X 1400	2300 X 1000 X 1400

*Automatic Vial Filling & Stoppering Machine



INJECTABLE VIAL

Automatic Injectable Vial Filling & Stoppering Machine



SALIENT FEATURES

- Quite Compact, Modular design & CGMP Model.
- Part comes in contact with liquid are of AISI 316.
- Body Structure is built using AISI 304.
- Appropriate for 1 ml to 100 ml filling range.
- Important individual part required for autoclaving/ sterilization can be removed easily. No need to shift the whole machine every now and then.
- Co- Eccentric Nozzles allows rapid and accurate filling of liquid in conjunction with nitrogen flushing.
- No Vial – No Filling system.
- No Rubber Stopper – Machine stop system.
- Suitable for Dry and wet rubber stopper & supplied with liquid collection tray.
- Bare minimum Change over Time. From one size of container or fill size to another.
- All electronics, Gear motor and Gear box are of CE Certified.



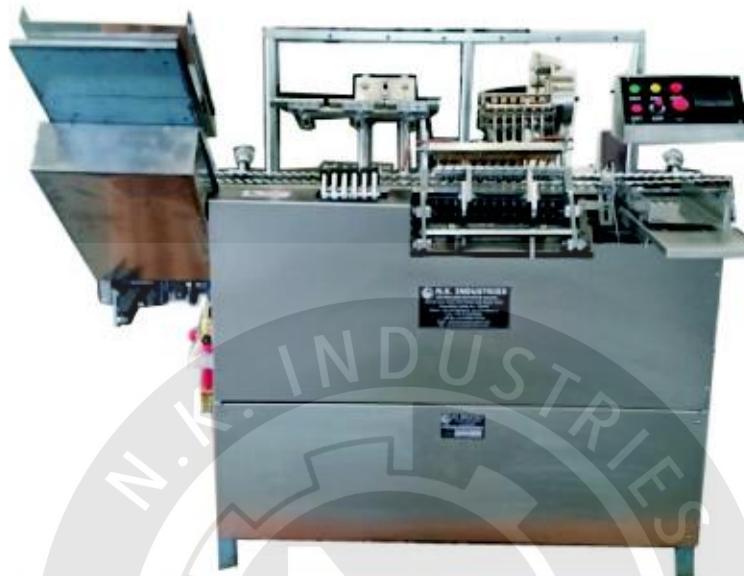
OPTIONAL FEATURES

- Automatic conveyor washing system.
- Nitrogen flushing before and after filling.
- Toughened Glass or Acrylic Safety Cabinet for Machine
- Tower Light showing the machine status / operation
- PLC – HMI based automation.
- On line pre inspection system.
- Float tank (Holding tank) with or without stirrer.
- Ceiling Suspended Laminar Flow hood.



AMPOULE FILLING

Ampoule Filling Sealing Machine



TECHNICAL SPECIFICATION

Model	NAFS-60	NAFS-120	NAFS-180
Name	Four Head*	Six Head*	Eight Head*
Output	60 Ampoule / minute**	120 Ampoule / minute**	160 Ampoule / minute**
Filling Accuracy		±1 %	
Filling Range		1 ml to 10 ml	
No of Filling Head	4 Head	6 head	8 Head
Power requirement		230 V, single phase , 50 HZ	
Electrical supply	1 HP	1.5 HP	2 HP
Ampoule Size		1 ml to 10 ml Ampoule	
Net Weight	350 KG	450 KG	500 KG
Dimension (L X W X H) mm	1250 X 1180 X 1250	1590 X 1180 x 1250	1850 X 1200 X 1300

*Ampoule Filling Sealing machine, **depending upon Ampoule Diameter



SALIENT FEATURES

- Quite a compact, modular design & cGMP model.
- Imported Gear box and Gear motor.
- Machine frame made using AISI 304.
- All contact parts with liquid made using AISI 316L.
- Foaming & spillage is avoided due to diving nozzles.
- Can fill up to 20 ml (With minimum change part)
- Facility to incorporate pre and post gasing system
- Machine having In-feed / Out feed tray loading & collection system with filling & sealing mechanism
- 6 Digit precise counting arrangement helps to manage production process.
- Outfitted with emergency button for safety concern.
- All electrical & Brought out items are of CE certified



CREAM FILLING

Automatic Cream Filling Machine



TECHNICAL SPECIFICATION

Particular	Specification
Filling Speed	60 to 80 bottle / minute depending upon the filling volume For 100 gms : 60 Bottle / Minute
Design	Left to Right
Filling Range	10 GMS to 500 GMS
No of Filling Nozzles	4
Fill Accuracy	±1% depending upon Viscosity of the Material
Product Conveyor	50 mm (2") wide SS Slant conveyor
Filling	In House designed PUMP
Hopper Capacity (KG)	100 KG
Power Requirement	440 V , 3 phase , 50 HZ
Power Consumption	2 KW
Machine Dimension	2130 (mm) X 1000 (mm) X 1600 (mm)



SALIENT FEATURES

- Compact footprint & GMP Model
- Complete automated machine using HMI, PLC, Encoder and PUMP Technology.
- No Change part required for different filling grammage.
- All Part comes in contact with Cream are made using SS 316L which include the Hopper, Nozzle.
- No Bottle no Fill System which save valuable filling material.
- Positive cut-off valve enable drip free filling.
- Special sensor in Hopper for material level checking.
- Filling Accuracy is ±1%
- Fill test cycle enable to set the exact filling before actual production.
- All electronics are of CE Certified
- Special SS Slant conveyor belt to avoid sticking of bottle on conveyor.



OTHER PACKAGING

Waterfall Type Cap Feeder Elevator with Storage Silo

Waterfall Type Cap Feeder Elevator is type of machine which is available with storage silo generally used in conjunction with mother machine like capping machine. Waterfall type cap feeder elevator can store relatively larger amount of bottle closures like Screw caps, ROPP Caps etc in storage silo over traditional vibrator hopper / orientator hopper used in capping machine.



TECHNICAL SPECIFICATION

Particular	Specification
Output	100 to 150 caps / minute
Storage silo Capacity	3000 to 5000 Nos depending upon the Cap diameter
Electrical connection	230 V Singh Phase 50 HZ
Powder Consumption	0.5 HP
Air Requirement	2 KG/Cm2



SALIENT FEATURES

- cGMP model
- Speed of unit can be varied.
- Auto on / off sensor for Elevator.
- Floor level silo for plug insert loading.
- Can storage capacity 3000 to 5000 nos at a given time depending upon the diameter of cap.
- Output of cap around 100 to 150 caps per minute.
- Cap output orientation with delivery chute.
- All electrical are of CE certified.



OTHER PACKAGING

Turtable / Scrambler



N.K Industries is pioneer in manufacturing the range of Turntables. Turntable is generally used for transfer of various types of Vials, Bottles and Jars on any Powder Filling, Liquid Filling or Tablet Bottle Packing Lines.



TECHNICAL SPECIFICATION

Model	NKTR-24	NKTR-30	NKTR-36	NKTR-48
Disc Diameter	24 Inch	30 Inch	36 Inch	48 Inch
Power Consumption	0.5 HP	0.5 HP	1 HP	1.5 HP
Electrical connection	230 V Single Phase 50 HZ			



SALIENT FEATURES

- Total cGMP model.
- All exposed parts of S. S. or Aluminium to avoid any rusting.
- Reduction Gear ensures jerk free and Noiseless performance.
- Square Frame imparts Vibration free performance and allows absolute cleanliness even inside.
- Adjustable Canal for adjusting different size of Container.
- All brought out items are of CE Certified.

OTHER PACKAGING



Dust Extraction Machine



Dust Extraction machine are quite useful and used in conjunction with mother machine like Auger powder filling Machine ,Tablet press, De-Duster. It is used to collect the excessive dust originated during process to maintain clean operation / working environment.



TECHNICAL SPECIFICATION

Particular	Specification
Suction Capacity	150 CFM { 250 M3/Hour}
Filtration Area	9 Sq. Feet
Dust Storage Capacity	3/4 Cu.Feet
Electronic Motor	Hindustan Make 1 HP 280 RPM
Over all dimension(L X W X H) mm	470mm X 530mm X 630 mm
Net Weight (KG)	70
Gross Weight (KG)	100
Other electrical component	Starter BCH Make Amle 20 Relay 0.46 to 0.80 A



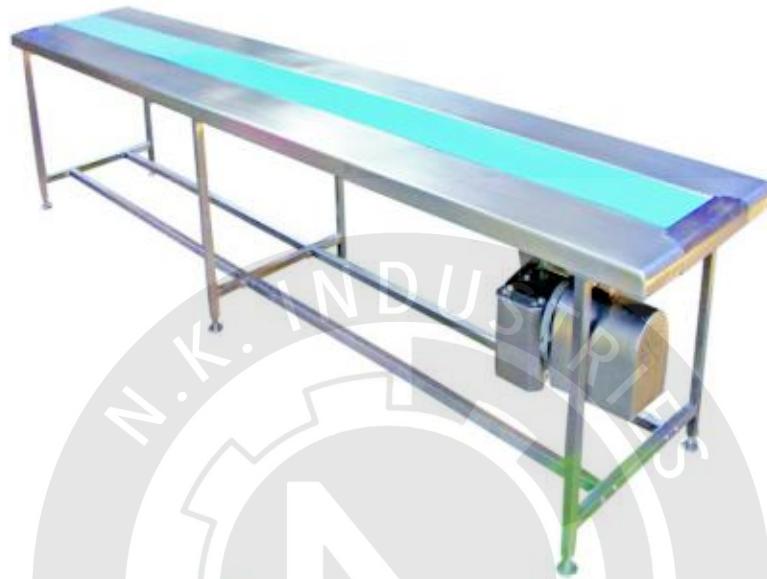
SALIENT FEATURES

- CGMP Model
- All contact parts AISI 316 & non contact parts AISI 304.
- Easy to connect with all types of mother machine like Tablet press, De-Duster & Auger Powder filling Machine.
- Dynamically balanced blower.
- Easy mobility imparted with Castor wheel.



OTHER PACKAGING

Carton Packing Conveyor Belt



TECHNICAL SPECIFICATION

Model	NKPC-8	NKPC-10	NKPC-12
Direction of Movement	Left to Right		
Speed	7 Mtr./Min up to 12 Feet Long OR Variable		
Power Consumption	0.5 HP	0.5 HP	1 HP
Height of Conveyor	860 mm to 910 mm		
Belt width	9" or 12" as per requirement		
Belt Details	PVC, endless 2 ply sandwich, 2mm thickness (Optional Slat Chain in S. S. or Delrin instead of PVC Belt)		



SALIENT FEATURES

- Machine Structure is made of AISI 304.
- Unit speed can be varied due to use of Sensor less variable frequency drive.
- Belt alignment system for long life and straight running of belt.
- All electronics / brought out items are of CE Certified.
- Length of Unit can be made as per requirement
- Adjustable height of conveyor belt, to align with other machine of the line.
- Self-alignment bearing for easy maintenance.
- Virtually no maintenance required.
- Special type adjustable angle at initial of conveyor for strip or blister packing (optional)



APPLICABLE INDUSTRIES

- Pharmaceutical,
- Beverages,
- Wine
- Distilleries

OUR GLOBAL PRESENCE



Youtube Link : <http://www.youtube.com/c/KirtiMevadankindustries>



N. K. INDUSTRIES

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