



# Filling & Packaging System

Specialized in Filling Line



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## About us

**Innova Bio-Meditech** is one of the professional solution provider of laboratory and medical devices. Firmly committed to our mission of "sharing innovative bio-meditech solutions with the world", we are dedicated to innovation in the fields of Biology Project, Life Science, Pharmacy Industry and Medical Treatment.

**Innova Bio-Meditech** possesses a sound distribution and service network with business partners in North and Latin America, Europe, Africa and Asia-Pacific etc. We have built up a well established R&D, manufacture network with 3 centers in Qingdao, Shanghai and Suzhou. Inspired by the needs of our customers, we adopt advanced technologies and transform them into accessible innovation. This means constant effort and research, in order to more fully understand the developments of the market, INNOVA produce constantly upgraded product ranges by adding new products year after year.

*The passion for science*

## Contents

<i>Filling &amp; Closing</i> .....	1-12
<i>Cleaning &amp; Sterillization</i> .....	13-15
<i>Loading</i> .....	16-17
<i>Lableing</i> .....	18-19
<i>All Complete Lines</i> .....	20-34

## Filling, stoppering and capping machine

IGSZ suitable for liquid filling, stoppering and capping. Uses single rail to feed bottle, the bottle is transferred by conveying belt, and dialing wheel positions the bottle.



### Features

- Compact machine.
- Especially suitable for 5ml-500ml bottle.
- 4 piston pump measuring filling for accurate filling volume.
- Servo system+ stainless steel pump filling.
- The pump and other contact parts with drug liquid are SS316L.
- The working table is covered by stainless steel.
- Compliant with GMP requirement.

### Functions

- Shut down without bottle/Bottle arrive and machine resume
- No stoppering machine stop
- No cap machine stop
- Screw capping has flip unit, do not hurt cap
- Product quantity count
- Alarm display

### Format Range



### Technical Parameter

Model	Applied range	Capacity	Filling method	Filling accuracy	Compressed air consumption	Filling head	Stoppering head	Total power	Power supply	Noise	Total weight	Overall size
IGSZ	1-500mL	40-100b/min	servo system+ stainless steel pump (Peristaltic pump optional*)	± 1%	0.5-0.6 MPa 10m³/h	4 heads	1 head	2.0kW	220V 50Hz	≤65dB(A)	Around 800kg	2440*1350* 1700mm

## Filling and stoppering machine

IGS series suitable for liquid filling and stoppering. Use single rail or dual rail to feed bottle, the bottle is transferred by conveying belt, and dialing wheel positions the bottle.



IGS-1



IGS-2

### Features

- Compact machine
- Especially suitable for 30ml-500ml bottle
- 4 (10 for IGS-2) piston pump measuring filling for accurate filling volume.
- Servo system+stainless steel pump filling
- Pneumatic stoppering for high success ratio
- The pump and other contact parts with drug liquid are SS316L
- The working table is covered by stainless steel
- Compliant with GMP requirement

### Functions

- Shut down without bottle
- No bottle no stoppering
- Product quantity count
- Alarm display

### Optional Functions

- Class 100 laminar flow hood
- Pre & after nitrogen filling

### Format Range



### Technical Parameter

Model	Applied range	Capacity	Filling method	Filling accuracy	Compressed air consumption	Filling head	Stoppering head	Total power	Power supply	Noise	Total weight	Overall size
IGS-1	30-500mL	40-60b/min	(Peristaltic pump optional*)	± 1%	0.5-0.6MPa 5m³/h	4 heads	1 head	2.0kW	220V 50Hz	≤65dB(A)	Around 800kg	2440*1200* 1700mm
IGS-2		80-100b/min				10 heads	2 heads				Around 900kg	3300*1200* 1700mm

## Filling and capping machine

IGZ series suitable for liquid filling and capping. Uses single rail or dual rail to feed bottle, the bottle is transferred by conveying belt, and dialing wheel positions the bottle.

IYGZ suitable for liquid filling and capping of special-shaped bottles. Uses single rail to feed bottle, the bottle is transferred by conveying belt, and dialing wheel positions the bottle.



### Features

- Compact machine
- 4 (10 for IGZ-2) piston pump measuring filling for accurate filling volume.
- Servo system+stainless steel pump filling
- The pump and other contact parts with drug liquid are SS316L
- The working table is covered by stainless steel
- Compliant with GMP requirement

### Functions

- Shut down without bottle
- Bottle arrive and machine resume
- No cap machine stop
- Screw capping has flip unit, do not hurt cap
- Product quantity count
- Alarm display

### Format Range



### Technical Parameter

Model	Applied range	Capacity	Filling method	Filling accuracy	Compressed air consumption	Filling head	Stoppering head	Total power	Power supply	Noise	Total weight	Overall size
IGZ-1	30-500mL	40-60 b/min	servo system+stainless steel pump	± 1%	0.5-0.6MPa 5m³/h	4 heads	1 head	2.0kW	220V 50Hz	≤65dB(A)	Around 800kg	2440*1350*1700mm
IGZ-2	30-500mL	80-100 b/min				10 heads	2 heads				Around 1000kg	3300*1100*1700mm
IYGZ	30-500mL	40-60b/min; 80-100b/min				4 heads	1 heads				Around 800kg	2440*1350*1700mm

## Filling and screw capping machine

IGX suitable for liquid filling and screw capping. This machine uses dialing wheel to feed bottle, the bottle is transferred by synchronous belt, and the filling needle is reciprocating tracking, uses 10 head screw capping.



### Features

- Especially suitable for 5ml-300ml bottle
- 10-16 piston pump measuring filling for accurate filling volume.
- The pump and other contact parts with drug liquid are SS316L
- The working table is covered by stainless steel

- Compliant with GMP requirement
- Precise and stable transmission
- No air contamination
- No error on each mechanism coordination
- Small noise
- Low loss
- Output is stable

### Functions

- Shut down without bottle
- Shut down without cap
- Screw capping has flip unit
- Do not hurt cap
- Product quantity count
- Alarm display

### Technical Parameter

Model	Applied range	Capacity	Filling method	Filling accuracy	Compressed air consumption	Filling head	Stoppering head	Total power	Power supply	Noise	Total weight	Overall size
IGX	5-300mL	150-200b/min	servo system+stainless steel pump	± 1%	0.5-0.6MPa 10m³/h	10-16 heads	10 heads	3.5kW	380V 50Hz	≤65dB(A)	Around 2000kg	4500*2230*1700mm

## Oral liquid filling and capping machine

IKF-24 suitable for oral liquid filling and capping, adopts mesh belt inlet bottle rotary wheel transfer, the filling needle is reciprocating tracking, and the single capping knife is rotary pressing, it can automatically execute bottle feeding, filling, unscrambling on cap, and capping, etc.



### Features

- It adopts mechanical driven method of filling, the filling pump can be metal pump, ceramic pump or peristaltic pump according to the request of user

### Format Range



### Technical Parameter

Model	Applied range	Capacity	Filling method	Filling accuracy	Compressed air consumption	Filling head	Stoppering head	Total power	Power supply	Noise	Total weight	Overall size
IKF-24	5-25mL	250-450b/min	Glass pump (peristaltic pump, ceramic pump optional)	± 1%	0.5-0.6MPa 10m³/h	10-16 heads	24 heads	3.0kW	220V 50Hz	≤65dB(A)	Around 2000kg	3500*1500*1700mm

## Powder filling and capping machine

IFZ is powder filling and capping machine, and is applicable to packaging of powder, solid particles in pharmaceutical and food industry with functions of filling, caps screwing and capping. This equipment is a kind of machine type Single-headed or double-headed filling/capping is available according to clients's specific requirements.



### Features

- Compact machine
- Simple in operation

### Optional Functions

- Single-headed or double-headed filling
- Single-headed or double-headed capping

### Functions

- Filling, caps screwing and capping

### Format Range



### Technical Parameter

Filling weight	Capacity	Filling accuracy	Total power	Power supply	Total weight	Overall size
3-500g (change mold)	15-30b/min (single-headed); 20-60b/min (double-headed)	0.5-2%	1.5-2.0kW	220V 50Hz	750kg	2400*1200*1800mm

## Spray filling and capping machine

IPGX is suitable for liquid filling in pharmaceutical, healthcare, food industry, etc.



### Features

- Compact machine
- Especially suitable for 3ml-25ml bottle
- Servo system+2 ceramic pump measuring filling
- The pump and other contact parts with drug liquid are SS316L
- The working table is covered by stainless steel
- Compliant with GMP requirement

### Functions

- Shut down without bottle
- No bottle no filling
- No bottle no capping
- Screw capping has flip unit, do not hurt cap
- Product quantity count
- Alarm display

### Format Range



### Technical Parameter

Model	Bottle size	Production capacity	Power supply	Power	Compressed air consumption	Overall size
IPGX-1	3-25mL	40-60b/min	220V 50Hz	2.0kW	5m <sup>3</sup> /h	2440*1300*1700mm
IPGX-2		60-80b/min				3000*1350*1700mm

## Ferrule capping machine

ITX series are ferrule capping machine, suitable for gargle bottle capping.



### Features

- Working table is covered by stainless steel
- Machine transmission is mechanical type
- No air contamination
- No error on each mechanism coordination
- Small noise
- Low loss
- Output is stable
- Compliant with GMP requirement

### Functions

- Shut down without bottle
- Bottle arrive machine start
- Shut down without cap
- Screw capping has flip unit, do not hurt cap
- Product quantity count
- Alarm display

### Format Range



### Technical Parameter

Model	Bottle size	Production capacity	Power supply	Power	Compressed air consumption	Overall size
ITX-1	20-500mL	40-60b/min	220V 50Hz	1.0kW	5m <sup>3</sup> /h	2400*1350*1700mm
ITX-2		80-100b/min				2600*1350*1700mm

## Star wheel positioning type capping machine

IZ series are star wheel positioning type capping machine, suitable for screw (crimp) capping. With 3 knife sealing, 4 knife screw capping.



### Features

- Compact machine
- Screw capping has flip unit
- Convenient to adjust the pressure
- The working table is covered by stainless steel
- Compliant with GMP requirement

### Functions

- Suitable for screw cap, filter-proof cap, Alu-PVC cap, pressed cap
- Shut down without bottle
- Shut down without cap
- Product quantity count
- Alarm display

### Format Range



### Technical Parameter

Model	Applied range	Capacity	Compressed air consumption	Screw capping head	Total power	Power supply	Noise	Total weight	Overall size
IZ-1	30-500mL	40-60b/min	0.5-0.6MPa 5m³/h	1 head	1.0kW	220V50Hz	≤65dB(A)	Around 600kg	2440*1200* 1700mm
IZ-2		80-100b/min (dual rail to feed bottle, dual head screwcapping)		2 heads				Around 650kg	2600*1100* 1700mm

## Single knife high-speed capping machine

IYZ is single knife high-speed capping machine, mainly applicable to capping operation for antibiotic bottles in pharmaceutical factories.



### Features

- Rolling-type hemming
- Pressure is adjustable
- Automatically finish bottles conveying, unscrambling and capping

### Technical Parameter

Applied range	Capacity	Quantity of capping knife	Total power	Power supply	Noise	Total weight	Overall size
2-30mL	240-300b/min	6, 8, 12	1.0kW	220V 50Hz	≤65dB(A)	500kg	1500*11480* 1382mm

## Cupping machine

IDL is cupping machine, suitable for syrup putting cup, the machine structure is reasonable, uses three star wheel, continuously feed bottle and cup.



### Features

- Compact machine
- Accurate Pressing cup and positioning
- Stable transmission
- The star wheel is made by PE material
- The working table is covered by stainless steel.
- Compliant with GMP requirement
- Easy to change size format for variety of product sizes

### Features

- Shut down without bottle
- No cup machine stop
- Product quantity count
- Alarm display

### Technical Parameter

Applied range	Capacity	Total power	Power supply	Noise	Total weight	Overall size
5-500 mL	100-200b/min	1.5kW	220V 50Hz	220V 50Hz	≤75dB(A)	2440*1650*1700mm

## Rotary cylinder ultrasonic washing machine

IQCX series is suitable for inner and external clean for 2-500ml various materials round bottle or irregular bottle with holder to make bottle reach the requirement of production.



### Features

- Suitable for inner and external clean for 2-500ml various materials round bottle or irregular bottle with holder.
- Firstly wash by ultrasonic waves, secondly two water and one air wash (tap water, purified water and oil-free compressed air), and then oil-free compressed air blow inside bottle, to make bottle reach the requirement of production.
- After changing the specifications of the mold, the product can be applied to a variety of product sizes. And our company mold can change in full set, it is convenient to adjust.

### Format Range



### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Compressed air consumption	Water consumption	Overall size
IQCX-1	30-500mL	40-60b/min	220V 50Hz	2.0kW	10m³/h	0.5t/h	1400*1120*1140mm
IQCX-2	30-500mL	80-100b/min	220V 50Hz	2.0kW	10m³/h	0.5t/h	



## Vertical ultrasonic washing machine

IQXL series uses vertical gyration structure. It adopts the way of clamping and overturning bottles with manipulator and the principle of ultrasonic cleaning and washing by alternant jetting water and airflow to clean the containers one by one.



### Features

- Energy saving, and has good washing effect
- Circulation water, compressed air and WFI adopt independent needles are inserted into bottle to flush
- No cross contamination
- No water and air loss
- Available to observe whole washing process through eyes
- Convenient for operation and maintenance

### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Compressed air consumption	Water consumption	Overall size
IQXL-60	1-50mL	200-240b/min	220V 50Hz	16kW	20m <sup>3</sup> /h	0.5	2400*2100*1300mm
IQXL-80		250-350b/min			30m <sup>3</sup> /h	0.8	
IQXL-100		350-400b/min			40m <sup>3</sup> /h	1.0	2600*2100*1300mm

## Air cleaning machine

IQX series is cleaning machine for plastic bottle clean in pharmaceutical industry, which is suitable for 5-200ml round bottle.



### Features

- Compliant with GMP requirement
- Surface is made of SS304
- The transmission is stable
- No air contamination
- Small noise
- Low loss is
- Stable output

### Features

- Shut down without bottle
- Product quantity count
- Alarm display
- Applied to a variety of product sizes
- Convenient to adjust specifications of the mold

### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Compressed air consumption	Overall size
IQX-1	20-500ml	40-60b/min	220V 50Hz	1.5kW	10m <sup>3</sup> /h	2000*760*1700mm
IQX-2	20-500ml	80-120b/min				2000*800*1700mm

## Hot air circulating sterilizing tunnel

IRX is mainly used for drying and sterilizing and depyrogenation on antibiotic tube bottle, molded bottle, ampoule bottle, infusion bottle and oral liquid bottle. The machine can make bottle stay  $\geq 300^{\circ}\text{C}$  temperature for  $\geq 5$  minutes, to reach drying, sterilizing, and depyrogenation.



### Features

- The machine can be used individually, can also compose automatic production line
- Tunnel structure, which is divided into pre-heating, high temperature sterilizing, and cooling
- Hot air laminar flow and air high temperature sterilizing principle
- Good heat distribution, and good effect on depyrogenation
- The equipment components are all international brand

### Technical Parameter

Production capacity	Temperature adjustment	Conveying method	Conveying speed	Power supply	Power
4000-24000b/min (Depends on bottle size)	100-320 $^{\circ}\text{C}$	width 600-800 mm, Mesh belt type	adjustable	380V 50Hz	58kW
Cooling method		Heating method	Cleanness in chamber	Weight	Overall size
Air cooling; Bottle discharge temperature $\leq$ class 100 room temperature 40 $^{\circ}\text{C}$		Hot air circulation	Class 100 laminar flow hood	3000kg	2000*800*1700mm

## Automatic unscrambler

ILP series is suitable for plastic bottle automatically unscrambling in pharmaceutical industry. It is suitable for 5-200ml round bottle.



### Features

- Surplus bottle, stop the unscrambler, short bottle, turn on unscrambler
- Surplus bottle stop the elevator, short bottle, turn on elevator
- Can be in line with other equipment

### Features

- Surface is made of SS304
- Stable transmission
- No air contamination
- Small noise
- Low loss
- Stable Output
- Compliant with GMP requirement

### Format Range



### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Compressed air consumption	Overall size
ILP-1	3-25 mL	40-130b/min	220V 50Hz	0.09kW	1000*1600*1650mm
ILP-2	30-50 mL	80-150b/min		0.12kW	1170*1800*1650mm
ILP-3	60-80 mL	80-150b/min		0.5kW	1200*1900*1650mm
ILP-4	60-100 mL	100-160b/min		1400*2320*1650mm	
ILP-5	120-300 mL	120-200b/min		1650*2660*1650mm	

## Turn table

IGP is suitable for liquid and infusion bottle manual feeding and automatically organizing bottles in pharmaceutical industry. The machine adopts a turntable to let the bottle go into bottle feeding rail.



### Features

- Compact machine
- Surface is made of SS304
- Compliant with GMP requirement

### Technical Parameter

Applied range	Production capacity	Total power	Power supply	Noise	Total weight	Overall size
30-500mL	Matched with connected machine	0.09kW	220V 50Hz	≤65dB(A)	Around 200kg	950*1200*1100mm

## Horizontal labeling machine

IWT is suitable for labelling round tube-type bottles and round objects. It is controlled by stepping motor or servo motor.



### Features

- Controlled by stepping motor or servo motor
- Imported touch screen
- Accurate labelling
- Small errors
- High efficiency
- Output shift production records connecting to a printer
- Automatically monitor production status

### Optional Functions

- Malfunction warning
- Numerical value warning

### Label Specifications

Inner diameter of label's core	76mm
Outer maximum diameter	350mm
Label width	10-80mm
Label length	10-200mm

### Technical Parameter

Label speed	Bottle range	Total power	Power supply	Total weight	Overall size
≤ 35m/min	18-100mm	0.8kW	220V 50Hz	300kg	2150*700*1350mm

## Vertical labeling machine

ILT is suitable for labelling round tube-type bottles and round objects. It is controlled by stepping motor or servo motor.



### Features

- Controlled by stepping motor or servo motor
- Imported touch screen
- Accurate labelling
- Small errors
- High efficiency
- Output shift production records connecting to a printer
- Automatically monitor production status

### Features

- Malfunction warning
- Numerical value warning

### Label Specifications

Label length	10-200 mm
Inner diameter of label's core	76 mm
Outer maximum diameter	350 mm
Label width	10-80 mm

### Technical Parameter

Label speed	Bottle range	Total power	Power supply	Total weight	Overall size
≤ 35m/min	18-100mm	0.8kW	220V 50Hz	300kg	2000*600*1350mm

## Vaccine production line

The line consists of IGP Turntable, IGS Filling and stoppering machine and IZ star wheel positioning type capping machine. It is suitable for 5-300ml vaccine bottle automatic unscrambling, filling and stoppering, screw(crimp)capping, and labeling, etc.



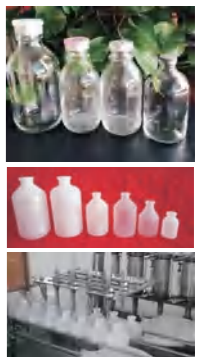
### Features

- Filling from 5-300 mL
- Applied to various specifications of product by changing mold
- Easy to adjust

### Features

- IGP Store bottle, organize bottle, transfer bottle, meet the requirement of production. (select automatic unscrambler as option)
- IGS Filling and stoppering machine adopts servo system+stainless steel pump filling, the filling speed can be adjusted, and the filling is gentle, solve the two major difficulties in vaccine industry,i.e.filling accuracy and the last drop.
- IZ Star wheel positioning type capping machine is suitable for various material and various type bottle putting cap and screw(crimp) capping. Such as: aluminium cap, screw cap, pilfer-proof cap, press cap, etc

### Format Range



### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Overall size
IGP	30-500mL	40-100b/min	40-100b/min	0.5kW	1400*2320*1650mm
IGS-1		40-60b/min	40-60b/min	2.0kW	2440*1050*1700mm
IGS-2		80-100b/min	80-100b/min		3300*1100*1700mm
IZ-1		40-60b/min	40-60b/min	1.5kW	2440*1300*1700mm
IZ-2		80-100b/min	80-100b/min		2600*1200*1700mm
ILT		40-150b/min	40-150b/min	0.8kW	2000*1050*1300mm

## Glass bottle syrup production line

This line consists of IGP Turntable, IQCX Rotary cylinder ultrasonic washing machine, IRX Hot air circulating and Sterilizing tunnel, IGZ Filling and screw(crimp) capping machine and ILT Vertical adhesive labeling machine.



### Features

- Suitable for pharmaceutical syrup production
- Up to 12,000 containers per hour
- Filling from 20-500 mL
- Wide format range with easily change of mold
- Circulation water, compressed air and WFI adopt independent needles are inserted into bottle to flush
- No cross contamination
- No water and air loss
- Available to observe whole washing process through eyes
- Convenient for operation and maintenance.

### Functions

- IGP Turntable: Storage of bottle, unscrambling the bottle and feeding bottle.
- IQCX Rotary cylinder ultrasonic washing machine: Adopt ultrasonic cavitation principle, which can effectively clean the inner and outer bottle surface, such as particles and oil. And water/air needle insert the bottle and make two water one compressed air clean.
- IRX Hot air circulating and Sterilizing tunnel adopts hot air flow and hot air high temperature sterilizing principle to have the bottle sterilized and depyrogenated. It has the characteristics of uniform heat distribution, fine effect of depyrogen. The electrical and pneumatic components are all international brand.
- IGZ Filling and capping machine adopts servo system+ stainless steel pump filling, the filling speed can be adjusted, and the filling is gentle to prevent from liquid leak and reduce bubble, screw capping has slipping unit, it will not hurt the cap. It is easy for the replacement of format.
- ILT Vertical labeling machine adopts servomotor driving, clear coding, and easy replacement of letter, and high quality of labeling.

### Format Range



### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Overall size
IGP	30-500mL	40-100 b/min	220V 50Hz	0.09kW	950*1200*1100mm
IQCX-1		40-60 b/min		2.0kW	1400*1120*1140mm
IQCX-2		80-100 b/min			
IRX		40-100 b/min		58kW	5000*1700*2300mm
IGZ-1		40-60 b/min		2.0kW	2440*1350*1700mm
IGZ-2		80-100 b/min			3300*1100*1700mm
ILT	10-500mL	40-150 b/min		2.0kW	2000*1050*1300mm

# Plastic bottle syrup production line-1

The line consists of ILP-5 Automatic unscrambler, IGX Filling and screw capping machine, IDL Cupping machine and ILT Vertical adhesive labeling machine.



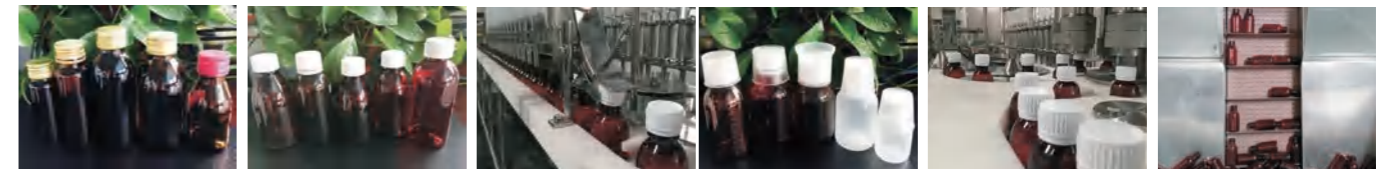
## Features

- Suitable for pharmaceutical syrup production
- Up to 12,000 containers per hour
- Filling from 5-300mL

## Features

- ILP-5 Automatic unscrambler organize disordered bottle, it can continuously feed bottle, turn bottle and transfer bottle. The unscrambling success rate is high.
- IGX Filling and screw capping machine adopts servo system+ stainless steel pump filling, the filling speed can be adjusted, and the filling is gentle to prevent from liquid leak and reduce bubble. Screw capping has flip unit, do not hurt cap. The bottle feeding is driven on module by the synchronous belt, it is easy for the replacement of format.
- IDL Cupping machine has high ratio of putting the cup, it is stable to press the cup and it is easy for the replacement of format.
- ILT Vertical adhesive labeling machine adopts servo motor driving, clear coding, and easy replacement of of letter, and high quality of labeling.

## Format Range



## Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Overall size
ILP	5-300mL	150-200b/min	220V 50Hz	0.5kW	1650*2660*1650mm
IGX			380V 50Hz	3.5kW	4500*2230*1700mm
IDL			220V 50Hz	1.0kW	2440*1650*1700mm
ILT				0.8kW	2000*1050*1300mm

## Plastic bottle syrup production line-2

The line consists of IGP Turntable, IGZ-1 Filling and screw capping machine, ILB Aluminum foil sealing machine and ILT Vertical adhesive labeling machine.



### Features

- Up to 3,600 containers per hour
- Filling from 20-500 mL

### Features

- IGP Unscrambler store bottle, unscramble bottle, and transfer bottle to meet the production capacity.
- IGZ-1 Filling and screw capping machine adopts servo system+ stainless steel pump filling, the filling speed can be adjusted, and the filling is gentle to prevent from liquid leak and reduce bubble. Screw capping has flip unit, do not hurt cap. It is easy for the replacement of format.
- ILB Aluminum foil sealing machine has rejection function for no aluminum foil, alarm during water shortage. The temperature can be adjusted.
- ILT Vertical adhesive labeling machine adopts servo motor driving, clear coding, and easy replacement of of letter, and high quality of labeling.

### Format Range



### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Overall size
IGP	20-500mL	40-60b/min	220V 50Hz	0.09kW	950*1200*1050mm
IGZ-1				2.0kW	2440*1350*1700mm
ILB				3.0kW	1800*820*1300mm
ILT				0.8kW	2000*1050*1300mm

## Gargel filling line

The line consists of ILP automatic unscrambler, IHGS-2 filling and stoppering machine, ITX capping machine, and ILT vertical adhesive labeling machine.



### Features

- Suitable for pharmaceutical gargle
- Filling from 20-500 mL
- A wide range of application
- Easy to adjust

### Features

- ILP Automatic unscrambler organizes disordered bottles, it can continuously feed bottle, turn bottle and transfer bottle, it has high success ratio of unscrambling.
- IHGS Filling and stoppering machine adopts servo system+stainless steel pump filling, the filling speed can be adjusted, and the filling is gentle to prevent from liquid leak and reduce bubble. It has rejection function for no stoppering. It is easy for the replacement of format.
- ITX Ferrule capping machine has high success ratio of putting cup, screw capping has slipping system, it will not hurt the cap. It is easy for the replacement of format.
- ILT Vertical adhesive labeling machine adopts servo motor driving, clear coding, and easy replacement of of letter, and high quality of labeling.

### Format Range



### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Overall size
ILP	20-500ml	40-100b/min	220V 50Hz	0.5kW	1400*2320*1650mm
IGS-1	20-500ml	40-60b/min	220V 50Hz	2.0kW	2440*1050*1700mm
IGS-2		80-100b/min			4000*1200*1700mm
ITX-1	20-500ml	40-60b/min	220V 50Hz	1.5kW	2440*1400*1700mm
ITX-2		80-100b/min			2600*1400*1700mm
ILT	20-500ml	40-150b/min	220V 50Hz	0.8kW	2000*1050*1700mm



## Infusion bottle filling line

This line consists of IGP Turntable, IQCX Rotary cylinder ultrasonic washing machine, IRX Sterilizing tunnel, and IGS Filling, stoppering machine, IZ Star wheel positioning type capping machine and ILT Vertical adhesive labeling machine. This line is suitable for 20-500ml bottle feeding, washing, drying and sterilizing, filling and stoppering, crimp(screw) capping, and labeling, etc.



### Features

- Filling from 20-500 mL
- Applied to various specifications of product by changing mold
- Wide range of application
- Easy to adjust

### Features

- IGP Turntable: Storage of bottle, unscrambling the bottle and feeding bottle.
- IQCX Rotary cylinder ultrasonic washing machine: Adopt ultrasonic cavitation principle, which can effectively clean the inner and outer bottle surface, such as particles and oil. And water/air needle insert the bottle and make two water one compressed air clean.
- IRX Hot air circulating and sterilizing tunnel adopts hot air flow and hot air high temperature sterilizing principle to have the bottle sterilized and depyrogenated. It has the characteristics of uniform heat distribution, fine effect of depyrogen. The electrical and pneumatic components are all international brand.
- IGS Filling and stoppering machine adopts servo system+stainless steel pump filling, the filling speed can be adjusted, and the filling is gentle to prevent from liquid leak and reduce bubble.
- IZ Star wheel positioning type capping machine is suitable for various material and various type bottle putting cap and screw (crimp) capping. Such as: aluminium cap, screw cap, pilfer-proof cap, press cap, etc

### Format Range



### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Overall size	
IGP	50-500mL	40-100b/min	220V 50Hz	0.09kW	950*1200*1100mm	
IQCX-1		40-60b/min		2.0kW	1400*1120*11400mm	
IQCX-2		80-100b/min		58kW	5000*1700*2300 mm	
IRX		40-100b/min				
IGS-1		40-60b/min		2.0kW	2440*1050*1700 mm	
IGS-2		80-100b/min			3300*1100*1700 mm	
IZ-1		40-60b/min		1.5kW	2440*1300*1700 mm	
IZ-2		80-100b/min			2600*1200*1700mm	
ILT		20-500mL		40-150b/min	0.8kW	2000*1050*1300mm

## Diagnostic reagent filling production line

This linkage production line is made up of auto bottles stacker, air-washing machine, filling cap screwing machine, bottles unhitching machine, auto bottles screening machine, and annular conveying belt. This machine has stable performance and is easy for operation, thus being popular among users.



### Features

- Filling from 2-500 mL
- Applied to production of all kinds of diagnostic reagent in medical and chemical industry
- Non-standard design can be conducted according to requirements
- Easy to adjust

### Features

- The filling adopts servo system+ stainless steel pump filling, the filling speed can be adjusted, and the filling is gentle to prevent from liquid leak and reduce bubble. Screw capping has flip unit, do not hurt cap. It has rejection function for none capping, and separation of bottles. It is easy and fast for the replacement of format.

### Format Range



### Technical Parameter

Applied range	Capacity	Filling method	Filling accuracy	Total power	Power supply	Noise	Overall size
2-500mL	4-100b/min	servo system+ stainless steel pump (Peristaltic pump optional)	±1%	3.5kW	220V 50Hz	≤65dB(A)	≤ 7.5m

## Oral liquid production line

This line consists of IQXL Vertical washing machine, IRX Hotair circulating sterilizing tunnel and IKF-24 Oralliquid filling and capping machine. It can execute washing , drying and sterilizing, filling and capping function. It is mainly suitable for pharmaceutical oral liquid production, and compliant with GMP version.



Format Range



### Features

- IQXL Washing machine adopts ultrasonic washing and independent water and compressed air spraying wash, during the whole period of pressure spray of water and compressed air, the washing media use individual needle, to avoid washing media cross contamination, the washed oral liquid bottle is compliant with GMP requirement.
- IRX Hot air circulating and Sterilizing tunnel adopts hot air flow and hot air high temperature sterilizing principle to have the bottle sterilized and depyrogenated. It has the characteristics of uniform heat distribution, fine effect of depyrogen. The electrical and pneumatic components are all international brand.
- IKF Oral liquid filling and capping machine adopts big starwheel to feed bottle, the filling needle is reciprocating tracking, and the single capping knife is rotary pressing, it has high success ratio on capping, and good adaptability.

### Technical Parameter

Model	Containers sizes	Production capacity	Power supply	Power	Overall size
IQXL	5-25mL	250-450b/min	220V 50Hz	16kW	2400*2100*1300mm
IRX	5-25mL		380V 50Hz	58kW	4500*1500*2300mm
IKF-24	5-25mL		220V 50Hz	3.0kW	4500*1500*1700mm

## Sterile eye drop production line

This eye drop filling line mainly consists of bottle unscrambling and feeding, ion air washing and filling, stoppering and capping units, to accomplish eye drop bottle unscrambling, feeding, ion air destaticizing, air washing, metering and filling, stoppering, putting caps and screw capping, etc. After changing the specifications of the mold, the product can be applied to a variety of product sizes. And it is easy to adjust, there is no need special tools for disassembly.



Format Range



### Features

- This line has function that the unscrambler stops when the bottle surplus on filling machine; no bottle no filling, no stoppering; no stoppering no capping. During the capping, the bottle is held and positioned by cylinder, it prevents bottle slip. Screw capping has flip unit, do not hurt cap.
- The filling machine adopts servo system+ stainless steel pump filling, the filling accuracy is high, and the filling volume can be directly adjusted on touch screen.
- The whole process is operated under the protection of sterile isolation of 100 class laminar flow hood, to make sure of eye drop sterile production, and comply with the requirement of GMP on GB, the production line is also suitable for small volume plastic bottle filling production.

### Technical Parameter

Model	Applied range	Capacity	Compressed air consumption	Power	Power supply	Noise	Production line length
IDY-1	1-30mL plastic round bottle	Single-headed 40-60 b/min	0.5-0.6MPa 10m³/h	7kW	220V 50Hz	≤75dB(A)	≤7m
IDY-2		Double-headed 80-100b/min					