



# Filling & Packaging System

Specilized in Filling Line



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## About us

**YOCELL Biotechnology** is your trusted partner in the field of bioprocess.

YOCELL has a team of energetic young scientists and engineers. From initial R&D to production, we are committed to providing the most reliable solutions for biotechnology scientists and engineers around the world. Accepting the challenges of continuous innovation in biotechnology and solving problems from multiple perspectives are the most impressive qualities of the team.

### *Pragmatic*

Always listen carefully to your needs and provide the most competitive solutions.

### *Efficient*

Respond quickly and have a strong supply chain to ensure fast delivery.

### *Focus*

Continuous attention and passion for innovation in the field of biotechnology control.

## Content

*Filling & Closing* ----- 1-12

*Cleaning & Sterillization* ----- 13-15

*Loading* ----- 16-17

*Lableing* ----- 18-19

*All Complete Lines* ----- 20-34

## Filling and stoppering machine

YCGS is suitable for liquid filling and stoppering in pharmaceutical, healthcare, food industry, etc. The uses single rail (dual rail for YCGS-2) to feed bottle, the bottle is transferred by conveying belt, and dialing wheel positions the bottle.



YCGS-1

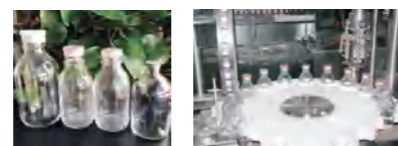


YCGS-2

### Features

- Compact machine
- Especially suitable for 30ml-500ml bottle
- 4 (10 for YCGS-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

### Format Range



### 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

### 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         |
|--------|---------------|-------------|------------------------------|------------------|----------------------------|--------------|-----------------|-------------|--------------|----------|--------------|----------------------|
| YCGS-1 | 30-500mL      | 40-60b/min  | (Peristaltic pump optional*) | ± 1%             | 0.5-0.6MPa<br>5m³/h        | 4 heads      | 1 head          | 2.0kW       | 220V<br>50Hz | ≤65dB(A) | Around 800kg | 2440*1200*<br>1700mm |
| YCGS-2 |               | 80-100b/min |                              |                  |                            | 10 heads     | 2 heads         |             |              |          | Around 900kg | 3300*1200*<br>1700mm |

## Filling, stoppering and capping machine

YCGSZ is suitable for liquid filling, stoppering and capping in pharmaceutical, healthcare, food industry, etc. The machine uses single rail to feed bottle, the bottle is transferred by conveying belt, and dialing wheel positions the bottle.



### Format Range



### 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

### 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         |
|-------|---------------|-------------|---|------------------|----------------------------|--------------|-----------------|-------------|--------------|----------|--------------|----------------------|
| YCGSZ | 1-500mL       | 40-100b/min | servo system+ stainless steel pump (Peristaltic pump optional*) | ± 1%             | 0.5-0.6 MPa<br>10m³/h      | 4 heads      | 1 head          | 2.0kW       | 220V<br>50Hz | ≤65dB(A) | Around 800kg | 2440*1350*<br>1700mm |

## Oral liquid filling and capping machine

YCKF 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         |
|-------|---------------|--------------|--|------------------|----------------------------|--------------|-----------------|-------------|--------------|----------|---------------|----------------------|
| YCKF  | 5-25mL        | 250-450b/min | Glass pump (peristaltic pump, ceramic pump optional) | ± 1%             | 0.5-0.6MPa<br>10m³/h       | 10-16 heads  | 24 heads        | 3.0kW       | 220V<br>50Hz | ≤65dB(A) | Around 2000kg | 3500*1500*<br>1700mm |

## Filling and screw capping machine

YCGX is suitable for liquid filling and capping in pharmaceutical, healthcare, food industry, etc. The 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         |
|-------|---------------|--------------|------------------------------------|------------------|----------------------------|--------------|-----------------|-------------|--------------|----------|---------------|----------------------|
| YCGSZ | 5-300mL       | 150-200b/min | servo system+ stainless steel pump | ± 1%             | 0.5-0.6MPa<br>10m³/h       | 10-16 heads  | 10 heads        | 3.5kW       | 380V<br>50Hz | ≤65dB(A) | Around 2000kg | 4500*2230*<br>1700mm |

## Ferrule capping machine

YCXG is 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     |
|--------|-------------|---------------------|--------------|-------|----------------------------|------------------|
| YCXG-1 | 20-500mL    | 40-60b/min          | 220V 50Hz    | 1.0kW | 5m <sup>3</sup> /h         | 2400*1350*1700mm |
| YCXG-2 |             | 80-100b/min         |              |       |                            | 2600*1350*1700mm |

## Star wheel positioning type capping machine

YCZ is suitable for screw (crimp) capping in pharmaceutical, healthcare, food industry, etc. It has 3 knife sealing, 4 knife screw capping.



YCZ-1



YCZ-2

### 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     |
|-------|---------------|--|----------------------------------|--------------------|-------------|--------------|----------|--------------|------------------|
| YCZ-1 | 30-500mL      | 40-60b/min   | 0.5-0.6MPa<br>5m <sup>3</sup> /h | 1 head             | 1.0kW       | 220V50Hz     | ≤65dB(A) | Around 600kg | 2440*1200*1700mm |
| YCZ-2 |               | 80-100b/min (dual rail to feed bottle, dual head screwcapping) |                                  | 2 heads            |             |              |          | Around 650kg | 2600*1100*1700mm |

## Filling and capping machine

YCGZ is suitable for liquid filling and capping in pharmaceutical, healthcare, food industry, etc. The machine uses single rail (dual rail for YCGZ-2) to feed bottle, the bottle is transferred by conveying belt, and dialing wheel positions the bottle.



### Features

- Compact machine
- 4 (10 for YCGZ-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     |
|--------|---------------|----------------------------|------------------------------------|------------------|----------------------------|--------------|-----------------|-------------|--------------|----------|---------------|------------------|
| YCGZ-1 | 30-500mL      | 40-60 b/min                | servo system+ stainless steel pump | ± 1%             | 0.5-0.6MPa<br>5m³/h        | 4 heads      | 1 heads         | 2.0kW       | 220V 50Hz    | ≤65dB(A) | Around 800kg  | 2440*1350*1700mm |
| YCGZ-2 | 30-500mL      | 80-100 b/min               |                                    |                  |                            | 10 heads     | 2 heads         |             |              |          | Around 1000kg | 3300*1100*1700mm |
| YCGZ-3 | 30-500mL      | 40-60b/min;<br>80-100b/min |                                    |                  |                            | 4 heads      | 1 heads         |             |              |          | Around 800kg  | 2440*1350*1700mm |

## Spray filling and capping machine

YCPG 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     |
|--------|-------------|---------------------|--------------|-------|----------------------------|------------------|
| YCPG-1 | 3-25mL      | 40-60b/min          | 220V 50Hz    | 2.0kW | 5m³/h                      | 2440*1300*1700mm |
| YCPG-2 |             | 60-80b/min          |              |       |                            | 3000*1350*1700mm |

## Single knife high-speed capping machine

YCZG is 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 |

## Powder filling and capping machine

YCFG 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' specific requirements.



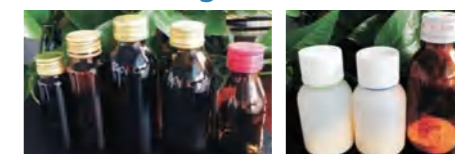
### Features

- Compact machine
- Simple in operation

### Functions

- Filling, caps screwing and capping

### Format Range



### Optional Functions

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

### 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 |

## Cupping machine

YCDL is suitable for 5-300ml 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     |
|---------------|--------------|-------------|--------------|-----------|--------------|------------------|
| 30-500mL      | 100-200b/min | 1.5kW       | 220V 50Hz    | 220V 50Hz | ≤75dB(A)     | 2440*1650*1700mm |

## Rotary cylinder ultrasonic washing machine

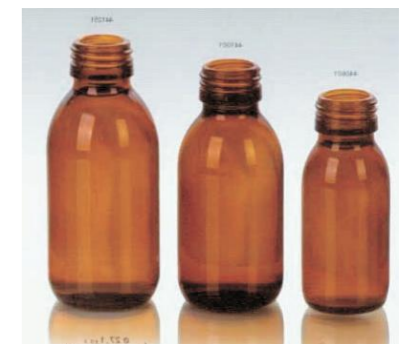
YCXG is suitable for inner and external clean for 2-500ml various materials round bottle or irregular bottle with holder to make bottle reach the requirement of production.



### 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     |
|--------|------------------|---------------------|--------------|-------|----------------------------|-------------------|------------------|
| YCXG-1 | 30-500mL         | 40-60b/min          | 220V 50Hz    | 2.0kW | 10m³/h                     | 0.5t/h            | 1400*1120*1140mm |
| YCXG-2 | 30-500mL         | 80-100b/min         | 220V 50Hz    | 2.0kW | 10m³/h                     | 0.5t/h            |                  |



## Vertical ultrasonic washing machine

YCXL use 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     |
|----------|------------------|---------------------|--------------|-------|----------------------------|-------------------|------------------|
| YCXL-60  | 1-50mL           | 200-240b/min        | 220V 50Hz    | 16kW  | 20m <sup>3</sup> /h        | 0.5               | 2400*2100*1300mm |
| YCXL-80  |                  | 250-350b/min        |              |       | 30m <sup>3</sup> /h        | 0.8               |                  |
| YCXL-100 |                  | 350-400b/min        |              |       | 40m <sup>3</sup> /h        | 1.0               | 2600*2100*1300mm |

## Air cleaning machine

YCXQ 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    |
|--------|------------------|---------------------|--------------|-------|----------------------------|-----------------|
| YCXQ-1 | 40-60b/min       | 40-60b/min          | 220V 50Hz    | 1.5KW | 10m <sup>3</sup> /h        | 2000*760*1700mm |
| YCXQ-2 | 80-120b/min      | 80-120b/min         |              |       |                            | 2000*800*1700mm |

## Hot air circulating sterilizing tunnel

YCRX 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<br>(Depends on bottle size)  | 100-320 C              | width 600-800 mm,<br>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

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



### Format Range



### 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

### Technical Parameter

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

## Turn table

YCGP is suitable for liquid and infusion bottle manual feeding and automatically organizing bottle 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

YCWT 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

YCLT 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

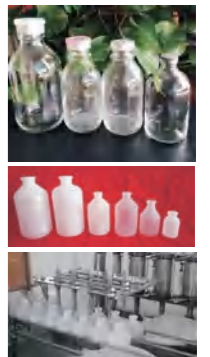
| Label speed | Bottle range | Total power | Power supply | Total weight | Overall size    |
|-------------|--------------|-------------|--------------|--------------|-----------------|
| ≤ 35m/min   | 18-100mm     | 0.8kW       | 220V 50Hz    | 300kg        | 2000*600*1350mm |

## Vaccine production line

The line consists of YCGP Turntable, YCGS Filling and stoppering machine and YCZ 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.



### Format Range



### Features

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

### Features

- YCGP Store bottle, organize bottle, transfer bottle, meet the requirement of production.(select automatic unscrambler as option)
- YCGS 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.
- YCZ 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

### Technical Parameter

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

# Glass bottle syrup production line

This line consists of YCGP Turntable, YCXG Rotary cylinder ultrasonic washing machine, YCRX Hot air circulating and Sterilizing tunnel, YCGZ Filling and screw(crimp) capping machine and YCLT 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

- YCGP Turntable: Storage of bottle, unscrambling the bottle and feeding bottle.
- YCXG 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.
- YCRX 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.
- YCGZ 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.
- YCLT 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     |
|--------|------------------|---------------------|------------------|--------|------------------|
| YCGP   | 30-500mL         | 40-100 b/min        | 220V 50Hz        | 0.09kW | 950*1200*1100mm  |
| YCXG-1 |                  | 40-60 b/min         |                  | 2.0kW  | 1400*1120*1140mm |
| YCXG-2 |                  | 80-100 b/min        |                  |        |                  |
| YCRX   |                  | 40-100 b/min        |                  | 58kW   | 5000*1700*2300mm |
| YCGZ-1 |                  | 40-60 b/min         |                  |        |                  |
| YCGZ-2 |                  | 80-100 b/min        |                  | 2.0kW  | 2440*1350*1700mm |
| YCLT   | 10-500mL         | 40-150 b/min        | 3300*1100*1700mm |        |                  |
|        |                  |                     |                  | 2.0kW  | 2000*1050*1300mm |

# Plastic bottle syrup production line-1

The line consists of YCLP-5 Automatic unscrambler, YCGX Filling and screw capping machine, YCDL Cupping machine and YCLT Vertical adhesive labeling machine.



## Features

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

## Features

- YCLP-5 Automatic unscrambler organize disordered bottle, it can continuously feed bottle, turn bottle and transfer bottle. The unscrambling success rate is high.
- YCGX 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.
- YCDL 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.
- YCLT 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     |
|--------|------------------|---------------------|--------------|-------|------------------|
| YCLP-5 | 5-300mL          | 150-200b/min        | 220V 50Hz    | 0.5kW | 1650*2660*1650mm |
| YCGX   |                  |                     | 380V 50Hz    | 3.5kW | 4500*2230*1700mm |
| YCDL   |                  |                     | 220V 50Hz    | 1.0kW | 2440*1650*1700mm |
| YCLT   |                  |                     |              | 0.8kW | 2000*1050*1300mm |

# Plastic bottle syrup production line-3

The line consists of YCGP Turntable, YCGZ-1 Filling and screw capping machine, YCLB Aluminum foil sealing machine and YCLT Vertical adhesive labeling machine.



### Features

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

### Features

- YCGP Unscrambler store bottle, unscramble bottle, and transfer bottle to meet the production capacity.
- YCGZ-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.
- YCLB Aluminum foil sealing machine has rejection function for no aluminum foil, alarm during water shortage. The temperature can be adjusted.
- YCLT 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     |
|--------|------------------|---------------------|--------------|--------|------------------|
| YCGP   | 20-500mL         | 40-60b/min          | 220V 50Hz    | 0.09kW | 950*1200*1050mm  |
| YCGZ-1 |                  |                     |              | 2.0kW  | 2440*1350*1700mm |
| YCLB   |                  |                     |              | 3.0kW  | 1800*820*1300mm  |
| YCLT   |                  |                     |              | 0.8kW  | 2000*1050*1300mm |

# Plastic bottle syrup production line-3

The line consists of YCGP Turntable, YCGZ-1 Filling and screw capping machine, YCLB Aluminum foil sealing machine and YCLT Vertical adhesive labeling machine.



### Features

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

### Features

- YCLP Automatic unscrambler organizes disordered bottles, it can continuously feed bottle, turn bottle and transfer bottle, it has high success ratio of unscrambling.
- YCGS-3 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.
- YCXG 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.
- YCLT 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      |
|--------|------------------|---------------------|--------------|-------------|-------------------|
| YCGP   | 50-500mL         | 40-100b/min         | 220V 50Hz    | 0.09kW      | 950*1200*1100mm   |
| YCXG-1 |                  | 40-60b/min          |              | 2.0kW       | 1400*1120*11400mm |
| YCXG-2 |                  | 80-100b/min         |              |             |                   |
| YCRX   |                  | 40-100b/min         |              | 58kW        | 5000*1700*2300 mm |
| YCGS-1 |                  | 40-60b/min          |              |             |                   |
| YCGS-2 |                  | 80-100b/min         |              |             |                   |
| YCZ-1  |                  | 40-60b/min          |              | 1.5kW       | 2440*1300*1700 mm |
| YCZ-2  |                  | 80-100b/min         |              |             |                   |
| YCLT   |                  | 20-500mL            |              | 40-150b/min | 0.8kW             |



# Infusion bottle filling line

This line consists of YCGP Turntable, YCXG Rotary cylinder ultrasonic washing machine, YCRX Sterilizing tunnel, and YCGS Filling, stoppering machine, YCZ Star wheel positioning type capping machine and YCLT 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

- YCGP Turntable: Storage of bottle, unscrambling the bottle and feeding bottle.
- YCXG 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.
- YCRX 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.
- YCGS 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.
- YCZ 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      |             |
|--------|------------------|---------------------|--------------|--------|-------------------|-------------|
| YCGP   | 50-500mL         | 40-100b/min         | 220V 50Hz    | 0.09kW | 950*1200*1100mm   |             |
| YCXG-1 |                  | 40-60b/min          |              | 2.0kW  | 1400*1120*11400mm |             |
| YCXG-2 |                  | 80-100b/min         |              |        |                   |             |
| YCRX   |                  | 40-100b/min         |              | 58kW   | 5000*1700*2300 mm |             |
| YCGS-1 |                  | 40-60b/min          |              |        |                   |             |
| YCGS-2 |                  | 80-100b/min         |              | 2.0kW  | 2440*1050*1700 mm |             |
| YCZ-1  |                  | 40-60b/min          |              |        |                   |             |
| YCZ-2  |                  | 80-100b/min         |              | 1.5kW  | 2600*1200*1700mm  |             |
| YCLT   |                  | 20-500mL            |              |        |                   | 40-150b/min |

## Diagnostic reagent filling production line

This line consists of YCGP Turntable, YCXG Rotary cylinder ultrasonic washing machine, YCRX Sterilizing tunnel, and YCGS Filling, stoppering machine, YCZ Star wheel positioning type capping machine and YCLT 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

- 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%              | 3.0kW       | 220V 50Hz    | ≤65dB(A) | ≤ 7.5m       |

## Oral liquid production line

This line consists of YCGP Turntable, YCXG Rotary cylinder ultrasonic washing machine, YCRX Sterilizing tunnel, and YCGS Filling, stoppering machine, YCZ Star wheel positioning type capping machine and YCLT 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.



### Format Range



### Features

- YCXG 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.
- YCRX 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.
- YCKF 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

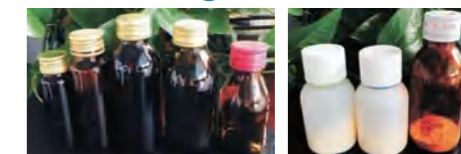
| Model | Containers sizes | Production capacity | Power supply | Power | Overall size     |
|-------|------------------|---------------------|--------------|-------|------------------|
| YCXG  | 5-25mL           | 250-450b/min        | 220V 50Hz    | 16kW  | 2400*2100*1300mm |
| YCRX  | 5-25mL           |                     | 380V 50Hz    | 58kW  | 4500*1500*2300mm |
| YCKF  | 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 |
|--------|-----------------------------|------------------------------|----------------------------|-------|--------------|----------|------------------------|
| YCDY-1 | 1-30mL plastic round bottle | Single-headed<br>40-60 b/min | 0.5-0.6MPa<br>10m³/h       | 7kW   | 220V 50Hz    | ≤75dB(A) | ≤7m                    |
| YCDY-2 |                             | Double-headed<br>80-100b/min |                            |       |              |          |                        |