



深圳丽高医疗科技有限公司  
Shenzhen Lico Medical Technology Co.Ltd



## Shenzhen Lico Medical Technology Co.Ltd

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# ONE STOP MEDICAL DEVICE SOLUTIONS

✓ raw materials and spare parts    ✓ Equipment    ✩ Finished Products

Shenzhen Lico Medical Technology co. Ltd is a Manufacturer & Trading Company. Our factory is found in Guangdong and Shandong province.

First, Our factory produces medical grade raw materials PVC granules for medical devices manufacturer. At the same time we also provide medical device automation machines, including infusion set assembly machine, syringe assembly machine, scalp ven set assembly machine, urine bags assembly machine.

Secondly we also have high quality service. Such as workshop layout, on-site installation and operator training & communication. We have rich experience of production and sales experience for disposable medical device series products.



# ABOUT

One more, We are a professional trading company on medical device area Infusion set, Syringe, Burette infusion set, Mask, Needle, Scalp vein set, Urine bag etc. We also devote ourselves to researching, exploiting and manufacturing an extensive range of medical equipment and healthcare products in hemodialysis series, airway management, feeding and drainage tubes, IV therapy and blood products, wound care products, products for urology, non-woven products and surgical products.

At the last, we can sell second-hand machine and help overseas manufacturers to source original components such as GLC, sensor on the injection machine, infusion set machine, urine bags machine, syringes machines.



01 PLASTIC RAW MATERIALS-PVC/ABS/PP/PE

01-08

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## PVC-001 PVC GRANULES FOR INFUSION AND TRANSFUSION SERIES PRODUCT DESCRIPTION

### APPLICATION

The series is widely used in the manufacturing of various types of Infusion set tube, blood transfusion (fluid) tube, elastic grade blood transfusion (liquid) tube, drip chamber, for "disposable liquid (liquid) equipment or precision transfusion (liquid) appliances."

### APPLICATION

Model	LC-MT75A	LC-MD85A
Appearance	Transparent	Transparent
Hardness(ShoreA/D)	70±5A	85±5A
Tensile strength(Mpa)	≥15	≥18
Elongation, %	≥420	≥320
180°C Heat Stability (Min)	≥60	≥60
Reductive Material	≤0.3	≤0.3
PH	≤1.0	≤1.0

### PROPERTY

Non-phthalates type can be customized  
High transparency and excellent processing performance  
Good resilience  
Adapt to EO sterilization and Gamma Ray sterilization



## PVC-003 PVC GRANULES FOR ANESTHESIA AND RESPIRATORY CIRCUIT SERIES

### APPLICATION

The series is widely used in the manufacturing of the breathing support oxygen mask, anesthesia mask, matching catheter etc.

### APPLICATION

Model	LC-MT70A	LC-MD75A
Appearance	Transparent	Transparent
Hardness(ShoreA/D)	65±5A	75±5A
Tensile strength(Mpa)	≥15	≥15
Elongation, %	≥420	≥300
180°C Heat Stability(Min)	≥60	≥60
Reductive Material	≤0.3	≤0.3
PH	≤1.0	≤1.0

### PROPERTY

Non-phthalates type can be customized  
Transparent, odorless granules  
No migration or precipitation  
Food contact level compounds for oxygen mask and cannula  
White, light green and accustomed color are available



## PVC-002 PVC GRANULES FOR HEMODIALYSIS

### APPLICATION

The series is widely used in the manufacturing of the main tube, pump tube, air pot and other components in the blood line for hemodialysis.

### APPLICATION

Model	LC-MT58A	LC-MD68A	LC-MD80A
Appearance	Transparent	Transparent	Transparent
Hardness(ShoreA/D)	65±5A	70±5A	80±5A
Tensile strength(Mpa)	≥16	≥16	≥18
Elongation, %	≥400	≥400	≥320
180°C Heat Stability (Min)	≥60	≥60	≥60
Reductive Material	≤0.3	≤0.3	≤0.3
PH	≤1.0	≤1.0	≤1.0

### PROPERTY

Non-phthalates type can be customized  
High molecular polymerization, high resilience  
Excellent tubing flow retention  
Excellent processability and thermal stability  
Adapt to EO sterilization and Gamma Ray sterilization



## PVC-004 PVC GRANULES FOR ENDOTRACHEAL TUBE

### APPLICATION

Endotracheal Tube

### APPLICATION

Model	LC-MT86-03
Appearance	Transparent
Hardness(邵氏A/D/1)	90±2A
Tensile strength(Mpa)	≥18
Elongation, %	≥200
180°C Heat Stability (Min)	≥40
Reductive Material	≤0.3
PH	≤1.0

### PROPERTY

DEHP-FREE AVAILABLE  
Low immigration of plasticizer, high chemical erosion resistance  
Chemical inertness, odorless, stable quality  
Non-leakage of gas, good abrasion resistance



## PVC-005 PVC GRANULES FOR CONNECTION TUBE AND SUCTION TUBE

### APPLICATION

The series is widely used in the suction or connection tube.

### PROPERTY

Non-phthalates type can be customized  
Clear and soft  
Anti-kinking tube to avoid block under high pressure



### APPLICATION

Model	LC-MT75A	LC-MD85A
Appearance	Transparent	Transparent
Hardness(ShoreA/D)	70±5A	85±5A
Tensile strength(Mpa)	≥15	≥18
Elongation, %	≥420	≥320
180°C Heat Stability (Min)	≥60	≥60
Reductive Material	≤0.3	≤0.3
PH	≤1.0	≤1.0

## PVC-006 PVC GRANULES FOR INFUSION BAGS

### APPLICATION

The series is widely used in the manufacturing of all kinds of infusion bags, nutrition bags, drainage bags, blood bags etc.

### PROPERTY

Non-phthalates type can be customized  
Customised compounds for different size bag  
Transparent and natural color  
Quickly restored after steam sterilization  
Good opening performance  
EO Sterile, No Toxic and Pyrogen Free



### APPLICATION

Model	LC-MT70A
Appearance	Transparent
Hardness(ShoreA/D)	75±5A
Tensile strength(Mpa)	≥16
Elongation, %	≥420
180°C Heat Stability (Min)	≥60
Reductive Material	≤0.3
PH	≤1.0

## PVC-007 RIGID PVC GRANULES

### APPLICATION

Best alternative of transparent ABS or PE.

### PROPERTY

Non-phthalates type can be customized  
Without changing the mold a lower injection temperature, with less shrinkage.  
More advantage of the price



### APPLICATION

Model	LC-MT50S
Appearance	Transparent
Hardness(ShoreA/D)	50-80D
Tensile strength(Mpa)	/
Elongation, %	/
180°C Heat Stability (Min)	≥60
Reductive Material	≤0.3
PH	≤1.0

## PVC-008 PVC GRANULES FOR LIGHT-RESISTANT PRODUCTS

### APPLICATION

The series is widely used in the manufacturing of tube and drip chamber, for "disposable lucifugal (light-proof) transfusion appliances."

### PROPERTY

Non-phthalates type can be customized  
Process: co-extrusion  
Outer layer: PVC (light proof)  
Inner layer: TPE or TPU  
Excellent light protection and transparency



### APPLICATION

Model	LC-MT68A	LC-MD88A
Appearance	Transparent	Transparent
Hardness(ShoreA/D)	68±5A	85±5A
Tensile strength(Mpa)	≥16	≥18
Elongation, %	≥440	≥430
180°C Heat Stability (Min)	≥60	≥60
Reductive Material	≤0.3	≤0.3
PH	≤1.0	≤1.0

## PP-009 EXPANDABLE ANESTHESIA CIRCUITS

### APPLICATION

Expandable Anesthesia Circuits, widely used on breathing machine and anesthesia machine

### PROPERTY

PVC-Free  
Medical Grade PP  
Tube body can be arbitrary extension and adjust the length, which make it convenient to operation.  
Low immigration of plasticizer, high chemical erosion resistance.



### APPLICATION

Model	LC-PPA7701
Appearance	Transparent
Hardness(ShoreA/D)	95±5A
Tensile strength(Mpa)	≥13
Elongation, %	≥400
PH	≤1.0

## PP-010 PP GRANULES FOR CORRUGATE ANESTHESIA CIRCUITS

### APPLICATION

Corrugate Anesthesia Circuits

### PROPERTY

PVC-Free  
Medical Grade PP  
Excellent bend capability. Transparent, soft, and spiral hooping structure makes it not easy to kink.  
Low immigration of plasticizer, high chemical erosion resistance.  
Chemical inertness, odorless, stable quality  
non-leakage of gas, good abrasion resistance



### APPLICATION

Model	LC-PPA7702
Appearance	Transparent
Hardness(ShoreA/D)	85±5A
Tensile strength(Mpa)	≥13
Elongation, %	≥400
PH	≤1.0

## PP-011 PP GRANULES FOR INFUSION BOTTLE CAP

### APPLICATION

The series is widely used in the manufacturing of IV caps (both inner caps and outer caps).

### PROPERTY

PVC-free  
Excellent processability and thermal stability  
Excellent biosecurity



## PP-012 PP GRANULES FOR SYRINGES

### APPLICATION

The series is widely used in the manufacturing of syringes.

### PROPERTY

PVC-free  
Excellent processability and thermal stability  
Excellent biosecurity



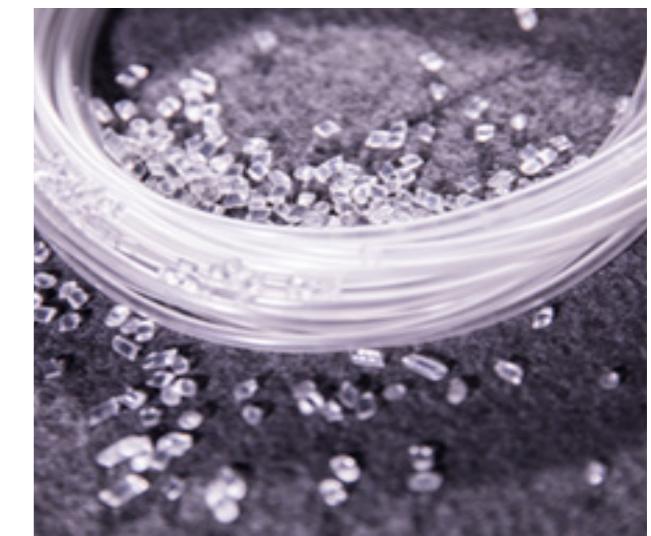
## TPE-013 TPE GRANULES

### APPLICATION

The series is widely used in the manufacturing of tube and drip chamber for "disposable precision transfusion appliances."

### PROPERTY

PVC-free  
Plasticizer-free  
Better tensile strength and elongation at break  
Passed by ISO10993-based biological compatibility testing, and containing the genetic adiyaman, including toxicity and toxicological tests



## PVC-014 BLACK PVC GRANULES FOR GASKET ON SYRINGES

### APPLICATION

Black PVC granules for gasket

### PROPERTY

Uniform particle  
 - No particles, extraneous matter, blooming, Floss  
 crumbs , or impurity shall appear on surface  
 - The number of particles of pollution ( $\geq 2\text{mm}$ ) not  
 more than 5 pcs/ KG



### APPLICATION

Model	LC-MT65B
Appearance	black
Hardness(ShoreA/D)	$65\pm 2$
Tensile strength(Mpa)	$\geq 18$
Elongation, %	$\geq 200$
180°C Heat Stability (Min)	$\geq 40$
Reductive Material	$\leq 0.3$
PH	$\leq 1.0$

## ABS-015 MEDICAL OR NON-MEDICAL GRADE ABS GRANULES

### APPLICATION

For some rigid connectors injections

### PROPERTY

Without changing the mold a lower injection temperature,with less shrinkage.



## PVC-016 MEDICAL OR NON-MEDICAL GRADE PVC FILM

### APPLICATION

For urine bags, feeding bags, Dialysis wasting bags, blood bags, infusion bags.

### PROPERTY

We can provide different thickness of PVC film.  
 different colors or clear PVC  
 0.04mm-3.0mm clear PVC or colored PVC



## SPARE PARTS AND COMPONENTS

LC-001



Steel Cannula

LC-002



Bulk Needles

LC-003



drip chamber

LC-004



latex bulb

LC-005

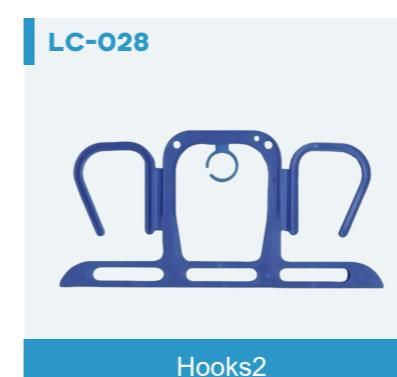


gasket for syringes

LC-006



burette set drip chamber





**LC-031 INFUSION SET**

Spike Air-Vented with protective cap  
48 Chamber 20 drops with filter  
roller clamp  
Latex flash bulb  
White luer lock with needle 21G and  
protective cap  
Tube:150cm  
The size of drip chamber, roller clamp, tube  
length can be customized.



**LC-032 AUTO DRIP INFUSION SET**

Our latest innovative feature adds extra  
safety and eliminates the risk of air embolism in patients receiving infusions by pre-  
venting air from passing through the  
AUTOSTOP filter.  
Specially engineered AUTOSTOP filter (15  
micron) prevents the entry of air in the line  
when the IV bottle is empty. AUTOSTOP filter  
maintains a constant fluid level. No air can  
get through to the patient, thus eliminating  
the risk of air embolism.



**LC-035 100ML BURETTE INFUSION SET**

sharp piercing device with protective cap  
integrated bacteria-proof air vent with air  
vent cap  
integrated injection port on top of the  
cylinder  
transparent cylinder with graduated scale  
and floater  
drip chamber and micro drop former with 60  
drops equivalent to 1 ml  $\pm$  0.1 ml aqua dest.  
15  $\mu$ m bottom fluid filter  
with or without needle  
semi-transparent tubing, total length 150  
cm with green lancet clamp  
Burette SET:  
precision flow regulator  
latex-free injection site, Y-site, thumb  
control  
regular luer lock connector with protective  
cap



**LC-036 150ML BURETTE INFUSION SET**

Burette Chamber 150ml without valve and  
UP-cap with  
Y needles Free connector  
50 roller clamp  
Spike with air-vented cap and protective cap  
60 drops chamber  
62 roller clamp  
Y needles free connector  
Tube: 25+150+30cm



**LC-033 BLOOD TRANSFUSION SET**

Spike Air-Vented with protective cap  
48 Chamber 20 drops with filter  
roller clamp  
Latex flash bulb  
White luer lock with needle 21G and  
protective cap  
Tube:150cm  
The size of drip chamber, roller clamp, tube  
length can be customized.



**LC-034 LIGHT-RESISTANT INFUSION SET**

spike air-vented with protective cap  
54 chamber 20 drops with filter  
(Light-sensitive)  
62 roller clamp  
Latex free Y connector (Light-sensitive)  
Luer lock with needle 21G  
Light-sensitive raw material  
Tube: 150cm (Light-sensitive)



**LC-037 EXTENSION LINE**

Female Luer lock with cap  
Tube(3.0\*4.1mm) 10CM-50CM  
Latex free Y connector  
IV Regulator  
Male luer lock with cap



	2 PARTS SYRINGE	3 PARTS SYRINGE
SIZE	2ML ,3ML ,5ML,10ML ,20ML	1ML,2ML,3ML,5ML,10ML ,20ML ,30ML ,50ML,60ML
TYPE	LUER SLIP	LUER SLIP/LUER LOCK
NEEDLE	WITH/WITHOUT NEEDLE	WITH/WITHOUT NEEDLE
STERILE	EO GAS	EO GAS
PACKAGE	PE/BLISTER	PE/BLISTER

GAUGE	16G	18G	19G	20G	21G	22G	23G
COLOR	WHITE	PINK	CREAM	YELLOW	GREEN	BLACK	BLUE
GAUGE	24G	25G	26G	27G	28G	29G	30G
COLOR	PURPLE	ORANGE	BROWN	GREY	BLUE-GREEN	RED	LIGHT YELLOW



TYPE	INSULIN SYRINGE WITH MOUNTED NEEDLE
SIZE	0.3ML ,0.5ML,1ML
NEEDLE	27G-31G
STERILE	EO GAS
PACKAGE	PE/BLISTER



## SCALP VEIN SET(LUER LOCK OR LUER SLIP)

Sharp needle tip, High quality needles cannula  
Luer lock or Luer slip  
Single wing or Double wing  
18G-30G  
E.O. GAS Sterilization  
Polybags packing or blister packing



LC-043



HEMODIALYSIS BLOOD LINE

Model	Pump Segment (IDxODxLength)mm	Chamber OD mm	Descriptions
LC-L01	6.4x9.75x420	22	B.Braun(HD-SECURA)
LC-L02	7.9x12.1x420	22	Gambro(except AK95), Fresenius(Venous Chamber 22mm). Nikkiso, Baxter, Nipro, Toray, JMS, B.Braun, Belco.
LC-L03	7.9x12.1x420	30	Fresenius(Venous Chamber 22mm)
LC-L04	7.9x12.1x420	20	Gambro AK95, Baxter, Nikkiso, Nipro, Toray, JMS, B.Braun, Belco.

LC-044



BLOOD BAGS

TRO-DONEX sterile and non-pyrogenic blood bags are made of a special PVC material and are available as single, double, triple or quadruple type. They consist respectively of the closed system of collection bag, containing an anticoagulant solution, and the integrated 16 G needle, connected by the flexible donor tubing. The excellent sharpness of the thin-wall needle enables painless puncture and high flow rates. According to the type, one, two or three transfer bags are connected with the blood bag by transfer tubing.

INDICATION

For collection, preservation and transport of whole human blood and blood components.

STERILISATION

Autoclave

PACKAGING

Individually and sterile sealed in a transparent foil. 3, 4, 6 or 10 pieces in an airtight sealed aluminium foil bag.

MATERIAL

Polyvinylchloride (PVC)

SHELF LIFE

3 years

SIZES

COLLECTION BAG:

450 ml (also available with 250 ml - 500 ml)

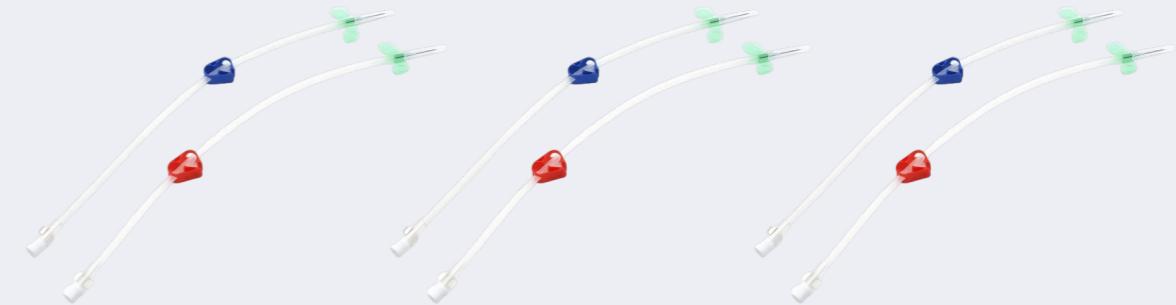
TRANSFER BAG:

150 ml - 450 ml

ANTICOAGULANT:

CPDA-1, CPD or CPD+SAGM Solution, other types are available

LC-045

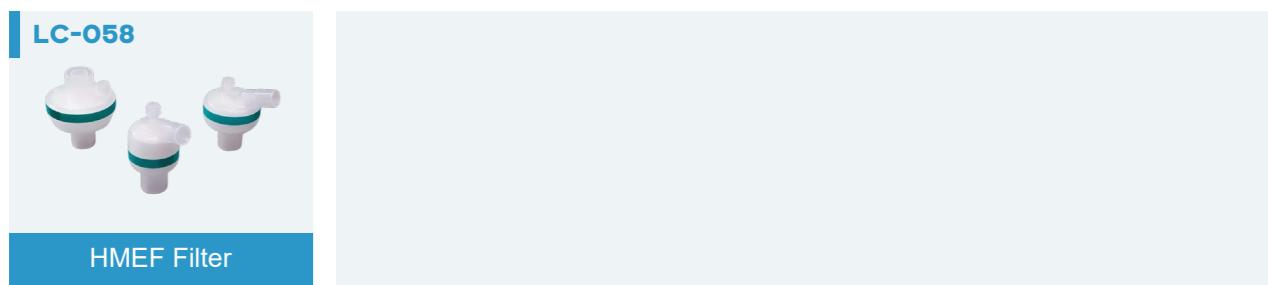


DISPOSABLE A.V FISTULA NEEDLE

OD	Navy-blue	Color code	General Specifications
1.8	15G	Navy-blue	1.8×25mm
1.6	16G	Dark green	1.8×25mm
1.2	17G	Red	1.8×25mm

# RESPIRATORY ANESTHESIA AND EMERGENCY CARE

CE MDR ISO  
ISO13485



## DISPOSABLE CATHETER



## UROLOGY AND DRAINGE SERIES



## IVD LAB COMSUMABLE



## MACHINE-01 FULLY AUTOMATIC ASSEMBLY SYRINGES MACHINE

### EQUIPMENT PARAMETERS

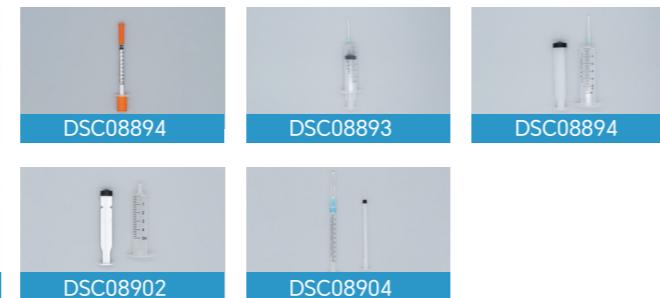
Production capacity: 1-5ml 300-330/min  
10-20ml 22-260/min 50ml 140-160/min  
Equipment power: 3KW  
Rated pressure: 0.4-0.6MPa  
Equipment size: About 1.5tons  
Equipment weight: 4.6-4.9m\*3m



Fully Automatic Assembly syringes machine

### EQUIPMENT

This machine can assemble all the parts of the syringe (Barrel, plunger, gasket and needle), including the luer slip type, luer lock type and eccentric tip type etc. The equipment can also assemble various types of self-destruct syringes and safety syringes. New development technology applied to the machine allows Extremely Accurate, High-Speed Operation and High Assembly Quality. PLC control, equipped with safety protective cover, open cover door emergency stop, repair and maintenance equipment is safer.



DSC08894

DSC08893

DSC08894

DSC08902

DSC08904

## MACHINE-03 FULLY AUTOMATIC ASSEMBLY MACHINE FOR INFUSION SET

### EQUIPMENT PARAMETERS

Production capacity: 5000-6000pcs per hour  
Equipment power: 12KW  
Rated pressure: 0.5-0.8MPa  
Equipment size: About 6.5tons  
Equipment weight: 14\*7.5m



Fully Automatic Assembly syringes machine

### EQUIPMENT

Adopting Japanese Mitsubishi programmable controller and Japanese SMC (original and genuine) Pneumatic components, smooth assembly process



DSC08862

DSC08863

DSC08913

DSC08914

infusion set 1

infusion set 2

## MACHINE-02 FULLY AUTOMATIC ASSEMBLY MACHINE FOR HYPODERMIC NEEDLE

### EQUIPMENT PARAMETERS

Equipment parameters  
Production capacity: 6000pcs per hour  
Equipment power: 18KW  
Rated pressure: >0.6MPa  
Equipment size: About 7tons  
Equipment weight: 11\*3.5m



Fully automatic assembly machine for hypodermic needle

### EQUIPMENT

The device adopts the Keyence programming control system, and the panel is easy to operate with the touch screen. The servo motor coating mechanism is smooth and uniform.

The detection system adopts the Keyence CCD image from Japan, and the pneumatic configuration adopts the imported components.



DSC08904

## MACHINE-04 FULLY AUTO-PACKING MACHINE FOR INFUSION SET

### EQUIPMENT PARAMETERS

Production capacity: 2500-3000pcs per hour  
Equipment power: 12KW  
Rated pressure: 0.5-0.7MPa  
Equipment size: About 3tons  
Equipment weight: 5\*3.4\*2.6m

### EQUIPMENT

Implemented automated packaging, sealing, and coding; The equipment occupies a small area and has low investment costs, which solves the problem of automated packaging with multiple specifications. Effectively solving the problems of high pollution risk and low yield in traditional manual packaging processes. Greatly improving production efficiency, saving customers' manpower, material resources, and time. Effectively reducing production costs.



Auto-Packing Machine for Infusion Set



## MACHINE-05 FULLY AUTOMATIC ASSEMBLY MACHINE FOR SCALP VEIN SET

### EQUIPMENT PARAMETERS

Production capacity: 6000pcs per hour  
Equipment power:3-5KW  
Rated pressure:0.5-0.7MPa  
Equipment size: About 2tons  
Equipment weight:5\*3m



### EQUIPMENT

The assembly process is stable with Mitsubishi programmable controller and SMC pneumatic components

Fully automatic assembly and packing machine for scalp vein set



DSC08810

DSC08816

DSC08817

## MACHINE-07 BURETTE SET ASSEMBLY LINE

### EQUIPMENT PARAMETERS

Production capacity: 2000pcs per hour  
Equipment power:4KW  
Rated pressure:5-8MPa  
Equipment size: About 5tons  
Equipment weight:6\*4\*1.6m



burette set down cap



burette set down cap



DSC08799



DSC08803



burette set down cap



burette set down cap



DSC08808



DSC08870

## MACHINE-06 FULLY AUTOMATIC ASSEMBLY MACHINE FOR BLOOD COLLECTION NEEDLES

### EQUIPMENT PARAMETERS

Production capacity: 8000pcs per hour  
Equipment power:15KW  
Rated pressure:>0.5MPa  
Equipment size: About 6.6tons  
Equipment weight:12\*5m

### EQUIPMENT

The device adopts the Keyence programming control system, and the panel is easy to operate with the touch screen. The servo motor coating mechanism is smooth and uniform.  
The detection system adopts the Keyence CCD image from Japan, and the pneumatic configuration adopts the imported components.



Fully automatic assembly and packing machine for blood collection needles



blood collection



DSC08819



DSC08842

## MACHINE-08 TUBE EXTRUSION AND CUTTING MACHINE

This machine is applicable to the production of high precisely medical oxygen tube, shield tube, latex tube and PVC short tube of disposable infusion apparatus and other conduits.



tube extrusion and cutting machine



Tube Extrusion machine



tube extrusion machine1

## MACHINE-09 FULLY AUTOMATIC ASSEMBLY MACHINE FOR URINE BAGS

### EQUIPMENT PARAMETERS

Total power of the equipment:23kw  
Working voltage:380V;three-phasefive wire  
Working air pressure:0.5-0.7MPa  
Capacity:700-900pcs/hours  
Size:6.8m\*2.75m\*1.8m  
Weight:3500kg



### EQUIPMENT

The welding seal is firm and beautiful, the machine structure is reasonable, and it is highly practical. Introducing advanced European technology, with stable and reliable performance, high degree of automation, labor-saving and high production efficiency. The mechanical design has fully automatic conduit transfer welding technology. Equipped with high stability PLC program, servo motor feeding, Photo electric eye tracker, and automatic material shutdown function to ensure product quality. Equipped with a highly sensitive spark protection device to effectively and safely protect molds and products.



## MACHINE-11 11. FULLY AUTOMATIC BLISTER PACKING MACHINE

### EQUIPMENT PARAMETERS

Production capacity: 8000pcs per hour  
Equipment power:15KW  
Rated pressure:>0.5MPa  
Equipment size: About 6.6tons  
Equipment weight:12\*5m



Blister packing machine

### EQUIPMENT

Fully Automatic Blister Packing Machine is a highly economical solution that guarantees high production efficiency with the least amount of product and material waste. It is designed for the quickest changeover, the highest efficiency with all kinds of packaging materials. With its attractive running speed and very quick size change over, it is the ideal tray-forming solution for small/medium batches or when many batch changes or size changes are required. Machines are built with a higher level of GMP norms.



## MOLD



## MACHINE-10 SINGLE HEAD WELDED HIGH FREQUENCY MACHINE

Mainly applicable to:PVC plastic packaging bags, PVC soft bags, TPU transparent bags, and any other PVC or PVC content of more than 30% of the plastic welding.

using the principle of high frequency heat sealing, the workpiece is heated through a high frequency mold to achieve the fusion of plastic and plastic, allowing the intermediate pipe to be welded 360° in all directions at the same time, until the product is welded without air or liquid leakage, and is fused into one body under the action of high frequency waves.  
1.35m\*0.8m\*1.5m 300kg

