

304K Peristaltic Pump

Flow Rate: $\leq 1480\text{ml/min}$



The product requires users to connect power supply, wiring and installation, which is suitable for equipment manufacturers.

End users are advised to choose plug and play **complete pump system** series

Superior

Viscous liquid delivery

Stronger suction

Accurate delivery measurement

Mature, stable and reliable

3 types of motors are available

2 hose diameters

Tool free tube replacement

Wide application industry

COMMON APPLICATIONS



Jihpump has sold more than 1 million peristaltic pumps and has always provided users with products of high quality, high precision and high reliability, Meet the metering, transportation and sub packaging distribution needs of various industry applications.



Kitchen automatic soup seasoning dispenser



Automatic addition of electroplating solution



Catering automatic beverage machine



Environmental protection automatic sampler



Automatic dosing machine



Ready mixed beverage machine



Automatic detergent distributor



Medical Diagnosis



Environmental Protection Instrument



Analysis Instrument



Inkjet Ink



Washing and Cleaning



Food and Beverage



Experimental Research



Pharmaceutical Machinery






Smart Appliances



Industrial Machinery

Recommended Configuration

NO.	Product Number	Pipe (mm) Inner diameter*outer diameter*wall thickness	Flow rate	Motor Type	Image
1	304K/ZL- 24V135rpm	24#- 6.4*11.2*2.4	450ml/min	DC motor	
2		35#- 7.9*12.7*2.4	640ml/min		
3	304K/ZL- 24V166rpm	24#- 6.4*11.2*2.4	505ml/min		
4		35#- 7.9*12.7*2.4	750ml/min		
5	304K/ZLX- 24V150rpm	24#- 6.4*11.2*2.4	430ml/min	DC planetary motor	
6		35#- 7.9*12.7*2.4	605ml/min		
7	304K/ZLX- 24V300rpm	24#- 6.4*11.2*2.4	975ml/min		
8		35#- 7.9*12.7*2.4	1405ml/min		
9	304K/BT- 24V300rpm	24#- 6.4*11.2*2.4	0~1000ml/ min	Stepper motor	
10		35#- 7.9*12.7*2.4	0~1480ml/ min		
Flow rate Description	It is measured when clean water is delivered at the room temperature of 23°C and no pressure at the inlet and outlet.				

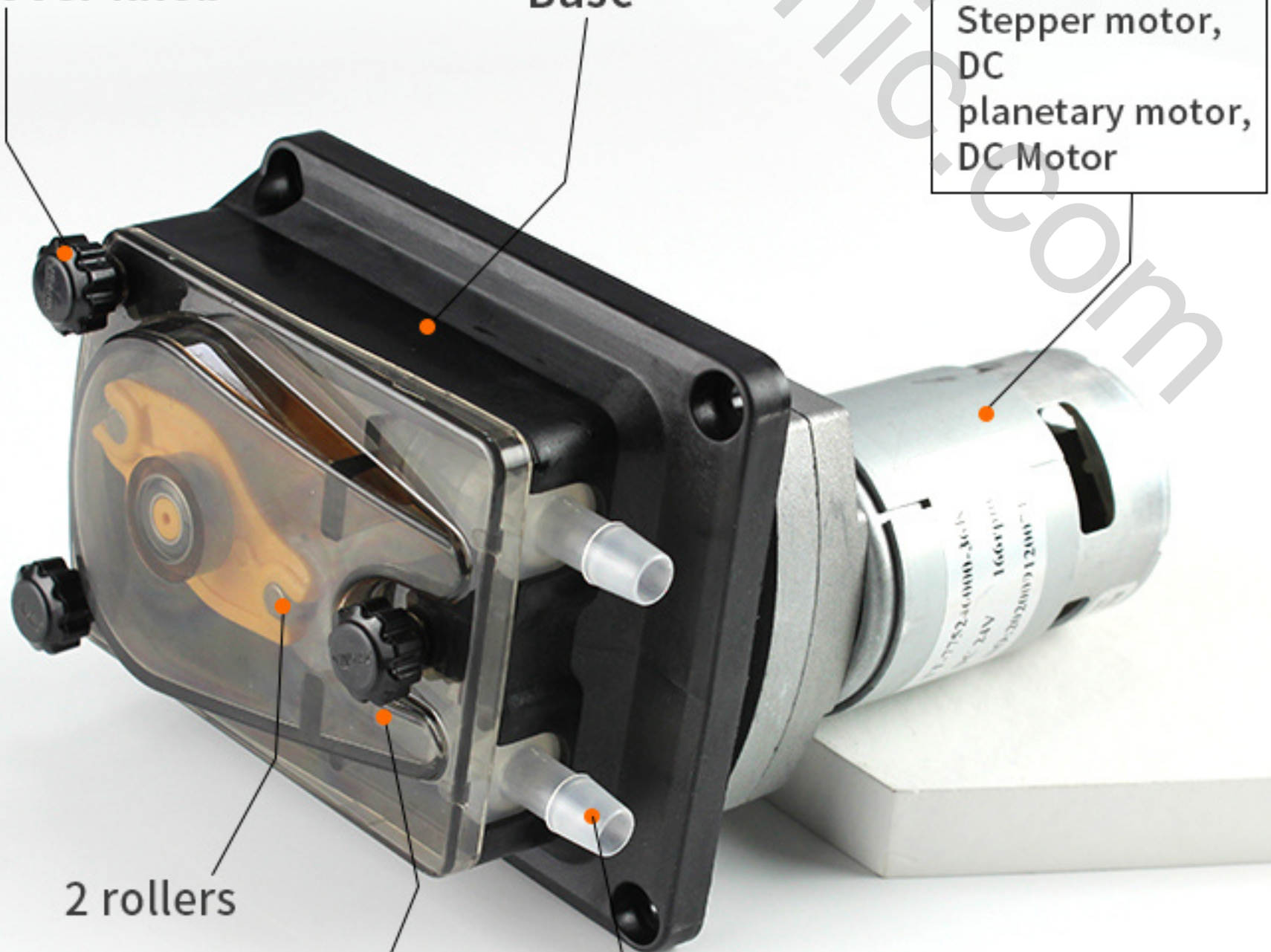
Product Configuration

PRODUCT CONFIGURATION

Pump cover knob

Base

Motor:
Stepper motor,
DC
planetary motor,
DC Motor



2 rollers

Tube

Tube Joint

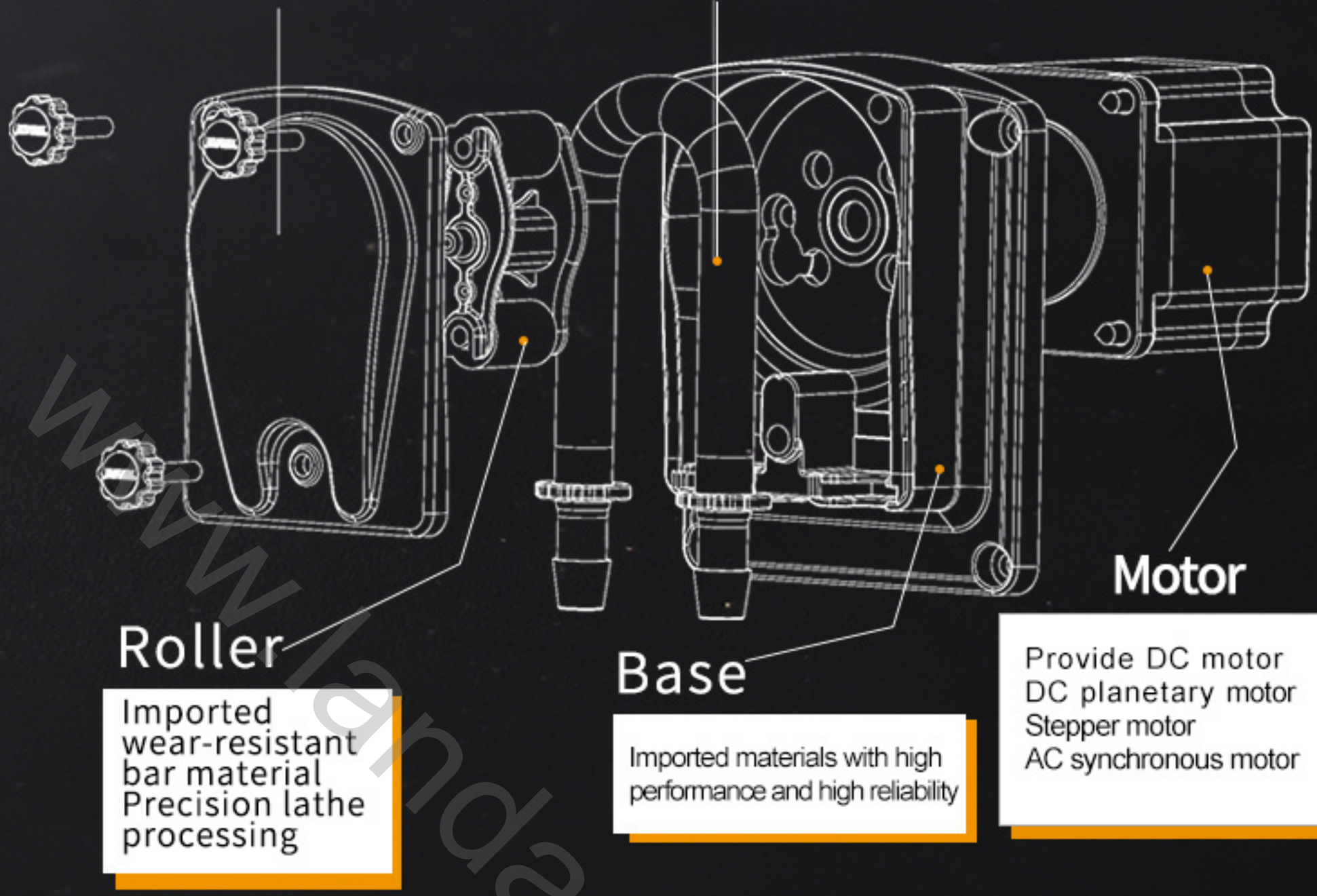
Direct joint,
Hard tube fittings
Threaded fittings

Cover

Translucent pump cover
Convenient for visual management

Tube

Two kinds
Optional diameter hose



Roller

Imported wear-resistant bar material
Precision lathe processing

Base

Imported materials with high performance and high reliability

Motor

Provide DC motor
DC planetary motor
Stepper motor
AC synchronous motor

1 Motor selection

Determine the type of motor according to the accuracy and service life required by the application.

Product Model	304K/ZL	304K/ZLX	304K/BT
Motor Type	DC reduction motor	DC planetary reduction motor	DC stepping motor
Image			
Selection suggestions	1. The accuracy requirement is not high 2. Short interval operation	1. The accuracy requirement is not high 2. Short interval operation	1. Meet high precision requirements 2. Long time continuous operation
Optional Rotating speed	24V:135rpm,166rpm	24V:150rpm,300rpm	24V:0~300rpm
Control Method	Constant speed running, forward or reverse Optional JZL-B speed control board to realize speed control		Speed regulation, forward or reverse Requires optional drive controller
Power recommendations	DC24V2A , 24W	DC24V2A , 36W DC 12V4A , 2A	DC24V4A , 48W
Motor life	800~1500hours	≥2000hours	5000~20000hours
Product model	304K/ZL	304K/ZLX	304K/BT
Product Model	DC geared motor	DC planetary gear motor	DC stepper motor

Image			
Wheel set	2 rollers		
Use power	DC24V2A , 24W	DC24V2A , 36W	DC24V4A , 48W
Weight	850g	615g	879g
Working Environment	Temperature 0 ~ 60°C, relative humidity < 85%RH		
Outlet Pressure	≤0.17MPa		
Function	Start and stop, forward and reverse (change the wiring sequence), speed up and down (with speed control board)		

② The pump of rollers

The roller processed by imported wear-resistant self-lubricating bar and high-precision CNC lathe is more accurate and wear-resistant.



③ Model and material of pump tube





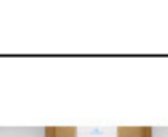

1. Select the tube model according to the required diameter and flow.
2. Different hose materials shall be selected according to the delivered liquid and the required service life.

304K-Reference flow rate range(ml/min)

Optional Hose	24# Inner diameter 6.4* outer diameter 11.2* wall thickness 2.4 (mm)	35# Inner diameter 7.9* outer diameter 12.7* wall thickness 2.4 (mm)
135rpm	450	640
166rpm	505	750
150rpm	430	605
300rpm	1000	1480
		605

Flow description It is measured by using a 2-wheel pump to deliver clean water under the condition of room temperature 23°C and no pressure at the inlet and outlet.




Common Peristaltic Pump Tube

Tube Material	Brand	Picture	Brief Introduction	Delivery time
Silicon Tube	JHPUMP		Life : ≥ 200 h Temperature resistance: - 50 ° C - 250 ° C Imported raw materials, food grade, FDA certified	Doods in stock
TYGON A-60-G	TYGON/SAINT-GOBAIN		Life : 1000 h Temperature resistance: - 60 ° C - 135 ° C Industrial grade sanitizers and cleaning agents	Partial spot
TYGON A-60-F	TYGON/SAINT-GOBAIN		Life : 1000 h Temperature resistance: - 60 ° C - 135 ° C Food grade hose	Partial spot
PharMed BPT	TYGON/SAINT-GOBAIN		Life : 1000 h Temperature resistance: - 51 ° C - 135 ° C High gas tightness	Partial spot
TYGON-Chemical	TYGON/SAINT-GOBAIN		Life : 1000 h Bilayer composite tube without plasticizer inner layer Corrosion resistant chemicals are excellent	Partial spot
Master Flex Chem-Durance	Master Flex		Service life: 1000 hours Double layer composite pipe without plasticizer inner layer Excellent resistance to corrosive chemicals	Partial spot
Life expectancy description	Tube life was measured at room temperature 23 ° C using a 3 roller peristaltic pump, at 600 rpm, with no pressure at the hose inlet and outlet, by delivering clean water, and the actual data were dependent on the operating conditions.			
Brand Description	<p>Tygon: A brand name produced under the group Saint Gobain Saint Goban, headquartered in France, is one of the world industrial group's hundred strengths.</p> <p>Master flex: An internationally known professional brand for peristaltic pumps, the peristaltic pump hose for master flex is custom produced by hose manufacturers such as Saint Goban based on their requirements, therefore the price of the master flex hose is higher than Tygon hose</p>			

④ Connect Tube Mode

One pagoda type connector is standard, and more connection modes can be selected.

Connect Tube Mode

Joint name	Equal diameter direct joint	Different diameter tube joint	Right angle joint
Image			
Inner tube size	Inner diameter 6.4mm、 7.9mm	Inner diameter 6.4mm、 7.9mm	Inner diameter 6.4mm、 7.9mm
connect Tube size	Inner diameter 6.4mm、 7.9mm	Inner diameter 7.9mm、 6.4mm	Inner diameter 6.4mm、 7.9mm

5 Installation mode



The base comes with mounting holes



6 Motor Control Mode

Motor control mode





01-DC motor control mode

Control mode	Constant speed operation	Optional JZL-B Circuit board
Product Function	Control the start and stop of the pump through the power on and off	Product functions: start and stop, forward and reverse rotation, speed regulation Power supply power: DC 12 ~ 24V, 2A Speed regulation mode 1: built in potentiometer speed regulation Speed regulation mode 2: external potentiometer speed regulation (optional) Suitable motors: 28, 32, 36, 37, tt-555, rg50
Product Picture		

02-stepper motor control mode

(the stepper motor cannot be powered on directly and needs to be equipped with drive control)

Control mode	Optional JBT-AM	Optional QBT-M2
Product Function	Start stop, forward and reverse rotation, speed regulation Speed regulation mode 1: built in potentiometer speed regulation Speed regulation mode 2: external potentiometer speed regulation (optional) Speed regulation mode 3: analog signal (preset 4-20mA, optional: 0-5V / 0-10V)	Product functions: start and stop, forward and reverse rotation, speed regulation Speed regulation mode: pulse frequency regulating speed

Product Picture		
Control mode	Optional JBT-AT	Optional JBT-AP
Product Function	Product functions: start and stop, forward and reverse rotation, speed regulation Speed regulation mode: modbus-rs485 digital communication control	Product functions: start and stop, forward and reverse rotation, speed regulation Speed regulation mode 1: PWM pulse speed regulation Speed regulation mode 2: the speed is regulated by an external potentiometer
Product Picture		

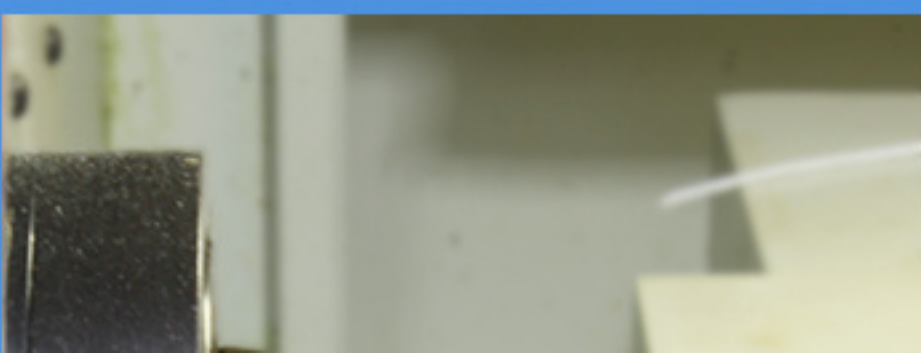
Product Features

PRODUCT FEATURES

- 1 Strict selection of international famous materials and precision injection molding process ensure that the pump body meets the requirements High precision and beautiful appearance.



- 2 The roller is made of imported wear-resistant self-lubricating bar material and processed by high-precision CNC lathe. The cost, dimensional accuracy and wear resistance are much higher than those of injection molding rollers of general





3

Decades of focus on peristaltic pump, rich application and development experience, master the core technology of peristaltic pump, and the products are more mature.



Tool-free disassembly and assembly, hand-twisted screw lock, stable and reliable

4

The base comes with mounting holes, compact structure, low speed, large flow, large suction and long life.

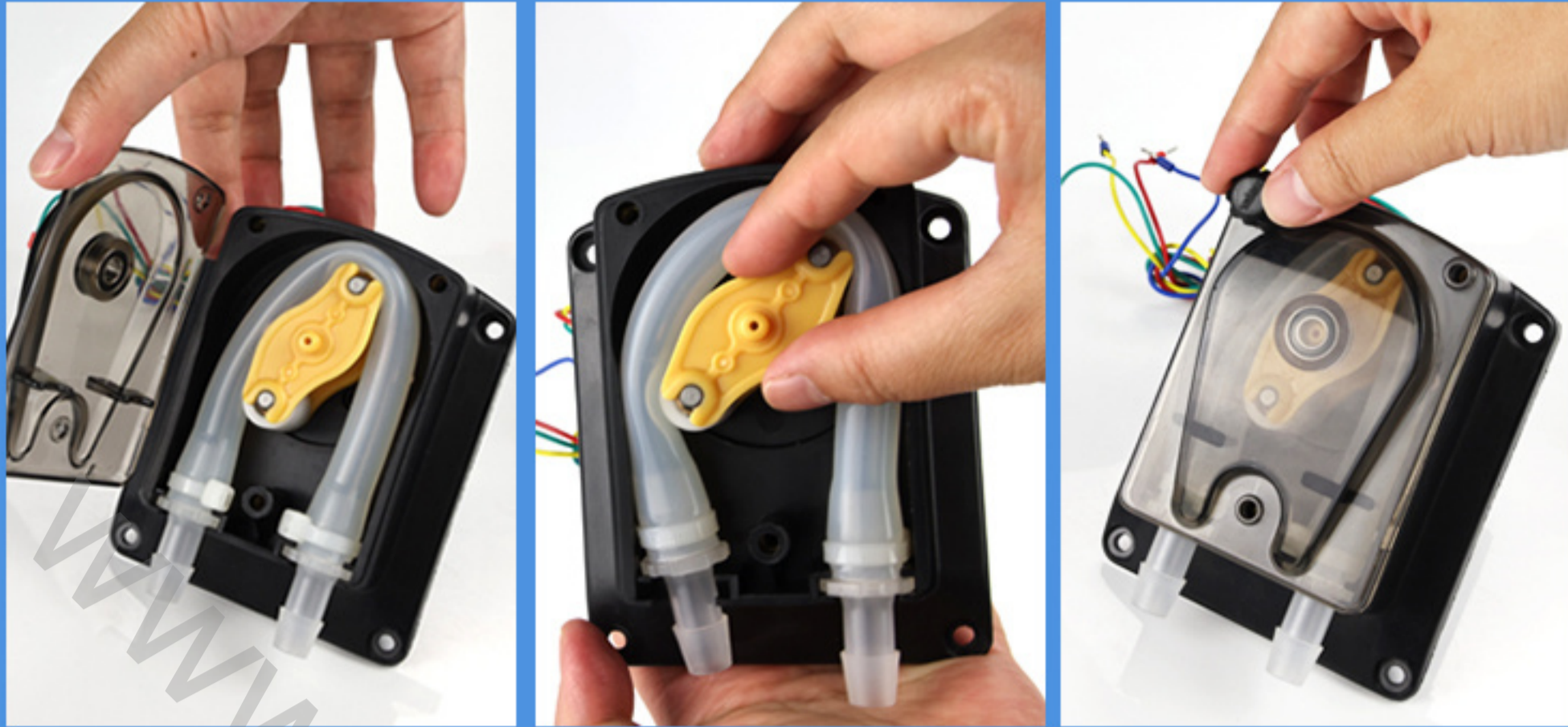


5

Hand-twist screw lock, tool-free disassembly and replacement of tubes, hoses and maintenance are more convenient

more convenient.

Three step diagram of pump casing disassembly



6 Strict selection of high-quality motor, strong power.

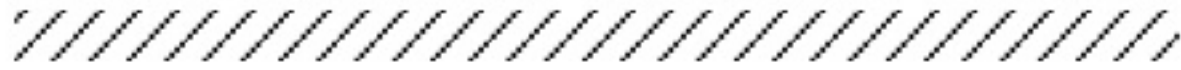
Brand DC motor has more reliable performance

Precision tooth
Wheel deceleration

powerful
power

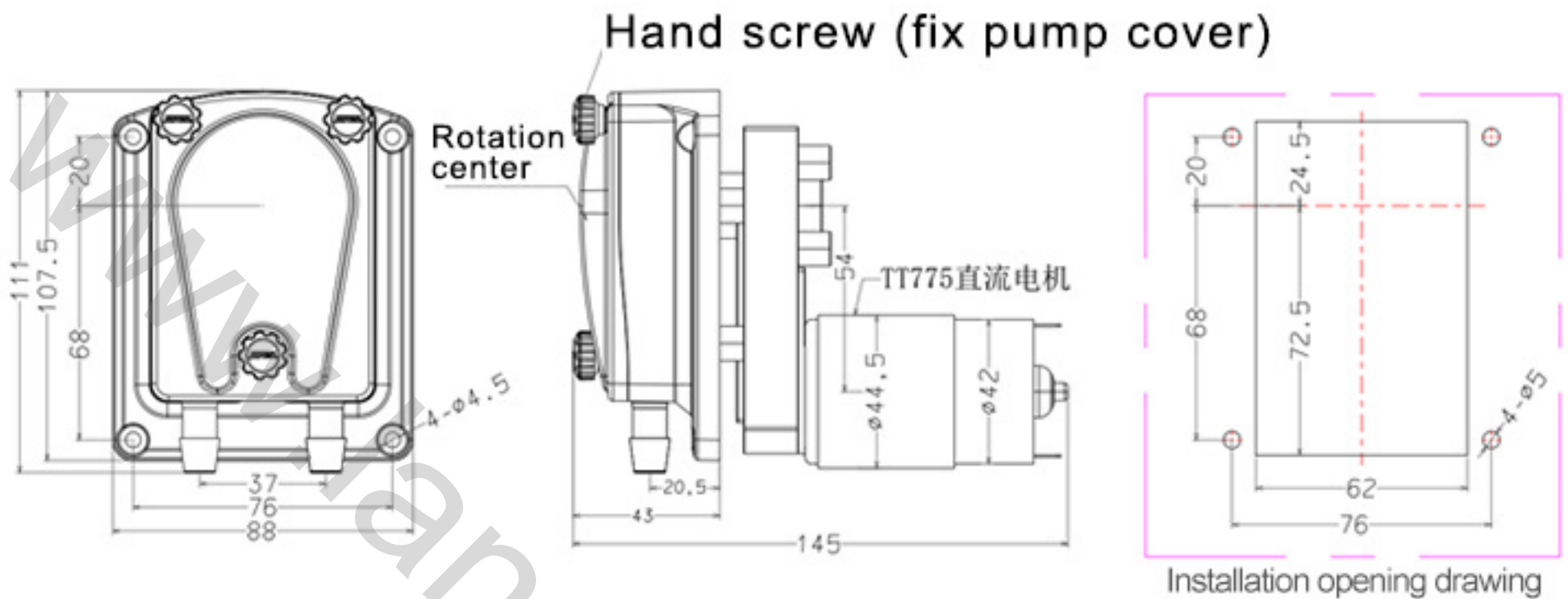


Product Dimension Drawing

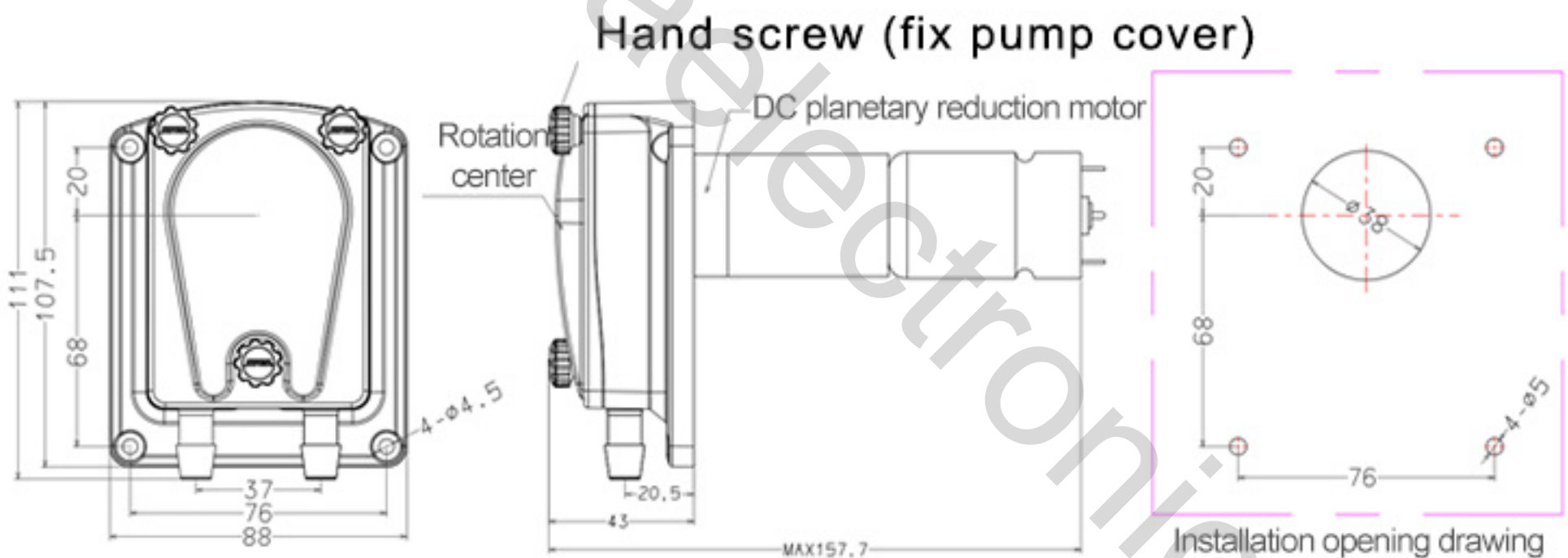


PRODUCT DIMENSIONS

304k/ZL Overall Dimension



304k/ZLX Overall Dimension



304k/BT Overall Dimension

