

PROVIDE MORE THAN YOU EXPECTED

## Syringe / Gear / Peristaltic Pumps



## Single, double channel laboratory syringe pump series

### Feature

This series syringe pumps can assembly 1 or 2 syringes, precision can reach  $<\pm 0.35\%$ . Good performance, high precision and high accuracy. Durable mechanical transmission design, long service life and good reliability. Screw fixation using special high precision aviation bearing alternatives to traditional copper, longer service life and high precision support for multiple working mode. High resolution color touch screen LCD, simple and easy to set parameters, status display intuitive and clear. With adjustable protection agencies and alarm mechanism. The RS-485 communication, support the MODBUS protocol, easy to connect to other devices. All stainless steel shell, easy to clean and maintain.



### The parameters

Model	KYD01-01	KYD02-01	KYD03-01	KYD01-02	KYD02-02
Work mode	infusion, withdraw, infusion/withdraw^ithdraw/infusion, continuous mode;				
Channel number	1	1	1	2	2
Stroke of pump pump	110mm	140mm	140mm	110mm	140mm
pusher advance per microstep	0.156um/ustep	0.156um/ustep	0.03125um/ustep	0.156um/ustep	0.156um/ustep
linear speed	1 um/min-150mm/min	1 um/min-150mm/min	0.2um/min-30mm/min	1 um/min-150mm/min	1 um/min-150mm/min
Linear resolution	1um/min	1um/min	0.2um/min	1um/min	1um/min
Linear travel accuracy	error $<\pm 0.35\%$ ( $>30\%$ of pump stroke);				
maximum rated Linear force	>16kgf	>20kgf	>16kgf	>16kgf	>20kgf
Thrust regulation	1-100% arbitrary adjustable.				
Syringe size	10uL-60mL	10uL-40mL	0.5uL-100uL	10uL-60mL	10uL-40mL
Syringe selection	built-in main manufacturers, the main model syringe to choose;Can use custom syringe, direct input syringe size&dia meter;				
Flow calibration	through the calibration procedure to obtain more accurate fluid volume;				
Display	4.3 -inch color LCD, 480 * 272 resolution, color 65 k;With screen display and transfusion volume, quantity of liquid, flow, operation direction, syringe specification, etc.;Animation display operation status;				
Operation mode	touch screen + button;				
Power-off memory	storing the running parameters automatically;				
Other features	pause and stop;The sound tip;The lock parameters;Fast forward and retreat quickly;				
State signal output	1 road stop state, 1 state road direction;				
Control signal input	1 way down along the priming, 1 way down along the trigger to stop				
Communication interface	RS485, MODBUS protocol				
Dimension ( LXWxH )	245x195x133mm	290x205x141mm	245x195x133mm	245x195x133mm	290x205x141mm
Weight	3.2kg	4.4kg	3.2kg	3.2kg	4.4kg
Applicable power	AC100-240V/20W				
working temperature	5-40 °C				
Relative humidity	<80%				

### Two-way push-pull Style Laboratory Syringe Pump KSD01-01

#### Feature

- It can assemble two syringe, through several tube-line connection, realize continuous transmission liquid;
- A variety of working mode choice;
- Color touch screen, LCD display, convenient and quick operation;
- Support screen lock, key mute operation;
- With lights, buttons, clearly working state;
- Support a variety of standard syringe, customize syringe;
- High precision control;
- Syringe protection and traffic jam alarm;
- RS485 communication, support the MODBUS protocol;
- External signal control start-stop and direction;
- A wide range of power input;
- Full metal shell.



#### The parameters

- Syringe size: 10 ul – 60 ml;
- Work mode: infusion, withdraw, infusion/withdraw, withdraw/infusion, continuous mode;
- Channel number: 2;
- Stroke of pump: 140 mm;
- pusher advance per microstep: 0.156 um/ustep;
- linear speed: 1 um/min – 150 um/min;
- Linear resolution: 1 um/min;
- Linear travel accuracy: error <± 0.35% (>30% of pump stroke);
- Linear force: maximum rated: > 20KGF;
- Thrust regulation: 1-100% arbitrary adjustable.
- Syringe selection: built-in main manufacturers, the main model syringe to choose;Can use custom syringe, direct input syringe size& diameter;
- Flow calibration: through the calibration procedure to obtain more accurate fluid volume;
- Display: 4.3 -inch color LCD, 480 \* 272 resolution, color 65 k;With screen display and transfusion volume, quantity of liquid, flow, operation direction, syringe specification, etc.;Animation display operation status;
- Operation mode: touch screen + button;
- Power-off memory: storing the running parameters automatically.;
- Other features: pause and stop;The sound tip;The lock parameters;Fast forward and retreat quickly;
- State signal output: 1 road stop state, 1 state road direction;
- Control signal input: 1 way down along the priming, 1 way down along the trigger to stop;
- communication interface: RS485, MODBUS protocol;
- Applicable power: AC100-240 V;
- working temperature: 5 to 40 °C;
- Relative humidity: < 80% RH;
- Dimension: 290 \* 205 \* 141 mm
- Weight: 4.4 kg

## Multi-channel laboratory syringe pumps

It can assemble four syringes, other quantity can be customized;Good performance, high precision and high accuracy;Durable mechanical transmission design, long life and good reliability.Support for multiple working mode;High resolution color touch screen LCD, simple and easy to set parameters, status display intuitive and clear;With adjustable protection agencies and alarm mechanism;The RS – 485 communication, support the MODBUS protocol, easy to connect to other devices;All stainless steel shell, easy to clean and maintain.

### Feature

- It can assemble four syringes;
- A variety of working mode choice;
- Color touch screen, LCD display, convenient and quick operation;
- Support screen lock, key mute operation;
- With lights, buttons, clearly working state;
- Support a variety of standard syringe, customize syringe;
- High precision control;
- Syringe protection and traffic jam alarm;
- RS485 communication, support the MODBUS protocol;
- External signal control start-stop and direction;
- A wide range of power input;
- Full metal shell.



### The parameters

Model	KYD02-04	KYD02-10
Work mode	infusion, withdraw, infusion/withdraw, withdraw/infusion, continuous mode.	
Channel number	4	10
Stroke of pump	140mm	
pusher advance per microstep	0.156um/ustep	
Linear resolution	1 um/min -150mm/min	
linear speed	Error<± 0.35% (> 30% of pump stroke)	
maximum rated Linear force	>20kgf	
Thrust regulation	1 -100% arbitrary adjustable	
Syringe size	10uL-10mL	

### KFD01-01 Split Style Laboratory Syringe Pump

KFD01-01 is a single channel multi-mode micro syringe pump. There are five working modes available: infusion, withdrawal, infusion then withdrawal, withdrawal then infusion and continuous cycle. It has split structure. The execution part is equipped with a mounting bracket to use cooperatively with microscopic operating equipment, stereotaxic instrument and other fixtures. It can be used with 5μL-1000μL microliter syringe. The high precision control is suitable for all kinds of biological experiments. High resolution color touch LCD screen is convenient to set parameters. Multiple indicators show the working status. Built-in RS485 Modbus to work with external control device. TFD01-01 is suitable for syringe size 5μL-1mL, linear force from 1μm/min to 150mm/min

#### Feature

- Color touch LCD screen, physical function keys
- Working modes available: infusion, withdrawal, infusion then withdrawal, withdrawal then infusion and continuous cycle
- LF-Touch-GUI software system, stable, reliable and powerful.
- Split style design, easy to install and operate. Supports screen lock, key mute operation. A variety of standard syringe, customize syringe support. High precision control.
- RS485 MODBUS interface, to control start/stop and direction.
- Entire metal shell.



#### The parameters

- Software system: LF-Touch-GUI (standard); LF-LabComSoft computer control software (optional)
- Syringe specification: 5μL-1000μL
- Channel number: 1
- Max stroke Range: 70 mm
- Stroke resolution: 0.198 μm/step
- linear velocity range: 0.635 um/min to 95.25 um/min
- Linear velocity regulating resolution: 0.635 um/min
- Linear travel accuracy: error < +/- 0.5% (30%)
- stroke > maximum stroke
- Linear thrust, maximum rated: > 20n
- Thrust adjustment: 1-100% arbitrary adjustable.
- Syringe selection: built-in syringe manufacturers, choose syringe model; Or custom syringe, direct input syringe diameter
- Flow correction: through the calibration procedure to obtain more accurate fluid volume
- Display: 4.3 inch color LCD, 480×272 resolution, color 65K
- With screen display and transfusion volume, quantity of liquid, flow rate, direction, syringe specification, etc.
- Animation display for operating status
- Operation mode: touch screen and physical buttons
- Power-off memory: keep saved parameters
- Other features: pause and stop, warning tone, parameters lock
- Fast forward and retreat quickly
- Indicator, state signal output: one for stop state, another one for direction state
- Control signal input: control start/stop and direction
- Communication interface: RS485, MODBUS
- Power supply: 90-264V AC / 20W
- Working temperature: 5~40°C (41~104°F)
- Working environment relative humidity: < 80% RH
- Controller dimension: 245x195x133 mm (9.6×7.7×5.2 inch)
- Drive dimension: 70x44x194mm (2.8×1.7×7.6 inch)
- Weight: 3.2kg (7.0lbs)

### KG3030-1S Industrial Syringe Pump

KG3030-1S is a compact structure pump, is suitable for Industrial automatic with high accuracy. Main used with the devices or the instruments, especially for the task of program and the automation system. Many mounting ways to choose, rotary valve reversers automatic, improving the flexibility of embedded installation of G3030-1S. More complicated and comprehensive operating task can be finished with the matched PC software. it can program, storage, increases the degree of automation, which is very suitable for the high-automatic field .G3030-1S with wide linear velocity ,can mounted with lots of syringe model, can easily realize the automatic of the transmission of flow, dilution ,distribution and so son, with high precision and accuracy. The good material of the syringe, valve and tube coupling, providing excellent chemical characteristics of the G3030-1S, greatly increased the application field of the pump



#### The parameters

- Flow accuracy : error≤1% (rated stroke)
- Flow repeatability : repeatability≤0.5%
- Rated stroke( step) : 30mm(3000 steps)
- Linear speed : 0.005mm/s-25mm/s
- Time for rated stroke : 1.2s-6000s
- Control resolution : 0.01mm(1 step)
- Drive mechanism : lead screw and slide rail
- Plunger drive force( max) =76N
- Syringe model : 50 UL,100 UL,250 UL,500 UL,1 mL,2.5 mL,,5mL
- Valve type : 4 -port 90°valve(Standard)
- 3- port 120° valve(Optional)
- Communication interface :RS485/RS232 can setup
- Communicate baud rate :9600/38400
- Signal input : 2 input signals TTL (Internal photoelectric isolation drive current >16mA)
- Signal output : OC gate output signal of internal photoelectric isolation, (TTL signal optional ) to indicate Work state.
- Pump parameter setting : 7 dial DIP switch
- Dimension (L×W×H) : 110×44.4×127(mm)
- Power supply : DC 24V/1.5A
- Working temperature : 15°C-40°C(determined by the PTFE of the syringe )
- Working Relative Humidity: <80%
- Weight : 0.98kg

#### Reversing valve

	threaded coupling	matiral
3 -port 120° valve	1/4"-28UNF	PTFE/PCTFE

### Micro Gear Pump

Micro Gear Pump is a high performance, low noise of micro gear pump, brushless servo motor, stainless steel, magnetic drive pump head can be realized constant transferring fluid without pulsation. Streamline drives use plastic shell, color LCD display, touch screen operation, can be easily set parameters. A variety of work mode, flow display, and are suitable for all kinds of LAB areas. A variety of external control way, convenient to use with other devices, and the MODBUS protocol communication, simplify the difficulty of system development.

#### Feature

- It can be installed a variety of pump head
- This pump is suitable for transmission more viscous, high pressure liquid
- No pulse transmission, low noise
- Magnetic coupling is designed, easy to maintain
- Brushless drive, high efficiency, no maintenance
- The digital display, keypad operation.
- Speed display
- Regularly dispensing liquid.
- External control signal control, physical isolation, analog control
- RS485 communication, support the MODBUS protocol
- Plastic ABS house
- wide range power input, adapted to different environment

#### Technical Parameters



Model	KCT3000S	KCT3001S	KCT3000F	KCT3001F
Flow range	90-2700ml/min	90-2700ml/min	15-2700 mL/min	15-2700 mL/min
Speed range	300-3000rpm/min	300-3000rpm/min	50-3000 rpm/min	50-3000 rpm/min
Speed resolution	1rpm/min, accuracy 3%	1rpm/min, accuracy 3%	1rpm/min, accuracy 0.5%	1rpm/min, accuracy 0.5%
Time dispensing	-	-	0.1-99.99 secpmds	0.1-99.99 secpmds
Pause time	-	-	0.1-999.9 seconds	0.1-999.9 seconds
Dispensing times	-	-	0-999	0-999
Adjusting way	Keypad	Mask keypad operation	keypad and touch screen operation	keypad and touch screen operation
Display mode	4 LED digital display			
Power supply	AC 88-264V 50Hz/60Hz (standard)	AC 88-264V 50Hz/60Hz (standard)	AC 90-264V 50Hz/60Hz	AC 100-240V 50Hz/60Hz
consumption	<150W	<50W	<150W	<50W
Working environment	Environment 0~ 40°C humidity <80%			
Dimension size	320x150x237 mm	182x343x198mm	342x198x182mm	342x198x182mm
Drive weight	5.5kg	3.3kg	5.5kg	3.5kg
IP standard	IP31	IP31	IP31	IP31

## Intelligent Flow Pumps

Intelligent peristaltic pump provides flow range from 0.00011 to 720mL/min with variable pump heads and tubings. It offers not only intuitive and clear interface with color LCD touch screen, but also advanced features such as flow rate calibration and anti-drip function for accurate flow transfer. Easy Dispense Mode is available to dispense the recorded volume by pressing the DISPENSE key or using a footswitch. The system minimizes working noise due to the intelligent cooling fan control. With RS485 MODBUS interface, the pump is easy to communicate with external device, such as PC, HMI or PLC.

### Feature

- Color LCD displaying, touch screen and keypad.
- Reversible direction, start/stop and adjustable speed.
- Flow rate calibration.
- Flow rate display and control; Cumulative dispense volume display.
- Anti-drip function ensures dispense accuracy.
- 0.2% high precision rotating speed control with 0.1 rpm speed resolution.
- Precise motor control technology improves dispense accuracy compared to the traditional time dispense mode.
- Professional operating system, configure system with setup wizard.
- Intelligent temperature control to minimize working noise.
- External logic level signal can control start/stop, direction and easy dispense function; external analog signal can adjust the rotating speed. Control signal is optically isolated.
- With RS485 MODBUS interface, easy to communicate with external device.
- Internal double-layer isolation structure, circuit board with conformal coating makes the pump dust-proof and moisture proof.
- Anti-electromagnetic interference feature, wide input voltage range for complex power environment.
- Stainless steel enclosure, easy to clean, resistant to the corrosion of the acid, alkali, sodium and organic solvents.
- Drive multi-channels and various types of pump heads.
- Optional footswitch and remote infrared control.

### Technical Parameters



Model	KBT100L	KBT300L	KBT600L
Flow range	0.00011-720 mL/min	0.006-1600 mL/min	0.006-2900 mL/min
Speed range	0.1-150 rpm	0.1-350 rpm	0.1-600 rpm
Speed resolution		0.1rpm	
Speed accuracy		0.2%	
Power supply	AC 220V ± 10% 50/60Hz; AC 110 ± 10% 50Hz/60Hz		
Power consumption	< 40W	< 50W	< 60W
External control	Input level : 5V, 12V (standard), 24V (optional) External control analog : 0-5V (standard), 0-10v, 4-20mA (optional)		
Communication interface	RS485 MODBUS		
Operating condition	Temperature 0-40°C; Relative humidity < 80%		
IP grade	IP31		
Dimensions (L x W x H)	226x150x238mm		
Weight	4.8kg	5.3kg	5.5kg

## Intelligent Flow Pumps

KBT100L/300L/600L Drive with different pump heads combination



### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT100L (304SS case)	KDG6-1 (6rollers)	1	Wall:0.8-1, ID:≤2.4	0.00016-26
	KDG10-1 (10rollers)	1	Wall:0.8-1, ID:≤2.4	0.00011-20
	KDG6-2 (6rollers)	2	Wall:0.8-1, ID:≤2.4	0.00016-26
	KDG10-2 (10rollers)	2	Wall:0.8-1, ID:≤2.4	0.00011-20
	KDG6-4 (6rollers)	4	Wall:0.8-1, ID:≤2.4	0.00016-26
	KDG10-4 (10rollers)	4	Wall:0.8~1, ID:≤2.4	0.00011-20
	KDT10-18	1	13# 14#, Wall:0.8-1, ID:≤3.17	0.0002-82
	KDT10-28	2	13# 14#, Wall:0.8-1, ID:≤3.17	0.0002-82
	KDT10-48	4	13# 14#, Wall:0.8-1, ID:≤3.17	0.0002-82
	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-420
	KYZ25	1	15# 24#	0.16-420
	2 x KYZ15	2	13# 14# 16# 19# 25# 17#	0.006-420
	2 x KYZ25	2	15# 24#	0.16-420
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-570
	KYT25	1	15# 24# 35# 36#	0.16-720
	2 x KYT15	2	13# 14# 16# 19# 25# 17# 18#	0.006-570
	2 x KYT25	2	15# 24# 35# 36#	0.16-720
	KDT15-14	1	16# 19# 25# 17#	0.05-400
	KDT15-24	2	16# 19# 25# 17#	0.05-400
	KDT15-44	4	16# 19# 25#	0.05-260
KBT300L (304SS case)	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-990
	KYZ25	1	15# 24#	0.16-990
	2 x KYZ15	2	13# 14# 16# 19# 25# 17#	0.006-990
	2 x KYZ25	2	15# 24#	0.16-990
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-1300
	KYT25	1	15# 24# 35# 36#	0.16-1600
	2 x KYT15	2	13# 14# 16# 19# 25# 17# 18#	0.006-1300
	KDT15-14	1	16# 19# 25# 17#	0.05-930
	KDT15-24	2	16# 19# 25# 17#	0.05-930
	KDT15-44	4	16# 19# 25#	0.05-610
KBT600L (304SS case)	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-1700
	KYZ25	1	15# 24#	0.16-1700
	2 x KYZ15	2	13# 14# 16# 19# 25# 17#	0.06-1700
	2 x KYZ25	2	15# 24#	0.16-1700
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-2300
	KYT25	1	15# 24# 35# 36#	0.16-2900
	2 x KYT15	2	13# 14# 16# 19# 25# 17# 18#	0.006-2300

## Intelligent Flow Pumps

Intelligent peristaltic pump provides flow range from 0.00011 to 720mL/min with variable pump heads and tubings. It offers not only intuitive and clear interface with color LCD touch screen, but also advanced features such as flow rate calibration and anti-drip function for accurate flow transfer. Easy Dispense Mode is available to dispense the recorded volume by pressing the DISPENSE key or using a footswitch. The system minimizes working noise due to the intelligent cooling fan control. With RS485 MODBUS interface, the pump is easy to communicate with external device, such as PC, HMI or PLC.

### Feature

- Color LCD display, touch screen and keypad for operating.
- Reversible direction, start/stop control and adjustable speed.
- Flow rate calibration.
- Flow rate display and control; Cumulative dispense volume display.
- Anti-drip function ensures dispense accuracy.
- 0.2% high precision rotating speed control with 0.1 rpm speed resolution.
- Precise motor control technology improves dispense accuracy compared to the traditional dispense mode.
- Professional operating system, configure system with setup wizard.
- Intelligent temperature control to minimize working noise.
- Logic level signal can control start/stop, direction and easy dispense functions; external analog signal can adjust the rotating speed. Control signal is optically isolated.
- With RS485 MODBUS interface, easy to communicate with external device.
- Internal double-layer isolation structure; circuit board with conformal coating makes the pump dust-proof and moisture proof.
- Anti-electromagnetic interference feature, wide input voltage range for complex power environment.
- ABS plastic housing, streamlined shape.
- Drive multi-channels and various types of pump heads.
- Optional footswitch and remote infrared control.

### Technical Parameters



Model	KBT101L	KBT301L	KBT601L
Flow range	0.00011-720 mL/min	0.006-1600 mL/min	0.006-2900 mL/min
Speed range	0.1-150 rpm	0.1-350 rpm	0.1-600 rpm
Speed resolution		0.1rpm	
Speed accuracy		0.2%	
Power supply	AC 100-240V ± 10% 50/60Hz;		
Power consumption	< 30W	< 40W	< 50W
External control	Input level : 5V, 12V (standard), 24V (optional) External control analog : 0-5V (standard), 0-10v, 4-20mA (optional)		
Communication interface	RS485 MODBUS		
Operating condition	Temperature 0-40°C; Relative humidity < 80%		
IP grade	IP31		
Dimensions (L x W x H)	257x198x182mm		
Weight	4.8kg	5.3kg	5.5kg

## Intelligent Flow Pumps

kBT101L/301L/601L Drive with different pump heads combination



### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT101L (ABS plastic case)	KDG6-1 (6rollers)	1	Wall:0.8~1, ID: $\leq$ 2.4	0.00016-26
	KDG10-1 (10rollers)	1	Wall:0.8~1, ID: $\leq$ 2.4	0.00011-20
	KDG6-2 (6rollers)	2	Wall:0.8~1, ID: $\leq$ 2.4	0.00016-26
	KDG10-2 (10rollers)	2	Wall:0.8~1, ID: $\leq$ 2.4	0.00011-20
	KDG6-4 (6rollers)	4	Wall:0.8~1, ID: $\leq$ 2.4	0.00016-26
	KDG10-4 (10rollers)	4	Wall:0.8~1, ID: $\leq$ 2.4	0.00011-20
	KDT10-18	1	13# 14#, Wall:0.8~1, ID: $\leq$ 3.17	0.0002-82
	KDT10-28	2	13# 14#, Wall:0.8~1, ID: $\leq$ 3.17	0.0002-82
	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-420
	KYZ25	1	15# 24#	0.16-420
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-570
	KYT25	1	15# 24# 35# 36#	0.016-720
KBT301L (ABS)	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-990
	KYZ25	1	15# 24#	0.16-990
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-1300
	KYT25	1	15# 24# 35# 36#	0.16-1600
KBT601L (ABS case)	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-1700
	KYZ25	1	15# 24#	0.16-1700
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-2300
	KYT25	1	15# 24# 35# 36#	0.16-2900

### KBQ80S Microflow Variable-Speed Peristaltic Pump

KBQ80S is a portable microflow variable-speed peristaltic pump. It provides flow range from 0.005 to 64 mL/min with variable pump heads and tubing. It offers not only basic functions such as start/stop, reversible direction and adjustable speed, but also Time Dispense Mode to dispense fluid by setting the duration time for each dose. With standard RS485 MODBUS interface, it is easy to communicate with external device, such as PC, HMI or PLC.

#### Feature

- Simple operation, portable size, easy to install. Suitable for equipment as an ancillary device and for laboratory use.
- 0.5% high precision rotating speed control with 0.1 rpm speed resolution. Speed range 0.1-80 rpm.
- The lifetime of the built-in Pharmed BPT tubing is up to 12000 hours for continuous running.
- Four-digit LED displays working speed and control mode.
- Membrane keypad.
- Reversible direction, start/stop, adjustable speed.
- Time dispense function. Repeat dispensing by setting the dispense duration time.
- Plastic housing, embedded design to work independently.
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- External logic level signal can control start/stop, direction and dispense function. External analog signal can adjust the rotating speed. Signal is optically isolated.
- MODBUS RS485 interface, easy to communicate with external control devices.
- Optional footswitch or timer for dispensing fluid.



#### Technical Parameters

Model	KBQ80S
Flow range	0.0004-77 mL/min
Speed range(rpm)	0.1-80
Speed resolution(rpm)	0.1 rpm
Speed accuracy	0.5%
Power supply	AC 100-240V 50 Hz/60 Hz
Power consumption	<10W
External control	Input level 5V12V(standard),24V(optional)
Communication interface	RS485 communication interface, MODBUS protocol is available
Operating condition	Temperature 0~40°C Relative humidity <80%
IP grade	IP31
Dimensions(LxWxH)	112x96x96(mm)
Weight	0.8kg

### KBT50S/KBT102S Micrometeor Speed-Variable Peristaltic Pump Introduction

Microflow variable-speed peristaltic pump provides flow range from 0.00011 to 190 mL/min with variable pump heads and tubings. It offers not only the basic functions such as reversible direction, start/stop and adjustable speed, but also Easy Dispense feature. With MODBUS RS485 interface, pump is easy to communicate with external device, such as PC, HMI or PLC.

#### Feature

- Four-digit LED displays speed and working mode.
- LED indicator shows working state.
- Membrane keypad.
- Reversible direction, start/stop control and adjustable speed.
- Easy Dispense Mode.
- 0.5% high precision rotating speed control with 0.1 rpm speed.
- External logic level signal can control start/stop, direction and dispense function; external analog signal can adjust the rotating speed. Signal is optically isolated.
- With RS485 MODBUS interface, easy to communicate with external device.
- Internal double-deck isolation structure; circuit board with conformal coating makes it dust-proof and moisture-proof.
- Anti-electromagnetic interference feature, wide input voltage range for complex power environment.
- Stainless steel enclosure, easy to clean, resistant to the corrosion of the acid, alkali, sodium and organic solvents.



#### Technical Parameters

Model	KBT50S	KBT102S
Flow range	0.00011 ~ 190ml/min	0.00011 ~ 480ml/min
Speed range(rpm)	0.1-50	0.1-100
Speed resolution(rpm)	0.1 rpm	
Speed accuracy	<0.5%	
Power supply	AC100-240V 50Hz/60Hz	
Power consumption	<25W	<25W
External control	Input level 5Vf 12V(standard)24V(optional)	
Communication interface	Rs485 communication interface, MODBUS protocol is available	
Operating condition	Temperature 0~40°C Relative humidity <80%	
IP grade	IP31	
Dimensions(LxWxH)	225x132x128(mm)	
Weight	2.7 kg	2.7 kg

### KBT50S/KBT102S Micrometeor Speed-Variable Peristaltic Pump Introduction

#### KBT50S/KBT102S Pictures of applicable pump head



#### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT50S (304SS case)	KDG10-1 (10 rollers)	1	Wall:0.8~1, ID: $\leq$ 3.17	0.0001-24.5
	KDG10-2 (10 rollers)	2	Wall:0.8~1, ID: $\leq$ 3.17	0.0001-24.5
	KDT10-18	2	Wall:0.8~1, ID: $\leq$ 3.17	0.0002-41
	KDT10-28	2	Wall:0.8~1, ID: $\leq$ 3.17	0.0002-41
	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-140
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-190
KBT102S	KDG	1,2	Wall:0.8~1, ID: $\leq$ 3.17	0.0001-49
	KDT10-18	1	13# 14#, Wall:0.8~1, ID: $\leq$ 3.17	0.0002-82
	KDT10-28	2	13# 14#, Wall:0.8~1, ID: $\leq$ 3.17	0.0002-82
	KYZ15	1	13#14#16#19#25#17#	0.006-280
	KYZ25	1	15# 24#	0.16-280
	KYT15	1	13#14#16#19#25#17#18#	0.006-380
	KYT25	1	15#24#35#36#	0.16-480

### KBT100S/KBT300S/KBT600S Basic Speed-Variable Peristaltic Pump Introduction

Speed-Variable Peristaltic Pump, Adopts the specified LF-LCD-OS software program, English and Chinese two languages display. Easy and convenient. With the adjust speed, positive and negative directions, start/stop, full speed (clean) etc basic functions. The easy dispensing function can realize the repeat timing quantitative, continuous dispensing, flow testing etc more functions.

#### Feature

- LCD displays rotating speed and working mode.
- Membrane keypad.
- Reversible direction, start/stop control and adjustable speed.
- Time dispense mode: automatically dispense by setting the duration for each dose, lag time between doses and number of cycles.
- 0.5% high precision rotating speed control with 0.1 rpm speed resolution when speed is between 0-100 rpm, 1 rpm speed resolution when speed is between 100-600 rpm.
- External logic level signal can control start/stop, direction and dispense functions; external analog signal can adjust the rotating speed. Signal is optically isolated.
- With RS485 MODBUS interface, easy to communicate with external device.
- Internal double-layer isolation structure; circuit board with conformal coating makes the pump dust-proof and moisture proof.
- Anti-electromagnetic interference feature, wide input voltage range for complex power environment.
- Stainless steel enclosure, easy to clean, resistant to the corrosion of the acid, alkali, sodium and organic solvents.



#### Technical Parameters

Model	KBT100S	KBT300S	KBT600S
Flow range	0.0001 ~720	0.006 ~ 1600	0.006 ~ 2900
Speed range(rpm)	0.1-150	0.1-350	0.1-600
Speed resolution(rpm)	When running speed is 0.1-100rpm,the resolution is 0.1rpm When running speed is 100-600rpm, the resolution is 1rpm		
Flow accuracy	<0.5%		
Power supply	AC100-240V 50/60HZ		
Power consumption	<40W	<50W	<60W
External control	Input level 5V 12V(standard) / 24V(optional) External control analog 0-5v(standard),0-10v, 4-20mA(optional)		
Communication interface	RS485 communication interface, MODBUS protocol is available		
Operating condition	Temperature 0~40OC; Relative humidity <80%		
IP grade	IP31		
Dimensions(LxWxH)	226mm><150mm x 238mm		
Weight	4.7kg	4.9kg	5.2kg

## KB100S/KBT300S/KBT600S Applicable Pump head and tubing,flow parameters

## KBT100S/ KBT300S/ KBT600S Applicable pump head



## Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT100S (304SS case)	KDG6-1 (6rollers)	1	Wall:0.8-1, ID:≤3.17	0.0001-49
	KDG10-1 (10rollers)	1	Wall:0.8-1, ID:≤3.17	0.0001-41
	KDG6-2 (6rollers)	2	Wall:0.8-1, ID:≤3.17	0.0001-49
	KDG10-2 (10rollers)	2	Wall:0.8-1, ID:≤3.17	0.0001-41
	KDG6-4 (6rollers)	4	Wall:0.8-1, ID:≤3.17	0.0001-49
	KDG10-4 (10rollers)	4	Wall:0.8-1, ID:≤3.17	0.0001-41
	KDT10-18	1	13#14#, Wall:0.8-1 ID:≤3.17	0.0002-82
	KDT10-28	2	13#14#, Wall:0.8-1 ID:≤3.17	0.0002-82
	KDT10-48	4	13#14#, Wall:0.8-1 ID:≤3.17	0.0002-82
	KYZ15	1	13#14#16#19#25#17#	0.006-420
	KYZ25	1	15#24#	0.16-420
	2*KYZ15	2	13#14#16#19#25#17#	0.006-420
	2*KYZ25	2	15#24#	0.16-420
	KYT15	1	13#14#16#19#25#17#18#	0.006-570
	KYT25	1	15#24#35#36#	0.16-720
	2*KYT15	2	13#14#16#19#25#17#18#	0.006-570
	2*KYT25	2	15#24#35#36#	0.16-720
KBT300S (304SS case)	KYZ15	1	13#14#16#19#25#17#	0.006-990
	KYZ25	1	15#24#	0.16-990
	2*KYZ15	2	13#14#16#19#25#17#	0.006-990
	2*KYZ25	2	15#24#	0.16-990
	KDT15-24	2	19#16#25#17#	0.05-930
	KYT15	1	13#14#16#19#25#17#18#	0.006-1300
	KYT25	1	15#24#35#36#	0.16-1600
	2*KYT15	2	13#14#16#19#25#17#18#	0.006-1300
KBT600S (304SS case)	KYZ15	1	13#14#16#19#25#17#	0.006-1700
	KYZ25	1	15#24#	0.16-1700
	2*KYZ15	2	13#14#16#19#25#17#	0.006-1700
	2*KYZ25	2	15#24#	0.16-1700
	KDT15-24	2	19#16#25#17#	0.05-1600
	KYT15	1	13#14#16#19#25#17#18#	0.006-2300
	KYT25	1	15#24#35#36#	0.16-2900
	2*KYT15	2	13#14#16#19#25#17#18#	0.006-2300

### KBT101S/301S/601S Basic Speed-Variable Peristaltic Pump introduction

This Pump has basic functions such as reversible direction, start/stop full speed (fast cleaning, empty), and speed-variable. Dispensing function can realize the repeat timing quantitative dispensing. RS485 interface, as adopting the MODBUS communication protocol, the pump is easier to be connected with other equipments, such as computer, human Machine interface and PLC.

#### Feature

- Four digits LED indicator displays working speed.
- LED indicator displays the internal control, external control, footswitch and other working mode.
- Membrane keypad operation.
- Reversible direction, start/stop, full speed. Running parameters stored automatically.
- Easy dispensing function, repeats liquid dispensing by time or volume.
- Can drive multi-channels and various types of pump heads.
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- Anti-interference feature, wide input voltage range for complex power environment.
- External on/off voltage signal controls start/stop, reversible direction and easy dispensing function, optically coupled isolator; External analog adjusts the rotating speed.
- RS485 MODBUS interface, easy to be controlled by external device.
- Optional footswitch or timer for dispensing fluid.



#### Technical Parameters

Model	KBT101S	KBT301S	KBT601S
Flow range	0.00011 ~720	0.006 ~ 1600	0.006 ~ 2900
Speed range(rpm)	0.1-150	0.1-350	0.1-600
Speed resolution(rpm)	0.1-100 rpm, 0.1 rpm resolution; 100-150 rpm, 1 rpm resolution 0.1-100 rpm, the speed resolution is 0.1 rpm; between 100-350 rpm, the speed resolution is 1 rpm		
Flow accuracy	0.5%		
Power supply	AC100-240V 50/60HZ		
Power consumption	<30W	<40W	<50W
External control	Input level 5V 12V(standard) / 24V(optional) External control analog 0-5v(standard), 0-10v, 4-20mA(optional)		
Communication interface	RS485 MODBUS		
Operating condition	Temperature 0~40C; Relative humidity <80%		
IP grade	IP31		
Dimensions(LxWxH)	260mmx 181 mmx 198mm		
Weight	4.5kg	4.7kg	4.9kg

KBT101S/KBT301S/KBT601S Applicable Pump head and tubing,flow parameters

KBT101S/301S/601S Drive with different pump heads combination



KDG-1 (6,10rollers)

KDG-2 (6,10rollers)

KDG-4 (6,10rollers)



KDT10-18

KYT15(25)

KYZ15(25)

Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT101S	KDG(6rollers)	1,2,4	Wall:0.8~1, ID:≤3.17	0.0001-49
	KDG(10rollers)	1,2,4	Wall:0.8~1, ID:≤3.17	0.0001-41
	KDT10-18	1	13# 14#, Wall:0.8~1, ID:≤3.17	0.0002-82
	KDT10-28	2	13# 14#, Wall:0.8~1, ID:≤3.17	0.0002-82
	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-420
	KYZ25	1	15# 24#	0.16-420
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-570
	KYT25	1	15# 24# 35# 36#	0.006-720
KBT301S	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-990
	KYZ25	1	15# 24#	0.16-990
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-1300
	KYT25	1	15# 24# 35# 36#	0.16-1600
KBT601S	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-1700
	KYZ25	1	15# 24#	0.16-1700
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-2300
	KYT25	1	15# 24# 35# 36#	0.16-2300

### KBT100S-1 Basic Speed -Variable Peristaltic Pump

KBT100S-1 basic variable speed peristaltic pump provides flow range from 0.00011 to 1700 mL/min with variable pump heads and tubings. It has not only basic functions such as reversible direction, start/stop, full speed (for fast cleaning), adjustable speed, but also dispensing function to easily repeat liquid dispensing by time or volume. With RS485 MODBUS interface, the pump is easy to be controlled by external device, such as computer, human machine interface or PLC.

#### Feature

- Four digits LED indicator displays working speed.
- LED indicator displays the internal control, external control, footswitch and other working mode.
- Membrane keypad operation.
- Reversible direction, start/stop, full speed. Running parameters stored automatically.
- Easy dispensing function, repeats timing quantitative liquid dispensing.
- When 0.1-100 rpm, speed resolution 0.1 rpm; when 100-150 rpm, speed resolution 1 rpm.
- Stainless steel housing, easy to clean, excellent resistance to the corrosion of the acid, alkali, sodium and the organic solvents.
- Can drive multi-channels and various types of pump heads.
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- Anti-interference feature, wide input voltage range for complex power environment.
- External high-low electrical level controls the start/stop, reversible direction and easy dispensing function, optically coupled isolator; External analog adjusts the rotate speed.
- RS485 MODBUS interface available.



#### Technical Parameters

Model	KBT100S-1
Flow range	0.00011-1700 mL/min
Speed range(rpm)	0.1-150 rpm
Speed resolution(rpm)	0.1-100 rpm, 0.1 rpm resolution; 100-150 rpm, 1 rpm resolution
Speed accuracy	0.5%
Power supply	AC 220V ± 10% 50Hz/60Hz (standard) AC 110V ± 10% 50Hz/60Hz (optional)
Power consumption	<40W
External control	Input level 5V, 12V (standard), 24V (optional). External control analog 0-5V (standard); 0-10V, 4-20mA (optional)
Communication interface	RS485 communication interface, MODBUS protocol is available
Operating condition	Temperature 0~40°C Relative humidity <80%
IP grade	IP31
Dimensions(LxWxH)	285 x 150 x 195 mm
Weight	6.5 kg

### KBT100S-1 Basic Speed -Variable Peristaltic Pump

#### KBT100S-1 Drive with different pump heads combination



#### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT100S-1	KDG6-8 (6rollers)	8	Wall:0.8~1, ID:≤3.17	0.0001-49
	KDG10-8 (10rollers)	8	Wall:0.8~1, ID:≤3.17	0.0001-41
	KDG6-12 (6rollers)	12	Wall:0.8~1, ID:≤3.17	0.0001-49
	KDG10-12 (10rollers)	12	Wall:0.8~1, ID:≤3.17	0.0001-41
	KDG6-16 (6rollers)	16	Wall:0.8~1, ID:≤3.17	0.0001-49
	KDG10-16 (10rollers)	16	Wall:0.8~1, ID:≤3.17	0.0001-41
	KDG6-24 (6rollers)	24	Wall:0.8~1, ID:≤3.17	0.0001-49
	KDG10-24 (10rollers)	24	Wall:0.8~1, ID:≤3.17	0.0001-41
	KDT10-88	8	13#14#, Wall:0.8~1, ID:≤3.17	0.0002-82
	KYZ15	1	13#14#16#19#25#17#	0.006-420
	KYZ25	1	15#24#	0.16-420
	2*KYZ15	2	13#14#16#19#25#17#	0.006-420
	2*KYZ25	2	15#24#	0.16-420
	4*KYZ15	4	13#14#16#19#25#17#	0.006-420
	4*KYZ25	4	15#24#	0.16-420
	KZ25	1	15#24#35#36#	1-1700
	2*KZ25	2	15#24#35#36#	1-1700
	KDT15-44	4	19#16#25#17#	0.05-400
	KYT15	1	13#14#16#19#25#17#18#	0.006-570
	KYT25	1	15#24#35#36#	0.006-720
	2*KYT15	2	13#14#16#19#25#17#18#	0.006-570
	2*KYT25	2	15#24#35#36#	0.006-720
	4*KYT15	4	13#14#16#19#25#17#18#	0.006-570
	4*KYT25	4	15#24#35#36#	0.006-720

### KWT300S/KWT600S Basic Speed -Variable Peristaltic Pump

This pump can work with up to 4 pump heads because of the large torque DC brushless motor drive and it's maintenance free. It has basic functions such as reversible direction, start/stop, full speed (for fast cleaning) and adjustable speed. The start/stop, reversible direction, speed adjustment functions can be controlled by external control signal, besides it also has time dispensing function. With RS485 MODBUS communication interface, the pump is easy to communicate with external device, such as PC, HMI or PLC.

#### Feature

- Four digits LED indicator display working speed.
- The LED indicator displays the internal, external control, footswitch etc working modes.
- Membrane keypad operation.
- Reversible direction, start/stop, adjustable speed and full speed, power-off memory function
- Easy dispensing functions, repeats liquid dispensing by time or volume.
- Can drive multi-channels and various types of pump heads.
- Stainless steel housing, easy to clean, excellent resistance to the corrosion of the acid, alkali, sodium and the organic solvents.
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- Anti-interference feature, wide input voltage range for complex power environment.
- External on/off voltage signal controls the start/stop, reversible direction and easy dispensing function, optically coupled isolator; external analog control signal adjusts the rotate speed.
- RS485 MODBUS interface, easy to be controlled by external device.
- Optional footswitch or timer for dispensing fluid.



#### Technical Parameters

Model	KWT300S	KWT600S
Flow range	3-3500 mL/min	3-6000 mL/min
Speed range(rpm)	30-350 rpm/min	30-600 rpm
Speed resolution(rpm)	1 rpm	1 rpm
Speed accuracy	3%	3%
Power supply	AC 220V+/-10%, 50Hz/60Hz; AC 100V+/-10%, 50Hz/60Hz	AC 180-264V 50Hz/60Hz (standard); AC 90-132V 50Hz/60Hz (optional)
Power consumption	<200W	<200W
External control	Input level 5V, 12V (standard), 24V (optional). External control analog 0-5V (standard); 0-10V, 4-20mA (optional)	
Communication interface	RS485 communication interface, MODBUS protocol is available	
Operating condition	Temperature 0~40°C Relative humidity <80%	
IP grade	IP31	
Dimensions(LxWxH)	286mm x 180mm x 230mm	286mm x 180mm x 230mm
Weight	6.2 kg	6.2 kg

## KWT300S/KWT600S Basic Speed -Variable Peristaltic Pump

### KWT300S/KWT600S Drive with different pump heads combination



### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KWT300S	KYZ15	1	13#14#16#19#25#17#	3-990
	KYZ25	1	15#24#	50-990
	2*KYZ15	2	13#14#16#19#25#17#	3-990
	2*KYZ25	2	15#24#	50-990
	4*KYZ15	4	13#14#16#19#25#17#	3-990
	4*KYZ25	4	15#24#	50-990
	KYT15	1	13#14#16#19#25#17#18#	3-1300
	KYT25	1	15#24#35#36#	50-1600
	2*KYT15	2	13#14#16#19#25#17#18#	3-1300
	2*KYT25	2	15#24#35#36#	50-1600
	4*KYT15	4	13#14#16#19#25#17#18#	3-1300
	4*KYT25	4	15#24#35#36#	50-1600
	KDT15-24	2	16#19#25#17#	14-930
	KDT15-44	4	16#19#25#17#	14-610
	KZ25	1	15#24#35#36#	80-3500
	2*KZ25	2	15#24#35#36#	80-3500
	KYZ15	1	13#14#16#19#25#17#	3-1700
KWT600S	KYZ25	1	15#24#	50-1700
	2*KYZ15	2	13#14#16#19#25#17#	3-1700
	2*KYZ25	2	15#24#	50-1700
	4*KYZ15	4	13#14#16#19#25#17#	3-1700
	4*KYZ25	4	15#24#	50-1700
	KZ25	1	15#24#35#36#	80-6000
	2*KZ25	2	15#24#35#36#	80-6000
	KDT15-24	2	16#19#25#17#	14-1600
	KDT15-44	4	16#19#25#17#	14-1600
	KYT15	1	13#14#16#19#25#17#18#	3-2300
	KYT25	1	15#24#35#36#	50-2900
	2*KYT15	2	13#14#16#19#25#17#18#	3-2300
	2*KYT25	2	15#24#35#36#	50-2900
	4*KYT15	4	13#14#16#19#25#17#18#	3-2300
	4*KYT25	4	15#24#35#36#	50-2900

### KBT100F/KBT300F/KBT600F Intelligent Dispensing Peristaltic Pump Introduction

Intelligent dispensing peristaltic pump provides flow range from 0.00011 to 720 mL/min with variable pump heads and tubings. It's easy to operate with the intuitive and clear interface with color LCD touch screen. There are four operation modes available: Volume Dispense Mode, Time Dispense Mode, Copy Dispense Mode and Flow Mode. The system minimizes working noise due to the intelligent cooling fan control. With RS485 MODBUS interface, the pump is easy to communicate with external device, such as PC, HMI or PLC.



KBT100F

KBT300F

KBT600F

#### Feature

- Color LCD display, touch screen and keypad for operating.
- Reversible direction, start/stop control and adjustable speed.
- Precise motor control technology improves dispense accuracy compared to the traditional time dispense mode.
- Anti-drip function ensures dispense accuracy.
- Three dispense modes available. Time Dispense Mode: automatically dispense by setting the duration for each dose, lag time between doses and number of cycles. Volume Dispense Mode: automatically dispense by setting the volume for each dose, lag time between doses and number of cycles. Copy Dispense Mode: automatically dispense by setting the total volume need to dispense, lag time between doses and number of cycles.
- Store five groups of working parameters for each dispense mode (power-off memory).
- Flow rate display and control; cumulative dispense volume display.
- Flow rate calibration.
- 0.2% high precision rotating speed control with 0.1 rpm speed resolution. Professional operating system. Configure system with setup wizard.
- Intelligent temperature control to minimize working noise.
- External logic level signal can control start/stop, direction and easy dispense functions; external analog signal can adjust the rotating speed. Signal is optically isolated.
- With RS485 MODBUS interface.
- Internal double-layer isolation structure, circuit board with conformal coating make the pump dust-proof and moisture proof.
- Anti-electromagnetic interference feature, wide input voltage range for complex power environment.
- Stainless steel enclosure, easy to clean, resistant to the corrosion of the acid, alkali, sodium and organic solvents.
- Drive multi-channels and variable pump heads.
- Optional footswitch and remote infrared control.

## KBT100F/KBT300F/KBT600F Intelligent Dispensing Peristaltic Pump Introduction

### Technical Parameters

Model	KBT100F	KBT300F	KBT600F
Flow range	0.00011-720 mL/min	0.006-1600 mL/min	0.006-2900 mL/min
Speed range(rpm)	0.1-150 rpm	0.1-350 rpm	0.1-600 rpm
Speed resolution(rpm)	0.1 rpm	0.1 rpm	0.1 rpm
Speed accuracy	0.2%	0.2%	0.2%
Power supply	AC 220V ± 10% 50Hz/60Hz; AC 110V ± 10% 50Hz/60Hz		
Power consumption	<40W	<50W	<60W
External control	Input level 5V, 12V (standard), 24V (optional). External control analog 0-5V (standard); 0-10V, 4-20mA (optional)		
Communication interface	RS485 communication interface, MODBUS protocol is available		
Operating condition	Temperature 0~40°C Relative humidity <80%		
IP grade	IP31		
Dimensions(LxWxH)	226 x 150 x 238 mm	226 x 150 x 238 mm	226 x 150 x 238 mm
Weight	4.8 kg	5.3 kg	5.2 kg

### KBT100F/KBT300F/KBT600F Applicable Pump head and tubing,flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT100F	KDG(6rollers)	1,2,4	Wall:0.8~1, ID:≤3.17	0.00016-49
	KDG(10rollers)	1,2,4	Wall:0.8~1, ID:≤3.17	0.00011-41
	KDT10-18	1	13# 14#, Wall:0.8-1, ID:≤3.17	0.0002-82
	KDT10-28	2	13# 14#, Wall:0.8-1, ID:≤3.17	0.0002-82
	KDT10-48	4	13# 14#, Wall:0.8-1, ID:≤3.17	0.0002-82
	KYZ15	1,2	13# 14# 16# 19# 25# 17#	0.0006-420
	KYZ25	1,2	15# 24#	0.16-420
	KYT15	1,2	13# 14# 16# 19# 25# 17# 18#	0.0006-570
	KYT25	2	15# 24# 35# 36#	0.17-720
	KDT15-14	1	19# 16# 25# 17#	0.05-400
	KDT15-24	2	19# 16# 25# 17#	0.05-400
	KDT15-44	4	19# 16# 25# 17#	0.05-260
KBT300F	KYZ15	1,2	13# 14# 16# 19# 25# 17#	0.006-990
	KYZ25	1,2	15# 24#	0.16-990
	KDT15-14	1	19# 16# 25# 17#	0.05-930
	KDT15-24	2	19# 16# 25# 17#	0.05-930
	KDT15-44	4	19# 16# 25# 17#	0.05-610
	KYT15	1,2	13# 14# 16# 19# 25# 17# 18#	0.006-1300
KBT600F (304SS)	KYT25	2	15# 24# 35# 36#	0.16-1600
	YZ15	1	13#14#16#19#25#17#18#	0.006-1700
	YZ25	1	15#24#	0.16-1700
	2*YZ15	2	13#14#16#19#25#17#18#	0.006-1700
	2*YZ25	2	15#24#	0.16-1700
	YT15	1	13#14#16#19#25#17#18#	0.006-2300
	YT25	1	15#24#35#36#	0.16-2900
	2*YT15	2	13#14#16#19#25#17#18#	0.006-2300

### KBT101F/KBT301F/KBT601F Intelligent Dispensing Peristaltic Pump introduction

The pump adopts color LCD touch screen with intuitive and clear displaying interface, easy to operate. Mainly used for accurate measurement and distribution of fluid. If need high accuracy when dispensing, volume dispensing mode is available, if need high producing efficiency, time dispensing mode is more convenient, if want to separate fluid to number of equal parts, copy dispensing mode would be best. When working on flow mode, it is as same as intelligent flow peristaltic pump. The pump adopts intelligent temperature-control technology to reduce working noise. RS485 interface, as adopting the MODBUS communication protocol, the pump is easier to be connected with other equipments, such as computer, human machine interface and PLC.



KBT101F



KBT301F



KBT601F

#### Feature

- Color LCD display, touch screen and keypad for operating.
- Reversible direction, start/stop control and adjustable speed.
- Precise motor control technology improves dispense accuracy compared to the traditional time dispense mode.
- Anti-drip function ensures dispense accuracy.
- Three dispense mode available. Time Dispense Mode: automatically dispense by setting the duration for each dose, lag time between doses and number of cycles. Volume Dispense Mode: automatically dispense by setting the volume for each dose, lag time between doses and number of cycles. Copy Dispense Mode: automatically dispense by setting the total volume need to dispense, lag time between doses and number of cycles.
- Store five groups of working parameters for each dispense mode (power-off memory).
- Flow rate display and control; cumulative dispense volume display.
- Flow rate calibration.
- 0.2% high precision rotating speed control with 0.1 rpm speed resolution. Professional operating system, configure system with setup wizard.
- Intelligent temperature control to minimize working noise.
- Logic level signal can control start/stop, direction and easy dispense functions; external analog signal can adjust the rotating speed. Signal is optically isolated.
- With RS485 MODBUS interface, easy to communicated with external device.
- Internal double-deck isolation structure; circuit board with conformal coating makes it dust-proof and moisture proof.
- Anti-electromagnetic interference feature, wide input voltage range for complex power environment.
- ABS plastic housing, streamlined shape.
- Drive multi-channels and various types of pump heads.
- Optional footswitch and remote infrared control.

## KBT101F/KBT301F/KBT601F Intelligent Dispensing Peristaltic Pump introduction

### Technical Parameters

Model	KBT101F	KBT301F	KBT601F
Flow range	0.00011-720 mL/min	0.006-1600 mL/min	0.006-2900 mL/min
Speed range(rpm)	0.1-150 rpm	0.1-350 rpm	0.1-600 rpm
Speed resolution(rpm)	0.1 rpm	0.1 rpm	0.1 rpm
Speed accuracy	0.2%	0.2%	0.2%
Power supply	AC 220V ± 10% 50Hz/60Hz; AC 110V ± 10% 50Hz/60Hz		
Power consumption	< 30W	< 40W	<50W
External control	Input level 5V, 12V (standard), 24V (optional). External control analog 0-5V (standard); 0-10V, 4-20mA (optional)		
Communication interface	RS485 communication interface, MODBUS protocol is available		
Operating condition	Temperature 0~40°C Relative humidity <80%		
IP grade	IP31		
Dimensions(LxWxH)	257 x 182 x 198mm	257 x 182 x 198mm	257 x 182 x 198 mm
Weight	4.8 kg	5.3 kg	5.5 kg

### Filling application reference table

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT101F (ABS plastic case)	DG6-1 (6rollers)	1	Wall:0.8~1, ID:≤2.4	0.00016-26
	DG10-1 (10rollers)	1	Wall:0.8~1, ID:≤2.4	0.00011-20
	DG6-2 (6rollers)	2	Wall:0.8~1, ID:≤2.4	0.00016-26
	DG10-2 (10rollers)	2	Wall:0.8~1, ID:≤2.4	0.00011-20
	DG6-4 (6rollers)	4	Wall:0.8~1, ID:≤2.4	0.00016-26
	DG10-14 (10rollers)	4	Wall:0.8~1, ID:≤2.4	0.00011-20
	DT10-18	1	13#14#, Wall:0.8~1, ID:≤3.17	0.0002-82
	DT10-28	2	13#14#, Wall:0.8~1, ID:≤3.17	0.0002-82
	YZ15	1	13#14#16#19#25#17#	0.006-420
	YZ25	1	15#24#	0.16-420
	YT15	1	13#14#16#19#25#17#18#	0.006-570
	YT25	1	15#24#35#36#	0.17-720
KBT301F	KYZ15	1	13# 14# 16# 19# 25# 17#	0.006-990
	KYZ25	1	15# 24#	0.16-990
	KYT15	1	13# 14# 16# 19# 25# 17# 18#	0.006-1300
	KYT25	1	15# 24# 35# 36#	0.16-1600
KBT601F (ABS plastic case)	KYZ15	1	13#14#16#19#25#17#	0.006-1700
	KYZ25	1	15#24#	0.16-1700
	KYT15	1	13#14#16#19#25#17#18#	0.006-2300
	KYT25	1	15#24#35#36#	0.16-2900

### KBT100F-1 Intelligent Dispensing Peristaltic Pump

KBT100F-1 intelligent dispensing peristaltic pump provides flow range from 0.00011 to 1700 mL/min with variable pump heads and tubings. The color LCD touch screen provides intuitive and clear displaying interface. There are four operation modes available: volume dispensing mode for high accuracy dispensing; time dispensing mode for high productive efficiency; copy dispensing mode for separating fluid to number of equal parts; flow mode is the same as intelligent flow peristaltic pump. Large torque output to work with more pump head combinations. Intelligent temperature control technology reduces working noise. With standard MODBUS RS485 interface, the pump is easy to communicate with external device, such as PC, HMI or PLC. Stainless steel housing is easy to clean and corrosion resistant.



#### Feature

- Color LCD displaying, touch screen and keypad for operating.
- Four types of working mode: Flow rate mode; Volume dispensing mode; Time dispensing mode; Copy dispensing mode.
- Three dispensing modes store five groups of working parameters automatically.
- Easy button control to reverse direction, start/stop and run full speed (for cleaning).
- Display and control flow rate, accumulated dispensing volume.
- Expert guide calibration flow function.
- Remote infrared control (optional).
- Professional operating system.
- Intelligent temperature control technology reduces working noise.
- External on/off voltage input controls the start/stop, reversible direction and easy dispensing function, optically coupled isolator; External analog signal input adjusts the rotating speed.
- MODBUS RS485 interface, easy to connect external device.
- Internal double-deck isolation structure; circuit board with conformal coating makes it dust proof and moisture proof.
- Anti-interference feature, wide input voltage range for complex power environment.
- Stainless steel housing, easy to clean, excellent resistance to the corrosion of the acid, alkali, sodium and the organic solvents.
- Large torque output, can drive multi-channels and various types of pump heads.
- Optional footswitch or timer for dispensing fluid.

#### Specification

Model	KBT100F-1
Flow range	0.00011-1700 mL/min
Speed range(rpm)	0.1-150 rpm
Speed resolution(rpm)	0.1 rpm
Speed accuracy	0.5%
Power supply	AC 180-264V 50Hz/60Hz AC 90-132V 50Hz/60Hz
Power consumption	< 60W
External control	Input level 5V, 12V (standard), 24V (optional). External control analog 0-5V (standard); 0-10V, 4-20mA (optional)
Communication interface	RS485 communication interface, MODBUS protocol is available
Operating condition	Temperature 0~40°C Relative humidity <80%
IP grade	IP31
Dimensions(LxWxH)	285mm × 250mm × 195mm
Weight	6.5 kg

### KBT100F-1 Intelligent Dispensing Peristaltic Pump

#### KBT100F-1 Drive with different pump heads combination



KZ25

KD-24

2XKYT15(25)

KZ25-L



KYZ-15(25)

KMD25

KDG-12

4XKYZ15(25)

#### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KBT100F-1	DG6-8 (6rollers)	8	Wall:0.8~1, ID:≤2.4	0.00016-26
	DG10-8 (10rollers)	8	Wall:0.8~1, ID:≤2.4	0.00011-20
	DG6-12 (6rollers)	12	Wall:0.8~1, ID:≤2.4	0.00016-26
	DG10-12 (10rollers)	12	Wall:0.8~1, ID:≤2.4	0.00011-20
	DG6-16 (6rollers)	16	Wall:0.8~1, ID:≤2.4	0.00016-26
	DG10-16 (10rollers)	16	Wall:0.8~1, ID:≤2.4	0.00011-20
	DG6-24 (6rollers)	24	Wall:0.8~1, ID:≤2.4	0.00016-26
	DG10-24 (10rollers)	24	Wall:0.8~1, ID:≤2.4	0.00011-20
	DT10-88	8	13#14#, Wall:0.8~1, ID:≤3.17	0.0002-82
	YZ15	1	13#14#16#19#25#17#	0.006-420
	YZ25	1	15#24#	0.16-420
	2*YZ15	2	13#14#16#19#25#17#	0.006-420
	2*YZ25	2	15#24#	0.16-420
	YT15	1	13#14#16#19#25#17#18#	0.006-570
	YT25	1	15#24#35#36#	0.017-720
	2*YT15	2	13#14#16#19#25#17#18#	0.006-570
	2*YT25	2	15#24#35#36#	0.017-720
	DT15-14	1	16#19#25#17#	0.05-400
	DT15-24	2	16#19#25#17#	0.05-400
	DT15-44	4	16#19#25#	0.05-260
	KZ25	1	15#24#35#36#	0.25-1200
	DMD25	1	15#24#35#36#	0.3-1700

### KWT300F/KWT600F Intelligent Dispensing Peristaltic Pump

KWT-F Series intelligent dispensing peristaltic pump provides flow range from 0.06-4000 mL/min. The color LCD touch screen provides intuitive and clear displaying interface. There are four operation modes available: volume dispensing mode for high accuracy dispensing; time dispensing mode for high productive efficiency; copy dispensing mode for separating fluid to number of equal parts; flow rate mode is the same as intelligent flow peristaltic pump. No maintenance is required for the large torque brushless servo motor drive. It has intelligent temperature control technology to reduce working noise. With standard MODBUS communication protocol RS485 interface, the pump is easy to be connected with other equipments, such as computer, human machine interface and PLC. Stainless steel housing is easy to clean and corrosion resistant.



#### Feature

- Color LCD displaying, touch screen and keypad for operating.
- Four types of working mode: Flow rate mode; Volume dispensing mode; Time dispensing mode; Copy dispensing mode are available.
- Three dispensing modes store five groups of working parameters automatically (power-off memory).
- Easy button control to reverse direction, start/stop and run full speed (for cleaning).
- Display and control flow rate, accumulated dispensing volume.
- 0.1 rpm speed resolution.
- Brushless servo motor drive with large torque, no maintenance required, high rotating accuracy.
- Flow rate calibration.
- Remote infrared control (optional).
- Professional operating system.
- Intelligent temperature-control technology to reduce working noise.
- External on/off voltage control signal controls start/stop, reversible direction and easy dispensing function, optically coupled isolator; external analog control signal adjusts the rotating speed.
- With RS485 MODBUS interface, easy to be controlled by other devices.
- Internal double-deck isolation structure; circuit board with conformal coating makes it dust-proof and moisture-proof.
- Anti-interference feature, wide input voltage range for complex power environment.
- Stainless steel housing, easy to clean, excellent resistance to the corrosion of the acid, alkali, sodium and the organic solvents.
- Drive multi-channels and various types of pump heads.
- Optional footswitch or timer for dispensing fluid.

#### Specification

Model	KWT300F	KWT600F
Flow range	0.006-4000 mL/min	0.06-6000 mL/min
Speed range(rpm)	0.1-350 rpm	0.1-600 rpm
Speed resolution(rpm)	0.1 rpm	0.1 rpm
Speed accuracy	0.5%	0.5%
Power supply	AC 180-264V 50Hz/60Hz (standard); AC 90-132V 50Hz/60Hz (optional)	
Power consumption	<100W	< 200W
External control	Input level 5V, 12V (standard), 24V (optional). External control analog 0-5V (standard); 0-10V, 4-20mA (optional)	
Communication interface	RS485 communication interface, MODBUS protocol is available	
Operating condition	Temperature 0~40°C Relative humidity <80%	
IP grade	IP31	
Dimensions(LxWxH)	286mm x 180mm x 230mm	286 x 180 x 230mm
Weight	6.2 kg	6.2 kg

### KWT300F/KWT600F Intelligent Dispensing Peristaltic Pump



KZ-25



KDMD25



KYZ-15(25)



2XKYT15(25)



KDT15-44



4XKYT15 (25)

### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KWT300F	KYZ15	1	13#14#16#19#25#17#	0.006-990
	KYZ25	1	15#24#	0.16-990
	2*KYZ15	2	13#14#16#19#25#17#	0.006-990
	2*KYZ25	2	15#24#	0.16-990
	4*KYZ15	4	13#14#16#19#25#17#	0.006-990
	4*KYZ25	4	15#24#	0.16-990
	KYT15	1	13#14#16#19#25#17#18#	0.006-1300
	KYT25	1	15#24#35#36#	0.16-1600
	2*KYT15	2	13#14#16#19#25#17#18#	0.006-1300
	2*KYT25	2	15#24#35#36#	0.16-1600
	4*KYT15	4	13#14#16#19#25#17#18#	0.006-1300
	4*KYT25	4	15#24#35#36#	0.16-1600
	KDT15-14	1	16#19#25#17#	0.05-930
	KDT15-24	2	16#19#25#17#	0.05-930
	KDT15-44	4	16#19#25#	0.05-610
	KZ25	1	15#24#35#36#	2.5-3500
	2*KZ25	2	15#24#35#36#	2.5-3500
	KDMD25	1	15#24#35#36#	3-4000
KWT600F (304SS case)	KYZ15	1	13#14#16#19#25#17#	0.06-1700
	KYZ25	1	15#24#	1.7-1700
	2*KYZ15	2	13#14#16#19#25#17#	0.06-1700
	2*KYZ25	2	15#24#	1.7-1700
	KYT15	1	13#14#16#19#25#17#18#	0.06-2300
	KYT25	1	15#24#35#36#	1.7-2900
	2*KYT15	2	13#14#16#19#25#17#18#	0.06-2300
	2*KYT25	2	15#24#35#36#	1.7-2900
	KZ25	1	15#24#35#36#	2.5-6000

### KWG600S Industrial Speed-Variable Peristaltic Pump Introduction

The pump is suitable for transferring large amount of fluid in industry. It provides flow range from 0.4 to 13 L/min. The brush-less motor drive with large torque is maintenance free. It has basic functions such as reversible direction, start/stop, full speed (fast cleaning) and variable speed. With RS485 MODBUS interface, the pump is easy to be controlled by external device, such as computer, human machine interface or PLC.

#### Feature

- Stainless steel housing.
- keypad controls running speed, reversible direction, start/stop, full speed, easy opera
- Four digits LED indicator displays working speed.
- Brushless motor drive, maintenance free.
- Stainless steel housing, easy to clean, excellent resistance to corrosion of the acid, alk
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- External on/off voltage signal controls start/stop, reversible direction and easy dispensing function, optically coupled isolator. External analog signal adjusts the rotating speed.
- With RS485 MODBUS interface, easy to be controlled by external devices.



#### Specification

Model	KWG600S
Flow range	0.4-13 L/min
Speed range(rpm)	30-600
Speed resolution(rpm)	0.1 rpm
Speed accuracy	3%
Power supply	AC 220V ± 10% 50Hz/60Hz; AC 110V ± 10% 50Hz/60Hz
Power consumption	< 400W
External control	Input level 5V, 12V (standard), 24V (optional)
Communication interface	RS485 communication interface, MODBUS protocol is available
Operating condition	Temperature 0~40°C Relative humidity <80%
IP grade	IP31
Dimensions(LxWxH)	340 x 235 x 175 mm
Weight	13 kg

#### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KWG600S	KYZ35	1	73# 82#	0.4-13
	2xKYZ25	2	73# 82#	0.4-13

### KWG600F Industrial Speed-Variable Peristaltic Pump Introduction

The pump is suitable for transferring and dispensing large amount of fluid in industry. It provides flow range from 0.01 to 13 L/min per channel. The brush-less servo motor drive with large torque has high rotating accuracy and it's maintenance free. It has not only basic functions such as reversible direction, start/stop, full speed (for fast cleaning) and variable speed, but also three types of distributing mode: time dispensing mode, volume dispensing mode and copy dispensing mode to meets all kinds of complex dispensing requirements. With RS485 MODBUS interface, the pump is easy to be controlled by external device, such as computer, human machine interface or PLC



#### Feature

- Flow range per channel: 0.01-13 L/min.
- Applicable pump head: YZ35, 2xYZ35.
- Brushless servo motor drive with large torque, maintenance free, high rotating accuracy.
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- Color LCD displaying, touch screen and keypad for operating.
- Easy button control to reverse direction, start/stop and run full speed (for cleaning).
- Speed resolution: 0.1rpm, speed accuracy: 0.5%.
- Flow rate calibration.
- Three types of distributing mode: time dispensing mode; volume dispensing mode; copy dispensing mode.
- Automatically store five groups of working parameters.
- Professional operating system.
- Remote infrared control (optional).
- Anti-interference feature, wide input voltage range for complex power environment.
- Stainless steel housing, easy to clean, excellent resistance to corrosion of the acid, alkali, sodium and organic solvents.
- External on/off voltage signal controls start/stop, reversible direction and easy dispensing function, optically coupled isolator. External analog control signal adjusts the rotating speed.
- With RS485 MODBUS interface, easy to be controlled by other devices.

#### Specification

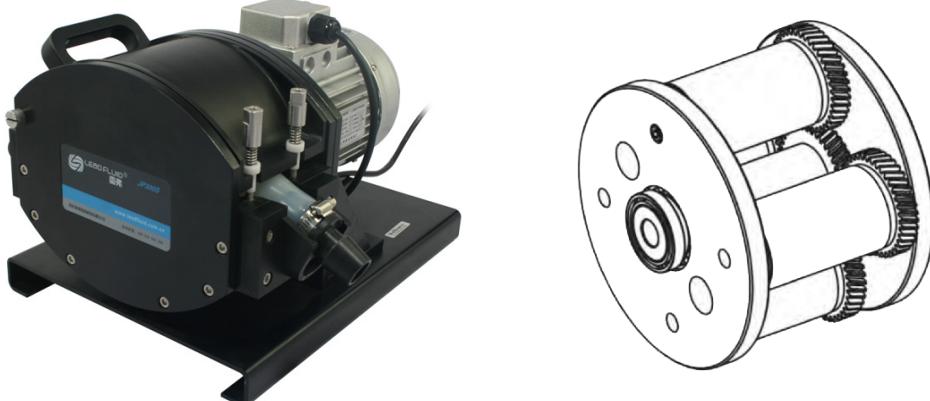
Model	KWG600F	Model	KWG600F
Flow range	0.01-13 L/min	Operating condition	Temperature 0~40°C Relative humidity <80%
Speed range(rpm)	0.1-600 rpm	External on/off control	5V, 12V (standard), 24V (optional); External analog control: 0-5V (standard); 0-10V, 4-20mA (optional)
Speed resolution(rpm)	0.1 rpm	Communication interface	RS485 MODBUS interface
Speed accuracy	0.5%	IP grade	IP31
Power supply	AC 100-240V 50Hz/60Hz	Dimensions	350 x 235 x 315 mm
Power consumption	< 400W	Weight	15kg

#### Applicable pump head and tubing, flow parameters

Drive type	Pump head	Channel number	Tubing(mm)	Single channel Flow rate(ml/min)
KWG600F	KYZ35	1	73# 82#	0.1-13
	2xYZ25	2	73# 82#	0.1-13

### KJP300S Batch Transferring Pump

Batch Transferring Pump is suitable for the tube wall thickness of 4.8mm, 6.3mm. Maximum flow rate is 35L/min, the largest pressure is 0.3Mpa. It has reasonable tight composition, easy to load the tube. The roller adopts planetary gear transmission, safe and reliable, at the same time it can prolong the tubing life.



Planetary gear design effectively prolong the life of the tube

#### Feature

- Flow range is wide, can reach 2m<sup>3</sup>/hour, suitable for batch transferring.
- The pressure of transmission is high, suitable for massive viscosity and high-lift materials.
- It adopts planetary gear design, safe and reliable, with high-power.
- Roller driving force rotation, rolling friction with tube, prolong tubing life.
- Press tube gap is adjustable.
- AC motor with frequency control of motor speed control, it can be achieved networking operation with PLC, IPC and computer.

#### Specification

Model	KJP300S
Flow range	Maximum 35L/min, can reach 2m <sup>3</sup> /hour
Suitable tubing	88# 92# ; 191# 193#
Shell material	aluminium alloy
Roller	304 Stainless steel
Speed range	30-300rpm
Gap adjustment	adjustable
Operating condition	temperature 0 ~ 40°C
Chemical compatibility	resist acid-base, organic solvent.
IP grade	IP54
Power supply	AC 220V ±20%/400W

### KDS600-X Multichannel Dispensing System

KDS600-X Multi Channels Dispensing System is suitable for various fluid, volume range: 0.5-500 mL. four filling channels can work at the same time. Each channel will stop working when lack of the bottle. Color LCD touch screen with intuitive and clear displaying interface, easy to operate.



#### Feature

- Stainless steel housing, easy to clean, excellent resistance to the corrosion of the acid, alkali, sodium and the organic solvents.
- Color LCD touch screen with intuitive and clear displaying interface, easy to operate.
- Unique intelligent calibration system, greatly reducing the workload of users and improving efficiency.
- Can cascade for more channels
- Applicable pump head: YZ15, YZ25
- Volume range: 0.1-500 ml/min.
- Dispensing time: 0.1-99.99 second.
- Dispensing accuracy: up to 0.5%.
- Speed resolution: 0.1rpm.
- Fine adjustment on line, it is convenient for users adjusting flow rate as tubing's aging.
- With offline and online function for each channel.
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- Each channel will stop working when lack of the bottle.

#### Specification

Model	KDS600-X
Flow range(ml)	0.1-500
Speed range(rpm)	0.1-600
Speed resolution(rpm)	0.1
Flow accuracy	<0.5%
Power supply	AC220V ± 10% 50Hz/60Hz(standard) AC110± 10% 50Hz/60Hz(optional)
Power consumption	<240W
External control	External bottle-lack signal and start signal
Communication interface	RS485 communication interface, MODBUS protocol is available.
Operating condition	Temperature 0 ~ 40 °C; Relative humidity <80%
IP grade	IP31

#### Applicable pump head and tubing, flow parameters

Drive type	Pump heads	Tubing size(mm)	Flow rate per channel (ml/min)
KDS600-X	KYZ15	13#14#16#19#25#17#	0.1-500
	KYZ25	15#24#	5-370
	KYT15	13#14#16#19#25#17#18#	0.1-500
	KYT25	15#24#35#36#	5-500

### KYZ Series Medium Flow Rate Pump Head

Load various tubing; easy-load type, compact structure, can be mounted in tandem(up to 4); pump head with PPS material is resistance to organic solvents and other corrosion liquid, it is solid and durable.



#### Specification

Mode	KYZ15	KYZ25
Flow range	0.006~2300mL/min	0.006~2900mL/min
Applicable tubings	13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#
Shell material	PPS	
Roller material	304 stainless steel	
Roller number	3	4
Gap adjustment	fixed	fine adjustable
Working temperature	work continuously under 200 °C	work continuously under 100 °C
Chemical compatibility	resistant to acid, alkali and organic solvents	

#### Flow Rate (mL/min) vs rpm

Mode	Tubing	Speed range (rpm)	Flow range ( ml/min )	Roller materials	Number Of rollers	Housing materials	Color	Weight (kg)
KYZ15	13#14# 19#16# 25# 17#	0-600	0.006-1700	304 Stainless steel	3/6	PPS PES	Black	0.4
							White	
KYZ25	15# 24#	0-600	0.006-1700	304 Stainless steel	3/6	PPS PES	Black	0.4
							White	

#### Materials Introduction for YZ Series Pump Head

These series of pump head have PPS (polyphenylene sulfite) plastic shell, perfect comprehensive performance, its outstanding characteristic is high temperature resistance, corrosion resistance and excellent mechanical properties.

- Excellent heat-resistance: melting point is more than 280°C, thermal deformation temperature is more than 260 °C, can work temporarily on 260 °C and work continuously under 200 °C.
- The super resistant properties for corrosion and organic solvent: One of the characteristics of PPS is good corrosion resistance, chemical stability is near to PTFE, It is stable for acid, ester, ketone, aldehyde, phenol ,rouge hydrocarbon, aromatic ,hydrocarbons and chlorinated hydrocarbons etc, so far, any solvent that dissolves PPS under 200 °C has not been found. Meanwhile, this material has extreme resistant performance for inorganic acid, alkali and salt.
- Strong rigidity, high surface hardness, commonly known as metal-plastic; it has excellent creep resistance and fatigue resistance under heavy load.

### KYT Series Medium Flow Rate Pump Head

Load various tubing; easy-load type, compact structure, can be mounted in tandem(up to 4); pump head with PPS material is resistance to organic solvents and other corrosion liquid, it is solid and durable.



#### Specification

Mode	KYT15	KYT25
Flow range	0.006~2300mL/min	0.006~2900mL/min
Applicable tubings	13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#
Shell material	PPS	
Roller material	304 stainless steel	
Roller number	4	4
Gap adjustment	fine adjustable	fine adjustable
Working temperature	work continuously under 100 °C	work continuously under 100 °C
Chemical compatibility	resistant to acid, alkali and organic solvents	

#### Flow Rate (mL/min) vs rpm

Mode	Tubing	Speed range (rpm)	Flow range ( ml/min )	Roller materials	Number Of rollers	Housing materials	Color	Weight (kg)
KYT15	13#14# 19#16# 25# 17#	0-600	0.006-1700	304 Stainless steel	3/6	PPS PES	Black	0.4
							White	
KYT25	15# 24#	0-600	0.006-1700	304 Stainless steel	3/6	PPS PES	Black	0.4
							White	

### KYZ35 High Flow Rate Pump Head

Load various tubings; easy-load type, compact structure. Can be mounted in tandem(up to 2). Pump head with PPS material is resistant to organic solvents and other corrosion liquid. Solid and durable.



### Specification

Mode	KYZ35
Flow range	100~13,000mL/min
Applicable tubings	73 #, 82 #
Shell material	PPS
Roller material	304 stainless steel
Roller number	3
Gap adjustment	Micro-adjustment
Working temperature	work continuously under 200 °C
Chemical compatibility	resistant to acid, alkali and organic solvents

### KDG Series Ultra Low Flow Rate Pump Head

KDG series are designed for small flow and multi-channel fluid transfer, easy to install and replace tubing. Self adapting spring adjusts pressing gap automatically according to the tubing size. The rollers are made of 304 stainless steel. A pump head consists of three parts: frame, roller device and cartridge. According to the numbers of channel, there are KDG1, KDG2, KDG4, KDG8, KDG12, KDG16, KDG24.



#### Feature

- Multi-channel transfer
- Change tubing easily
- Install tubing easily
- Occlusion can be adjusted slightly by ratchet wheel to fit different tubing wall thicknesses requirements.
- 6-roller and 10-roller pump heads available.
- More rollers reduce pulsation and flow rates slightly.
- Skillful trigger structure, convenient to eject the cartridges.

#### Specification

- Flow range: 0.00016~48ml/min
- Card material: POM
- Roller material: 304 stainless steel
- Roller number: 6, 10
- Gap adjustment: micro-adjustment
- Applicable tube: wall thickness 0.8~1mm (0.03 ~0.04 inch) ID ≤3.17 mm (0.12 inch)

### KMD25 Low Pulse Pump Head

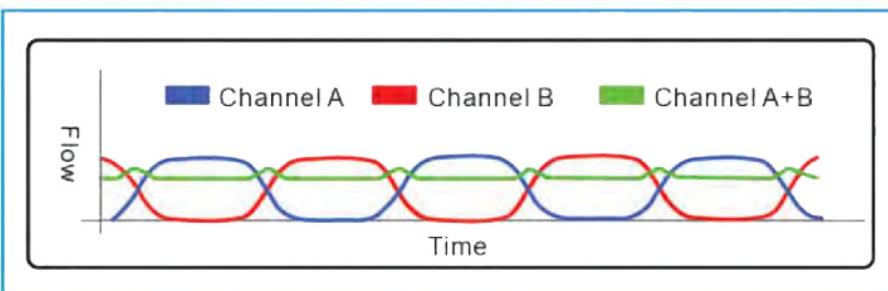
KMD25 pump head is for low pulse or high precision fluid transfer. The rotating phase difference between the two channels reduces pulse dramatically, and it also improves flow accuracy. The pump head is made of aluminium magnesium alloy and Polyoxymethylene (POM), with high mechanical strength and reliable performance.



### Specification

- Flow range: ≤ 4000mL/min
- Rotating speed range: ≤ 350rpm
- Applicable tubings: 15#, 24#, 35#, 36#
- Shell material: aluminium magnesium alloy, Polyoxymethylene (POM)
- Roller material: 304 stainless steel
- Roller number: 6
- Gap adjustment: fixed

### DMD25 working elements



### KKZ25 High Flow Rate Pump Head

KKZ25 pump head is suitable for the large flow transfer, up to 6800mL/min. It can load various tubings. Replacing tubing only needs several seconds, easy to operate. Can be mounted in tandem(up to 2). The PC pump head is transparent for observing the internal work situation of pump head, the top press block material is PPS, which is resistant to high temperature and corrosion.



### Specification

- Flow range: ≤6800mL/min
- Speed range: ≤600 rpm
- Shell material: PC, PPS or Aluminum (KZ25-L)
- Press block material: PPS or Aluminum
- Roller material: 304 stainless steel
- Roller number: 3
- Tubing-fixing adjustment: manual
- Gap adjustment: fixed
- Applicable tubings: 15 #, 24 #, 35#, 36#

### KBZ25 Pump Head

KFlow rate of the pump head is up to 1200mL/min, transparent PC plastic shell. It is convenient for observing the work situation of pump head. The roller adopts 304 stainless steel, can work long time with high speed.



### Specification

- Flow range: ≤1200mL/min
- Speed range: ≤600rpm
- Shell material: PC
- Roller material: stainless steel case 304
- Roller number: 3
- Gap adjustment: fixed
- Applicable tubing: 24#

## KDT Series multi-channel pump head

DT15 pump head is designed for small and medium flow rate, multichannel fluid conveying. plug type card is convenient and quick to replace the hose. Pump head is equipped with high quality stainless steel roller and the card has the function of adjustment the gap of pressured tube. And two card can install in positive, connect exit/entrance of each channel with Y type connector, then it reduces the pulse. Pump head adopts PPS material, it is better for chemical resistant. Instead of 2/4 channels of KYZ15 pump head, volume is smaller.



Mode	Channel number	Number Of rollers	Roller materials	Housing materials	Speed range (rpm)	Tubing	Maximum flow (ml/min)	Weight (kg)		
KDT15-14	1	4	304 stainless steel	PPS	600	19# 16# 25# 17#	1600	0.62		
KDT15-24	2							1		
KDT15-44	4							1.44		
KDT10-18	1	8			100	ID<3.17mm Wall0.8-1mm 13# 14#	70	0.72		
KDT10-28	2							0.78		
KDT10-48	4							1.08		
KDT10-88	8							1.68		

### KMC10 Micro-peristaltic pump pump head

#### Specification

- MC10 Micro peristaltic pump, small volume, convenient installation.
- DC motor.
- Adjust the speed via adjust the voltage.
- The positive and negative directions reversible.



### KKD10/KKD15 Flow range

#### Specification

- DC & Stepper motor
- Flow range :0.005-388ml/min
- Roller :4 & 8 rollers
- Tubes : KD10 :ID0.13-3.17mm, wall thickness 0.8-1 mm  
KD15:13#14#19#16#25#
- Used in the instruments, laboratory equipment, especially suitable for COD on-line monitoring



### KFZ-10 Pump Head

#### Specification

- Flow range: ≤32mL/min
- Speed range: ≤80rpm
- Shell material: Makrolon
- Roller material: POM
- Roller number: 4
- Gap adjustment: Automatic micro-adjustment
- Applicable tubes: Wall thickness: 0.8-1mm, ID: 1mm-3.17mm



### KKT15 Pump Head

Adopts unique design of the spring roller body, can adaptive to different wall thickness of the tubes, and can provide a long life of tube, installs the tube is very convenient. Pump head has good strength, high toughness, excellent chemical corrosion resistance, stable running and low noise, translucent shell, can observe the internal operation, this product can be used in equipment, instruments, laboratory equipment etc.

#### Specification

- Speed range: ≤255rpm
- Shell material: PPS
- •Roller material: PVDF
- Roller number: 4
- Gap adjustment: Automatic adjustment
- Applicable tubes: 13#, 14#, 19#, 16#, 17#, 25# silicone tubing or Pharm tubing.



### KDW Pump Head

#### Specification

Adopts Spring-Loading structure to fix the tubing. It can provide the long life tubing and high precision flow rate. Though adjust press tubing device, we can get suitable pressure. The tubing easy and fast loading, variable tubing is suitable for this pump head. It has good intensity, high toughness, exterior structure compact and beautiful, and the material is healthy and non-toxic, have excellent resistance to chemical corrosion, suitable for small flow applications, can be in equipment, instruments, laboratory equipment to use, especially suitable for COD online detecting instrument.

#### Specification

- KDW10 Flow range 0.005~45ml/min(1,2, 3Channel)
- KDW15 Flow range 0.004~120ml



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