

Kamoer Fluid Tech(Shanghai) Co., Ltd.

Version: A/1

Product name	Micro peristaltic pump		
Product model	KK300-D		
Execution date	2023.06.12		
Company name	Kamoer Fluid Tech (Shanghai) Co.,Ltd.		



File No: CPBZ-KK300-D-01

Version No: A1

Model: KK300-D **Effective Date:** 2023-06-12

## A. Product Overview

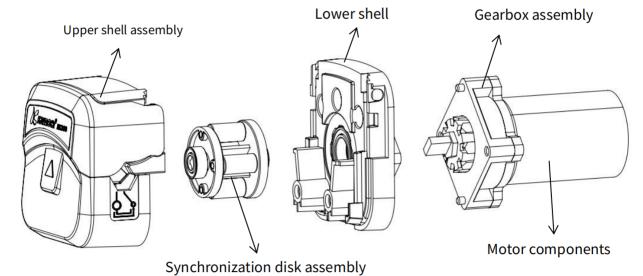
## 1. Product picture





KK300-D KK300-2D

### 2. Product assembly drawing



#### 3. Model definition

KK300	/	D.	12	T1.0
Model	Gearbox	Motor type	Voltage level	Suitable tube type

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#### 3.1 Gearbox



/: Level 1 deceleration



2: Level 2 deceleration

3.2 Motor type

D: DC brushed motor

3.3 Voltage level

12: 12V 24: 24V

3.4 Applicable tube type

T1.0: 1.0 wall thickness pump tubing

3.5 Product material

Pump body model	Pump cover/base	Output chainring	Gear/Bracket	Rotor	Sync disk
KK300	Polymer Modified Materials	РОМ	PTE	PET	Polymer Modified Materials

## Performance characteristics, typical applications

- 4.1 Performance characteristics
- KK300 -D is a DC brush motor driven peristaltic pump with exquisite appearance and high cost performance
  - One-stage deceleration and two-stage deceleration are optional
- The pump tube is imported BPT (B) tube, the size of the pump tube is (06#, 10#, 22#) peristaltic pump tube
  - 4- rotor transmission with moderate pulse
  - The installation method is fixed through the board
  - Easy to operate, quick replacement of pump tubing
  - Suitable for wall thickness 1.0mm pump tubing
  - 4.2 Typical applications
    - Food and drink
    - Medical diagnosis
    - Analytical Instruments

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- Inkjet ink
- Washing cleaning
- Environmental Instruments
- Experimental research
- Industrial machinery
- White goods
- Biochemical analysis

#### 5. Product Certification, Intellectual Property

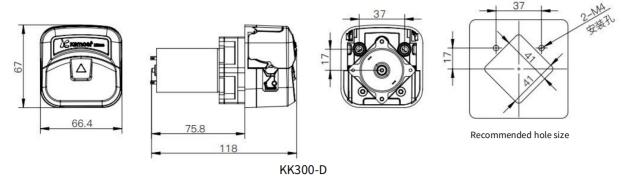
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- Hoses are resistant to liquid media Need to check chemical compatibility or conduct immersion tests, improper hose selection may cause hose damage quickly
- The working environment of the product should not exceed 45°C, and the humidity should not exceed 70% (no condensation). The harsh working environment will cause premature damage to the product
- Fluid leakage accidents due to hose ruptures depend on the fluid medium and your specific application conditions
  - High overloading may result in premature failure of the product

## **B**. Product specification

#### 1. Product Size



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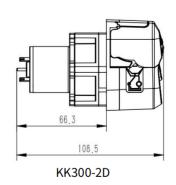
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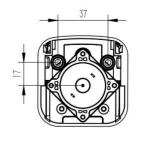
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#### 2. Technical Parameters

Item Technical Parameters							
	Motor type	DC brushed motor					
	Flow range		14-290 ml/min				
Ва	Noise		≤65 dB				
sicp	Power		D: 10W 2D: 5W				
arar	Control method			Switch	control		
Basic parameters	Weight		D: About 320g			2D: About 260g	
ST	Rated voltage			12V,	/24V		
	Pump tube life		B: 800h S: 100h				
	Motor life			80	0h		
		Reference flow rate (unit: ml/min)					
	Pump tube code	S06	S10	S22	B06	B10	B22
و ا	ID×OD	2mm×4mm	3mm×5mm	4mm×6mm	2mm×4mm	3mm×5mm	4mm×6mm
Pump flow	Pump tube material	Silicone tube BPT					
flov	D12/current 0.8A	≥80ml/min	≥160ml/min	≥260ml/min	≥80ml/min	≥160ml/min	≥260ml/min
	D24/current 0.4A	≥90ml/min	≥180ml/min	≥290ml/min	≥90ml/min	≥180ml/min	≥290ml/min
	2D12/current 0. 4A	≥14ml/min	≥25ml/min	≥40ml/min	≥14ml/min	≥25ml/min	≥40ml/min
	2D24/current 0. 2A	≥14ml/min	≥25ml/min	≥40ml/min	≥14ml/min	≥25ml/min	≥40ml/min
Precautions	The above parameters are measured with pure water at room temperature and standard atmospheric pressure at 20°C without pressure. Actually, depending on the medium, the outlet pressure, the motor speed error, etc., there will be a certain error if flow rate, and the data is only for reference; There is a certain error due to time change the data is for reference only. In addition, it can be customized according to customer				on the n error in the e changes, and		
	Reference noise value	the ambient noise of 35 dB, the measured distance is less than 65 dB at a distance of 50 cm					

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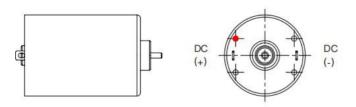


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#### 3. Motor control



Note: According to the motor wiring diagram, the positive pole of the power supply is connected to the positive pole, and the negative pole is connected to the negative pole.

## C. Adapter hose

Pump tube material	Characteristic	Standards compliant	Tube number
BPT tube (B)	Resistance to common chemicals, acid and alkali and oxidation resistance life over 800h	RoHS FDA	06# 10# 22#
Silicone tube (S)	Low adsorption, good temperature resistance, good resistance to chemical corrosion, life over 100h	RoHS Comply with food grade certification (GB 4806.11-2016)	06# 10# 22#

<sup>\*</sup>The service life is measured under KK300-D model

## D、Tube clamp

Tube clamp positioning

KK300-D can accommodate pump tubes with a wall thickness of 1.0mm and an inner diameter of

2.0mm to 4.0mm



立1 管夹

Note: For the pump tube with an inner diameter of 2.0mm, gear 1 must be used to prevent the pump tube from running out;

For the pump tube with an inner diameter of 4.0mm, gear 2 must be used to prevent the flow rate from being reduced due to excessive clamping;

For the pump tube with an inner diameter of 3.0mm, any gear can be used, please refer to Note 1 and Note 2 to choose which gear according to the actual situation;

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#### ◆ Gear adaptation

Aperture symbol Diameter	2.0mm	3.0mm	4.0mm
0	Be applicable	Be applicable	
0		Be applicable	Be applicable

◆ Tube clamp switching ○→ ○

Before switching the tube diameter, turn off the pump and open the flip cover until it is fully open;

Press the tube clamp to the root with your hands, keep the downward force to move the tube clamp to the second track, and release the force;

If the tube clamp does not slide to the second track, repeat the previous step to ensure that the tube clamp enters the second track smoothly.





first track second track

To change the small diameter to a large diameter, you need to repeat the previous operation in reverse

# E、Optional accessories

Name	Specif	fications	Function introduction
Anti-floating sinking head	Diameter 6mm Diameter 2.5mm	4	Place the inlet of the pump tube completely in the liquid to ensure that the peristaltic pump tube can fully absorb the liquid
Straight connector	3/32		2mm x 4mm hard tube or similar hose can be connected to the external
Straight connector	1/8	-	3mm x 5mm hard tube or similar hose can be connected to the external
Straight connector	5/32		4mm x 6mm hard tube or similar hose can be connected to the external

Special declaration: The company reserves the right to improve the appearance and technical specifications of the produc t without prior notice.

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