



青岛创梦仪器有限公司

Qingdao Chuangmeng Instrument Co., LTD.



恒速搅拌机  
Constant speed mixer

使用手册  
Instruction Manual

Model:1616

版本.1.0

Ver. 1.0

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请你仔细阅读《使用手册》，正确掌握本产品的安装和使用方法。阅读后请将本《使用手册》妥善保管，以备今后进行检修和维护时使用。

Please read the Instruction Manual carefully, for correctly grasping the installation and using method of this product. Please keep properly this Instruction Manual after reading, for the usage during troubleshooting and maintenance in the future.

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## 一、概述

恒速搅拌机是用于油井水泥检验时，制备水泥浆的专用设备，该机是我公司新开发的产品，采用了最新技术，改变了传统的机械调整方式，全部采用单片机控制。与传统机型相比具有使用方便，操作简单，控制精度高，采用进口优质电机，噪音小、转速高，稳定性好。

## 二、型号及规格

1616 型

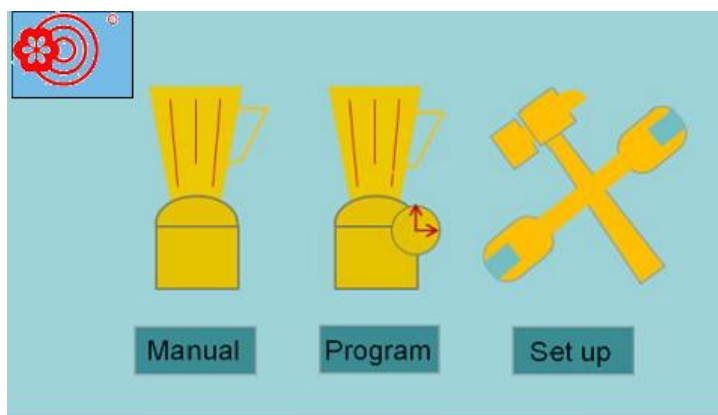
## 三、仪器的主要技术参数

名称	技术参数
浆杯容量	2000ml
输入电压	AC220V±10% 50/60Hz
定时时间	5~240 秒
额定功率	500W


## 四、仪器的操作

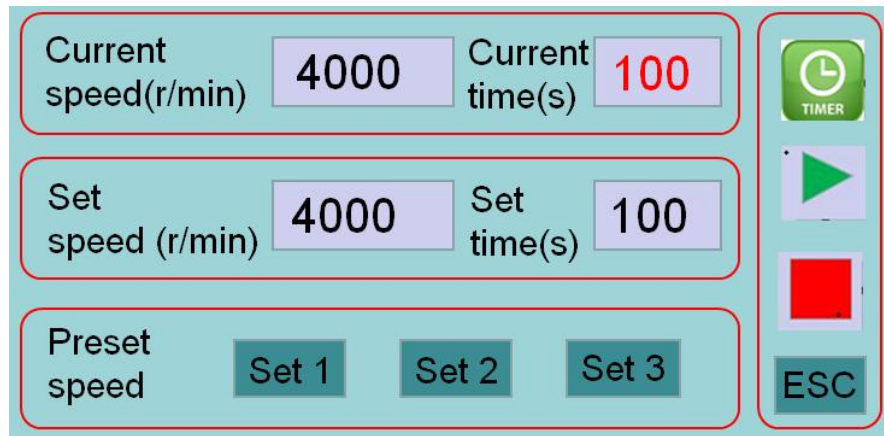
### A、手动操作

1、接通电源，打开电源开关等待显示屏显示（图 1）







（图 1）

2、点击手动图  标进入手动操作界面（图 2）




(图 2)

3、点击 TIMER 图标可以打开或关闭定时器。当操作界面  面显示为  时，处于定时状态，当操作界面显示  示为时，定时器关闭。当定时器关闭时，启动设备则一直运行不会自动停止。

4、当操作界面处  于时，启动设备，定时器随之启动，当显示的当前时间为 0 时，设备停止运行。

5、通过设置速度、设置时间窗口，对搅拌器转速与运行时间进行设置。速度设置范围为 1000-12000r/min; 时间设置范围为 5-240s。速度设置也可以通过单击预置速度的 速度 1、速度 2、速度 3，进行快速设置。预置速度的设置参考“设置操作”。

6、设置完转速与运行时间，单击  启动按键，搅拌器开始工作。

7、在搅拌器运行时，单击启动与  暂停按键，搅拌器启动与暂停。当搅拌器运行在开定时器状态下暂停，并再次启动，搅拌器根据上次暂停的时间继续运行。

6、当搅拌器运行在开定时器状态下，单击停止按键。搅拌器停止工作，当前时间恢复到设定时间。


7、在搅拌器停止运行状态下，单击 ESC 按键，退出手动模式，进入初始界面（图 1）。

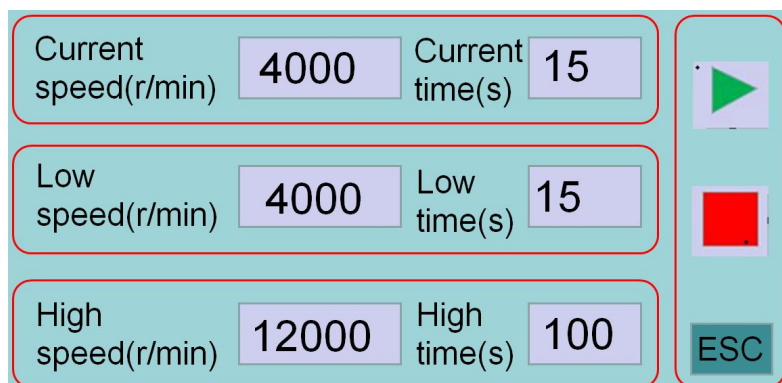
## B、程序操作

程序操作分为低速旋转与高速旋转，通过“设置操作”界面预置的低速转速与低速时间，高速转速与高速时间，对期望的低高速进行分段设置。

注：此程序为实验模式，当低转速运行时间到达以后，瞬间立即自动切换为高转速。

1、接通电源，打开电源开关等待显示屏显示（图 1）

2、点击程  序进入程序操作界面（图 3）



（图 3）

3、速度与运行时间设置参考“设置操作”。

4、单击启动按键，搅拌器开始工作。


7、在搅拌器运行时，单击启动与暂停按键，搅拌器启动与暂停。当搅拌器下暂停，并再次启动，搅拌器根据上次暂停的时间与转速继续运行。

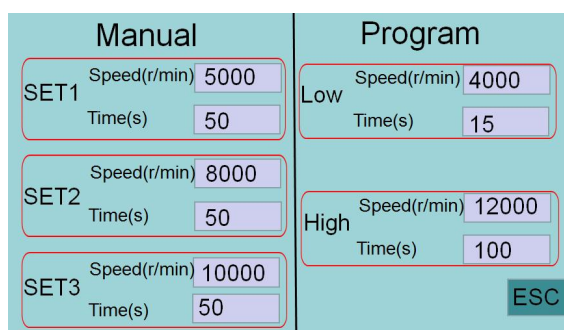
6、在搅拌器运行时，单击停止按键。搅拌器停止工作，当前转速恢复到低速设定转速、时间恢复到低速设定时间。

7、在搅拌器停止运行状态下，单击 ESC 按键，退出程序模式，进入初始界面图 3。

### C、设置操作

1、接通电源，打开电源开关等待显示屏显示（图 1）

2、点击设置图  标进入设置操作界面（图 4）



（图 4）

3、手动设置，单击速度与时间显示窗口对常用的速度与时间进行预先设置，速度范围 1000-12000r/min；时间范围 5-240s。

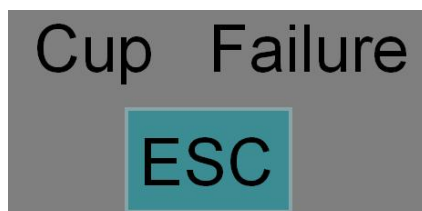
4、程序设置，单击低速速度与时间显示窗口对低速速度进行设置，单击高速速度与时间显示窗口对高速速度进行设置，一般情况下，请不要将低速转速设置的高于高速转速。

5、设置完成，单击 ESC 按键，退出设置操作，进入开机界面（图 1）。

## 五、故障分析与判断

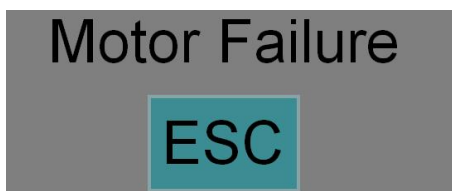
1、通电启动搅拌器之后，搅拌器显示屏幕不亮，请拔掉电源插头，打开品字口的保险丝座，查看保险丝是否烧坏，如有烧坏，请选择一个 5A 玻璃管保险丝进行更换。

2、显示屏显示



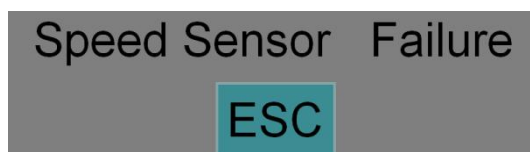
请检查是否放置浆杯，浆杯是否放置正确。确认排除故障之后单击 ESC 退出报警界面。

3、显示屏显示



请检查搅拌器与控制面板的航空插头的连接线是否连接。排除故障之后单击 ESC 退出报警界面，当航空插头的连接线没有故障却出现报警信息，表明设备长时间工作过热保护，请将设备断电 20 分钟。

4、显示屏显示



请检查搅拌器叶片是否不能正常旋转，浆杯是否盛有过于粘稠的液体，超过了搅拌器可搅拌的能力。

## 六、仪器的维护与保养

- 1、当移动、维修或保养仪器时。要轻拿、轻放，将电源线取下，以免造成部件变形影响精度和使用。
- 2、每次搅拌完毕后，应及时将仪器擦拭干净，放置干燥环境内。
- 3、搅拌机维修时，应请专业人员。详细阅读说明书。
- 4、仪器使用时要保证接地可靠。停止工作时，关闭电源开关，拔下电源插头，以保安全。

# I . Summary

Constant speed mixer is a special equipment for preparing cement slurry for oil well cement inspection. It is a newly developed product of our company. It adopts the latest technology, changes the traditional mechanical adjustment mode, and adopts single chip computer control. Compared with the traditional model, it has the advantages of convenient use, simple operation, high control precision, low noise, high speed and good stability.

## II . Model and Specification

1616

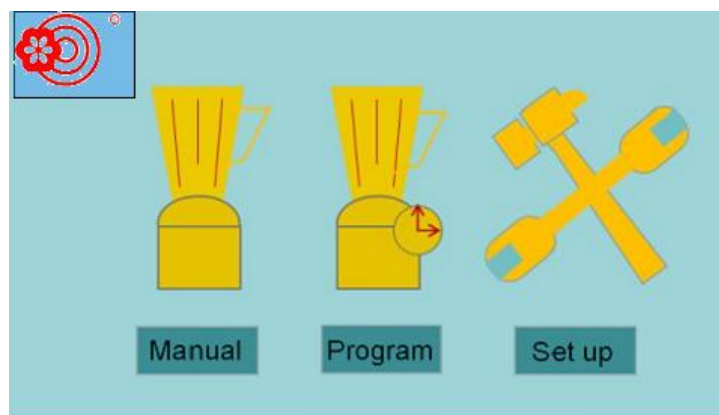
## III. Main technical parameters

Name	Technical parameter
Slurry cup capacity	2000ml
Input voltage	AC220V±10% 50/60Hz
Timing time	5~240 s
Rated power	500W


## IV. Instrument operation

### A、 Manual operation

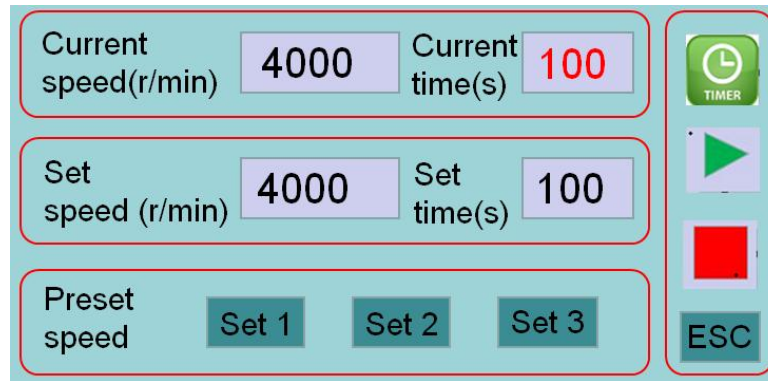
1. Turn on the power supply, turn on the power switch and wait for the display screen to display (Figure 1)





(Figure 1)


2. Click on the manual Icon  , enter the Manual Operating Interface (Figure 2)







(Figure 2)

3. Click on the TIMER icon to turn on or off the timer. When the operation interface is , it is in a timing state. When the operation interface is , the timer closes. When the timer is turned off, the startup device will not stop automatically.

4. When the operating interface is , Start the device, and the timer starts. When the current time displayed is 0, the device stops running.

5. The speed and running time of mixer are set by setting speed and time window. Speed range 1000-12000r/min; Time range 5-240s. Speed settings can also be set quickly by clicking the preset speed of 1, 2, 3. Setting the preset speed refers to Setting Operation.

6. After setting the speed and running time, click the start button , The mixer began to work.

7. When the mixer is running, click the Start and Stop button , Start and stop of mixer. When the mixer is suspended in the state of timer and started again, the mixer continues to operate according to the last suspension time.

8. When the mixer is running in the state of timer, click the stop button. The mixer stops working and the current time is restored to the set time.

9. When the mixer stops running, click the ESC button to exit the manual mode and enter the initial interface (Figure 1).

## B、 Program operation

Program operation is divided into low-speed rotation and high-speed rotation. The expected low-speed and high-speed are set in segments through the low-speed and low-speed time, high-speed speed and high-speed time preset by the "set-up operation" interface.

**Note: This program is in the experimental mode. When the low speed running time arrives, it will automatically switch to the high speed instantly.**

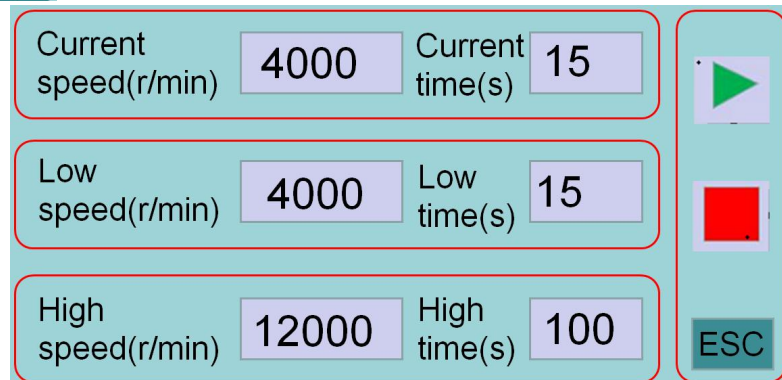
1. Turn on the power supply, turn on the power switch and wait for the display screen to display (Figure

1)

2. Click Program



Enter the program operation interface (Figure 3)



(Figure 3)

3. Speed and running time settings refer to "Setup Operation".

4. Click the start button and the mixer starts to work.

5. When the mixer is running, click the start and stop button, and the mixer starts and stops. When the mixer is suspended and restarted, the mixer continues to operate according to the time and speed of the last suspension.

6. When the mixer is running, click the stop button. The mixer stops working and the current speed is restored to the low speed setting speed and the time is restored to the low speed setting time.

7. When the mixer stops running, click ESC button to exit the program mode and enter the initial interface Figure 3.

### C、 Setup operation

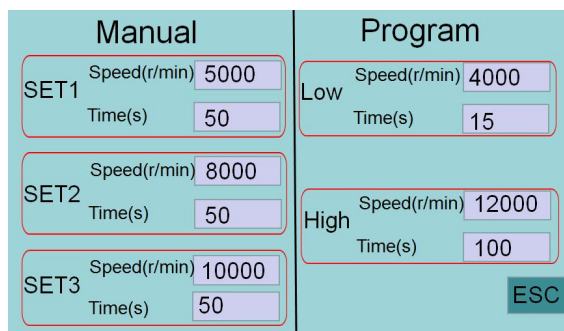
1. Turn on the power supply, turn on the power switch and wait for the display screen to display (Figure

1)

2. Click on the settings Icon



to enter the settings operation interface (Figure 4)



(Figure 4)

3.Manual settings, click the speed and time display window to pre-set the commonly used speed and time, speed range 1000-12000r/min; time range 5-240s.

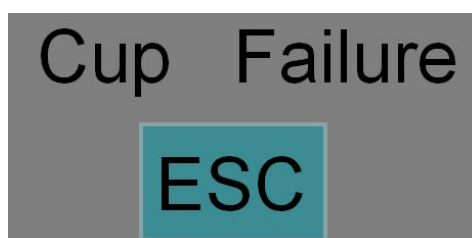
4.Program settings, click on the low speed and time display window to set the low speed, click on the high speed and time display window to set the high speed. In general, do not set the low speed above the high speed.

5.Setup completed, click ESC button, exit setup operation and enter boot interface (Figure 1).

## V.Fault Analysis and Judgment

1.When the power is switched on, the display screen of the mixer is not bright. Please unplug the power plug and open the fuse seat of the mixer. Check if the fuse is burnt out. If it is burned out, please select a 5A glass tube fuse for replacement.

2.Display screen



Please check whether the cup is placed correctly. After confirming troubleshooting, click ESC to exit the alarm interface.

3.Display screen

# Motor Failure

ESC

Please check the connection between the mixer and the air plug of the control panel. After troubleshooting, click ESC to exit the alarm interface. When the connection of the aviation plug is not faulty, the alarm message appears, indicating that the equipment works for a long time for overheating protection. Please turn off the mixer for 20 minutes.

## 4. Display screen

# Speed Sensor Failure

ESC

Please check whether the blades of the agitator can not rotate properly and whether the slurry cup is filled with excessive viscous liquid, which exceeds the mixer's agitability.

## **VI. Maintenance and Maintenance of Instruments**

1. When moving, repairing or maintaining instruments. The power cord should be removed so as not to cause parts to deform and affect accuracy and use.
2. After each stirring, the instrument should be wiped clean in time and placed in a dry environment.
3. Professionals should be invited to repair mixers. Read the instructions in detail.
4. The instrument should be grounded reliably when used. When stopping working, turn off the power switch and unplug the power plug to ensure safety.

# 青岛创梦仪器有限公司 装箱单

Qingdao Chuangmeng Instrument Co., Ltd. Packing list

Циндао Чуанмэн Инструмент Со., Лтд. Упаковочный Лист

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Manufacturing enterprise: Qingdao Chuangmeng Instrument Co., Ltd.

生产地址：青岛市城阳区流亭街道兴海路3号

Production address: No. 3 Xinghai Road, Liuting Street, Chengyang District, Qingdao

主机型号：

Model of the main motor:

出厂编号：

Manufacturing No:

序号 No	编号	名称及规格 Name and specification	数量 Quantity	备注 Remarks
1		主机 Main engine	1	
2		杯座组件 Cup seat assembly	1	
3		浆杯组件 Pulp cup assembly	1	
4		搅拌叶片 Mixing blade	1	
5		专用扳手 Special wrench	1	
6		电源线 Power cord	1	
7		使用手册 Instruction Manual	1	
8		合格证 Certificate	1	