



# 青岛创梦仪器有限公司

Qingdao ChuangMeng Instrument Co., Ltd.



使用手册

Instruction Manual

版本 1.0

Version 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。

Carefully read this User Manual to learn how to install and use the product correctly. After reading, properly keep the User Manual as a reference for future maintenance and repair.

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## 1、概述 Summary

创梦仪器生产的钻井液中使用钾离子的目的是稳定页岩和抑制膨胀性粘土。因此必须精确测定钾离子的含量以便控制钻井液的性能。手摇离心机是用于测定钾离子浓度高于 5000mg/l 或 KCl 浓度高于 3.5lb/bbl 时钻井液滤液的钾离子含量。在离心管中用高氯酸盐沉淀钾离子后，测定沉淀的体积，从标准曲线上读出钾离子的含量。

The purpose of using potassium ion in drilling fluid is to stabilize shale and inhibit expansive clay. Therefore, we must accurately determine the content of potassium ions in order to control the performance of drilling fluids. The Hand Centrifuge is used to determine the potassium content of the filtrate of drilling fluid when the concentration of potassium is higher than that of 5000mg/l or KCl when the concentration is higher than 3.5lb/bbl. After precipitation of potassium ion with perchlorate in the centrifuge tube, the volume of precipitation is determined and the content of potassium ion is read out from the standard curve.

## 2、参数 Parameters

| 型号<br>Model            | 1620                                                                                | 1621                                                                                  |
|------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 图片<br>Photo            |    |    |
| 转速<br>Speed            | 1800r/min                                                                           | 1800r/min                                                                             |
| 离心管<br>Centrifuge tube | G012410ml 玻璃 (Glass)                                                                | G0123<br>100ml 玻璃 (Glass)                                                             |
|                        | G012510ml 塑料 (Plastic)                                                              |                                                                                       |
|                        |  |  |

## 3、操作 Operation

- 1) 通过主机下方的固定夹紧装置，将主机固定在工作台边缘。
  - 2) 将配备好的待测离心试管。放置于固定架的相应试管筒中。**(注意：若只用一只试管，应将另一只试管盛有等重液体作为平衡物按同样方法放在另一只试管筒中)。**
  - 3) 将手柄装于主轴上，顺时针摇动手柄。
  - 4) 在转速（大约 1800r/min）运行一分钟，取出离心试管读出沉淀的体积。
  - 5) 实验完毕，取出试管到掉样品立即清洗干净。
- 1) The main engine is fixed on the edge of the workbench through a



fixed clamping device below the main engine.

2) A centrifuge tube that will be tested. Placed in the corresponding tube of the fixed frame. *(Note: if only one test tube is used, the other tube should hold the same fluid as the balance and put it in the other tube in the same way).*

3) Connect the handle to the spindle and shake the handle clockwise.

4) Run at a speed of about 1800r/min for one minute, take out the centrifuge tube and read out the volume of sedimentation.

5) After the experiment, remove the test tube and remove the sample and clean the instrument.



## 青岛创梦仪器有限公司 装箱单

## Qingdao Chuangmeng Instrument Co.,Ltd.Packing list

生产企业：青岛创梦仪器有限公司

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<br>NO | 编号 | 名称及规格<br>Name and specification | 单位 | 数量<br>Quantity |
|----------|----|---------------------------------|----|----------------|
| 1        |    | 主机<br>Main engine               | 台  | 1              |
| 2        |    | 摇柄<br>Handle                    | 只  | 1              |
| 3        |    | 试管<br>Centrifuge tube           | 只  | 2              |
| 4        |    | 使用手册<br>Instruction Manual      | 份  | 1              |
| 5        |    | 合格证<br>Certificate              | 份  | 1              |



# 产品合格证

## Product Quality Certificate

出厂编号:

Manufacturing No:

|                               |  |
|-------------------------------|--|
| 产品名称:<br>Description:         |  |
| 产品型号:<br>Model:               |  |
| 检验标准:<br>Standard:            |  |
| 生产日期:<br>Date of Manufacture: |  |
| 产品编号:<br>Product Code:        |  |

结论: Conclusion:

经检验, 青岛创梦仪器有限公司生产的产品符合上述标准的要求。准予出厂。  
After inspection, Qingdao Chuangmeng Instrument Co., Ltd The products produced meet the requirements of the above standards. Approved for delivery.

本企业通过: IS0014004 环境管理体系认证;  
IS09001:2015 质量管理体系认证;  
IS018000 职业健康安全管理体系认证质检科;

QC Department: